

Lubricated icephobic coatings prepared by flame spraying with hybrid feedstock injection. / Donadei, Valentina; Koivuluoto, Heli; Sarlin, Essi; Vuoristo, Petri.
In: Surface and Coatings Technology, Vol. 403, 126396, 15.12.2020.
Research output: Contribution to journal > Article > Scientific > peer-review

The effect of substrate pre-treatment on durability of rubber-stainless steel adhesion. / Sarlin, E.; Honkanen, M.; Lindgren, M.; Laihonen, P.; Juutilainen, M.; Vippola, M.; Vuorinen, J.
In: Surfaces and Interfaces, Vol. 21, 100646, 01.12.2020.
Research output: Contribution to journal > Article > Scientific > peer-review

On the alignment of ZnO nanowires by Langmuir – Blodgett technique for sensing application. / Baratto, Camilla; Golovanova, Viktoria; Faglia, Guido; Hakola, Hanna; Niemi, Tapio; Tkachenko, Nikolai; Nazarchurk, Bohdan; Golovanov, Viacheslav.
In: Applied Surface Science, Vol. 528, 146959, 30.10.2020.
Research output: Contribution to journal > Article > Scientific > peer-review

Fusionsense : Emotion classification using feature fusion of multimodal data and deep learning in a brain-inspired spiking neural network. / Tan, Clarence; Ceballos, Gerardo; Kasabov, Nikola; Subramaniam, Narayan Puthanmadam.
In: Sensors (Switzerland), Vol. 20, No. 18, 5328, 17.09.2020.
Research output: Contribution to journal > Article > Scientific > peer-review

Tail-Oxidized Cholesterol Enhances Membrane Permeability for Small Solutes. / Olżyńska, Agnieszka; Kulig, Waldemar; Mikkolainen, Heikki; Czerniak, Tomasz; Jurkiewicz, Piotr; Cwiklik, Lukasz; Rog, Tomasz; Hof, Martin; Jungwirth, Pavel; Vattulainen, Ilpo.
In: Langmuir, Vol. 36, No. 35, 08.09.2020, p. 10438-10447.
Research output: Contribution to journal > Article > Scientific > peer-review

Formation of corrosion products on zinc in wet supercritical and subcritical CO₂ : In-situ spectroscopic study. / Kaleva, A.; Tassaing, T.; Saarimaa, V.; Le Bourdon, G.; Väisänen, P.; Markkula, A.; Levänen, E.
In: Corrosion Science, Vol. 174, 01.09.2020.
Research output: Contribution to journal > Article > Scientific > peer-review

The role of symmetry in the aesthetics of residential building façades using cognitive science methods. / Azemati, Hamidreza; Jam, Fatemeh; Ghorbani, Modjtaba; Dehmer, Matthias; Ebrahimpour, Reza; Ghanbaran, Abdolhamid; Emmert-Streib, Frank.
In: Symmetry, Vol. 12, No. 9, 1438, 01.09.2020.
Research output: Contribution to journal > Article > Scientific > peer-review

ClothFace : A Batteryless RFID-Based Textile Platform for Handwriting Recognition. / He, Han; Chen, Xiaochen; Mehmood, Adnan; Raivio, Leevi; Huttunen, Heikki; Raunonen, Pasi; Virkki, Johanna.
In: Sensors (Basel, Switzerland), Vol. 20, No. 17, 4878, 28.08.2020.
Research output: Contribution to journal > Article > Scientific > peer-review

The C-I⁻...O-N⁺ Halogen Bonds with Tetraiodoethylene and Aromatic N-Oxides. / Truong, Khai Nghi; Rautiainen, J. Mikko; Rissanen, Kari; Puttreddy, Rakesh.
In: Crystal Growth and Design, Vol. 20, No. 8, 05.08.2020, p. 5330-5337.
Research output: Contribution to journal > Article > Scientific > peer-review

Design principles for non-reciprocal photomechanical actuation. / Lahikainen, Markus; Zeng, Hao; Priimagi, Arri.
In: Soft Matter, Vol. 16, No. 25, 07.07.2020, p. 5951-5958.
Research output: Contribution to journal > Article > Scientific > peer-review

Nucleation and growth behavior of Er³⁺ doped oxyfluorophosphate glasses. / Ojha, N.; Szczodra, A.; Boetti, N. G.; Massera, J.; Petit, L.
In: RSC Advances, Vol. 10, No. 43, 07.07.2020, p. 25703-25716.
Research output: Contribution to journal > Article > Scientific > peer-review

Selective hydrogen production at Pt(111) investigated by Quantum Monte Carlo methods for metal catalysis. / Sharma, Rajesh O.; Rantala, Tapio T.; Hoggan, Philip E.

In: International Journal of Quantum Chemistry, Vol. 120, No. 11, e26198, 05.06.2020.

Research output: Contribution to journal > Article > Scientific > peer-review

Additive manufacturing of monolithic supercapacitors with biopolymer separator. / Arvani, Maedeh; Keskinen, Jari; Railanmaa, Anna; Siljander, Sanna; Björkqvist, Tomas; Tuukkanen, Sampo; Lupo, Donald.

In: Journal of Applied Electrochemistry, Vol. 50, No. 6, 01.06.2020, p. 689-697.

Research output: Contribution to journal > Article > Scientific > peer-review

Molecular Docking Studies of Royleanone Diterpenoids from *Plectranthus* spp. as P-Glycoprotein Inhibitors. / Isca, Vera M.S.; Ferreira, Ricardo J.; Garcia, Catarina; Monteiro, Carlos M.; Dinic, Jelena; Holmstedt, Suvi; André, Vânia; Pesic, Milica; Dos Santos, Daniel J.V.A.; Candeias, Nuno R.; Afonso, Carlos A.M.; Rijo, Patrícia.

In: ACS MEDICINAL CHEMISTRY LETTERS, Vol. 11, No. 5, 14.05.2020, p. 839-845.

Research output: Contribution to journal > Article > Scientific > peer-review

Physical Characteristics of Particle Emissions from a Medium Speed Ship Engine Fueled with Natural Gas and Low-Sulfur Liquid Fuels. / Alanen, Jenni; Isotalo, Mia; Kuittinen, Niina; Simonen, Pauli; Martikainen, Sampsa; Kuuluvainen, Heino; Honkanen, Mari; Lehtoranta, Kati; Nyysönen, Sami; Vesala, Hannu; Timonen, Hilikka; Aurela, Minna; Keskinen, Jorma; Rönkkö, Topi.

In: Environmental Science and Technology, Vol. 54, No. 9, 05.05.2020, p. 5376-5384.

Research output: Contribution to journal > Article > Scientific > peer-review

Rotational Diffusion of Membrane Proteins in Crowded Membranes. / Javanainen, Matti; Ollila, O. H.Samuli; Martinez-Seara, Hector.

In: Journal of Physical Chemistry B, Vol. 124, No. 15, 16.04.2020, p. 2994-3001.

Research output: Contribution to journal > Article > Scientific > peer-review

Host-Guest Interactions of Sodiumsulfonatomethylenesorcinarene and Quaternary Ammonium Halides : An Experimental-Computational Analysis of the Guest Inclusion Properties. / Twum, Kwaku; Rautiainen, J. Mikko; Yu, Shilin; Truong, Khai Nghi; Feder, Jordan; Rissanen, Kari; Puttreddy, Rakesh; Beyeh, Ngong Kodiah.

In: Crystal Growth and Design, Vol. 20, No. 4, 01.04.2020, p. 2367-2376.

Research output: Contribution to journal > Article > Scientific > peer-review

The effect of start-up on energy recovery and compositional changes in brewery wastewater in bioelectrochemical systems. / Haavisto, Johanna M.; Kokko, Marika E.; Lakaniemi, Aino Maija; Sulonen, Mira L.K.; Puhakka, Jaakko A.

In: BIOELECTROCHEMISTRY, Vol. 132, 107402, 01.04.2020.

Research output: Contribution to journal > Article > Scientific > peer-review

Photostable orange-red fluorescent unsymmetrical diketopyrrolopyrrole-BF₂ hybrids. / Young, David C.; Tasiar, Mariusz; Laurent, Adèle D.; Dobrzycki, Łukasz; Cyrański, Michał K.; Tkachenko, Nikolai; Jacquemin, Denis; Gryko, Daniel T.

In: Journal of Materials Chemistry C, Vol. 8, No. 23, 04.2020, p. 7708-7717.

Research output: Contribution to journal > Article > Scientific > peer-review

Linking volatile and non-volatile compounds to sensory profiles and consumer liking of wild edible Nordic mushrooms. / Aisala, Heikki; Manninen, Hanna; Laaksonen, Timo; Linderborg, Kaisa M.; Myoda, Takao; Hopia, Anu; Sandell, Mari.

In: Food Chemistry, Vol. 304, 125403, 30.01.2020.

Research output: Contribution to journal > Article > Scientific > peer-review

Sequential Collinear Photofragmentation and Atomic Absorption Spectroscopy for Online Laser Monitoring of Triatomic Metal Species. / Viljanen, Jan; Kalmankoski, Kim; Contreras, Victor; Sarin, Jaakko K.; Sorvajärvi, Tapio; Kinnunen, Hanna; Enestam, Sonja; Toivonen, Juha.

In: Sensors (Basel, Switzerland), Vol. 20, No. 2, 533, 18.01.2020.

Research output: Contribution to journal > Article > Scientific > peer-review

A bifacial colour-tunable system via combination of a cholesteric liquid crystal network and hydrogel. / Wani, Owies M.; Schenning, Albertus P. H. J.; Priimagi, Arri.
In: Journal of Materials Chemistry C, Vol. 8, No. 30, 2020, p. 10191-10196.
Research output: Contribution to journal › Article › Scientific › peer-review

A concise synthesis of carbasugars isolated from Streptomyces lincolnensis. / Holmstedt, Suvi; Candeias, Nuno R.
In: Tetrahedron, 2020.
Research output: Contribution to journal › Article › Scientific › peer-review

A modular brain-on-a-chip for modelling epileptic seizures with functionally connected human neuronal networks. / Pelkonen, Anssi; Mzezewa, Ropafadzo; Sukki, Lassi; Rynänen, Tomi; Kreuzer, Joose; Hyvärinen, Tanja; Vinogradov, Andrey; Aarnos, Laura; Leikkala, Jukka; Kallio, Pasi; Narkilahti, Susanna.
In: Biosensors and Bioelectronics, Vol. 168, 112553, 2020.
Research output: Contribution to journal › Article › Scientific › peer-review

Bringing a Molecular Plus One : Synergistic Binding Creates Guest-Mediated Three-Component Complexes. / Taimoory, S. Maryamdokht; Twum, Kwaku; Dashti, Mohadeseh; Pan, Fangfang; Lahtinen, Manu; Rissanen, Kari; Puttreddy, Rakesh; Trant, John F.; Beyeh, Ngong Kodiah.
In: Journal of Organic Chemistry, Vol. 85, No. 9, 2020, p. 5884-5894.
Research output: Contribution to journal › Article › Scientific › peer-review

Comparison and impact of different fiber debond techniques on fiber reinforced flexible composites. / Beter, Julia; Schrittmesser, Bernd; Maroh, Boris; Sarlin, Essi; Fuchs, Peter Philipp; Pinter, Gerald.
In: Polymers, Vol. 12, No. 2, 472, 2020.
Research output: Contribution to journal › Article › Scientific › peer-review

Compounding and characterization of recycled multilayer plastic films. / Jönkkäri, Ilari; Poliakova, Valeria; Mylläri, Ville; Anderson, Reetta; Andersson, Mirja; Vuorinen, Jyrki.
In: Journal of Applied Polymer Science, 2020.
Research output: Contribution to journal › Article › Scientific › peer-review

Conductivity control via minimally invasive anti-Frenkel defects in a functional oxide. / Evans, Donald M.; Holstad, Theodor S.; Mosberg, Aleksander B.; Småbråten, Didrik R.; Vullum, Per Erik; Dadlani, Anup L.; Shapovalov, Konstantin; Yan, Zewu; Bourret, Edith; Gao, David; Akola, Jaakko; Torgersen, Jan; van Helvoort, Antonius T.J.; Selbach, Sverre M.; Meier, Dennis.
In: Nature Materials, 2020.
Research output: Contribution to journal › Article › Scientific › peer-review

Effect of tungsten and selenium on C₁ gas bioconversion by an enriched anaerobic sludge and microbial community analysis. / Chakraborty, Samayita; Rene, Eldon R.; Lens, Piet N.L.; Rintala, Jukka; Veiga, María C.; Kennes, Christian.
In: Chemosphere, Vol. 250, 126105, 2020.
Research output: Contribution to journal › Article › Scientific › peer-review

Efficient Conversion of Light to Chemical Energy : Directional, Chiral Photoswitches with Very High Quantum Yields. / Moormann, Widukind; Tellkamp, Tobias; Stadler, Eduard; Röhrich, Fynn; Näther, Christian; Puttreddy, Rakesh; Rissanen, Kari; Gescheidt, Georg; Herges, Rainer.
In: Angewandte Chemie - International Edition, Vol. 59, No. 35, 2020, p. 15081-15086.
Research output: Contribution to journal › Article › Scientific › peer-review

Energy dissipation in natural rubber latex films : The effect of stabilizers, leaching and acetone-treatment. / Shakun, Alexandra; Sarlin, Essi; Vuorinen, Jyrki.
In: Journal of Applied Polymer Science, 2020.
Research output: Contribution to journal › Article › Scientific › peer-review

Experimental study on axially loaded square hollow section T-joints under fire conditions. / Bączkiewicz, Jolanta; Malaska, Mikko; Pajunen, Sami; Alanen, Mika; Heinisuo, Markku.
In: FIRE SAFETY JOURNAL, Vol. 114, 102993, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Fast Switching of Bright Whiteness in Channeled Hydrogel Networks. / Eklund, Amanda; Zhang, Hang; Zeng, Hao; Priimägi, Arri; Ikkala, Olli.

In: *Advanced Functional Materials*, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Hematite Surface Modification toward Efficient Sunlight-Driven Water Splitting Activity : The Role of Gold Nanoparticle Addition. / Tofanello, Aryane; Freitas, Andre L.M.; Carvalho, Waldemir M.; Salminen, Turkka; Niemi, Tapio; Souza, Flavio L.

In: *Journal of Physical Chemistry C*, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

High-resolution analysis of the ν_3 band of radiocarbon methane $^{14}\text{CH}_4$. / Larnimaa, Santeri; Halonen, Lauri; Karhu, Juho; Tomberg, Teemu; Metsälä, Markus; Genoud, Guillaume; Hieta, Tuomas; Bell, Steven; Vainio, Markku.

In: *Chemical Physics Letters*, Vol. 750, 137488, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

ILC1 drive intestinal epithelial and matrix remodelling. / Jowett, Geraldine M.; Norman, Michael D.A.; Yu, Tracy T.L.; Rosell Arévalo, Patricia; Hoogland, Dominique; Lust, Suzette T.; Read, Emily; Hamrud, Eva; Walters, Nick J.; Niazi, Umar; Chung, Matthew Wai Heng; Marciano, Daniele; Omer, Omer S.; Zabinski, Tomasz; Danovi, Davide; Lord, Graham M.; Hilborn, Jöns; Evans, Nicholas D.; Dreiss, Cécile A.; Bozec, Laurent; Oommen, Oommen P.; Lorenz, Christian D.; da Silva, Ricardo M.P.; Neves, Joana F.; Gentleman, Eileen.

In: *Nature Materials*, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Influence of powder properties on residual stresses formed in high-pressure liquid fuel HVOF sprayed WC-CoCr coatings. / Varis, Tommi; Suhonen, Tomi; Jokipii, Mika; Vuoristo, Petri.

In: *Surface and Coatings Technology*, Vol. 388, 125604, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Kinetics and modelling of thiosulphate biotransformations by haloalkaliphilic *Thioalkalivibrio versutus*. / Hajdu-Rahkama, Réka; Özkaya, Bestamin; Lakaniemi, Aino Maija; Puhakka, Jaakko A.

In: *Chemical Engineering Journal*, Vol. 401, 126047, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Modelling of a pressure swing adsorption unit by deep learning and artificial intelligence tools. / Oliveira, Luís Miguel Cunha; Koivisto, Hannu; Iwakiri, Igor G.I.; Loureiro, José M.; Ribeiro, Ana M.; Nogueira, Idelfonso B.R.

In: *Chemical Engineering Science*, Vol. 224, 115801, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Modification of Surface States of Hematite-Based Photoanodes by Submonolayer of TiO_2 for Enhanced Solar Water Splitting. / Palmolahti, Lauri; Ali-Löytty, Harri; Khan, Ramsha; Saari, Jesse; Tkachenko, Nikolai V.; Valden, Mika.

In: *Journal of Physical Chemistry C*, Vol. 124, No. 24, 2020, p. 13094-13101.

Research output: Contribution to journal › Article › Scientific › peer-review

Monitoring Charge Carrier Diffusion across a Perovskite Film with Transient Absorption Spectroscopy. / Pasanen, Hannu P.; Vivo, Paola; Canil, Laura; Hempel, Hannes; Unold, Thomas; Abate, Antonio; Tkachenko, Nikolai V.

In: *The journal of physical chemistry letters*, Vol. 11, No. 2, 2020, p. 445-450.

Research output: Contribution to journal › Article › Scientific › peer-review

Non-radiative decay and fragmentation in water molecules after 1 a 1-1 4 a 1 excitation and core ionization studied by electron-energy-resolved electron-ion coincidence spectroscopy. / Sankari, Anna; Stråhlman, Christian; Sankari, Rami; Partanen, Leena; Laksman, Joakim; Kettunen, J. Antti; Galván, Ignacio Fdez; Lindh, Roland; Malmqvist, Per Åke; Sorensen, Stacey L.

In: *Journal of Chemical Physics*, Vol. 152, No. 7, 074302, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Photo-oxidation of Aromatic Hydrocarbons Produces Low-Volatility Organic Compounds. / Wang, Mingyi; Chen, Dexian; Xiao, Mao; Ye, Qing; Stolzenburg, Dominik; Hofbauer, Victoria; Ye, Penglin; Vogel, Alexander L.; Mauldin, Roy L.; Amorim, Antonio; Baccarini, Andrea; Baumgartner, Bernhard; Brilke, Sophia; Dada, Lubna; Dias, António; Duplissy, Jonathan; Finkenzeller, Henning; Garmash, Olga; He, Xu Cheng; Hoyle, Christopher R.; Kim, Changhyuk; Kvashnin, Alexander; Lehtipalo, Katrianne; Fischer, Lukas; Molteni, Ugo; Petäjä, Tuukka; Pospisilova, Veronika; Quéléver, Lauriane L.J.; Rissanen, Matti; Simon, Mario; Tauber, Christian; Tomé, António; Wagner, Andrea C.; Weitz, Lena; Volkamer, Rainer; Winkler, Paul M.; Kirkby, Jasper; Worsnop, Douglas R.; Kulmala, Markku; Baltensperger, Urs; Dommen, Josef; El-Haddad, Imad; Donahue, Neil M.

In: *Environmental Science and Technology*, Vol. 54, No. 13, 2020, p. 7911-7921.

Research output: Contribution to journal › Article › Scientific › peer-review

Recovery characteristics of different tube materials in relation to combustion products. / Karjalainen, M.; Kontunen, A.; Mäkelä, M.; Anttalainen, O.; Vehkaoja, A.; Oksala, N.; Roine, A.

In: *International Journal for Ion Mobility Spectrometry*, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Syndecan-4 tunes cell mechanics by activating the kindlin-integrin-RhoA pathway. / Chronopoulos, Antonios; Thorpe, Stephen D.; Cortes, Ernesto; Lachowski, Dariusz; Rice, Alistair J.; Mykuliak, Vasy V.; Rog, Tomasz; Lee, David A.; Hytönen, Vesa P.; del Río Hernández, Armando E.

In: *Nature Materials*, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Taste compound – Nanocellulose interaction assessment by fluorescence indicator displacement assay. / Manninen, Hanna; Durandin, Nikita; Hopia, Anu; Vuorimaa-Laukkanen, Elina; Laaksonen, Timo.

In: *Food Chemistry*, Vol. 318, 126511, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Toward Rigorous Materials Production : New Approach Methodologies Have Extensive Potential to Improve Current Safety Assessment Practices. / Nymark, Penny; Bakker, Martine; Dekkers, Susan; Franken, Remy; Fransman, Wouter; García-Bilbao, Amaia; Greco, Dario; Gulumian, Mary; Hadrup, Niels; Halappanavar, Sabina; Hongisto, Vesa; Hougaard, Karin Sørig; Jensen, Keld Alstrup; Kohonen, Pekka; Koivisto, Antti Joonas; Dal Maso, Miikka; Oosterwijk, Thies; Poikkimäki, Mikko; Rodriguez-Llopis, Isabel; Stierum, Rob; Sørli, Jorid Birkelund; Grafström, Roland.

In: *Small*, Vol. 16, No. 6, 1904749, 2020.

Research output: Contribution to journal › Review Article › Scientific › peer-review

Ultrafast Photochemistry of the $[\text{Cr}(\text{NCS})_6]^{3-}$ Complex in Dimethyl Sulfoxide and Dimethylformamide upon Excitation into Ligand-Field Electronic State. / Khvorost, Taras A.; Beliaev, Leonid Yu; Potalueva, Ekaterina; Laptchenkova, Anastasia V.; Selyutin, Artem A.; Bogachev, Nikita A.; Skripkin, Mikhail Yu; Ryazantsev, Mikhail N.; Tkachenko, Nikolai; Mereshchenko, Andrey S.

In: *Journal of Physical Chemistry B*, Vol. 124, No. 18, 2020, p. 3724-3733.

Research output: Contribution to journal › Article › Scientific › peer-review

Environmental monitoring with distributed mesh networks : An overview and practical implementation perspective for urban scenario. / Ometov, Aleksandr; Bezzateev, Sergey; Voloshina, Natalia; Masek, Pavel; Komarov, Mikhail.

In: *Sensors (Switzerland)*, Vol. 19, No. 24, 5548, 02.12.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

Key drivers of cloud response to surface-active organics. / Lowe, S. J.; Partridge, D. G.; Davies, J. F.; Wilson, K. R.; Topping, D.; Riipinen, I.

In: *Nature Communications*, Vol. 10, No. 1, 5214, 01.12.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

Programmable responsive hydrogels inspired by classical conditioning algorithm. / Zhang, Hang; Zeng, Hao; Priimägi, Arri; Ikkala, Olli.

In: *Nature Communications*, Vol. 10, No. 1, 3267, 01.12.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

The role of highly oxygenated organic molecules in the Boreal aerosol-cloud-climate system. / Roldin, Pontus; Ehn, Mikael; Kurtén, Theo; Olenius, Tinja; Rissanen, Matti P.; Sarnela, Nina; Elm, Jonas; Rantala, Pekka; Hao, Liqing; Hyttinen, Noora; Heikkinen, Liine; Worsnop, Douglas R.; Pichelstorfer, Lukas; Xavier, Carlton; Clusius, Petri; Öström, Emilie; Petäjä, Tuukka; Kulmala, Markku; Vehkamäki, Hanna; Virtanen, Annele; Riipinen, Ilona; Boy, Michael.
In: *Nature Communications*, Vol. 10, No. 1, 4370, 01.12.2019.

Research output: Contribution to journal > Article > Scientific > peer-review

Spectral object recognition in hyperspectral holography with complex-domain denoising. / Shevkunov, Igor; Katkovnik, Vladimir; Claus, Daniel; Pedrini, Giancarlo; Petrov, Nikolay V.; Egiazarian, Karen.
In: *Sensors (Switzerland)*, Vol. 19, No. 23, 5188, 26.11.2019.

Research output: Contribution to journal > Article > Scientific > peer-review

Nanocluster Aerosol Emissions of a 3D Printer. / Poikkimäki, Mikko; Koljonen, Ville; Leskinen, Niko; Närhi, Mikko; Kangasniemi, Oskari; Kausiala, Oskari; Dal Maso, Miikka.
In: *Environmental Science and Technology*, Vol. 53, No. 23, 07.11.2019, p. 13618–13628.

Research output: Contribution to journal > Article > Scientific > peer-review

Molecular Composition and Volatility of Nucleated Particles from α -Pinene Oxidation between -50 °c and +25 °c. / Ye, Qing; Wang, Mingyi; Hofbauer, Victoria; Stolzenburg, Dominik; Chen, Dexian; Schervish, Meredith; Vogel, Alexander; Mauldin, Roy L.; Baalbaki, Rima; Brilke, Sophia; Dada, Lubna; Dias, António; Duplissy, Jonathan; El Haddad, Imad; Finkenzeller, Henning; Fischer, Lukas; He, Xucheng; Kim, Changhyuk; Kürten, Andreas; Lamkaddam, Houssni; Lee, Chuan Ping; Lehtipalo, Katrianne; Leiminger, Markus; Manninen, Hanna E.; Marten, Ruby; Mentler, Bernhard; Partoll, Eva; Petäjä, Tuukka; Rissanen, Matti; Schobesberger, Siegfried; Schuchmann, Simone; Simon, Mario; Tham, Yee Jun; Vazquez-Pufleau, Miguel; Wagner, Andrea C.; Wang, Yonghong; Wu, Yusheng; Xiao, Mao; Baltensperger, Urs; Curtius, Joachim; Flagan, Richard; Kirkby, Jasper; Kulmala, Markku; Volkamer, Rainer; Winkler, Paul M.; Worsnop, Douglas; Donahue, Neil M.

In: *Environmental Science and Technology*, Vol. 53, No. 21, 05.11.2019, p. 12357-12365.

Research output: Contribution to journal > Article > Scientific > peer-review

Statistical evaluation of barkhausen noise testing (BNT) for ground samples. / Tomkowski, Robert; Sorsa, Aki; Santa-Aho, Suvi; Lundin, Per; Vippola, Minnamari.

In: *Sensors (Switzerland)*, Vol. 19, No. 21, 4716, 01.11.2019.

Research output: Contribution to journal > Article > Scientific > peer-review

Controlled Orientations of Neighboring Tetracene Units by Mixed Self-Assembled Monolayers on Gold Nanoclusters for High-Yield and Long-Lived Triplet Excited States through Singlet Fission. / Saegusa, Toshiyuki; Sakai, Hayato; Nagashima, Hiroki; Kobori, Yasuhiro; Tkachenko, Nikolai V.; Hasobe, Taku.

In: *Journal of the American Chemical Society*, Vol. 141, No. 37, 18.09.2019, p. 14720-14727.

Research output: Contribution to journal > Article > Scientific > peer-review

Effects of anode materials on electricity production from xylose and treatability of TMP wastewater in an up-flow microbial fuel cell. / Haavisto, Johanna; Dessì, Paolo; Chatterjee, Pritha; Honkanen, Mari; Noori, Md Tabish; Kokko, Marika; Lakaniemi, Aino Maija; Lens, Piet N.L.; Puhakka, Jaakko A.

In: *Chemical Engineering Journal*, Vol. 372, 15.09.2019, p. 141-150.

Research output: Contribution to journal > Article > Scientific > peer-review

Multiresonant High-Q Plasmonic Metasurfaces. / Reshef, Orad; Saad-Bin-Alam, Md; Huttunen, Mikko J.; Carlow, Graham; Sullivan, Brian T.; Ménard, Jean Michel; Dolgaleva, Ksenia; Boyd, Robert W.

In: *Nano Letters*, Vol. 19, No. 9, 11.09.2019, p. 6429-6434.

Research output: Contribution to journal > Article > Scientific > peer-review

Strategies To Diminish the Emissions of Particles and Secondary Aerosol Formation from Diesel Engines. / Karjalainen, Panu; Rönkkö, Topi; Simonen, Pauli; Ntziachristos, Leonidas; Juuti, Paxton; Timonen, Hilikka; Teinilä, Kimmo; Saarikoski, Sanna; Saveljeff, Henna; Lauren, Mika; Happonen, Matti; Matilainen, Pekka; Maunula, Teuvo; Nuottimäki, Jukka; Keskinen, Jorma.

In: *Environmental science & technology*, Vol. 53, No. 17, 03.09.2019, p. 10408-10416.

Research output: Contribution to journal > Article > Scientific > peer-review

Behavior of the DPH fluorescence probe in membranes perturbed by drugs. / Poojari, Chetan; Wilkosz, Natalia; Lira, Rafael B.; Dimova, Rumiana; Jurkiewicz, Piotr; Petka, Rafał; Kepczynski, Mariusz; Róg, Tomasz.
In: Chemistry and Physics of Lipids, Vol. 223, 104784, 01.09.2019.
Research output: Contribution to journal › Article › Scientific › peer-review

Porous polybutylene succinate films enabling adhesion of human embryonic stem cell-derived retinal pigment epithelial cells (hESC-RPE). / Calejo, M. Teresa; Haapala, Anne; Skottman, Heli; Kellomäki, Minna.
In: European Polymer Journal, Vol. 118, 01.09.2019, p. 78-87.
Research output: Contribution to journal › Article › Scientific › peer-review

Influence of ions to modulate hydrazone and oxime reaction kinetics to obtain dynamically cross-linked hyaluronic acid hydrogels. / Wang, Shuijiang; Nawale, Ganesh N.; Oommen, Oommen P.; Hilborn, Jöns; Varghese, Oommen P.
In: Polymer Chemistry, Vol. 10, No. 31, 21.08.2019, p. 4322-4327.
Research output: Contribution to journal › Article › Scientific › peer-review

Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings. / Kiilakoski, J.; Languade, Cécile; Koivuluoto, H.; Vuoristo, P.
In: Surface and Coatings Technology, Vol. 371, 15.08.2019, p. 245-254.
Research output: Contribution to journal › Article › Scientific › peer-review

Chlorine induced high-temperature corrosion mechanisms in HVOF and HVOF sprayed Cr₃C₂-based hardmetal coatings. / Fantozzi, Davide; Matikainen, Ville; Uusitalo, Mikko; Koivuluoto, Heli; Vuoristo, Petri.
In: Corrosion Science, 14.08.2019.
Research output: Contribution to journal › Article › Scientific › peer-review

Bayesian inversion of a forest reflectance model using Sentinel-2 and Landsat 8 satellite images. / Schraik, Daniel; Varvia, Petri; Korhonen, Lauri; Rautiainen, Miina.
In: JOURNAL OF QUANTITATIVE SPECTROSCOPY AND RADIATIVE TRANSFER, Vol. 233, 01.08.2019, p. 1-12.
Research output: Contribution to journal › Article › Scientific › peer-review

Photochemistry of dithiophosphate Ni(S₂P(i-Bu)₂)₂ complex in CCl₄. Transient species and TD-DFT calculations. / Solovyev, Aleksey I.; Mikheyli, Aleksandr V.; Plyusnin, Victor F.; Shubin, Aleksandr A.; Grivin, Vjacheslav P.; Larionov, Stanislav V.; Tkachenko, Nikolai V.; Lemmetyinen, Helge.
In: Journal of Photochemistry and Photobiology A: Chemistry, Vol. 381, 111857, 01.08.2019.
Research output: Contribution to journal › Article › Scientific › peer-review

Erosion wear performance of WC-10Co4Cr and Cr₃C₂-25NiCr coatings sprayed with high-velocity thermal spray processes. / Matikainen, V.; Rubio Peregrina, S.; Ojalá, N.; Koivuluoto, H.; Schubert, J.; Houdková, ; Vuoristo, P.
In: Surface and Coatings Technology, Vol. 370, 25.07.2019, p. 196-212.
Research output: Contribution to journal › Article › Scientific › peer-review

Observation of Coexistence of Yu-Shiba-Rusinov States and Spin-Flip Excitations. / Kezilebieke, Shawulienu; Žitko, Rok; Dvorak, Marc; Ojanen, Teemu; Liljeroth, Peter.
In: Nano Letters, Vol. 19, No. 7, 10.07.2019, p. 4614-4619.
Research output: Contribution to journal › Article › Scientific › peer-review

FCC-hh : The Hadron Collider: Future Circular Collider Conceptual Design Report Volume 3. / Abada, A.; Abbrescia, M.; AbdusSalam, S. S.; Abdyukhanov, I.; Abelleira Fernandez, J.; Abramov, A.; Aburaira, M.; Acar, A. O.; Adzic, P. R.; Agrawal, P.; Aguilar-Saavedra, J. A.; Aguilera-Verdugo, J. J.; Aiba, M.; Aichinger, I.; Aielli, G.; Akay, A.; Akhundov, A.; Aksakal, H.; Albacete, J. L.; Albergo, S.; Alekou, A.; Aleksa, M.; Aleksan, R.; Alemany Fernandez, R. M.; Alexahin, Y.; Alía, R. G.; Alioli, S.; Alipour Tehrani, N.; Allanach, B. C.; Allport, P. P.; Altinli, M.; Altmannshofer, W.; Ambrosio, G.; Amorim, D.; Amstutz, O.; Anderlini, L.; Andreazza, A.; Andreini, M.; Andriatis, A.; Andris, C.; Andronic, A.; Angelucci, M.; Antinori, F.; Antipov, S. A.; Antonelli, M.; Antonello, M.; Lehtinen, T.; Penttinen, J. P.; Salmi, T.; Stenvall, A.
In: European Physical Journal: Special Topics, Vol. 228, No. 4, 01.07.2019, p. 755-1107.
Research output: Contribution to journal › Article › Scientific › peer-review

Pyrolytic behavior of lignocellulosic-based polysaccharides. / Ghalibaf, Maryam; Doddapaneni, Tharaka Rama Krishna C.; Alén, Raimo.

In: Journal of Thermal Analysis and Calorimetry, Vol. 137, No. 1, 07.2019, p. 121-131.

Research output: Contribution to journal > Article > Scientific > peer-review

Crystalline Wax Esters Regulate the Evaporation Resistance of Tear Film Lipid Layers Associated with Dry Eye Syndrome. / Paananen, Riku O.; Javanainen, Matti; Holopainen, Juha M.; Vattulainen, Ilpo.

In: Journal of Physical Chemistry Letters, Vol. 10, No. 14, 25.06.2019, p. 3893-3898.

Research output: Contribution to journal > Article > Scientific > peer-review

Water-Responsive and Mechanically Adaptive Natural Rubber Composites by in Situ Modification of Mineral Filler Structures. / Banerjee, Shib Shankar; Hait, Sakrit; Natarajan, Tamil Selvan; Wießner, Sven; Stöckelhuber, Klaus Werner; Jehnichen, Dieter; Janke, Andreas; Fischer, Dieter; Heinrich, Gert; Busfield, James J.C.; Das, Amit.

In: Journal of Physical Chemistry B, Vol. 123, No. 24, 20.06.2019, p. 5168-5175.

Research output: Contribution to journal > Article > Scientific > peer-review

Epitaxial phases of high Bi content GaSbBi alloys. / Hilska, Joonas; Koivusalo, Eero; Puustinen, Janne; Suomalainen, Soile; Guina, Mircea.

In: Journal of Crystal Growth, Vol. 516, 15.06.2019, p. 67-71.

Research output: Contribution to journal > Article > Scientific > peer-review

Tailoring Second-Harmonic Emission from (111)-GaAs Nanoantennas. / Sautter, Jürgen D.; Xu, Lei; Miroshnichenko, Andrey E.; Lysevych, Mykhaylo; Volkovskaya, Irina; Smirnova, Daria A.; Camacho-Morales, Rocio; Zangeneh Kamali, Khosro; Karouta, Fouad; Vora, Kaushal; Tan, Hoe H.; Kauranen, Martti; Staude, Isabelle; Jagadish, Chennupati; Neshev, Dragomir N.; Rahmani, Mohsen.

In: Nano Letters, Vol. 19, No. 6, 12.06.2019, p. 3905-3911.

Research output: Contribution to journal > Article > Scientific > peer-review

The Role of Temperature and Lipid Charge on Intake/Uptake of Cationic Gold Nanoparticles into Lipid Bilayers. / Lolicato, Fabio; Joly, Loic; Martinez-Seara, Hector; Fragneto, Giovanna; Scoppola, Ernesto; Baldelli Bombelli, Francesca; Vattulainen, Ilpo; Akola, Jaakko; Maccarini, Marco.

In: Small, Vol. 15, No. 23, 1805046, 07.06.2019.

Research output: Contribution to journal > Article > Scientific > peer-review

Analytical Expressions for Spring Constants of Capillary Bridges and Snap-in Forces of Hydrophobic Surfaces. / Sariola, Veikko.

In: Langmuir, Vol. 35, No. 22, 04.06.2019, p. 7129-7135.

Research output: Contribution to journal > Article > Scientific > peer-review

Correlation of Surface Morphology and Interfacial Adhesive Behavior between Cellulose Surfaces : Quantitative Measurements in Peak-Force Mode with the Colloidal Probe Technique. / Lai, Yuli; Zhang, Hao; Sugano, Yasuhito; Xie, Hui; Kallio, Pasi.

In: Langmuir, Vol. 35, No. 22, 04.06.2019, p. 7312-7321.

Research output: Contribution to journal > Article > Scientific > peer-review

Methods for simultaneous robot-world-hand-eye calibration : A comparative study. / Ali, Ihtisham; Suominen, Olli; Gotchev, Atanas; Morales, Emilio Ruiz.

In: Sensors (Switzerland), Vol. 19, No. 12, 2837, 02.06.2019.

Research output: Contribution to journal > Article > Scientific > peer-review

Bioimpedance Sensor Array for Long-Term Monitoring of Wound Healing from Beneath the Primary Dressings and Controlled Formation of H₂O₂ Using Low-Intensity Direct Current. / Kekonen, Atte; Bergelin, Mikael; Johansson, Max; Kumar Joon, Narendra; Bóbačka, Johan; Viik, Jari.

In: Sensors, Vol. 19, No. 11, 31.05.2019.

Research output: Contribution to journal > Article > Scientific > peer-review

Multiscale Simulations of Biological Membranes : The Challenge To Understand Biological Phenomena in a Living Substance. / Enkavi, Giray; Javanainen, Matti; Kulig, Waldemar; Róg, Tomasz; Vattulainen, Ilpo.

In: Chemical Reviews, Vol. 119, No. 9, 08.05.2019, p. 5607-5774.

Research output: Contribution to journal > Review Article > Scientific > peer-review

Reaction between Peroxy and Alkoxy Radicals Can Form Stable Adducts. / Iyer, Siddharth; Rissanen, Matti P.; Kurtén, Theo.

In: Journal of Physical Chemistry Letters, Vol. 10, No. 9, 02.05.2019, p. 2051-2057.

Research output: Contribution to journal > Article > Scientific > peer-review

Double-side pumped membrane external-cavity surface-emitting laser (MECSEL) with increased efficiency emitting > 3 W in the 780 nm region. / Kahle, Hermann; Phung, Hoy-My; Penttinen, Jussi-Pekka; Rajala, Patrik; Tukiainen, Antti; Ranta, Sanna; Guina, Mircea.

2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings. IEEE, 2019.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Energy-dependent diffusion in a soft periodic Lorentz gas. / Gil-Gallegos, S.; Klages, R.; Solanpää, J.; Räsänen, E.

In: European Physical Journal: Special Topics, Vol. 228, No. 1, 01.05.2019, p. 143-160.

Research output: Contribution to journal > Article > Scientific > peer-review

Frequency Comb Generation in a Continuous-Wave Pumped Second-Order Nonlinear Waveguide Resonator. / Abdallah, Zeina; Stefszky, Michael; Ulvila, Ville; Silberhorn, Christine; Vainio, Markku.

2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings. IEEE, 2019.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

High-Q resonance train in a plasmonic metasurface. / Saad-Bin-Alam, Md; Reshef, Orad; Huttunen, Mikko J.; Carlow, Graham; Sullivan, Brian; Menard, Jean Michel; Dolgaleva, Ksenia; Boyd, Robert W.

2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings. IEEE, 2019.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Optical Frequency Comb Photoacoustic Spectroscopy. / Sadiq, Ibrahim; Mikkonen, Tommi; Vainio, Markku; Toivonen, Juha; Foltynowicz, Aleksandra.

2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings. IEEE, 2019.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Mass balance control of crushing circuits. / Itävuo, Pekka; Hulthén, Erik; Yahyaei, Moshen; Vilkkö, Matti.

In: Minerals Engineering, Vol. 135, 05.2019, p. 37-47.

Research output: Contribution to journal > Article > Scientific > peer-review

Moiré superlattices and 2D electronic properties of graphite/MoS₂ heterostructures. / Trainer, Daniel J.; Putilov, Aleksei V.; Wang, Baokai; Lane, Christopher; Saari, Timo; Chang, Tay Rong; Jeng, Horng Tay; Lin, Hsin; Xi, Xiaoxing; Nieminen, Jouko; Bansil, Arun; Iavarone, Maria.

In: Journal of Physics and Chemistry of Solids, Vol. 128, 05.2019, p. 325-330.

Research output: Contribution to journal > Article > Scientific > peer-review

Spin filtering in silicene by edges and chemically or electrically induced interfaces. / Saari, Timo; Nieminen, Jouko.

In: Journal of Physics and Chemistry of Solids, Vol. 128, 05.2019, p. 316-324.

Research output: Contribution to journal > Article > Scientific > peer-review

Complex Behavior of Phosphatidylcholine-Phosphatidic Acid Bilayers and Monolayers : Effect of Acyl Chain Unsaturation. / Kulig, Waldemar; Korolainen, Hanna; Zatorska, Maria; Kwolek, Urszula; Wydro, Paweł; Kepczynski, Mariusz; Róg, Tomasz.

In: Langmuir, Vol. 35, No. 17, 30.04.2019, p. 5944-5956.

Research output: Contribution to journal > Article > Scientific > peer-review

Alpha radiation-induced luminescence by am-241 in aqueous nitric acid solution. / Kerst, Thomas; Malmbeck, Rikard; Ial Banik, Nidhu L.; Toivonen, Juha.

In: *Sensors (Switzerland)*, Vol. 19, No. 7, 1602, 01.04.2019.

Research output: Contribution to journal > Article > Scientific > peer-review

Analysis of GaAsBi growth regimes in high resolution with respect to As/Ga ratio using stationary MBE growth. /

Puustinen, J.; Hilska, J.; Guina, M.

In: *Journal of Crystal Growth*, Vol. 511, 01.04.2019, p. 33-41.

Research output: Contribution to journal > Article > Scientific > peer-review

Hydrolysis and drug release from poly(ethylene glycol)-modified lactone polymers with open porosity. / Asikainen, Sanja; Paakinaho, Kaarlo; Kyhkynen, Anna Kaisa; Hannula, Markus; Malin, Minna; Ahola, Niina; Kellomäki, Minna; Seppälä, Jukka.

In: *European Polymer Journal*, Vol. 113, 01.04.2019, p. 165-175.

Research output: Contribution to journal > Article > Scientific > peer-review

Positioning information privacy in intelligent transportation systems : An overview and future perspective. / Ometov, Aleksandr; Bezzateev, Sergey; Davydov, Vadim; Shchesniak, Anna; Masek, Pavel; Lohan, Elena Simona; Koucheryavy, Yevgeni.

In: *Sensors*, Vol. 19, No. 7, 1603, 01.04.2019.

Research output: Contribution to journal > Article > Scientific > peer-review

Highly Oxygenated Organic Molecules (HOM) from Gas-Phase Autoxidation Involving Peroxy Radicals : A Key Contributor to Atmospheric Aerosol. / Bianchi, Federico; Kurtén, Theo; Riva, Matthieu; Mohr, Claudia; Rissanen, Matti P.; Roldin, Pontus; Berndt, Torsten; Crounse, John D.; Wennberg, Paul O.; Mentel, Thomas F.; Wildt, Jürgen; Junninen, Heikki; Jokinen, Tuija; Kulmala, Markku; Worsnop, Douglas R.; Thornton, Joel A.; Donahue, Neil; Kjaergaard, Henrik G.; Ehn, Mikael.

In: *Chemical Reviews*, Vol. 119, No. 6, 27.03.2019, p. 3472-3509.

Research output: Contribution to journal > Review Article > Scientific > peer-review

The Devil Is in the Details : What Do We Really Track in Single-Particle Tracking Experiments of Diffusion in Biological Membranes? / Gurtovenko, Andrey A.; Javanainen, Matti; Lolicato, Fabio; Vattulainen, Ilpo.

In: *Journal of Physical Chemistry Letters*, Vol. 10, No. 5, 07.03.2019, p. 1005-1011.

Research output: Contribution to journal > Article > Scientific > peer-review

Kinetics and thermochemistry of the reaction of 3-methylpropargyl radical with molecular oxygen. / Pekkanen, Timo T.; Timonen, Raimo S.; Lendvay, György; Rissanen, Matti P.; Eskola, Arkke J.

In: *PROCEEDINGS OF THE COMBUSTION INSTITUTE*, Vol. 37, No. 1, 01.01.2019, p. 299-306.

Research output: Contribution to journal > Article > Scientific > peer-review

A Pentacene-based Nanotube Displaying Enriched Electrochemical and Photochemical Activities. / Kuroda, Kiyonori; Yazaki, Kohei; Tanaka, Yuya; Akita, Munetaka; Sakai, Hayato; Hasobe, Taku; Tkachenko, Nikolai V.; Yoshizawa, Michito.

In: *Angewandte Chemie - International Edition*, Vol. 58, No. 4, 01.2019, p. 1115-1119.

Research output: Contribution to journal > Article > Scientific > peer-review

Charge carrier dynamics in tantalum oxide overlayers and tantalum doped hematite photoanodes. / Ruoko, Tero-Petri; Hiltunen, Arto; Iivonen, Tomi; Ulkuniemi, Riina; Lahtonen, Kimmo; Ali-Löyty, Harri; Mizohata, Kenichiro; Valden, Mika; Leskelä, Markku; Tkachenko, Nikolai V.

In: *Journal of Materials Chemistry A*, Vol. 7, No. 7, 01.2019, p. 3206-3215.

Research output: Contribution to journal > Article > Scientific > peer-review

An automated algorithm for reliable equation of state fitting of magnetic systems. / Levämäki, H.; Tian, L.-Y.; Vitos, L.; Ropo, M.

In: *Computational Materials Science*, Vol. 156, 2019, p. 121-128.

Research output: Contribution to journal > Article > Scientific > peer-review

Effect of polyolefin molecular structure on product properties in extrusion coating. / Suokas, Esa.

17th Biennial TAPPI European PLACE Conference 2019. TAPPI Press, 2019. p. 89-98.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Exclusive occurrence of photoinduced energy transfer and switching of its direction by rectangular π -extension of nanographenes. / Umeyama, Tomokazu; Hanaoka, Takuma; Yamada, Hiroki; Namura, Yuki; Mizuno, Satoshi; Ohara, Tomoya; Baek, Jinseok; Park, Jaehong; Takano, Yuta; Stranius, Kati; Tkachenko, Nikolai V.; Imahori, Hiroshi.

In: Chemical Science, Vol. 10, No. 27, 2019, p. 6642-6650.

Research output: Contribution to journal > Article > Scientific > peer-review

How well can we predict cluster fragmentation inside a mass spectrometer? / Passananti, Monica; Zapadinsky, Evgeni; Zanca, Tommaso; Kangasluoma, Juha; Mylly, Nanna; Rissanen, Matti P.; Kurtén, Theo; Ehn, Mikael; Attoui, Michel; Vehkamäki, Hanna.

In: Chemical Communications, Vol. 55, No. 42, 2019, p. 5946-5949.

Research output: Contribution to journal > Article > Scientific > peer-review

Large-scale efficient water harvesting using bioinspired micro-patterned copper oxide nanoneedle surfaces and guided droplet transport. / Sharma, Vipul; Yiannacou, Kyriacos; Karjalainen, Markus; Lahtonen, Kimmo; Valden, Mika; Sariola, Veikko.

In: Nanoscale Advances, Vol. 1, No. 10, 2019, p. 4025-4040.

Research output: Contribution to journal > Article > Scientific > peer-review

Low-dimensional formamidinium lead perovskite architectures via controllable solvent intercalation. / Shin, Mingue; Kim, Joonyun; Jung, Young Kwang; Ruoko, Tero-Petri; Priimagi, Arri; Walsh, Aron; Shin, Byungha.

In: Journal of Materials Chemistry C, Vol. 7, No. 13, 2019, p. 3945-3951.

Research output: Contribution to journal > Article > Scientific > peer-review

Market implementation of active and intelligent packaging-opportunities from a socio-economic perspective. / Lahti, Johanna.

17th Biennial TAPPI European PLACE Conference 2019. TAPPI Press, 2019. p. 419-427.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Metabolic profiling of water-soluble compounds from the extracts of dark septate endophytic fungi (DSE) isolated from scots pine (*Pinus sylvestris* L.) seedlings using UPLC-orbitrap-MS. / Tienaho, Jenni; Karonen, Maarit; Muilu-Mäkelä, Riina; Wähälä, Kristiina; Denegri, Eduardo Leon; Franzén, Robert; Karp, Matti; Santala, Ville; Sarjala, Tytti.

In: Molecules, Vol. 24, No. 12, 2330, 2019.

Research output: Contribution to journal > Article > Scientific > peer-review

Multiphoton Excitation of CsPbBr₃ Perovskite Quantum Dots (PQDs) : How Many Electrons Can One PQD Donate to Multiple Molecular Acceptors? / Mandal, Sadananda; Tkachenko, Nikolai V.

In: Journal of Physical Chemistry Letters, 2019, p. 2775-2781.

Research output: Contribution to journal > Article > Scientific > peer-review

Nanocellulose and Polylactic Acid Based Multilayer Coatings for Barrier Applications. / Lahti, Johanna.

17th Biennial TAPPI European PLACE Conference 2019. TAPPI Press, 2019. p. 446-455.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

O₂-requiring molecular reporters of gene expression for anaerobic microorganisms. / Guglielmetti, Simone; Santala, Ville; Māngayil, Rahul; Ciranna, Alessandro; Karp, Matti T.

In: Biosensors and Bioelectronics, Vol. 123, 2019, p. 1-6.

Research output: Contribution to journal > Article > Scientific > peer-review

Possible strategy to use differential mobility spectrometry in real time applications. / Anttalainen, Osmo; Puton, Jaroslaw; Kontunen, Anton; Karjalainen, Markus; Kumpulainen, Pekka; Oksala, Niku; Safaei, Zahra; Roine, Antti.

In: International Journal for Ion Mobility Spectrometry, 2019.

Research output: Contribution to journal > Article > Scientific > peer-review

Spodumene tailings for porcelain and structural materials : Effect of temperature (1050–1200°C) on the sintering and properties. / Lemounga, Patrick N.; Yliniemi, Juho; Ismailov, Arnold; Levänen, Erkki; Tanskanen, Pekka; Kinnunen, Paivo; Roning, Juha; Illikainen, Mirja.

In: Minerals Engineering, 2019.

Research output: Contribution to journal > Article > Scientific > peer-review

Synergistic Computational-Experimental Discovery of Highly Selective PtCu Nanocluster Catalysts for Acetylene Semihydrogenation. / Ayodele, Olumide Bolarinwa; Cai, Rongsheng; Wang, Jianguang; Ziouani, Yasmine; Liang, Zhifu; Spadaro, Maria Chiara; Kovnir, Kirill; Arbiol, Jordi; Akola, Jaakko; Palmer, Richard E.; Kolen'Ko, Yury V.

In: ACS CATALYSIS, 2019, p. 451-457.

Research output: Contribution to journal > Article > Scientific > peer-review

Synthesis of 6,12-disubstituted methanodibenzo[b,f][1,5]dioxocins : Pyrrolidine catalyzed self-condensation of 2'-Hydroxyacetophenones. / Assoah, Benedicta; Riihonen, Vesa; Vale, João R.; Valkonen, Arto; Candeias, Nuno R.

In: Molecules, Vol. 24, No. 13, 2405, 2019.

Research output: Contribution to journal > Article > Scientific > peer-review

Temperature scanning stress relaxation behavior of water responsive and mechanically adaptive elastomer nanocomposites. / Banerjee, Shib Shankar; Natarajan, Tamil S.; Subramani B., Eshwaran; Wießner, Sven; Janke, Andreas; Heinrich, Gert; Das, Amit.

In: Journal of Applied Polymer Science, 2019.

Research output: Contribution to journal > Article > Scientific > peer-review

The Hosoya entropy of graphs revisited. / Ghorbani, Modjtaba; Dehmer, Matthias; Mowshowitz, Abbe; Tao, Jin; Emmert-Streib, Frank.

In: Symmetry, Vol. 11, No. 8, 1013, 2019.

Research output: Contribution to journal > Article > Scientific > peer-review

The maximum Hosoya index of unicyclic graphs with diameter at most four. / Liu, Weijun; Ban, Jingwen; Feng, Lihua; Cheng, Tao; Emmert-Streib, Frank; Dehmer, Matthias.

In: Symmetry, Vol. 11, No. 8, 1034, 2019.

Research output: Contribution to journal > Article > Scientific > peer-review

Tuning of nonlinear absorption in highly luminescent CdSe based quantum dots with core-shell and core/multi-shell architectures. / Bhagyaraj, Sneha; Perumbilavil, Sreekanth; Udayabashkar, R.; Mangalaraja, R. V.; Thomas, Sabu; Kalarikkal, Nandakumar; Oluwafemi, Oluwatobi Samuel.

In: Physical Chemistry Chemical Physics, Vol. 21, No. 21, 2019, p. 11424-11434.

Research output: Contribution to journal > Article > Scientific > peer-review

Volatile fatty acid adsorption on anion exchange resins : kinetics and selective recovery of acetic acid. / Eregowda, Tejaswini; Rene, Eldon R.; Rintala, Jukka; Lens, Piet N.L.

In: Separation Science and Technology (Philadelphia), 2019.

Research output: Contribution to journal > Article > Scientific > peer-review

Reversible photodoping of TiO₂ nanoparticles. / Joost, Urmas; Sutka, Andris; Oja, Marek; Smits, Krisjanis; Doebelin, Nicola; Loot, Ardi; Järvekülg, Martin; Hirsimäki, Mika; Valden, Mika; Nomliste, Ergo.

In: Chemistry of Materials, Vol. 30, No. 24, 26.12.2018, p. 8968-8974.

Research output: Contribution to journal > Article > Scientific > peer-review

Less Is More : Enhancement of Second-Harmonic Generation from Metasurfaces by Reduced Nanoparticle Density. / Czaplicki, Robert; Kiviniemi, Antti; Huttunen, Mikko J.; Zang, Xiaorun; Stolt, Timo; Vartiainen, Ismo; Butet, Jérémy; Kuittinen, Markku; Martin, Olivier J.F.; Kauranen, Martti.

In: Nano Letters, Vol. 18, No. 12, 12.12.2018, p. 7709-7714.

Research output: Contribution to journal > Article > Scientific > peer-review

Experimental moment resistance of rectangular hollow section T joints. / Garifullin, Marsel.

In: MATEC Web of Conferences, Vol. 245, 08003, 05.12.2018.

Research output: Contribution to journal > Conference article > Scientific > peer-review

Beaming random lasers with soliton control. / Perumbilavil, Sreekanth; Piccardi, Armando; Barboza, Raouf; Buchnev, Oleksandr; Kauranen, Martti; Strangi, Giuseppe; Assanto, Gaetano.

In: Nature Communications, Vol. 9, No. 1, 3863, 01.12.2018.

Research output: Contribution to journal > Article > Scientific > peer-review

Machine learning plastic deformation of crystals. / Salmenjoki, Henri; Alava, Mikko J.; Laurson, Lasse.

In: Nature Communications, Vol. 9, No. 1, 5307, 01.12.2018.

Research output: Contribution to journal > Article > Scientific > peer-review

Structural basis of actin monomer re-charging by cyclase-Associated protein. / Kotila, Tommi; Kogan, Konstantin; Enkavi, Giray; Guo, Siyang; Vattulainen, Ilpo; Goode, Bruce L.; Lappalainen, Pekka.

In: Nature Communications, Vol. 9, No. 1, 1892, 01.12.2018.

Research output: Contribution to journal > Article > Scientific > peer-review

Bi-directional cell-pericellular matrix interactions direct stem cell fate. / Ferreira, Silvia A.; Motwani, Meghna S.; Faull, Peter A.; Seymour, Alexis J.; Yu, Tracy T.L.; Enayati, Marjan; Taheem, Dheraj K.; Salzlechner, Christoph; Haghighi, Tabasom; Kania, Ewa M.; Oommen, Oommen P.; Ahmed, Tarek; Loaiza, Sandra; Parzych, Katarzyna; Dazzi, Francesco; Varghese, Oommen P.; Festy, Frederic; Grigoriadis, Agamemnon E.; Auner, Holger W.; Snijders, Ambrosius P.; Bozec, Laurent; Gentleman, Eileen.

In: Nature Communications, Vol. 9, No. 1, 4049, 12.2018.

Research output: Contribution to journal > Article > Scientific > peer-review

Aminobenzylated 4-Nitrophenols as Antibacterial Agents Obtained from 5-Nitrosalicylaldehyde through a Petasis Borono-Mannich Reaction. / Rimpiläinen, Tatu; Andrade, Joana; Nunes, Alexandra; Ntungwe, Epole; Fernandes, Ana S.; Vale, Joao R.; Rodrigues, Joao; Gomes, Joao Paulo; Rijo, Patricia; Candeias, Nuno R.

In: ACS Omega, Vol. 3, No. 11, 29.11.2018, p. 16191-16202.

Research output: Contribution to journal > Article > Scientific > peer-review

Machine learning analysis of extreme events in optical fibre modulation instability. / Närhi, Mikko; Salmela, Lauri; Toivonen, Juha; Billet, Cyril; Dudley, John M.; Genty, Goëry.

In: Nature Communications, Vol. 9, No. 1, 22.11.2018.

Research output: Contribution to journal > Article > Scientific > peer-review

High Nitrogen Removal in a Constructed Wetland Receiving Treated Wastewater in a Cold Climate. / Uusheimo, Sari; Huotari, Jussi; Tulonen, Tiina; Aalto, Sanni L.; Rissanen, Antti J.; Arvola, Lauri.

In: Environmental science & technology, Vol. 52, No. 22, 20.11.2018, p. 13343-13350.

Research output: Contribution to journal > Article > Scientific > peer-review

High-Yield Generation of Triplet Excited States by an Efficient Sequential Photoinduced Process from Energy Transfer to Singlet Fission in Pentacene-Modified CdSe/ZnS Quantum Dots. / Sakai, Hayato; Inaya, Ryutarō; Tkachenko, Nikolai V.; Hasobe, Taku.

In: Chemistry - A European Journal, Vol. 24, No. 64, 16.11.2018, p. 17062-17071.

Research output: Contribution to journal > Article > Scientific > peer-review

M2M Communication Assessment in Energy-Harvesting and Wake-Up Radio Assisted Scenarios Using Practical Components. / Rinne, Jukka; Keskinen, Jari; Berger, Paul R.; Lupo, Donald; Valkama, Mikko.

In: Sensors (Basel, Switzerland), Vol. 18, No. 11, 16.11.2018.

Research output: Contribution to journal > Article > Scientific > peer-review

Molecular-Scale Ligand Effects in Small Gold-Thiolate Nanoclusters. / Chevrier, Daniel M.; Raich, Lluís; Rovira, Carme; Das, Anindita; Luo, Zhentao; Yao, Qiaofeng; Chatt, Amares; Xie, Jianping; Jin, Rongchao; Akola, Jaakko; Zhang, Peng.

In: Journal of the American Chemical Society, Vol. 140, No. 45, 14.11.2018, p. 15430-15436.

Research output: Contribution to journal > Article > Scientific > peer-review

Biological treatment of selenium-laden wastewater containing nitrate and sulfate in an upflow anaerobic sludge bed reactor at pH 5.0. / Tan, Lea Chua; Nancharaiah, Yarlagadda V.; Lu, Shipeng; van Hullebusch, Eric D.; Gerlach, Robin; Lens, Piet N.L.

In: Chemosphere, Vol. 211, 01.11.2018, p. 684-693.

Research output: Contribution to journal > Article > Scientific > peer-review

Tribocorrosion behaviour of aluminium bronze in 3.5 wt.% NaCl solution. / Huttunen-Saarivirta, E.; Isotahdon, E.; Metsäjoki, J.; Salminen, T.; Carpén, L.; Ronkainen, H.

In: Corrosion Science, Vol. 144, 01.11.2018, p. 207-223.

Research output: Contribution to journal > Article > Scientific > peer-review

Computation of Dynamic Polarizabilities and van der Waals Coefficients from Path-Integral Monte Carlo. / Tiihonen, Juha; Kylänpää, Ilkka; Rantala, Tapio T.

In: Journal of Chemical Theory and Computation, Vol. 14, 02.10.2018, p. 5750-5763.

Research output: Contribution to journal > Article > Scientific > peer-review

Quantification of bio-anode capacitance in bioelectrochemical systems using Electrochemical Impedance Spectroscopy. / Heijne, Annemiek ter; Liu, Dandan; Sulonen, Mira; Sleutels, Tom; Fabregat-Santiago, Francisco.

In: Journal of Power Sources, Vol. 400, 01.10.2018, p. 533-538.

Research output: Contribution to journal > Article > Scientific > peer-review

Mechanical, thermal, and burning properties of viscose fabric composites : Influence of epoxy resin modification. / Rajan, Rathish; Rainosalu, Egidija; Ramamoorthy, Sunil Kumar; Thomas, Selvin P.; Zavašnik, Janez; Vuorinen, Jyrki; Skrifvars, Mikael.

In: Journal of Applied Polymer Science, Vol. 135, No. 36, 46673, 20.09.2018.

Research output: Contribution to journal > Article > Scientific > peer-review

Electro-concentration for chemical-free nitrogen capture as solid ammonium bicarbonate. / Jermakka, Johannes; Thompson Brewster, Emma; Ledezma, Pablo; Freguía, Stefano.

In: Separation and Purification Technology, Vol. 203, 12.09.2018, p. 48-55.

Research output: Contribution to journal > Article > Scientific > peer-review

A compact olfactometer for IMS measurements and testing human perception. / Nieminen, Ville; Karjalainen, Markus; Salminen, Katri; Rantala, Jussi; Kontunen, Anton; Isokoski, Poika; Müller, Philipp; Kallio, Pasi; Surakka, Veikko; Leikkala, Jukka.

In: International Journal for Ion Mobility Spectrometry, Vol. 21, No. 3, 09.2018, p. 71-80.

Research output: Contribution to journal > Article > Scientific > peer-review

Effects of pyrolysis temperature on the hydrologically relevant porosity of willow biochar. / Hyvälouma, Jari; Hannula, Markus; Arstila, Kai; Wang, Hailong; Kulju, Sampo; Rasa, Kimmo.

In: Journal of Analytical and Applied Pyrolysis, Vol. 134, 09.2018.

Research output: Contribution to journal > Article > Scientific > peer-review

Photoinduced Energy Transfer in ZnCdSeS Quantum Dot-Phthalocyanines Hybrids. / Mandal, Sadananda; Garcia Iglesias, Miguel; Ince, Mine; Torres, Tomás; Tkachenko, Nikolai V.

In: ACS Omega, Vol. 3, No. 8, 31.08.2018, p. 10048-10057.

Research output: Contribution to journal > Article > Scientific > peer-review

Selenate removal in biofilm systems : Effect of nitrate and sulfate on selenium removal efficiency, biofilm structure and microbial community. / Tan, Lea Chua; Espinosa-Ortiz, Erika J.; Nancharaiah, Yarlagadda V.; van Hullebusch, Eric D.; Gerlach, Robin; Lens, Piet N.L.

In: Journal of Chemical Technology and Biotechnology, Vol. 93, No. 8, 08.2018, p. 2380-2389.

Research output: Contribution to journal > Article > Scientific > peer-review

Design aspects of all atomic layer deposited TiO₂-Fe₂O₃ scaffold-absorber photoanodes for water splitting. / Hiltunen, Arto; Ruoko, Tero-Petri; Iivonen, Tomi; Lahtonen, Kimmo; Ali-Löytty, Harri; Sarlin, Essi; Valden, Mika; Leskelä, Markku; Tkachenko, Nikolai.

In: Sustainable Energy & Fuels, Vol. 2, No. 9, 31.07.2018, p. 2124-2130.

Research output: Contribution to journal > Article > Scientific > peer-review

High Bending-Mode Sensitivity of Printed Piezoelectric Poly(vinylidene fluoride- co-trifluoroethylene) Sensors. / Rajala, Satu; Schouten, Martijn; Krijnen, Gijs; Tuukkanen, Sampo.

In: ACS Omega, Vol. 3, No. 7, 23.07.2018, p. 8067-8073.

Research output: Contribution to journal > Article > Scientific > peer-review

Pectin and Mucin Enhance the Bioadhesion of Drug Loaded Nanofibrillated Cellulose Films. / Laurén, Patrick; Paukkonen, Heli; Lipiäinen, Tiina; Dong, Yujiao; Oksanen, Timo; Rääkkönen, Heikki; Ehlers, Henrik; Laaksonen, Päivi; Yliperttula, Marjo; Laaksonen, Timo.

In: Pharmaceutical Research, Vol. 35, No. 7, 145, 01.07.2018.

Research output: Contribution to journal > Article > Scientific > peer-review

Effect of surfactant type and sonication energy on the electrical conductivity properties of nanocellulose-CNT nanocomposite films. / Siljander, Sanna; Keinänen, Pasi; Rätty, Anna; Ramakrishnan, Karthik Ram; Tuukkanen, Sampo; Kunnari, Vesa; Harlin, Ali; Vuorinen, Jyrki; Kanerva, Mikko.

In: International Journal of Molecular Sciences, Vol. 19, No. 6, 1819, 20.06.2018.

Research output: Contribution to journal > Article > Scientific > peer-review

Acquiring respiration rate from photoplethysmographic signal by recursive bayesian tracking of intrinsic modes in time-frequency spectra. / Pirhonen, Mikko; Peltokangas, Mikko; Vehkaoja, Antti.

In: Sensors, Vol. 18, No. 6, 1693, 01.06.2018.

Research output: Contribution to journal > Article > Scientific > peer-review

Evaluation of dry electrodes in canine heart rate monitoring. / Virtanen, Juhani; Somppi, Sanni; Törnqvist, Heini; Jeyhani, Vala; Fiedler, Patrique; Gizatdinova, Yulia; Majaranta, Päivi; Väättäjä, Heli; Cardó, Anna Valdeoriola; Leikkala, Jukka; Tuukkanen, Sampo; Surakka, Veikko; Vainio, Outi; Vehkaoja, Antti.

In: Sensors, Vol. 18, No. 6, 1757, 01.06.2018.

Research output: Contribution to journal > Article > Scientific > peer-review

Multifunctional nitrogen sulfur co-doped reduced graphene oxide – Ag nano hybrids (sphere, cube and wire) for nonlinear optical and SERS applications. / Nair, Anju K.; Bhavitha, K. B.; Perumbilavil, Sreekanth; Sankar, Pranitha; Rouxel, Didier; Kala, M. S.; Thomas, Sabu; Kalarikkal, Nandakumar.

In: Carbon, Vol. 132, 01.06.2018, p. 380-393.

Research output: Contribution to journal > Article > Scientific > peer-review

Photo-antimicrobial efficacy of zinc complexes of porphyrin and phthalocyanine activated by inexpensive consumer LED lamp. / George, Lijo; Hiltunen, Arto; Santala, Ville; Efimov, Alexander.

In: Journal of Inorganic Biochemistry, Vol. 183, 01.06.2018, p. 94-100.

Research output: Contribution to journal > Article > Scientific > peer-review

Effect of Co-Adsorbate and Hole Transporting Layer on the Photoinduced Charge Separation at the TiO₂-Phthalocyanine Interface. / Virkki, Kirsi; Tervola, Essi; Medel, Maria; Torres, Tomás; Tkachenko, Nikolai V.

In: ACS Omega, Vol. 3, No. 5, 31.05.2018, p. 4947-4958.

Research output: Contribution to journal > Article > Scientific > peer-review

A Ceramide-Regulated Element in the Late Endosomal Protein LAPTM4B Controls Amino Acid Transporter Interaction. / Zhou, Kecheng; Dichlberger, Andrea; Martinez-Seara, Hector; Nyholm, Thomas K.M.; Li, Shiqian; Kim, Young Ah; Vattulainen, Ilpo; Ikonen, Elina; Blom, Tomas.

In: ACS Central Science, Vol. 4, No. 5, 23.05.2018, p. 548-558.

Research output: Contribution to journal > Article > Scientific > peer-review

Wet etching of dilute nitride GaInNAs, GaInNAsSb, and GaNAsSb alloys lattice-matched to GaAs. / Raappana, Marianna; Pölojärvi, Ville; Aho, Arto; Mäkelä, Jaakko; Aho, Timo; Tukiainen, Antti; Laukkanen, Pekka; Guina, Mircea.
In: Corrosion Science, Vol. 136, 15.05.2018, p. 268-274.

Research output: Contribution to journal > Article > Scientific > peer-review

Characteristics of nFOG, an aerosol-based wet thin film coating technique. / Harra, Juha; Tuominen, Mikko; Juuti, Paxton; Rissler, Jenny; Koivuluoto, Heli; Haapanen, Janne; Niemelä-Anttonen, Henna; Stenroos, Christian; Teisala, Hannu; Lahti, Johanna; Kuusipalo, Jurkka; Vuoristo, Petri; Mäkelä, Jyrki M.
In: Journal of Coatings Technology Research, Vol. 15, No. 3, 05.2018, p. 623-632.

Research output: Contribution to journal > Article > Scientific > peer-review

Free amino acids and 5'-nucleotides in Finnish forest mushrooms. / Manninen, Hanna; Rotola-Pukkila, Minna; Aisala, Heikki; Hopia, Anu; Laaksonen, Timo.
In: Food Chemistry, Vol. 247, 05.2018, p. 23-28.

Research output: Contribution to journal > Article > Scientific > peer-review

Accurate Binding of Sodium and Calcium to a POPC Bilayer by Effective Inclusion of Electronic Polarization. / Melcr, Josef; Martinez-Seara, Hector; Nencini, Ricky; Kolafa, Jiří; Jungwirth, Pavel; Ollila, O. H. Samuli.
In: Journal of Physical Chemistry B, Vol. 122, No. 16, 26.04.2018, p. 4546-4557.

Research output: Contribution to journal > Article > Scientific > peer-review

Composite Hydrogels Using Bioinspired Approach with in Situ Fast Gelation and Self-Healing Ability as Future Injectable Biomaterial. / Khan, Musamir; Koivisto, Janne; Hukka, Terttu; Hokka, Mikko; Kellomäki, Minna.

In: ACS Applied Materials & Interfaces, Vol. 10, No. 14, 11.04.2018, p. 11950-11960.

Research output: Contribution to journal > Article > Scientific > peer-review

Membrane bound COMT isoform is an interfacial enzyme : General mechanism and new drug design paradigm. / Magarkar, Aniket; Parkkila, Petteri; Viitala, Tapani; Lajunen, Tatu; Mobarak, Edouard; Licari, Giuseppe; Cramariuc, Oana; Vauthey, Eric; Róg, Tomasz; Bunker, Alex.

In: Chemical Communications, Vol. 54, No. 28, 11.04.2018, p. 3440-3443.

Research output: Contribution to journal > Article > Scientific > peer-review

Properties of HVOF-sprayed Stellite-6 coatings. / Sassatelli, Paolo; Bolelli, Giovanni; Lassinantti Gualtieri, Magdalena; Heinonen, Esa; Honkanen, Mari; Lusvarghi, Luca; Manfredini, Tiziano; Rigon, Rinaldo; Vippola, Minnamari.

In: Surface and Coatings Technology, Vol. 338, 25.03.2018, p. 45-62.

Research output: Contribution to journal > Article > Scientific > peer-review

Thermal Isomerization of Hydroxyazobenzenes as a Platform for Vapor Sensing. / Poutanen, Mikko; Ahmed, Zafar; Rautkari, Lauri; Ikkala, Olli; Priimägi, Arri.

In: ACS Macro Letters, Vol. 7, No. 3, 20.03.2018, p. 381-386.

Research output: Contribution to journal > Article > Scientific > peer-review

Improving the high temperature abrasion resistance of thermally sprayed Cr₃C₂-NiCr coatings by WC addition. / Janka, Leo; Berger, Lutz Michael; Norpoth, Jonas; Trache, Richard; Thiele, Sven; Tomastik, Christian; Matikainen, Ville; Vuoristo, Petri.

In: Surface and Coatings Technology, Vol. 337, 15.03.2018, p. 296-305.

Research output: Contribution to journal > Article > Scientific > peer-review

Soft hydrazone crosslinked hyaluronan- and alginate-based hydrogels as 3D supportive matrices for human pluripotent stem cell-derived neuronal cells. / Karvinen, Jennika; Joki, Tiina; Ylä-Outinen, Laura; Koivisto, Janne T.; Narkilahti, Susanna; Kellomäki, Minna.

In: Reactive and Functional Polymers, Vol. 124, 01.03.2018, p. 29-39.

Research output: Contribution to journal > Article > Scientific > peer-review

Improved Stability of Atomic Layer Deposited Amorphous TiO₂ Photoelectrode Coatings by Thermally Induced Oxygen Defects. / Hannula, Markku; Ali-Löyty, Harri; Lahtonen, Kimmö; Sarlin, Essi; Saari, Jesse; Valden, Mika.
In: Chemistry of Materials, Vol. 30, No. 4, 27.02.2018, p. 1199-1208.
Research output: Contribution to journal › Article › Scientific › peer-review

An activity recognition framework deploying the random forest classifier and a single optical heart rate monitoring and triaxial accelerometer wrist-band. / Mehrang, Saeed; Pietilä, Julia; Korhonen, Ilkka.
In: Sensors, Vol. 18, No. 2, 613, 22.02.2018.
Research output: Contribution to journal › Article › Scientific › peer-review

UV-Blocking Synthetic Biopolymer from Biomass-Based Bifuran Diester and Ethylene Glycol. / Kainulainen, Tuomo P.; Sirviö, Juho A.; Sethi, Jatin; Hukka, Terttu I.; Heiskanen, Juha P.
In: Macromolecules, Vol. 51, No. 5, 21.02.2018, p. 1822-1829.
Research output: Contribution to journal › Article › Scientific › peer-review

Pot-economy autooxidative condensation of 2-Aryl-2-lithio-1,3-dithianes. / Vale, Joao R.; Rimpiläinen, Tatu; Sievänen, Elina; Rissanen, Kari; Afonso, Carlos A.M.; Candeias, Nuno R.
In: Journal of Organic Chemistry, Vol. 83, No. 4, 16.02.2018, p. 1948-1958.
Research output: Contribution to journal › Article › Scientific › peer-review

Entrapped Styrene Butadiene Polymer Chains by Sol-Gel-Derived Silica Nanoparticles with Hierarchical Raspberry Structures. / Vaikuntam, Sankar Raman; Stöckelhuber, Klaus Werner; Subramani Bhagavatheswaran, Eshwaran; Wießner, Sven; Scheler, Ulrich; Saalwächter, Kay; Formanek, Petr; Heinrich, Gert; Das, Amit.
In: Journal of Physical Chemistry B, Vol. 122, No. 6, 15.02.2018, p. 2010-2022.
Research output: Contribution to journal › Article › Scientific › peer-review

MetriIntSimil-an accurate and robust metric for comparison of similarity in intelligence of any number of cooperative multiagent systems. / Iantovics, Laszlo Barna; Dehmer, Matthias; Emmert-Streib, Frank.
In: Symmetry, Vol. 10, No. 2, 48, 01.02.2018.
Research output: Contribution to journal › Article › Scientific › peer-review

Controlled Growth of Supported ZnO Inverted Nanopyramids with Downward Pointing Tips. / Barreca, Davide; Carraro, Giorgio; Maccato, Chiara; Altantzis, Thomas; Kaunisto, Kimmo; Gasparotto, Alberto.
In: Crystal Growth and Design, Vol. 18, No. 4, 02.2018, p. 2579-2587.
Research output: Contribution to journal › Article › Scientific › peer-review

Temperature scanning stress relaxation of an autonomous self-healing elastomer containing non-covalent reversible network junctions. / Das, Amit; Sallat, Aladdin; Böhme, Frank; Sarlin, Essi; Vuorinen, Jyrki; Vennemann, Norbert; Heinrich, Gert; Stöckelhuber, Klaus Werner.
In: Polymers, Vol. 10, No. 1, 94, 19.01.2018.
Research output: Contribution to journal › Article › Scientific › peer-review

Concentration-dependent photophysical switching in mixed self-assembled monolayers of pentacene and perylene diimide on gold nanoclusters. / Kato, Daiki; Sakai, Hayato; Araki, Yasuyuki; Wada, Takehiko; Tkachenko, Nikolai V.; Hasobe, Taku.
In: Physical Chemistry Chemical Physics, Vol. 20, No. 13, 01.01.2018, p. 8695-8706.
Research output: Contribution to journal › Article › Scientific › peer-review

Ortho-Fluorination of azophenols increases the mesophase stability of photoresponsive hydrogen-bonded liquid crystals. / Saccone, Marco; Kuntze, Kim; Ahmed, Zafar; Siiskonen, Antti; Giese, Michael; Priimagi, Arri.
In: Journal of Materials Chemistry C, Vol. 6, No. 37, 01.01.2018, p. 9958-9963.
Research output: Contribution to journal › Article › Scientific › peer-review

Upconversion from fluorophosphate glasses prepared with NaYF₄:Er³⁺, Yb³⁺ nanocrystals. / Ojha, N.; Tuomisto, M.; Lastusaari, M.; Petit, L.
In: RSC Advances, Vol. 8, No. 34, 01.01.2018, p. 19226-19236.
Research output: Contribution to journal › Article › Scientific › peer-review

A Bioscreening Technique for Ultraviolet Irradiation Protective Natural Substances. / Tienaho, Jenni; Poikulainen, Emmi; Sarjala, Tytti; Muilu-Mäkelä, Riina; Santala, Ville; Karp, Matti.
In: Photochemistry and Photobiology, Vol. 94, No. 6, 2018, p. 1273-1280.
Research output: Contribution to journal > Article > Scientific > peer-review

Adsorption of furfural from torrefaction condensate using torrefied biomass. / Doddapaneni, Tharaka Rama Krishna C.; Jain, Rohan; Praveenkumar, Ramasamy; Rintala, Jukka; Romar, Henrik; Kontinen, Jukka.
In: Chemical Engineering Journal, Vol. 334, 2018, p. 558-568.
Research output: Contribution to journal > Article > Scientific > peer-review

Composition and role of the attached and planktonic microbial communities in mesophilic and thermophilic xylose-fed microbial fuel cells. / Dessi, Paolo; Porca, Estefania; Haavisto, Johanna; Lakaniemi, Aino-Maija; Collins, Gavin; Lens, Piet N.L.
In: RSC Advances, Vol. 8, No. 6, 2018, p. 3069-3080.
Research output: Contribution to journal > Article > Scientific > peer-review

Convenient extraction method for quantification of thin zinc patina layers. / Saarimaa, Ville; Kaleva, Aaretti; Paunikallio, Teemu; Nikkanen, Juha-Pekka; Heinonen, Saara; Levänen, Erkki; Väisänen, Pasi; Markkula, Antti.
In: Surface and Interface Analysis, Vol. 50, No. 5, 2018, p. 564-570.
Research output: Contribution to journal > Article > Scientific > peer-review

Decomposition of persistent luminescent microparticles in corrosive phosphate glass melt. / Ojha, N.; Nguyen, H.; Laihinen, T.; Salminen, T.; Lastusaari, M.; Petit, L.
In: Corrosion Science, Vol. 135, 2018, p. 207-214.
Research output: Contribution to journal > Article > Scientific > peer-review

Detection and characterization at nM concentration of oligomers formed by hIAPP, A β (1-40) and their equimolar mixture using SERS and MD simulations. / D'Urso, Luisa; Condorelli, Marcello; Puglisi, Orazio; Tempra, Carmelo; Lolicato, Fabio; Compagnini, Giuseppe; La Rosa, Carmelo.
In: Physical Chemistry Chemical Physics, Vol. 20, No. 31, 2018, p. 20588-20596.
Research output: Contribution to journal > Article > Scientific > peer-review

Efficient photon upconversion at remarkably low annihilator concentrations in a liquid polymer matrix: when less is more. / Durandin, Nikita A.; Isokuortti, Jussi; Efimov, Alexander; Vuorimaa-Laukkanen, Elina; Tkachenko, Nikolai V.; Laaksonen, Timo.
In: Chemical Communications, Vol. 54, No. 99, 2018, p. 14029-14032.
Research output: Contribution to journal > Article > Scientific > peer-review

Gloriosa superba Mediated Synthesis of Platinum and Palladium Nanoparticles for Induction of Apoptosis in Breast Cancer. / Rokade, Shalaka S.; Joshi, Komal A.; Mahajan, Ketakee; Patil, Saniya; Tomar, Geetanjali; Dubal, Dnyanesh S.; Parihar, Vijay Singh; Kitture, Rohini; Bellare, Jayesh R.; Ghosh, Sougata.
In: Bioinorganic Chemistry and Applications, Vol. 2018, 4924186, 2018.
Research output: Contribution to journal > Article > Scientific > peer-review

Improved electromechanical response in acrylic rubber by different carbon-based fillers. / Shakun, Alexandra; Poikelispää, Minna; Das, Amit; Vuorinen, Jyrki.
In: Polymer Engineering and Science, Vol. 58, No. 3, 2018, p. 395-404.
Research output: Contribution to journal > Article > Scientific > peer-review

Modification of epoxy resin by silane-coupling agent to improve tensile properties of viscose fabric composites. / Rajan, Rathish; Rainosalu, Egidija; Thomas, Selvin P.; Ramamoorthy, Sunil Kumar; Zavašnik, Janez; Vuorinen, Jyrki; Skrifvars, Mikael.
In: Polymer Bulletin, Vol. 75, No. 1, 2018, p. 167-195.
Research output: Contribution to journal > Article > Scientific > peer-review

On the molecular optical nonlinearity of halogen-bond-forming azobenzenes. / Virkki, Matti; Maurice, Anthony; Forni, Alessandra; Sironi, Maurizio; Dichiarante, Valentina; Brevet, Pierre Francois; Metrangolo, Pierangelo; Kauranen, Martti; Priimagi, Arri.

In: Physical Chemistry Chemical Physics, Vol. 20, No. 45, 2018, p. 28810-28817.

Research output: Contribution to journal › Article › Scientific › peer-review

Optical frequency comb photoacoustic spectroscopy. / Sadiq, Ibrahim; Mikkonen, Tommi; Vainio, Markku; Toivonen, Juha; Foltynowicz, Aleksandra.

In: Physical Chemistry Chemical Physics, Vol. 20, No. 44, 2018, p. 27849-27855.

Research output: Contribution to journal › Article › Scientific › peer-review

Regeneration of sulfur-poisoned Pd-based catalyst for natural gas oxidation. / Honkanen, Mari; Wang, Jianguang; Kärkkäinen, Marja; Huuhtanen, Mika; Jiang, Hua; Kallinen, Kauko; Keiski, Riitta L.; Akola, Jaakko; Vippola, Minnamari.

In: Journal of Catalysis, Vol. 358, 2018, p. 253-265.

Research output: Contribution to journal › Article › Scientific › peer-review

Stable carbon isotopic composition of peat columns, subsoil and vegetation on natural and forestry-drained boreal peatlands. / Nykänen, Hannu; Mpamah, Promise A.; Rissanen, Antti J.

In: Isotopes in Environmental and Health Studies, Vol. 54, No. 6, 2018.

Research output: Contribution to journal › Article › Scientific › peer-review

Supramolecular design principles for efficient photoresponsive polymer-azobenzene complexes. / Vapaavuori, Jaana; Bazuin, C. Geraldine; Priimagi, Arri.

In: Journal of Materials Chemistry C, Vol. 6, No. 9, 2018, p. 2168-2188.

Research output: Contribution to journal › Review Article › Scientific › peer-review

Supercritical carbon dioxide treatment of hot dip galvanized steel as a surface treatment before coating. / Saarimaa, Ville; Kaleva, Aaretti; Nikkanen, Juha-Pekka; Heinonen, Saara; Levänen, Erkki; Väisänen, Pasi; Markkula, Antti; Juhanoja, Jyrki.

In: Surface and Coatings Technology, Vol. 331, 15.12.2017, p. 137-142.

Research output: Contribution to journal › Article › Scientific › peer-review

Time-Resolved Fluorescence Spectroscopy Reveals Fine Structure and Dynamics of Poly(L-lysine) and Polyethylenimine Based DNA Polyplexes. / Lisitsyna, Ekaterina S.; Ketola, Tiia-Maaria; Morin-Picardat, Emmanuelle; Liang, Huamin; Hanzlíková, Martina; Urtti, Arto; Yliperttula, Marjo; Vuorimaa-Laukkanen, Elina.

In: Journal of Physical Chemistry B, Vol. 121, No. 48, 07.12.2017, p. 10782-10792.

Research output: Contribution to journal › Article › Scientific › peer-review

Mapping microscale wetting variations on biological and synthetic water-repellent surfaces. / Liimatainen, Ville; Vuckovac, Maja; Jokinen, Ville; Sariola, Veikko; Hokkanen, Matti J.; Zhou, Quan; Ras, Robin H.A.

In: Nature Communications, Vol. 8, No. 1, 1798, 01.12.2017.

Research output: Contribution to journal › Article › Scientific › peer-review

Oxygen and water vapor transmission rates of starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper. / Christophliemk, Hanna; Johansson, Caisa; Ullsten, Henrik; Järnström, Lars.

In: Progress in Organic Coatings, Vol. 113, 01.12.2017, p. 218-224.

Research output: Contribution to journal › Article › Scientific › peer-review

Carbazole-based small molecule electron donors : Syntheses, characterization, and material properties. / Sippola, Roosa J.; Hadipour, Afshin; Kastinen, Tuuva; Vivo, Paola; Hukka, Terttu I.; Aernouts, Tom; Heiskanen, Juha P.

In: Dyes and Pigments, Vol. 150, j.dyepig.2017.11.014, 08.11.2017, p. 79-88.

Research output: Contribution to journal › Article › Scientific › peer-review

DoGlycans-Tools for Preparing Carbohydrate Structures for Atomistic Simulations of Glycoproteins, Glycolipids, and Carbohydrate Polymers for GROMACS. / Danne, Reinis; Poojari, Chetan; Martinez-Seara, Hector; Rissanen, Sami; Lolicato, Fabio; Róg, Tomasz; Vattulainen, Ilpo.

In: Journal of Chemical Information and Modeling, Vol. 57, No. 10, 23.10.2017, p. 2401-2406.

Research output: Contribution to journal › Article › Scientific › peer-review

Waves in hyperbolic and double negative metamaterials including rogues and solitons. / Boardman, A. D.; Alberucci, A.; Assanto, G.; Grimalsky, V. V.; Kibler, B.; McNiff, J.; Nefedov, I. S.; Rapoport, Yu G.; Valagiannopoulos, C. A.
In: *Nanotechnology*, Vol. 28, No. 44, 444001, 09.10.2017.

Research output: Contribution to journal › Review Article › Scientific › peer-review

Starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper and their effects of phase interactions. / Christophliemk, Hanna; Ullsten, Henrik; Johansson, Caisa; Järnström, Lars.
In: *Progress in Organic Coatings*, Vol. 111, 01.10.2017, p. 13-22.

Research output: Contribution to journal › Article › Scientific › peer-review

Systematic analysis of coating-substrate interactions in the presence of flow localization. / Isakov, M.; Matikainen, V.; Koivuluoto, H.; May, M.

In: *Surface and Coatings Technology*, Vol. 324, 15.09.2017, p. 264-280.

Research output: Contribution to journal › Article › Scientific › peer-review

Understanding selenium biogeochemistry in engineered ecosystems : Transformation and analytical methods. / Jain, Rohan; Van Hullebusch, Eric D.; Lenz, Markus; Farges, François.

Bioremediation of Selenium Contaminated Wastewater. Springer International Publishing, 2017. p. 33-56.

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

Membrane Binding of Recoverin : From Mechanistic Understanding to Biological Functionality. / Timr, Štěpán; Pleskot, Roman; Kadlec, Jan; Kohagen, Miriam; Magarkar, Aniket; Jungwirth, Pavel.

In: *ACS Central Science*, Vol. 3, No. 8, 23.08.2017, p. 868-874.

Research output: Contribution to journal › Article › Scientific › peer-review

Exhaust emissions of non-road mobile machine : Real-world and laboratory studies with diesel and HVO fuels. / Pirjola, L.; Rönkkö, T.; Saukko, E.; Parviainen, H.; Malinen, A.; Alanen, J.; Saveljeff, H.

In: *Fuel*, Vol. 202, 15.08.2017, p. 154-164.

Research output: Contribution to journal › Article › Scientific › peer-review

Feed-hopper level estimation and control in cone crushers. / Itävuori, Pekka; Hulthén, Erik; Vilkkö, Matti.

In: *Minerals Engineering*, Vol. 110, 15.08.2017, p. 82-95.

Research output: Contribution to journal › Article › Scientific › peer-review

Configurational Disorder of Water Hydrogen-Bond Network at the Protein Dynamical Transition. / Rahaman, Obaidur; Kalimeri, Maria; Katava, Marina; Paciaroni, Alessandro; Sterpone, Fabio.

In: *Journal of Physical Chemistry Part B*, Vol. 121, No. 28, 20.07.2017, p. 6792-6798.

Research output: Contribution to journal › Article › Scientific › peer-review

Vegetable fillers for electric stimuli responsive elastomers. / Poikelispää, Minna; Shakun, Alexandra; Sarlin, Essi; Das, Amit; Vuorinen, Jyrki.

In: *Journal of Applied Polymer Science*, Vol. 134, No. 28, 45081, 20.07.2017.

Research output: Contribution to journal › Article › Scientific › peer-review

Electropolymerized polyazulene as active material in flexible supercapacitors. / Suominen, Milla; Lehtimäki, Suvi; Yewale, Rahul; Damlin, Pia; Tuukkanen, Sampo; Kvarnström, Carita.

In: *Journal of Power Sources*, Vol. 356, 15.07.2017, p. 181-190.

Research output: Contribution to journal › Article › Scientific › peer-review

Dynamics of a True Moving Bed separation process : Linear model identification and advanced process control. /

Nogueira, Idelfonso B.R.; Ribeiro, Ana M.; Martins, Márcio A.F.; Rodrigues, Alírio E.; Koivisto, Hannu; Loureiro, José M.

In: *Journal of Chromatography A*, Vol. 1504, 30.06.2017.

Research output: Contribution to journal › Article › Scientific › peer-review

Long-Range Observation of Exciplex Formation and Decay Mediated by One-Dimensional Bridges. / Baek, Jinseok; Umeyama, Tomokazu; Stranius, Kati; Yamada, Hiroki; Tkachenko, Nikolai V.; Imahori, Hiroshi.
In: *Journal of Physical Chemistry C*, Vol. 121, No. 25, 29.06.2017, p. 13952-13961.
Research output: Contribution to journal > Article > Scientific > peer-review

Comparison of starch and gelatin hydrogels for non-toxic supercapacitor electrolytes. / Railanmaa, Anna; Lehtimäki, Suvi; Lupo, Donald.
In: *Applied Physics A-Materials Science and Processing*, Vol. 123, No. 6, 459, 01.06.2017.
Research output: Contribution to journal > Article > Scientific > peer-review

Catalytic Activity of AuCu Clusters on MgO(100) : Effect of Alloy Composition for CO Oxidation. / Ma, Li; Laasonen, Kari; Akola, Jaakko.
In: *Journal of Physical Chemistry C*, Vol. 121, No. 20, 25.05.2017, p. 10876-10886.
Research output: Contribution to journal > Article > Scientific > peer-review

Geometric Structure and Chemical Ordering of Large AuCu Clusters : A Computational Study. / Goh, Jing-Qiang; Akola, Jaakko; Ferrando, Riccardo.
In: *Journal of Physical Chemistry C*, Vol. 121, No. 20, 25.05.2017, p. 10809-10816.
Research output: Contribution to journal > Article > Scientific > peer-review

Nematicon-enhanced spontaneous symmetry breaking. / Piccardi, A.; Alberucci, A.; Kravets, N.; Buchnev, O.; Assanto, G.
In: *Molecular Crystals and Liquid Crystals*, Vol. 649, No. 1, 24.05.2017, p. 59-65.
Research output: Contribution to journal > Article > Scientific > peer-review

Density functional study of structure and dynamics in liquid antimony and Sb_n clusters. / Jones, R. O.; Ahlstedt, O.; Akola, J.; Ropo, M.
In: *Journal of Chemical Physics*, Vol. 146, No. 19, 194502, 21.05.2017.
Research output: Contribution to journal > Article > Scientific > peer-review

The effects of calcium and potassium on CO_2 gasification of birch wood in a fluidized bed. / Kramb, Jason; Gómez-Barea, Alberto; DeMartini, Nikolai; Romar, Henrik; Doddapaneni, Tharaka Rama K. C.; Konttinen, Jukka.
In: *Fuel*, Vol. 196, 15.05.2017, p. 398-407.
Research output: Contribution to journal > Article > Scientific > peer-review

Photoinduced Electron Injection from Zinc Phthalocyanines into Zinc Oxide Nanorods : Aggregation Effects. / Virkki, Kirsi; Hakola, Hanna; Urbani, Maxence; Tejerina, Lara; Ince, Mine; Martínez-Díaz, M. Victoria; Torres, Tomás; Golovanova, Viktoria; Golovanov, Viacheslav; Tkachenko, Nikolai V.
In: *Journal of Physical Chemistry C*, Vol. 121, No. 17, 04.05.2017, p. 9594-9605.
Research output: Contribution to journal > Article > Scientific > peer-review

Electron microscopic studies of natural gas oxidation catalyst – Effects of thermally accelerated aging on catalyst microstructure. / Honkanen, Mari; Hansen, Thomas W.; Jiang, Hua; Kärkkäinen, Marja; Huuhtanen, Mika; Heikkinen, Olli; Kallinen, Kauko; Lahtinen, Jouko; Keiski, Riitta L.; Wagner, Jakob B.; Vippola, Minnamari.
In: *Journal of Catalysis*, Vol. 349, 01.05.2017, p. 19-29.
Research output: Contribution to journal > Article > Scientific > peer-review

Elucidation of Compression-Induced Surface Crystallization in Amorphous Tablets Using Sum Frequency Generation (SFG) Microscopy. / Mah, Pei T.; Novakovic, Dunja; Saarinen, Jukka; van Landeghem, Stijn; Peltonen, Leena; Laaksonen, Timo; Isomäki, Antti; Strachan, Clare J.
In: *Pharmaceutical Research*, Vol. 34, No. 5, 05.2017, p. 957-970.
Research output: Contribution to journal > Article > Scientific > peer-review

Hexaphyrin as a Potential Theranostic Dye for Photothermal Therapy and ^{19}F Magnetic Resonance Imaging. / Higashino, Tomohiro; Nakatsuji, Hirotaka; Fukuda, Ryosuke; Okamoto, Haruki; Imai, Hirohiko; Matsuda, Tetsuya; Tochio, Hidehito; Shirakawa, Masahiro; Tkachenko, Nikolai V.; Hashida, Mitsuru; Murakami, Tatsuya; Imahori, Hiroshi.

In: ChemBioChem, Vol. 18, No. 10, 24.03.2017, p. 951-959.
Research output: Contribution to journal › Article › Scientific › peer-review

Calcium Directly Regulates Phosphatidylinositol 4,5-Bisphosphate Headgroup Conformation and Recognition. / Bilkova, Eva; Pleskot, Roman; Rissanen, Sami; Sun, Simou; Czogalla, Aleksander; Cwiklik, Lukasz; Róg, Tomasz; Vattulainen, Ilpo; Cremer, Paul S.; Jungwirth, Pavel; Coskun, Ünal.

In: Journal of the American Chemical Society, Vol. 139, No. 11, 22.03.2017, p. 4019-4024.
Research output: Contribution to journal › Article › Scientific › peer-review

Hierarchical Self-Assembly of Halogen-Bonded Block Copolymer Complexes into Upright Cylindrical Domains. / Milani, Roberto; Houbenov, Nikolay; Fernandez-Palacio, Francisco; Cavallo, Gabriella; Luzio, Alessandro; Haataja, Johannes; Giancane, Gabriele; Saccone, Marco; Priimägi, Arri; Metrangolo, Pierangelo; Ikkala, Olli.

In: Chem, Vol. 2, No. 3, 09.03.2017, p. 417-426.
Research output: Contribution to journal › Article › Scientific › peer-review

Membrane cholesterol access into a G-protein-coupled receptor. / Guixà-González, Ramon; Albasanz, José L.; Rodriguez-Espigares, Ismael; Pastor, Manuel; Sanz, Ferran; Martí-Solano, Maria; Manna, Moutusi; Martinez-Seara, Hector; Hildebrand, Peter W.; Martín, Mairena; Selent, Jana.

In: Nature Communications, Vol. 8, 14505, 21.02.2017.
Research output: Contribution to journal › Article › Scientific › peer-review

Magnetic routing of light-induced waveguides. / Izdebskaya, Yana; Shvedov, Vladlen; Assanto, Gaetano; Krolikowski, Wieslaw.

In: Nature Communications, Vol. 8, 14452, 15.02.2017.
Research output: Contribution to journal › Article › Scientific › peer-review

Benchmarking DFT methods with small basis sets for the calculation of halogen-bond strengths. / Siiskonen, Antti; Priimägi, Arri.

In: Journal of Molecular Modeling, Vol. 23, No. 2, 50, 01.02.2017.
Research output: Contribution to journal › Article › Scientific › peer-review

Polarization resolved photoluminescence in GaAs_{1-x}Bi_x/GaAs quantum wells. / Balanta, M. A G; Orsi Gordo, V.; Carvalho, A. R H; Puustinen, J.; Alghamdi, H. M.; Henini, M.; Galeti, H. V A; Guina, M.; Galvão Gobato, Y.

In: Journal of Luminescence, Vol. 182, 02.2017, p. 49-52.
Research output: Contribution to journal › Article › Scientific › peer-review

Architectures and codecs for real-time light field streaming. / Kovács, Péter Tamás; Zare, Alireza; Balogh, Tibor; Bregovic, Robert; Gotchev, Atanas.

In: Journal of Imaging Science and Technology, Vol. 61, No. 1, 010403, 01.01.2017.
Research output: Contribution to journal › Article › Scientific › peer-review

Effect of air gap on the adhesion of PET layer on cardboard substrate in extrusion coating. / Suokas, Esa.

16th TAPPI European PLACE Conference 2017. TAPPI Press, 2017. p. 529-544.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Novel bio-based materials for active and intelligent packaging. / Lahti, Johanna; Kamppuri, Taina; Kuusipalo, Jurkka.

16th TAPPI European PLACE Conference 2017. TAPPI Press, 2017.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Novel equipment to simulate hot air heat sealability of packaging materials. / Lahti, Johanna; Kuusipalo, Jurkka; Auvinen, Sanna.

16th TAPPI European PLACE Conference 2017. TAPPI Press, 2017. p. 237-248.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Tampere University of Technology, laboratory of materials science, paper converting and packaging technology Tampere, Finland. / Kuusipalo, Jurkka; Lahti, Johanna.

16th TAPPI European PLACE Conference 2017: Basel; Switzerland; 22 May 2017 through 24 May 2017. Vol. May-2017
TAPPI Press, 2017.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Crystallization and sintering of borosilicate bioactive glasses for application in tissue engineering. / Fabert, M.; Ojha, N.; Erasmus, E.; Hannula, M.; Hokka, M.; Hyttinen, J.; Rocherullé, J.; Sigalas, I.; Massera, J.

In: Journal of Materials Chemistry B, Vol. 5, No. 23, 2017, p. 4514-4525.

Research output: Contribution to journal > Article > Scientific > peer-review

Design of a 25 MWe Solar Thermal Power Plant in Iran with Using Parabolic Trough Collectors and a Two-Tank Molten Salt Storage System. / Kordmahaleh, Aidin Alinezhad; Naghashzadegan, Mohammad; Javaherdeh, Kourosh; Khoshgoftar, Mohammadreza.

In: International Journal of Photoenergy, Vol. 2017, 4210184, 2017.

Research output: Contribution to journal > Article > Scientific > peer-review

Effects of orientation at the phthalocyanine-CdSe interface on the electron transfer characteristics. / Golovanov, V. V.; Nazarchuk, B. V.; Golovanova, V. V.; Tkachenko, N. V.; Rantala, T. T.

In: Physical Chemistry Chemical Physics, Vol. 19, No. 16, 2017, p. 10511-10517.

Research output: Contribution to journal > Article > Scientific > peer-review

Fluorescence spectroscopy "knife" for polyplex "cakes": taste the filling. / Vuorimaa-Laukkanen, Elina; Lisitsyna, Ekaterina S.; Ketola, Tiia-Maaria; Morin-Pickardat, Emmanuelle; Liang, Huamin; Hanzlikova, Martina; Urtti, Arto; Yliperttula, Marjo L.; Lisitsyna, Ekaterina; Laaksonen, Timo.

2017. Paper presented at 30 Years of Drug Delivery Research, Kuopio, Finland.

Research output: Other conference contribution > Paper, poster or abstract > Scientific

High-resolution coded-aperture design for compressive X-ray tomography using low resolution detectors. / Mojica, Edson; Pertuz, Said; Arguello, Henry.

In: Optics Communications, Vol. 404, 2017, p. 103-109.

Research output: Contribution to journal > Article > Scientific > peer-review

Improved corrosion properties of Hot Dip Galvanized Steel by nanomolecular silane layers as hybrid interface between zinc and top coatings. / Vuori, Leena; Ali-Löytty, Harri; Lahtonen, Kimmo; Hannula, Markku; Lehtonen, Elina; Niu, Yuran; Valden, Mika.

In: Corrosion, Vol. 73, No. 2, 2017.

Research output: Contribution to journal > Article > Scientific > peer-review

Liquid flame spray—a hydrogen-oxygen flame based method for nanoparticle synthesis and functional nanocoatings. / Mäkelä, Jyrki M.; Haapanen, Janne; Harra, Juha; Juuti, Paxton; Kujanpää, Sonja.

In: KONA POWDER AND PARTICLE JOURNAL, Vol. 2017, No. 34, 2017, p. 141-154.

Research output: Contribution to journal > Review Article > Scientific > peer-review

Photophysical properties of porphyrin dimer-single-walled carbon nanotube linked systems. / Baek, Jinseok; Umeyama, Tomokazu; Mizuno, Satoshi; Tkachenko, Nikolai V.; Imahori, Hiroshi.

In: Journal of Physical Chemistry C, Vol. 121, No. 39, 2017.

Research output: Contribution to journal > Article > Scientific > peer-review

Photoresponsive ionic liquid crystals assembled : Via halogen bond: En route towards light-controllable ion transporters. / Saccone, Marco; Palacio, Francisco Fernandez; Cavallo, Gabriella; Dichiarante, Valentina; Virkki, Matti; Terraneo, Giancarlo; Priimagi, Arri; Metrangolo, Pierangelo.

In: Faraday Discussions, Vol. 203, 2017, p. 407-422.

Research output: Contribution to journal > Article > Scientific > peer-review

Supramolecular control of liquid crystals by doping with halogen-bonding dyes. / Vapaavuori, Jaana; Siiskonen, Antti; Dichiarante, Valentina; Forni, Alessandra; Saccone, Marco; Pilati, Tullio; Pellerin, Christian; Shishido, Atsushi; Metrangolo, Pierangelo; Priimagi, Arri.

In: RSC Advances, Vol. 7, No. 64, 2017, p. 40237-40242.

Research output: Contribution to journal › Article › Scientific › peer-review

Synthesis, Structural Characterization, Hirshfeld Surface and Antioxidant Activity Analysis of a Novel Organic Cation Antimonate Complex. / Lahbib, Ikram; Valkonen, Arto; Rzaigui, Mohamed; Smirani, Wajda.

In: Journal of Cluster Science, Vol. 28, No. 4, 2017, p. 2239–2252.

Research output: Contribution to journal › Article › Scientific › peer-review

Two cations, two mechanisms : Interactions of sodium and calcium with zwitterionic lipid membranes. / Javanainen, Matti; Melcrová, Adéla; Magarkar, Aniket; Jurkiewicz, Piotr; Hof, Martin; Jungwirth, Pavel; Martinez-Seara, Hector.

In: Chemical Communications, Vol. 53, No. 39, 2017, p. 5380–5383.

Research output: Contribution to journal › Article › Scientific › peer-review

Particle emissions characterization from a medium-speed marine diesel engine with two fuels at different sampling conditions. / Ntziachristos, L.; Saukko, E.; Lehtoranta, K.; Rönkkö, T.; Timonen, H.; Simonen, P.; Karjalainen, P.; Keskinen, J.

In: Fuel, Vol. 186, 15.12.2016, p. 456–465.

Research output: Contribution to journal › Article › Scientific › peer-review

Optimization of HVOF Cr₃C₂-NiCr coating for increased fatigue performance. / Varis, T.; Suhonen, T.; Calonius, O.; Čuban, J.; Pietola, M.

In: Surface and Coatings Technology, Vol. 305, 15.11.2016, p. 123–131.

Research output: Contribution to journal › Article › Scientific › peer-review

Collective excitations and viscosity in liquid Bi. / Ropo, Matti; Akola, Jaakko; Jones, Robert O.

In: Journal of Chemical Physics, Vol. 145, No. 18, 184502, 14.11.2016.

Research output: Contribution to journal › Article › Scientific › peer-review

Improvement of actuation performance of dielectric elastomers by barium titanate and carbon black fillers. / Poikelispää, Minna; Shakun, Alexandra; Das, Amit; Vuorinen, Jyrki.

In: Journal of Applied Polymer Science, Vol. 133, No. 42, 44116, 10.11.2016.

Research output: Contribution to journal › Article › Scientific › peer-review

London Hybrid Exposure Model : Improving Human Exposure Estimates to NO₂ and PM_{2.5} in an Urban Setting. / Smith, James David; Mitsakou, Christina; Kitwiroon, Nutthida; Barratt, Ben M.; Walton, Heather A.; Taylor, Jonathon G.; Anderson, Hugh Ross; Kelly, Frank J.; Beevers, Sean D.

In: Environmental Science and Technology, Vol. 50, No. 21, 01.11.2016, p. 11760–11768.

Research output: Contribution to journal › Article › Scientific › peer-review

Grain orientation dependent Nb-Ti microalloying mediated surface segregation on ferritic stainless steel. / Ali-Löyty, Harri; Hannula, Markku; Honkanen, Mari; Östman, Kauko; Lahtonen, Kimmo; Valden, Mika.

In: Corrosion Science, Vol. 112, 11.2016, p. 204–213.

Research output: Contribution to journal › Article › Scientific › peer-review

UPS and DFT investigation of the electronic structure of gas-phase trimesic acid. / Reisberg, L.; Pärna, R.; Kikas, A.; Kuusik, I.; Kisand, V.; Hirsimäki, M.; Valden, M.; Nõmmiste, E.

In: Journal of Electron Spectroscopy and Related Phenomena, Vol. 213, 11.2016, p. 11–16.

Research output: Contribution to journal › Article › Scientific › peer-review

Increased survival rate by local release of diclofenac in a murine model of recurrent oral carcinoma. / Will, Olga Maria; Purcz, Nicolai; Chalaris, Athena; Heneweer, Carola; Boretius, Susann; Purcz, Larissa; Nikkola, Lila; Ashammakhi, Nureddin; Kalthoff, Holger; Glüer, Claus Christian; Wiltfang, Jörg; Açil, Yahya; Tiwari, Sanjay.

In: International Journal of Nanomedicine, Vol. 11, 12.10.2016, p. 5311–5321.

Research output: Contribution to journal › Article › Scientific › peer-review

Elimination of arsenic-containing emissions from gasification of chromated copper arsenate wood. / Kramb, Jason; Kontinen, Jukka; Backman, Rainer; Salo, Kari; Roberts, Michael.

In: Fuel, Vol. 181, 01.10.2016, p. 319-324.

Research output: Contribution to journal › Article › Scientific › peer-review

Controlling the motion of multiple objects on a Chladni plate. / Zhou, Quan; Sariola, Veikko; Latifi, Kourosh; Liimatainen, Ville.

In: Nature Communications, Vol. 7, 12764, 09.09.2016.

Research output: Contribution to journal › Article › Scientific › peer-review

Polyarginine Interacts More Strongly and Cooperatively than Polylysine with Phospholipid Bilayers. / Robison, Aaron D.; Sun, Simou; Poyton, Matthew F.; Johnson, Gregory A.; Pellois, Jean Philippe; Jungwirth, Pavel; Vazdar, Mario; Cremer, Paul S.

In: Journal of Physical Chemistry Part B, Vol. 120, No. 35, 08.09.2016, p. 9287-9296.

Research output: Contribution to journal › Article › Scientific › peer-review

3D micro-nano structured hybrid scaffolds : An investigation into the role of nanofiber coating on viability, proliferation and differentiation of seeded mesenchymal stem cells. / Pilehrood, Mohammad Kazemi; Atashi, Amir; Sadeghi-Aliabadi, Hojjat; Nousiainen, Pertti; Harlin, Ali.

In: Journal Nanoscience and Nanotechnology, Vol. 16, No. 9, 01.09.2016, p. 9000-9007.

Research output: Contribution to journal › Article › Scientific › peer-review

Designing of Elastomer Nanocomposites : From Theory to Application. / Stöckelhuber, Klaus Werner (Editor); Das, Amit (Editor); Klüppel, Manfred (Editor).

Springer International Publishing, 2016. (Advances in Polymer Science; Vol. 275).

Research output: Book/Report › Anthology › Scientific › peer-review

Nanostructured Ionomeric Elastomers. / Basu, Debdipta; Das, Amit; Stöckelhuber, Klaus Werner; Wießner, Sven.

Designing of Elastomer Nanocomposites: From Theory to Applications. ed. / Klaus Werner Stöckelhuber; Amit Das; Manfred Klüppel. Springer International Publishing, 2016. p. 235-266 (Advances in Polymer Science; Vol. 275).

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

Detergent impurity effect on recycled HDPE : Properties after repetitive processing. / Mylläri, Ville; Hartikainen, Samuel; Poliakova, Valeria; Anderson, Reetta; Jönkkäri, Ilari; Pasanen, Pertti; Andersson, Mirja; Vuorinen, Jyrki.

In: Journal of Applied Polymer Science, Vol. 133, No. 31, 43766, 15.08.2016.

Research output: Contribution to journal › Article › Scientific › peer-review

Buckling Behavior of Cold-Formed Studs with Thermal Perforations. / Garifullin, Marsel; Sinelnikov, Alexey; Bronzova, Maria; Kovacic, Boštjan; Kamnik, Rok.

In: MATEC Web of Conferences, Vol. 73, 04011, 11.08.2016.

Research output: Contribution to journal › Article › Scientific › peer-review

Reinforced chloroprene rubber by in situ generated silica particles : Evidence of bound rubber on the silica surface. /

Kapgate, Bharat P.; Das, Chayan; Das, Amit; Basu, Debdipta; Wiessner, Sven; Reuter, Uta; Heinrich, Gert.

In: Journal of Applied Polymer Science, Vol. 133, No. 30, 43717, 10.08.2016.

Research output: Contribution to journal › Article › Scientific › peer-review

Spontaneous formation of three-dimensionally ordered Bi-rich nanostructures within GaAs_{1-x}Bi_x/GaAs quantum wells. /

Luna, E.; Wu, M.; Hanke, M.; Puustinen, J.; Guina, M.; Trampert, A.

In: Nanotechnology, Vol. 27, No. 32, 325603, 01.07.2016.

Research output: Contribution to journal › Article › Scientific › peer-review

The Influence of Phosphorus Exposure on a Natural-Gas-Oxidation Catalyst. / Kärkkäinen, M.; Kolli, T.; Honkanen, M.; Heikkinen, O.; Väliheikki, A.; Huuhtanen, M.; Kallinen, K.; Lahtinen, J.; Vippola, M.; Keiski, R. L.

In: Topics in Catalysis, Vol. 59, No. 10-12, 01.07.2016, p. 1044-1048.

Research output: Contribution to journal › Article › Scientific › peer-review

Structurally Controlled Dynamics in Azobenzene-Based Supramolecular Self-Assemblies in Solid State. / Poutanen, Mikko; Ikkala, Olli; Priimägi, Arri.

In: *Macromolecules*, Vol. 49, No. 11, 14.06.2016, p. 4095-4101.

Research output: Contribution to journal > Article > Scientific > peer-review

Development of Magnetic Losses During Accelerated Corrosion Tests for Nd-Fe-B Magnets Used in Permanent Magnet Generators. / Isotahdon, Elisa; Huttunen-Saarivirta, Elina; Kuokkala, Veli-Tapani.

In: *Corrosion*, Vol. 72, No. 6, 01.06.2016, p. 732-741.

Research output: Contribution to journal > Article > Scientific > peer-review

Effect of incorporation of CdS NPs on performance of PTB7 : PCBM organic solar cells. / Sharma, Ramakant; Bhalerao, Sagar; Gupta, Dipti.

In: *Organic Electronics: physics, materials, applications*, Vol. 33, 01.06.2016, p. 274-280.

Research output: Contribution to journal > Article > Scientific > peer-review

Robust statistical approaches for RSS-based floor detection in indoor localization. / Razavi, Alireza; Valkama, Mikko; Lohan, Elena Simona.

In: *Sensors*, Vol. 16, No. 6, 793, 01.06.2016.

Research output: Contribution to journal > Article > Scientific > peer-review

Optical Projection Tomography Technique for Image Texture and Mass Transport Studies in Hydrogels Based on Gellan Gum. / Soto, Ana M.; Koivisto, Janne T.; Parraga, Jenny E.; Silva-Correia, Joana; Oliveira, Joaquim M.; Reis, Rui L.; Kellomäki, Minna; Hyttinen, Jari; Figueiras, Edite.

In: *Langmuir*, Vol. 32, No. 20, 24.05.2016, p. 5173-5182.

Research output: Contribution to journal > Article > Scientific > peer-review

Lipid-assisted protein transport : A diffusion-reaction model supported by kinetic experiments and molecular dynamics simulations. / La Rosa, Carmelo; Scalisi, Silvia; Lolicato, Fabio; Pannuzzo, Martina; Raudino, Antonio.

In: *Journal of Chemical Physics*, Vol. 144, No. 18, 184901, 14.05.2016.

Research output: Contribution to journal > Article > Scientific > peer-review

Effect of Hole Transporting Material on Charge Transfer Processes in Zinc Phthalocyanine Sensitized ZnO Nanorods. /

Hakola, Hanna; Sariola-Leikas, Essi; Efimov, Alexander; Tkachenko, Nikolai V.

In: *Journal of Physical Chemistry C*, Vol. 120, No. 13, 21.04.2016, p. 7044-7051.

Research output: Contribution to journal > Article > Scientific > peer-review

Influence of heat treatment on the abrasive wear resistance of a Cr₃C₂NiCr coating deposited by an ethene-fuelled HVOF spray process. / Janka, Leo; Norpoth, Jonas; Trache, Richard; Berger, Lutz Michael.

In: *Surface and Coatings Technology*, Vol. 291, 15.04.2016, p. 444-451.

Research output: Contribution to journal > Article > Scientific > peer-review

Coordination networks incorporating halogen-bond donor sites and azobenzene groups. / Fernandez-Palacio, Francisco; Saccone, Marco; Priimägi, Arri; Terraneo, Giancarlo; Pilati, Tullio; Mentrangolo, Pierangelo; Resnati, Giuseppe.

In: *CrystEngComm*, Vol. 18, No. 13, 07.04.2016, p. 2251-2257.

Research output: Contribution to journal > Article > Scientific > peer-review

Organic and Printed Electronics : Fundamentals and Applications. / Nisato, Giovanni (Editor); Lupo, Donald (Editor); Ganz, Simone (Editor).

1 ed. Singapore : PAN STANFORD PUBLISHING, 2016. 580 p.

Research output: Book/Report > Anthology > Professional

DFT simulations and microkinetic modelling of 1-pentyne hydrogenation on Cu₂₀ model catalysts. / Ma, Li; Melander, Marko; Weckman, Timo; Lipasti, Saana; Laasonen, Kari; Akola, Jaakko.

In: *Journal of Molecular Graphics and Modelling*, Vol. 65, 01.04.2016, p. 61-70.

Research output: Contribution to journal > Article > Scientific > peer-review

Microwave assisted laser-induced breakdown spectroscopy at ambient conditions. / Viljanen, Jan; Sun, Zhiwei; Alwahabi, Zeyad T.

In: Spectrochimica Acta Part B: Atomic Spectroscopy, Vol. 118, 01.04.2016, p. 29-36.

Research output: Contribution to journal › Article › Scientific › peer-review

Strain rate change tests with the Split Hopkinson Bar method. / Isakov, M.; Kokkonen, J.; Östman, K.; Kuokkala, V.-T.

In: European Physical Journal. Special Topics, Vol. 225, No. 2, 01.04.2016, p. 231-242.

Research output: Contribution to journal › Article › Scientific › peer-review

Metal chalcogenide quantum dots : Biotechnological synthesis and applications. / Mal, J.; Nancharaiah, Y. V.; Van Hullebusch, E. D.; Lens, P. N. L.

In: RSC Advances, Vol. 6, No. 47, 04.2016, p. 41477-41495.

Research output: Contribution to journal › Article › Scientific › peer-review

Long-Lived Triplet Excited States of Bent-Shaped Pentacene Dimers by Intramolecular Singlet Fission. / Sakuma, Takao; Sakai, Hayato; Araki, Yasuyuki; Mori, Tadashi; Wada, Takehiko; Tkachenko, Nikolai V.; Hasobe, Taku.

In: Journal of Physical Chemistry A, Vol. 120, No. 11, 31.03.2016, p. 1867-1875.

Research output: Contribution to journal › Article › Scientific › peer-review

Stability and Function at High Temperature. What Makes a Thermophilic GTPase Different from Its Mesophilic Homologue. / Katava, Marina; Kalimeri, Maria; Stirnemann, Guillaume; Sterpone, Fabio.

In: Journal of Physical Chemistry Part B, Vol. 120, No. 10, 17.03.2016, p. 2721-2730.

Research output: Contribution to journal › Article › Scientific › peer-review

HPLC-SEC : a new approach to characterise complex wastewater effluents. / Szabo, Hilda Marta; Lepistö, Raghida; Tuhkanen, Tuula.

In: International Journal of Environmental Analytical Chemistry, Vol. 96, No. 3, 19.02.2016, p. 257-270.

Research output: Contribution to journal › Article › Scientific › peer-review

Phenothiazine and carbazole substituted pyrene based electroluminescent organic semiconductors for OLED devices. / Salunke, Jagadish K.; Wong, F. L.; Feron, Krishna; Manzhos, Sergei; Lo, Ming Fai; Shinde, Durgaprasad; Patil, Abhijeet; Lee, C. S.; Roy, V. A L; Sonar, Prashant; Wadgaonkar, Prakash P.

In: Journal of Materials Chemistry C, Vol. 4, No. 5, 07.02.2016, p. 1009-1018.

Research output: Contribution to journal › Article › Scientific › peer-review

Ambient-Pressure XPS Study of a Ni-Fe Electrocatalyst for the Oxygen Evolution Reaction. / Ali-Löytty, Harri; Louie, Mary W.; Singh, Meenesh R.; Li, Lin; Sanchez Casalongue, Hernan G.; Ogasawara, Hirohito; Crumlin, Ethan J.; Liu, Zhi; Bell, Alexis T.; Nilsson, Anders; Friebel, Daniel.

In: Journal of Physical Chemistry C, Vol. 120, No. 4, 04.02.2016, p. 2247-2253.

Research output: Contribution to journal › Article › Scientific › peer-review

Guanidinium Pairing Facilitates Membrane Translocation. / Allolio, Christoph; Baxova, Katarina; Vazdar, Mario; Jungwirth, Pavel.

In: Journal of Physical Chemistry Part B, Vol. 120, No. 1, 14.01.2016, p. 143-153.

Research output: Contribution to journal › Article › Scientific › peer-review

Physical and Chemical Characterization of Real-World Particle Number and Mass Emissions from City Buses in Finland. / Pirjola, Liisa; Dittrich, Aleš; Niemi, Jarkko V.; Saarikoski, Sanna; Timonen, Hilikka; Kuuluvainen, Heino; Järvinen, Anssi; Kousa, Anu; Rönkkö, Topi; Hillamo, Risto.

In: Environmental Science and Technology, Vol. 50, No. 1, 05.01.2016, p. 294-304.

Research output: Contribution to journal › Article › Scientific › peer-review

Alginate microgels created by selective coalescence between core drops paired with an ultrathin shell. / Lee, Tae Yong; Ramasamy, Praveenkumar; Oh, You Kwan; Lee, Kyubock; Kim, Shin Hyun.

In: Journal of Materials Chemistry B, Vol. 4, No. 19, 2016, p. 3232-3238.

Research output: Contribution to journal › Article › Scientific › peer-review

A Three-Component Assembly Promoted by Boronic Acids Delivers a Modular Fluorophore Platform (BASHY Dyes). / Santos, Fábio M F; Rosa, João N.; Candeias, Nuno R.; Carvalho, Cátia Parente; Matos, Ana I.; Ventura, Ana E.; Florindo, Helena F.; Silva, Liana C.; Pischel, Uwe; Gois, Pedro M P.
In: Chemistry: A European Journal, Vol. 22, No. 5, 2016, p. 1631-1637.
Research output: Contribution to journal › Article › Scientific › peer-review

Cholesterol oxidation products and their biological importance. / Kulig, Waldemar; Cwiklik, Lukasz; Jurkiewicz, Piotr; Rog, Tomasz; Vattulainen, Ilpo.
In: Chemistry and Physics of Lipids, Vol. 199, 2016, p. 144-160.
Research output: Contribution to journal › Article › Scientific › peer-review

Compatibilization of natural rubber/nitrile rubber blends by sol-gel nano-silica generated by in situ method. / Bansod, Naresh D.; Kapgate, Bharat P.; Das, Chayan; Das, Amit; Basu, Debdipta; Debnath, Subhas Chandra.
In: JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, Vol. 80, No. 2, 2016, p. 548-559.
Research output: Contribution to journal › Article › Scientific › peer-review

Controllable Electronic Structures and Photoinduced Processes of Bay-Linked Perylenediimide Dimers and a Ferrocene-Linked Triad. / Horinouchi, Haruki; Sakai, Hayato; Araki, Yasuyuki; Sakanoue, Tomo; Takenobu, Taishi; Wada, Takehiko; Tkachenko, Nikolai V.; Hasobe, Taku.
In: Chemistry: A European Journal, Vol. 22, No. 28, 2016, p. 9631-9641.
Research output: Contribution to journal › Article › Scientific › peer-review

Decoding the Morphological Diversity in Two Dimensional Crystalline Porous Polymers by Core Planarity Modulation. / Halder, Arjun; Kandambeth, Sharath; Biswal, Bishnu P.; Kaur, Gagandeep; Roy, Neha Chaki; Addicoat, Matthew; Salunke, Jagadish K.; Banerjee, Subhrashis; Vanka, Kumar; Heine, Thomas; Verma, Sandeep; Banerjee, Rahul.
In: Angewandte Chemie (International Edition), Vol. 55, No. 27, 2016, p. 7806-7810.
Research output: Contribution to journal › Article › Scientific › peer-review

Enhanced adsorption of orthophosphate and copper onto hydrochar derived from sewage sludge by KOH activation. / Spataru, Ana; Jain, Rohan; Chung, Jae Wook; Gerner, Gabriel; Krebs, Rolf; Lens, Piet N. L.
In: RSC Advances, Vol. 6, No. 104, 2016, p. 101827-101834.
Research output: Contribution to journal › Article › Scientific › peer-review

Fire-safe and environmentally friendly nanocomposites based on layered double hydroxides and ethylene propylene diene elastomer. / Basu, Debdipta; Das, Amit; Wang, De Yi; George, Jinu Jacob; Stöckelhuber, Klaus Werner; Boldt, Regine; Leuteritz, Andreas; Heinrich, Gert.
In: RSC Advances, Vol. 6, No. 31, 2016, p. 26425-26436.
Research output: Contribution to journal › Article › Scientific › peer-review

Heat capacities of crystalline and glassy lithium metaphosphate up to the transition region. / Rocherullé, J.; Massera, J.; Oudadesse, H.; Calvez, L.; Trolès, J.; Zhang, X. H.
In: Journal of Thermal Analysis and Calorimetry, Vol. 123, No. 1, 2016, p. 401-407.
Research output: Contribution to journal › Article › Scientific › peer-review

High-Yield Excited Triplet States in Pentacene Self-Assembled Monolayers on Gold Nanoparticles through Singlet Exciton Fission. / Kato, Daiki; Sakai, Hayato; Tkachenko, Nikolai V.; Hasobe, Taku.
In: Angewandte Chemie (International Edition), Vol. 55, No. 17, 2016, p. 5230-5234.
Research output: Contribution to journal › Article › Scientific › peer-review

Nanoscale barrier coating on BOPP packaging film by ALD. / Lahti, Johanna.
TAPPI PLACE Conference 2016: Exploring New Frontiers. TAPPI Press, 2016. p. 493-505.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Nonlinear transmittance and optical power limiting in magnesium ferrite nanoparticles : effects of laser pulsewidth and particle size. / Perumbilavil, Srekanth; Sridharan, Kishore; Abraham, Ann Rose; Janardhanan, Harsha P.; Kalarikkal, Nandakumar; Philip, Reji.

In: RSC Advances, Vol. 6, No. 108, 2016, p. 106754-106761.
Research output: Contribution to journal > Article > Scientific > peer-review

On describing the optoelectronic characteristics of poly(benzodithiophene- : Co -quinoxaline)-fullerene complexes: The influence of optimally tuned density functionals. / Kastinen, T.; Niskanen, M.; Risko, C.; Cramariuc, O.; Hukka, T. I.

In: Physical Chemistry Chemical Physics, Vol. 18, No. 39, 2016, p. 27654-27670.

Research output: Contribution to journal > Article > Scientific > peer-review

Optical non-contact pH measurement in cell culture with sterilizable, modular parts. / Kattiparambil Rajan, Dhanesh; Patrikoski, Mimmi; Verho, Jarmo; Sivula, Jyrki; Ihalainen, Heimo; Miettinen, Susanna; Lekkala, Jukka.

In: Talanta, Vol. 161, 2016, p. 755-761.

Research output: Contribution to journal > Article > Scientific > peer-review

Photoresponsive liquid-crystalline polymer films bilayered with an inverse opal structure. / Akamatsu, Norihisa; Aizawa, Miho; Tatsumi, Ryoichi; Hisano, Kyohei; Priimägi, Arri; Shishido, Atsushi.

In: JOURNAL OF PHOTOPOLYMER SCIENCE AND TECHNOLOGY, Vol. 29, No. 1, 2016, p. 145-148.

Research output: Contribution to journal > Article > Scientific > peer-review

Preferential adsorption of Cu in a multi-metal mixture onto biogenic elemental selenium nanoparticles. / Jain, Rohan; Dominic, Domician; Jordan, Norbert; Rene, Eldon R.; Weiss, Stephan; van Hullebusch, Eric D.; Hübner, René; Lens, Piet N L.

In: Chemical Engineering Journal, Vol. 284, 2016, p. 917-925.

Research output: Contribution to journal > Article > Scientific > peer-review

Remarkable Dependence of the Final Charge Separation Efficiency on the Donor-Acceptor Interaction in Photoinduced Electron Transfer. / Higashino, Tomohiro; Yamada, Tomoki; Yamamoto, Masanori; Furube, Akihiro; Tkachenko, Nikolai V.; Miura, Taku; Kobori, Yasuhiro; Jono, Ryota; Yamashita, Koichi; Imahori, Hiroshi.

In: Angewandte Chemie (International Edition), Vol. 55, No. 2, 2016, p. 629-633.

Research output: Contribution to journal > Article > Scientific > peer-review

Superfluorinated Ionic Liquid Crystals Based on Supramolecular, Halogen-Bonded Anions. / Cavallo, Gabriella; Terraneo, Giancarlo; Monfredini, Alessandro; Saccone, Marco; Priimägi, Arri; Pilati, Tullio; Resnati, Giuseppe; Metrangolo, Pierangelo; Bruce, Duncan W.

In: Angewandte Chemie (International Edition), Vol. 55, No. 21, 2016, p. 6300-6304.

Research output: Contribution to journal > Article > Scientific > peer-review

The electrooxidation-induced structural changes of gold di-superatomic molecules : Au₂₃ vs. Au₂₅. / Matsuo, Shota; Yamazoe, Seiji; Goh, Jing-Qiang; Akola, Jaakko; Tsukuda, Tatsuya.

In: Physical Chemistry Chemical Physics, Vol. 18, No. 6, 2016, p. 4822-4827.

Research output: Contribution to journal > Article > Scientific > peer-review

Thermal desorption of molecular oxygen from SnO₂ (110) surface : Insights from first-principles calculations. / Golovanov, Viacheslav; Golovanova, Viktoria; Rantala, Tapio T.

In: Journal of Physics and Chemistry of Solids, Vol. 89, 2016, p. 15-22.

Research output: Contribution to journal > Article > Scientific > peer-review

Evaluating transparent liquid screen overlay as a haptic conductor : Method of enhancing touchscreen based user interaction by a transparent deformable liquid screen overlay. / Farooq, A.; Evreinov, G.; Raisamo, R.; Takahata, D.

2015 IEEE SENSORS - Proceedings. Institute of Electrical and Electronics Engineers Inc., 2015. 7370186.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Inkjet-printed dual microfluidic-based sensor integrated system. / Su, W.; Cooper, J. R.; Cook, B. S.; Tentzeris, M. M.; Mariotti, C.; Roselli, L.

2015 IEEE SENSORS - Proceedings. Institute of Electrical and Electronics Engineers Inc., 2015. 7370300.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Synthesis, crystal structure, physico-chemical characterization and dielectric properties of a new hybrid material, 1-Ethylpiperazine-1,4-dium tetrachlorocadmate. / Dhieb, A. C.; Valkonen, A.; Rzaigui, M.; Smirani, W.
In: Journal of Molecular Structure, Vol. 1102, 15.12.2015, p. 50-56.

Research output: Contribution to journal > Article > Scientific > peer-review

The formation and physical properties of the particle emissions from a natural gas engine. / Alanen, Jenni; Saukko, Erkka; Lehtoranta, Kati; Murtonen, Timo; Timonen, Hilikka; Hillamo, Risto; Karjalainen, Panu; Kuuluvainen, Heino; Harra, Juha; Keskinen, Jorma; Rönkkö, Topi.
In: Fuel, Vol. 162, 15.12.2015, p. 155-161.

Research output: Contribution to journal > Article > Scientific > peer-review

Differential basal-to-apical accessibility of lamin A/C epitopes in the nuclear lamina regulated by changes in cytoskeletal tension. / Ihalainen, Teemu O.; Aires, Lina; Herzog, Florian A.; Schwartlander, Ruth; Moeller, Jens; Vogel, Viola.
In: Nature Materials, Vol. 14, No. 12, 01.12.2015, p. 1252-1261.

Research output: Contribution to journal > Article > Scientific > peer-review

Modeling carbon dioxide transport in PDMS-based microfluidic cell culture devices. / Mäki, A. J.; Peltokangas, M.; Kreutzer, J.; Auvinen, S.; Kallio, P.
In: Chemical Engineering Science, Vol. 137, 01.12.2015, p. 515-524.

Research output: Contribution to journal > Article > Scientific > peer-review

Graphene-intercalated Fe₂O₃/TiO₂ heterojunctions for efficient photoelectrolysis of water. / Kaouk, A.; Ruoko, T. P.; Gönüllü, Y.; Kaunisto, K.; Mettenböcker, A.; Gurevich, E.; Lemmetyinen, H.; Ostendorf, A.; Mathur, S.
In: RSC Advances, Vol. 5, No. 123, 13.11.2015, p. 101401-101407.

Research output: Contribution to journal > Article > Scientific > peer-review

Tri-functionality of Fe₃O₄-embedded carbon microparticles in microalgae harvesting. / Seo, Jung Yoon; Lee, Kyubock; Ramasamy, Praveenkumar; Kim, Bohwa; Lee, So Yeun; Oh, You Kwan; Park, Seung Bin.
In: Chemical Engineering Journal, Vol. 280, 05.11.2015, p. 206-214.

Research output: Contribution to journal > Article > Scientific > peer-review

Comparison of different cationized proteins as biomaterials for nanoparticle-based ocular gene delivery. / Zorzi, Giovanni K.; Párraga, Jenny E.; Seijo, Begoña; Sanchez, Alejandro.
In: Colloids and Surfaces B: Biointerfaces, Vol. 135, 01.11.2015, p. 533-541.

Research output: Contribution to journal > Article > Scientific > peer-review

Effect of rubber polarity on selective wetting of carbon nanotubes in ternary blends. / Le, H. H.; Parsaker, M.; Sriharish, M. N.; Henning, S.; Menzel, M.; Wießner, S.; Das, A.; Do, Q. K.; Heinrich, G.; Radosch, H. J.
In: Express Polymer Letters, Vol. 9, No. 11, 01.11.2015, p. 960-971.

Research output: Contribution to journal > Article > Scientific > peer-review

Submolecular Plasticization Induced by Photons in Azobenzene Materials. / Vapaavuori, Jaana; Laventure, Audrey; Bazuin, C. Geraldine; Lebel, Olivier; Pellerin, Christian.
In: Journal of the American Chemical Society, Vol. 137, No. 42, 28.10.2015, p. 13510-13517.

Research output: Contribution to journal > Article > Scientific > peer-review

Photomechanical Energy Transfer to Photopassive Polymers through Hydrogen and Halogen Bonds. / Vapaavuori, Jaana; Heikkinen, Ismo T S; Dichiarante, Valentina; Resnati, Giuseppe; Metrangolo, Pierangelo; Sabat, Ribal Georges; Bazuin, C. Geraldine; Priimagi, Arri; Pellerin, Christian.
In: Macromolecules, Vol. 48, No. 20, 27.10.2015, p. 7535-7542.

Research output: Contribution to journal > Article > Scientific > peer-review

In Situ Photocontrol of Block Copolymer Morphology during Dip-Coating of Thin Films. / Vapaavuori, Jaana; Grosrenaud, Josué; Pellerin, Christian; Bazuin, C. Geraldine.
In: ACS Macro Letters, Vol. 4, No. 10, 20.10.2015, p. 1158-1162.

Research output: Contribution to journal > Article > Scientific > peer-review

Production of sulfonated polyetheretherketone/polypropylene fibers for photoactive textiles. / Mylläri, Ville; Fatarella, Enrico; Ruzzante, Marco; Pogni, Rebecca; Baratto, Maria Camilla; Skrifvars, Mikael; Syrjälä, Seppo; Järvelä, Pentti.
In: Journal of Applied Polymer Science, Vol. 132, No. 39, 42595, 01.10.2015.
Research output: Contribution to journal > Article > Scientific > peer-review

Atomic-level characterization of transport cycle thermodynamics in the glycerol-3-phosphate : Phosphate antiporter. / Moradi, Mahmoud; Enkavi, Giray; Tajkhorshid, Emad.
In: Nature Communications, Vol. 6, 8393, 29.09.2015.
Research output: Contribution to journal > Article > Scientific > peer-review

PIP2 and Talin Join Forces to Activate Integrin. / Orłowski, Adam; Kukkurainen, Sampo; Pöyry, Annika; Rissanen, Sami; Vattulainen, Ilpo; Hytönen, Vesa P.; Róg, Tomasz.
In: Journal of Physical Chemistry Part B, Vol. 119, No. 38, 24.09.2015, p. 12381-12389.
Research output: Contribution to journal > Article > Scientific > peer-review

Construction of an Interconnected Nanostructured Carbon Black Network : Development of Highly Stretchable and Robust Elastomeric Conductors. / Bhagavatheswaran, Eshwaran Subramani; Parsekar, Meenali; Das, Amit; Le, Hai Hong; Wiessner, Sven; Stöckelhuber, Klaus Werner; Schmaucks, Gerd; Heinrich, Gert.
In: Journal of Physical Chemistry C, Vol. 119, No. 37, 17.09.2015, p. 21723-21731.
Research output: Contribution to journal > Article > Scientific > peer-review

Effect of spraying parameters on the microstructural and corrosion properties of HVOF-sprayed Fe-Cr-Ni-B-C coatings. / Milanti, A.; Matikainen, V.; Koivuluoto, H.; Bolelli, G.; Lusvardi, L.; Vuoristo, P.
In: Surface and Coatings Technology, Vol. 277, 15.09.2015, p. 81-90.
Research output: Contribution to journal > Article > Scientific > peer-review

Superatom Model for Ag-S Nanocluster with Delocalized Electrons. / Goh, Jing Qiang; Akola, Jaakko.
In: Journal of Physical Chemistry C, Vol. 119, No. 36, 10.09.2015, p. 21165-21172.
Research output: Contribution to journal > Article > Scientific > peer-review

Molecular Design of Light-Responsive Hydrogels, for in Situ Generation of Fast and Reversible Valves for Microfluidic Applications. / Ter Schiphorst, Jeroen; Coleman, Simon; Stumpel, Jelle E.; Ben Azouz, Aymen; Diamond, Dermot; Schenning, Albertus P. H. J.
In: Chemistry of Materials, Vol. 27, No. 17, 08.09.2015, p. 5925-5931.
Research output: Contribution to journal > Article > Scientific > peer-review

Measuring synthesis yield in graphene oxide synthesis by modified hummers method. / Frankberg, Erkki J.; George, Lijo; Efimov, Alexander; Honkanen, Mari; Pessi, Jenni; Levänen, Erkki.
In: Fullerenes Nanotubes and Carbon Nanostructures, Vol. 23, No. 9, 02.09.2015, p. 755-759.
Research output: Contribution to journal > Article > Scientific > peer-review

Searching for a robust strategy for minimizing alkali chlorides in fluidized bed boilers during burning of high SRF-energy-share fuel. / Bajamundi, Cyril Jose E; Vainikka, Pasi; Hedman, Merja; Silvennoinen, Jaani; Heinanen, Teemu; Taipale, Rauli; Konttinen, Jukka.
In: Fuel, Vol. 155, 01.09.2015, p. 25-36.
Research output: Contribution to journal > Article > Scientific > peer-review

Unintentional boron contamination of MBE-grown GaInP/AlGaInP quantum wells. / Tukiainen, Antti; Likonen, Jari; Toikkanen, Lauri; Leinonen, Tomi.
In: Journal of Crystal Growth, Vol. 425, 01.09.2015, p. 60-63.
Research output: Contribution to journal > Article > Scientific > peer-review

How large are nonadiabatic effects in atomic and diatomic systems? / Yang, Yubo; Kylänpää, Ilkka; Tubman, Norm M.; Krogel, Jaron T.; Hammes-Schiffer, Sharon; Ceperley, David M.
In: Journal of Chemical Physics, Vol. 143, No. 12, 124308, 09.2015.

Research output: Contribution to journal › Article › Scientific › peer-review

Fe₂O₃-TiO₂ nanosystems by a hybrid PE-CVD/ALD approach : controllable synthesis, growth mechanism, and photocatalytic properties. / Barreca, Davide; Carraro, Giorgio; Warwick, Michael E A; Kaunisto, Kimmo; Gasparotto, Alberto; Gombac, Valentina; Sada, Cinzia; Turner, Stuart; Van Tendeloo, Gustaaf; Maccato, Chiara; Fornasiero, Paolo.
In: CrystEngComm, Vol. 17, No. 32, 28.08.2015, p. 6219-6226.

Research output: Contribution to journal › Article › Scientific › peer-review

Effects of thinning and heating for TiO₂/AlInP junctions. / Mäkelä, J.; Tuominen, M.; Yasir, M.; Polojärvi, V.; Aho, A.; Tukiainen, A.; Kuzmin, M.; Punkkinen, M. P J; Laukkanen, P.; Kokko, K.; Guina, M.
In: Journal of Electron Spectroscopy and Related Phenomena, Vol. 205, 24.08.2015, p. 6-9.

Research output: Contribution to journal › Article › Scientific › peer-review

Electrospun Black Titania Nanofibers : Influence of Hydrogen Plasma-Induced Disorder on the Electronic Structure and Photoelectrochemical Performance. / Lepcha, A.; Maccato, C.; Mettenböcker, A.; Andreu, T.; Mayrhofer, L.; Walter, M.; Olthof, S.; Ruoko, T. P.; Klein, A.; Moseler, M.; Meerholz, K.; Morante, J. R.; Barreca, D.; Mathur, S.
In: Journal of Physical Chemistry C, Vol. 119, No. 33, 20.08.2015, p. 18835-18842.

Research output: Contribution to journal › Article › Scientific › peer-review

Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials : implications for testing and risk assessment. / Levin, Marcus; Rojas, Elena; Vanhala, Esa; Vippola, Minnamari; Liguori, Biase; Kling, Kirsten I.; Koponen, Ismo K.; Mølhave, Kristian; Tuomi, Timo; Gregurec, Danijela; Moya, Sergio; Jensen, Keld A.
In: Journal of Nanoparticle Research, Vol. 17, No. 8, 337, 14.08.2015.

Research output: Contribution to journal › Article › Scientific › peer-review

Effect of Phosphatidic Acid on Biomembrane : Experimental and Molecular Dynamics Simulations Study. / Kwolek, Urszula; Kulig, Waldemar; Wydro, Paweł; Nowakowska, Maria; Róg, Tomasz; Kepczynski, Mariusz.
In: Journal of Physical Chemistry Part B, Vol. 119, No. 31, 06.08.2015, p. 10042-10051.

Research output: Contribution to journal › Article › Scientific › peer-review

Formation and stability of carbon nanotube network in natural rubber : Effect of non-rubber components. / Le, H. H.; Pham, T.; Henning, S.; Klehm, J.; Wießner, S.; Stöckelhuber, K. W.; Das, A.; Hoang, X. T.; Do, Q. K.; Wu, M.; Vennemann, N.; Heinrich, G.; Radsch, H. J.
In: Polymer, Vol. 73, 18004, 05.08.2015, p. 111-121.

Research output: Contribution to journal › Article › Scientific › peer-review

Responsive Polymer Photonics. / Stumpel, Jelle E.
In: ChemistryOpen, Vol. 4, No. 4, 01.08.2015, p. 533-535.

Research output: Contribution to journal › Article › Scientific › peer-review

Nonlinear Optical Properties of Fluorescent Dyes Allow for Accurate Determination of Their Molecular Orientations in Phospholipid Membranes. / Timr, Štěpán; Brabec, Jiří; Bondar, Alexey; Ryba, Tomáš; Železný, Miloš; Lazar, Josef; Jungwirth, Pavel.

In: Journal of Physical Chemistry Part B, Vol. 119, No. 30, 30.07.2015, p. 9706-9716.

Research output: Contribution to journal › Article › Scientific › peer-review

High quality sub-10 nm graphene nanoribbons by on-chip PS-b-PDMS block copolymer lithography. / Rasappa, Sozaraj; Caridad, José M.; Schulte, Lars; Cagliani, Alberto; Borah, Dipu; Morris, Michael A.; Bøggild, Peter; Ndoni, Sokol.
In: RSC Advances, Vol. 5, No. 82, 29.07.2015, p. 66711-66717.

Research output: Contribution to journal › Article › Scientific › peer-review

Quantifying non-ergodic dynamics of force-free granular gases. / Bodrova, Anna; Chechkin, Aleksei V.; Cherstvy, Andrey G.; Metzler, Ralf.

In: Physical Chemistry Chemical Physics, Vol. 17, No. 34, 27.07.2015, p. 21791-21798.

Research output: Contribution to journal › Article › Scientific › peer-review

Photoinduced Electron Transfer in CdSe/ZnS Quantum Dot-Fullerene Hybrids. / Virkki, Kirsi; Demir, Sinem; Lemmetyinen, Helge; Tkachenko, Nikolai V.

In: Journal of Physical Chemistry C, Vol. 119, No. 31, 23.07.2015, p. 17561-17572.

Research output: Contribution to journal > Article > Scientific > peer-review

Role of Internal Water on Protein Thermal Stability : The Case of Homologous G Domains. / Rahaman, Obaidur; Kalimeri, Maria; Melchionna, Simone; Hénin, Jérôme; Sterpone, Fabio.

In: Journal of Physical Chemistry Part B, Vol. 119, No. 29, 23.07.2015, p. 8939-8949.

Research output: Contribution to journal > Article > Scientific > peer-review

Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration. / Çetinkaya, Afşin Y.; Köroğlu, Emre Oğuz; Demir, Neslihan Manav; Baysoy, Derya Yılmaz; Özkaya, Bestamin; Çakmakçı, Mehmet.

In: Chinese Journal of Catalysis, Vol. 36, No. 7, 20.07.2015, p. 1068-1076.

Research output: Contribution to journal > Article > Scientific > peer-review

Lithography-free oxide patterns as templates for self-catalyzed growth of highly uniform GaAs nanowires on Si(111). /

Hakkarainen, T. V.; Schramm, A.; Mäkelä, J.; Laukkanen, P.; Guina, M.

In: Nanotechnology, Vol. 26, No. 27, 275301, 18.07.2015.

Research output: Contribution to journal > Article > Scientific > peer-review

Measuring optical anisotropy in poly(3,4-ethylene dioxythiophene) : poly(styrene sulfonate) films with added graphene. /

Isoniemi, Tommi; Tuukkanen, Sampo; Cameron, David C.; Simonen, Janne; Toppari, J. Jussi.

In: Organic Electronics, Vol. 25, 09.07.2015, p. 317-323.

Research output: Contribution to journal > Article > Scientific > peer-review

Synthesis and study of electrochemical and optical properties of substituted perylenemonoimides in solutions and on solid surfaces. / Ahmed, Zafar; George, Lijo; Hiltunen, Arto; Lemmetyinen, Helge; Hukka, Terttu; Efimov, Alexander.

In: Journal of Materials Chemistry A, Vol. 3, No. 25, 07.07.2015, p. 13332-13339.

Research output: Contribution to journal > Article > Scientific > peer-review

Optimal emission enhancement in orthogonal double-pulse laser-induced breakdown spectroscopy. / Sanginés, R.;

Contreras, V.; Sobral, H.; Robledo-Martinez, A.

In: Spectrochimica Acta Part B: Atomic Spectroscopy, Vol. 110, 4935, 06.07.2015, p. 139-145.

Research output: Contribution to journal > Article > Scientific > peer-review

A comparison of rheology and FTIR in the study of polypropylene and polystyrene photodegradation. / Mylläri, Ville;

Ruoko, Tero-Petri; Syrjälä, Seppo.

In: Journal of Applied Polymer Science, Vol. 132, No. 28, 42246, 01.07.2015.

Research output: Contribution to journal > Article > Scientific > peer-review

On the biomaterials for nanostructured ocular therapeutics. / Zorzi, Giovanni K.; Párraga, Jenny E.; Seijo, Begoña;

Sánchez, Alejandro.

In: Current Organic Chemistry, Vol. 19, No. 15, 01.07.2015, p. 1443-1459.

Research output: Contribution to journal > Article > Scientific > peer-review

Synthesis and Photophysical Properties of Two Diazaporphyrin-Porphyrin Hetero Dimers in Polar and Nonpolar Solutions.

/ Abou-Chahine, Fawzi; Fujii, Daisuke; Imahori, Hiroshi; Nakano, Haruyuki; Tkachenko, Nikolai V.; Matano, Yoshihiro;

Lemmetyinen, Helge.

In: Journal of Physical Chemistry Part B, Vol. 119, No. 24, 18.06.2015, p. 7328-7337.

Research output: Contribution to journal > Article > Scientific > peer-review

Catalytic effect of Ca and K on CO₂ gasification of spruce wood char. / Perander, M.; DeMartini, N.; Brink, A.; Kramb, J.;

Karlström, O.; Hemming, J.; Moilanen, A.; Konttinen, J.; Hupa, M.

In: Fuel, Vol. 150, 15.06.2015, p. 464-472.

Research output: Contribution to journal > Article > Scientific > peer-review

Inverted critical adsorption of polyelectrolytes in confinement. / De Carvalho, Sidney J.; Metzler, Ralf; Cherstvy, Andrey G.
In: *Soft Matter*, Vol. 11, No. 22, 14.06.2015, p. 4430-4443.

Research output: Contribution to journal › Article › Scientific › peer-review

PEGylated liposomes as carriers of hydrophobic porphyrins. / Dzieciuch, Monika; Rissanen, Sami; Szydłowska, Natalia; Bunker, Alex; Kumorek, Marta; Jamróz, Dorota; Vattulainen, Ilpo; Nowakowska, Maria; Róg, Tomasz; Kepczynski, Mariusz.

In: *Journal of Physical Chemistry Part B*, Vol. 119, No. 22, 04.06.2015, p. 6646-6657.

Research output: Contribution to journal › Article › Scientific › peer-review

Equipment for obtaining polymeric nanofibres by electrospinning technology : II. The obtaining of polymeric nanofibers. /

Manea, Liliana Rozemarie; Cramariuc, Bogdan; Popescu, Vasilica; Cramariuc, Radu; Sandu, Ion; Cramariuc, Oana.

In: *Materiale Plastice*, Vol. 52, No. 2, 01.06.2015, p. 180-185.

Research output: Contribution to journal › Article › Scientific › peer-review

La thérapie photodynamique : État de l'art et perspectives. / Frochot, Céline; Barberi-Heyob, Muriel; Blanchard-Desce, Mireille; Bolotina, Lina; Bonneau, Stéphanie; Jimenez, Chiara Mauriello; Durand, Jean Olivier; Lassalle, Henri Pierre; Lemercier, Gilles; Mordon, Serge; Maillard, Philippe; Sol, Vincent; Vever-Bizet, Christine; Vicendo, Patricia.

In: *ACTUALITE CHIMIQUE*, No. 397-398, 01.06.2015, p. 46-50.

Research output: Contribution to journal › Article › Scientific › peer-review

Photodiagnostic et chirurgie guidés par la fluorescence. / Mordon, Serge; Bourg-Heckly, Geneviève.

In: *ACTUALITE CHIMIQUE*, No. 397-398, 01.06.2015, p. 41-45.

Research output: Contribution to journal › Article › Scientific › peer-review

Polymorph crystal packing effects on charge transfer emission in the solid state. / He, Xiaoyan; Benniston, Andrew C.;

Saarenpää, Hanna; Lemmetyinen, Helge; Tkachenko, Nikolai V.; Baisch, Ulrich.

In: *Chemical Science*, Vol. 6, No. 6, 01.06.2015, p. 3525-3532.

Research output: Contribution to journal › Article › Scientific › peer-review

Soft graphoepitaxy for large area directed self-assembly of polystyrene-block-poly(dimethylsiloxane) block copolymer on nanopatterned substrates fabricated by nanoimprint lithography. / Borah, Dipu; Rasappa, Sozaraj; Salaun, Mathieu; Zellsman, Marc; Lorret, Olivier; Lontos, George; Ntetsikas, Konstantinos; Avgeropoulos, Apostolos; Morris, Michael A.

In: *Advanced Functional Materials*, Vol. 25, No. 22, 01.06.2015, p. 3425-3432.

Research output: Contribution to journal › Article › Scientific › peer-review

A facile route to synthesis of S-doped TiO₂ nanoparticles for photocatalytic activity. / McManamon, Colm; O'Connell, John; Delaney, Paul; Rasappa, Sozaraj; Holmes, Justin D.; Morris, Michael A.

In: *Journal of Molecular Catalysis A: Chemical*, Vol. 406, 30.05.2015, p. 51-57!

Research output: Contribution to journal › Article › Scientific › peer-review

Hydration of hydroxyl and amino groups examined by molecular dynamics and neutron scattering. / Hladílková, Jana; Fischer, Henry E.; Jungwirth, Pavel; Mason, Philip E.

In: *Journal of Physical Chemistry Part B*, Vol. 119, No. 21, 28.05.2015, p. 6357-6365.

Research output: Contribution to journal › Article › Scientific › peer-review

Spectral and kinetic characteristics of indotricarbocyanine complexation with albumin. / Kuz'min, V. A.; Durandin, N. A.; Lisitsyna, E. S.; Nekipelova, T. D.; Podrugina, T. A.; Matveeva, E. D.; Proskurnina, M. V.; Zefirov, N. S.

In: *DOKLADY PHYSICAL CHEMISTRY*, Vol. 462, No. 1, 28.05.2015, p. 107-109.

Research output: Contribution to journal › Article › Scientific › peer-review

Effect of melting state on the thermal shock resistance and thermal conductivity of APS ZrO₂-7.5wt.% Y₂O₃ coatings. / Song, Xuemei; Liu, Ziwei; Suhonen, Tomi; Varis, Tommi; Huang, Liping; Zheng, Xuebin; Zeng, Yi.

In: *Surface and Coatings Technology*, Vol. 270, 25.05.2015, p. 132-138.

Research output: Contribution to journal › Article › Scientific › peer-review

Modeling photoionization of aqueous DNA and its components. / Pluhařová, Eva; Slaviček, Petr; Jungwirth, Pavel.

In: Accounts of Chemical Research, Vol. 48, No. 5, 19.05.2015, p. 1209-1217.

Research output: Contribution to journal > Article > Scientific > peer-review

Energy degradation in photoexcited complexes of indocarbocyanine with albumin. / Kuzmin, V. A.; Durandin, N. A.;

Lisitsyna, E. S.; Litvinkova, L. V.; Nekipelova, T. D.; Podrugina, T. A.; Matveeva, E. D.; Proskurnina, M. V.; Zefirov, N. S.

In: HIGH ENERGY CHEMISTRY, Vol. 49, No. 3, 01.05.2015, p. 211-212.

Research output: Contribution to journal > Article > Scientific > peer-review

Multistep reactions of water with small Pd_n clusters : A first principles study. / Liang, Yanhua; Ma, Li; Wang, Jianguang; Wang, Guanghou.

In: Journal of Theoretical and Computational Chemistry, Vol. 14, No. 3, 1550017, 01.05.2015.

Research output: Contribution to journal > Article > Scientific > peer-review

Ergodicity breaking and particle spreading in noisy heterogeneous diffusion processes. / Cherstvy, Andrey G.; Metzler, Ralf.

In: Journal of Chemical Physics, Vol. 142, No. 14, 144105, 14.04.2015.

Research output: Contribution to journal > Article > Scientific > peer-review

Rate constant and thermochemistry for K + O₂ + N₂ = KO₂ + N₂. / Sorvajärvi, Tapio; Viljanen, Jan; Toivonen, Juha; Marshall, Paul; Glarborg, Peter.

In: Journal of Physical Chemistry A, Vol. 119, No. 14, 09.04.2015, p. 3329-3336.

Research output: Contribution to journal > Article > Scientific > peer-review

Workplace performance of a loose-fitting powered air purifying respirator during nanoparticle synthesis. / Koivisto, Antti J.; Aromaa, Mikko; Koponen, Ismo K.; Fransman, Wouter; Jensen, Keld A.; Mäkelä, Jyrki M.; Hämeri, Kaarle J.

In: Journal of Nanoparticle Research, Vol. 17, No. 4, 09.04.2015.

Research output: Contribution to journal > Article > Scientific > peer-review

Oxidation of cholesterol does not alter significantly its uptake into high-density lipoprotein particles. / Karilainen, Topi; Timr, Štěpán; Vattulainen, Ilpo; Jungwirth, Pavel.

In: Journal of Physical Chemistry Part B, Vol. 119, No. 13, 02.04.2015, p. 4594-4600.

Research output: Contribution to journal > Article > Scientific > peer-review

Effect of rheological properties of dissolved cellulose/microfibrillated cellulose blend suspensions on film forming. /

Saarikoski, Eve; Rissanen, Marja; Seppälä, Jukka.

In: Carbohydrate Polymers, Vol. 119, 30.03.2015, p. 62-70.

Research output: Contribution to journal > Article > Scientific > peer-review

Effects of fresh lubricant oils on particle emissions emitted by a modern gasoline direct injection passenger car. / Pirjola, Liisa; Karjalainen, Panu; Heikkilä, Juha; Saari, Sampo; Tzamkiozis, Theodoros; Ntziachristos, Leonidas; Kulmala, Kari; Keskinen, Jorma; Rönkkö, Topi.

In: Environmental Science and Technology, Vol. 49, No. 6, 17.03.2015, p. 3644-3652.

Research output: Contribution to journal > Article > Scientific > peer-review

High temperature corrosion of thermally sprayed NiCr and FeCr coatings covered with a KCl-K₂SO₄ salt mixture. / Varis, T.; Bankiewicz, D.; Yrjas, P.; Oksa, M.; Suhonen, T.; Tuurna, S.; Ruusuvoori, K.; Holmström, S.

In: Surface and Coatings Technology, Vol. 265, 15.03.2015, p. 235-243.

Research output: Contribution to journal > Article > Scientific > peer-review

Tribology of HVOF- and HVOF-sprayed WC-10Co4Cr hardmetal coatings : A comparative assessment. / Bolelli, G.; Berger, L. M.; Börner, T.; Koivuluoto, H.; Lusvarghi, L.; Lyphout, C.; Markocsan, N.; Matikainen, V.; Nylén, P.; Sassatelli, P.; Trache, R.; Vuoristo, P.

In: Surface and Coatings Technology, Vol. 265, 15.03.2015, p. 125-144.

Research output: Contribution to journal > Article > Scientific > peer-review

CO oxidation catalyzed by neutral and anionic Cu₂₀ clusters : Relationship between charge and activity. / Ma, Li; Melander, Marko; Laasonen, Kari; Akola, Jaakko.

In: Physical Chemistry Chemical Physics, Vol. 17, No. 10, 14.03.2015, p. 7067-7076.

Research output: Contribution to journal > Article > Scientific > peer-review

Oxidation of the GaAs semiconductor at the Al₂O₃/GaAs junction. / Tuominen, Marjukka; Yasir, Muhammad; Lång, Jouko; Dahl, Johnny; Kuzmin, Mikhail; Mäkelä, Jaakko; Punkkinen, Marko; Laukkanen, Pekka; Kokko, Kalevi; Schulte, Karina; Punkkinen, Risto; Korpijärvi, Ville-Markus; Polojärvi, Ville; Guina, Mircea.

In: Physical Chemistry Chemical Physics, Vol. 17, No. 10, 14.03.2015, p. 7060-7066.

Research output: Contribution to journal > Article > Scientific > peer-review

New perspectives on proton pumping in cellular respiration. / Wikström, Mårten; Sharma, Vivek; Kaila, Ville R I; Hosler, Jonathan P.; Hummer, Gerhard.

In: Chemical Reviews, Vol. 115, No. 5, 11.03.2015, p. 2196-2221.

Research output: Contribution to journal > Review Article > Scientific > peer-review

Synthesis, characterization and solid-state photoluminescence studies of six alkoxy phenylene ethynylene dinuclear palladium(II) rods. / Figueira, João; Czardybon, Wojciech; Mesquita, José Carlos; Rodrigues, João; Lahoz, Fernando; Russo, Luca; Valkonen, Arto; Rissanen, Kari.

In: DALTON TRANSACTIONS, Vol. 44, No. 9, 07.03.2015, p. 4003-4015.

Research output: Contribution to journal > Article > Scientific > peer-review

Resveratrol interferes with the aggregation of membrane-bound human-IAPP : A molecular dynamics study. / Lolicato, Fabio; Raudino, Antonio; Milardi, Danilo; La Rosa, Carmelo.

In: European Journal of Medicinal Chemistry, Vol. 92, 06.03.2015, p. 876-881.

Research output: Contribution to journal > Article > Scientific > peer-review

Crystal structure of 2-methylpiperazine-1,4-dium bis(hydrogen maleate). / Wecharine, Intissar; Valkonen, Arto; Rzaigui, Mohamed; Sta, Wajda Smirani; Smith, G.

In: Acta Crystallographica Section E : Structure Reports Online, Vol. 71, No. 3, 01.03.2015, p. o193-o194.

Research output: Contribution to journal > Article > Scientific > peer-review

Exploring the role of stearic acid in modified zinc aluminum layered double hydroxides and their acrylonitrile butadiene rubber nanocomposites. / Eshwaran, Subramani Bhagavatheswaran; Basu, Debdipta; Vaikuntam, Sankar Raman; Kutlu, Burak; Wiessner, Sven; Das, Amit; Naskar, Kinsuk; Heinrich, Gert.

In: Journal of Applied Polymer Science, Vol. 132, No. 9, 41539, 01.03.2015.

Research output: Contribution to journal > Article > Scientific > peer-review

Neutralized chimeric avidin binding at a reference biosensor surface. / Ray, Santanu; Steven, Rory T.; Green, Felicia M.; Höök, Fredrik; Taskinen, Barbara; Hytönen, Vesa P.; Shard, Alexander G.

In: Langmuir, Vol. 31, No. 6, 17.02.2015, p. 1921-1930.

Research output: Contribution to journal > Article > Scientific > peer-review

Polymer looping is controlled by macromolecular crowding, spatial confinement, and chain stiffness. / Shin, Jaeoh; Cherstvy, Andrey G.; Metzler, Ralf.

In: ACS Macro Letters, Vol. 4, No. 2, 17.02.2015, p. 202-206.

Research output: Contribution to journal > Article > Scientific > peer-review

Encapsulation of secondary and tertiary ammonium salts by resorcinarenes and pyrogallarenes : The effect of size and charge concentration. / Beyeh, N. K.; Pan, F.; Valkonen, A.; Rissanen, K.

In: CrystEngComm, Vol. 17, No. 5, 07.02.2015, p. 1182-1188.

Research output: Contribution to journal > Article > Scientific > peer-review

Second-harmonic generation imaging of semiconductor nanowires with focused vector beams. / Bautista, Godofredo; Mäkitalo, Jouni; Chen, Ya; Dhaka, Veer; Grasso, Marco; Karvonen, Lasse; Jiang, Hua; Huttunen, Mikko J.; Huhtio, Teppo; Lipsanen, Harri; Kauranen, Martti.

In: Nano Letters, Vol. 15, No. 3, 06.02.2015, p. 1564-1569.
Research output: Contribution to journal › Article › Scientific › peer-review

Sulfonated polyetheretherketone/polypropylene polymer blends for the production of photoactive materials. / Fatarelle, Enrico; Mylläri, Ville; Ruzzante, Marco; Pogni, Rebecca; Baratto, Maria Camilla; Skrifvars, Mikael; Syrjälä, Seppo; Järvelä, Pentti.

In: Journal of Applied Polymer Science, Vol. 132, No. 8, 41509, 01.02.2015.
Research output: Contribution to journal › Article › Scientific › peer-review

Supramolecular hierarchy among halogen and hydrogen bond donors in light-induced surface patterning. / Saccone, Marco; Dichiarante, Valentina; Forni, Alessandra; Goulet-Hanssens, Alexis; Cavallo, Gabriella; Vapaavuori, Jaana; Terraneo, Giancarlo; Barrett, Christopher J.; Resnati, Giuseppe; Metrangolo, Pierangelo; Priimägi, Arri.

In: Journal of Materials Chemistry C, Vol. 3, 28.01.2015, p. 759-768.
Research output: Contribution to journal › Article › Scientific › peer-review

Silver sulfide nanoclusters and the superatom model. / Goh, Jing-Qiang; Malola, Sami; Häkkinen, Hannu; Akola, Jaakko.

In: Journal of Physical Chemistry C, Vol. 119, No. 3, 22.01.2015, p. 1583-1590.
Research output: Contribution to journal › Article › Scientific › peer-review

Kinetics of polymer looping with macromolecular crowding : Effects of volume fraction and crowder size. / Shin, Jaeoh; Cherstvy, Andrey G.; Metzler, Ralf.

In: Soft Matter, Vol. 11, No. 3, 21.01.2015, p. 472-488.
Research output: Contribution to journal › Article › Scientific › peer-review

Non-universal tracer diffusion in crowded media of non-inert obstacles. / Ghosh, Surya K.; Cherstvy, Andrey G.; Metzler, Ralf.

In: Physical Chemistry Chemical Physics, Vol. 17, No. 3, 21.01.2015, p. 1847-1858.
Research output: Contribution to journal › Article › Scientific › peer-review

Rational design of a printable, highly conductive silicone-based electrically conductive adhesive for stretchable radio-frequency antennas. / Li, Zhuo; Le, Taoran; Wu, Zhenkun; Yao, Yagang; Li, Liyi; Tentzeris, Manos; Moon, Kyoung Sik; Wong, C. P.

In: Advanced Functional Materials, Vol. 25, No. 3, 21.01.2015, p. 464-470.
Research output: Contribution to journal › Article › Scientific › peer-review

Oxidation half-reaction of aqueous nucleosides and nucleotides via photoelectron spectroscopy augmented by ab initio calculations. / Schroeder, Christi A.; Pluharová, Eva; Seidel, Robert; Schroeder, William P.; Faubel, Manfred; Slavíček, Petr; Winter, Bernd; Jungwirth, Pavel; Bradforth, Stephen E.

In: Journal of the American Chemical Society, Vol. 137, No. 1, 14.01.2015, p. 201-209.
Research output: Contribution to journal › Article › Scientific › peer-review

Second-Harmonic Generation from Metal Nanoparticles : Resonance Enhancement versus Particle Geometry. / Czaplicki, R.; Mäkitalo, J.; Siikanen, R.; Husu, H.; Lehtolahti, J.; Kuittinen, M.; Kauranen, M.

In: Nano Letters, Vol. 15, No. 1, 14.01.2015, p. 530-534.
Research output: Contribution to journal › Article › Scientific › peer-review

Manipulation of polycarbonate urethane bulk properties via incorporated zwitterionic polynorborene for tissue engineering application. / Khan, Musamir; Yang, Jing; Shi, Changcan; Feng, Yakai; Zhang, Wencheng; Gibney, Katie; Tew, Gregory N.

In: RSC Advances, Vol. 5, No. 15, 06.01.2015, p. 11284-11292.
Research output: Contribution to journal › Article › Scientific › peer-review

A comparison of five optical surface topography measurement methods. / Mettänen, Marja; Hirn, Ulrich.

In: TAPPI Journal, Vol. 14, No. 1, 01.01.2015, p. 27-38.
Research output: Contribution to journal › Article › Scientific › peer-review

Appropriate pricing policy needed worldwide for improving water services infrastructure. / Hukka, Jarmo J.; Katko, Tapio S.
In: Journal American Water Works Association, Vol. 107, No. 1, 01.01.2015, p. E37-E46.
Research output: Contribution to journal > Article > Scientific > peer-review

Perfluoro-1,1'-biphenyl and perfluoronaphthalene and their derivatives as π -acceptors for anions. / Yi, H.; Albrecht, M.; Valkonen, A.; Rissanen, K.
In: New Journal of Chemistry, Vol. 39, No. 1, 01.01.2015, p. 746-749.
Research output: Contribution to journal > Article > Scientific > peer-review

Photophysical properties of Sn (IV)tetraphenylporphyrin-pyrene dyad with a β -vinyl linker. / Reeta, P. Silviya; Khetubol, Adis; Jella, Tejaswi; Chukharev, Vladimir; Abou-Chahine, Fawzi; Tkachenko, Nikolai V.; Giribabu, L.; Lemmetyinen, Helge.
In: Journal of Porphyrins and Phthalocyanines, Vol. 19, No. 1-3, 01.01.2015, p. 288-300.
Research output: Contribution to journal > Article > Scientific > peer-review

Ballistic and numerical simulation of impacting goods on conveyor belt rubber. / Molnar, W.; Nugent, S.; Lindroos, M.; Apostol, M.; Varga, M.
In: Polymer Testing, Vol. 42, 2015, p. 1-7.
Research output: Contribution to journal > Article > Scientific > peer-review

Block co-polymers for nanolithography : Rapid microwave annealing for pattern formation on substrates. / Borah, Dipu; Rasappa, Sozaraj; Senthamaraikannan, Ramsankar; Holmes, Justin D.; Morris, Michael A.
In: Polymers, Vol. 7, No. 4, 2015, p. 592-609.
Research output: Contribution to journal > Article > Scientific > peer-review

Characterisation of novel regenerated cellulosic, viscose, and cotton fibres and the dyeing properties of fabrics. / Kamppuri, Taina; Vehviläinen, Marianna; Puolakka, Arja; Honkanen, Mari; Vippola, Minnamari; Rissanen, Marja.
In: Coloration Technology, Vol. 131, No. 5, 2015, p. 396-402.
Research output: Contribution to journal > Article > Scientific > peer-review

Chemolithotrophic denitrification in biofilm reactors. / Di Capua, Francesco; Papirio, Stefano; Lens, Piet N L; Esposito, Giovanni.
In: Chemical Engineering Journal, Vol. 280, 2015, p. 643-657.
Research output: Contribution to journal > Article > Scientific > peer-review

Coulomb explosion during the early stages of the reaction of alkali metals with water. / Mason, Philip E.; Uhlig, Frank; Vaněk, Václav; Buttersack, Tillmann; Bauerecker, Sigurd; Jungwirth, Pavel.
In: Nature Chemistry, Vol. 7, No. 3, 2015, p. 250-254.
Research output: Contribution to journal > Article > Scientific > peer-review

Geometry controlled anomalous diffusion in random fractal geometries : Looking beyond the infinite cluster. / Mardoukhi, Yousof; Jeon, Jae-Hyung; Metzler, Ralf.
In: Physical Chemistry Chemical Physics, Vol. 17, No. 44, 2015, p. 30134-30147.
Research output: Contribution to journal > Article > Scientific > peer-review

Halogen-bonded photoresponsive materials. / Saccone, Marco; Cavallo, Gabriella; Metrangolo, Pierangelo; Resnati, Giuseppe; Priimägi, Arri.
Halogen Bonding II: Impact on Materials Chemistry and Life Sciences. Springer International Publishing, 2015. p. 147-166 (Topics in Current Chemistry; Vol. 359).
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

Role of the bridge in photoinduced electron transfer in porphyrin-fullerene dyads. / Pelado, Beatriz; Abou-Chahine, Fawzi; Calbo, Joaquín; Caballero, Rubén; delaCruz, Pilar; Junquera-Hernández, José M.; Ortí, Enrique; Tkachenko, Nikolai V.; Langa, Fernando.
In: Chemistry: A European Journal, Vol. 21, No. 15, 2015, p. 5814-5825.
Research output: Contribution to journal > Article > Scientific > peer-review

Stimuli-Responsive Materials Based on Interpenetrating Polymer Liquid Crystal Hydrogels. / Stumpel, Jelle E.; Gil, Elda Renedo; Spoelstra, Anne B.; Bastiaansen, Cees W M; Broer, Dirk J.; Schenning, Albertus P H J.
In: *Advanced Functional Materials*, Vol. 25, No. 22, 2015, p. 3314–3320.
Research output: Contribution to journal > Article > Scientific > peer-review

Synthesis, crystal structure, spectral, dielectric characteristics and conduction mechanism of two novel carboxylates of 1-benzhydrylpiperazine. / Wacharine, Intissar; Valkonen, Arto; Rzaigui, Mohamed; Smirani, Wajda.
In: *Monatshefte für Chemie*, Vol. 146, No. 12, 2015, p. 2007-2020.
Research output: Contribution to journal > Article > Scientific > peer-review

Synthesis of fluorescent naphthoquinolizines via intramolecular houben-hoesch reaction. / Stasyuk, Anton J.; Smoleń, Sabina; Glodkowska-Mrowka, Eliza; Bratkowski, Wojciech; Cyrański, Michał K.; Tkachenko, Nikolai; Gryko, Daniel T.
In: *Chemistry - An Asian Journal*, Vol. 10, No. 3, 2015, p. 553-558.
Research output: Contribution to journal > Article > Scientific > peer-review

Van der Waals interactions are critical in Car-Parrinello molecular dynamics simulations of porphyrin-fullerene dyads. / Karilainen, Topi; Cramariuc, Oana; Kuisma, Mikael; Tappura, Kirsi; Hukka, Terttu I.
In: *Journal of Computational Chemistry*, Vol. 36, No. 9, 2015, p. 612-621.
Research output: Contribution to journal > Article > Scientific > peer-review

Water-responsive dual-coloured photonic polymer coatings based on cholesteric liquid crystals. / Stumpel, J. E.; Broer, D. J.; Schenning, A. P H J.
In: *RSC Advances*, Vol. 5, No. 115, 2015, p. 94650-94653.
Research output: Contribution to journal > Article > Scientific > peer-review

π -Expanded α,β -unsaturated ketones : Synthesis, optical properties, and two-photon-induced polymerization. / Nazir, Rashid; Bourquard, Florent; Balčiūnas, Evaldas; Smoleń, Sabina; Gray, David; Tkachenko, Nikolai V.; Farsari, Maria; Gryko, Daniel T.
In: *ChemPhysChem*, Vol. 16, No. 3, 2015, p. 682–690.
Research output: Contribution to journal > Article > Scientific > peer-review

Stimuli-responsive photonic polymer coatings. / Stumpel, Jelle E.; Broer, Dirk J.; Schenning, Albertus P H J.
In: *Chemical Communications*, Vol. 50, No. 100, 28.12.2014, p. 15839-15848.
Research output: Contribution to journal > Review Article > Scientific > peer-review

Switchavidin : Reversible biotin-avidin-biotin bridges with high affinity and specificity. / Taskinen, Barbara; Zauner, Dominik; Lehtonen, Soili I.; Koskinen, Masi; Thomson, Chloe; Kähkönen, Niklas; Kukkurainen, Sampo; Määttä, Juha A E; Ihalainen, Teemu O.; Kulomaa, Markku S.; Gruber, Hermann J.; Hytönen, Vesa P.
In: *Bioconjugate Chemistry*, Vol. 25, No. 12, 17.12.2014, p. 2233-2243.
Research output: Contribution to journal > Article > Scientific > peer-review

DNA lesion can facilitate base ionization : Vertical ionization energies of aqueous 8-oxoguanine and its nucleoside and nucleotide. / Palivec, Vladimír; Pluharová, Eva; Unger, Isaak; Winter, Bernd; Jungwirth, Pavel.
In: *Journal of Physical Chemistry Part B*, Vol. 118, No. 48, 04.12.2014, p. 13833-13837.
Research output: Contribution to journal > Article > Scientific > peer-review

Time-resolved fluorescence methods (IUPAC technical report). / Lemmetyinen, Helge; Tkachenko, Nikolai V.; Valeur, Bernard; Hotta, Jun Ichi; Ameloot, Marcel; Ernsting, Nikolaus P.; Gustavsson, Thomas; Boens, Noël.
In: *Pure and Applied Chemistry*, Vol. 86, No. 12, 01.12.2014, p. 1969-1998.
Research output: Contribution to journal > Article > Scientific > peer-review

Processable aromatic polyesters based on bisphenol derived from cashew nut shell liquid : synthesis and characterization. / Tawade, Bhausheeb V.; Salunke, Jagadish K.; Sane, Prakash S.; Wadgaonkar, Prakash P.
In: *JOURNAL OF POLYMER RESEARCH*, Vol. 21, No. 12, 18.11.2014.
Research output: Contribution to journal > Article > Scientific > peer-review

Electromagnetic interference shielding effectiveness of MWCNT filled poly(ether sulfone) and poly(ether imide) nanocomposites. / Mohanty, Aruna Kumar; Ghosh, Anindita; Sawai, Pravin; Pareek, Kapil; Banerjee, Susanta; Das, Amit; Pötschke, Petra; Heinrich, Gert; Voit, Brigitte.

In: *Polymer Engineering and Science*, Vol. 54, No. 11, 01.11.2014, p. 2560-2570.

Research output: Contribution to journal › Article › Scientific › peer-review

A supramolecular approach to photoresponsive thermo/solvoplastic block copolymer elastomers. / Wang, Xin; Vapaavuori, Jaana; Zhao, Yue; Bazuin, C. Geraldine.

In: *Macromolecules*, Vol. 47, No. 20, 28.10.2014, p. 7099-7108.

Research output: Contribution to journal › Article › Scientific › peer-review

Impact of selective catalytic reduction on exhaust particle formation over excess ammonia events. / Amanatidis, Stavros; Ntziachristos, Leonidas; Giechaskiel, Barouch; Bergmann, Alexander; Samaras, Zissis.

In: *Environmental Science and Technology*, Vol. 48, No. 19, 07.10.2014, p. 11527-11534.

Research output: Contribution to journal › Article › Scientific › peer-review

Global analysis of human nonreceptor tyrosine kinase specificity using high-density peptide microarrays. / Deng, Yang; Alicea-Velázquez, Nilda L.; Bannwarth, Ludovic; Lehtonen, Soili I.; Boggon, Titus J.; Cheng, Heung Chin; Hytönen, Vesa P.; Turk, Benjamin E.

In: *Journal of Proteome Research*, Vol. 13, No. 10, 03.10.2014, p. 4339-4346.

Research output: Contribution to journal › Article › Scientific › peer-review

Rapid, Brushless Self-assembly of a PS-b-PDMS Block Copolymer for Nanolithography. / Rasappa, Sozaraj; Schulte, Lars; Borah, Dipu; Morris, Michael A.; Ndoni, Sokol.

In: *Colloids and Interface Science Communications*, Vol. 2, 01.10.2014, p. 1-5.

Research output: Contribution to journal › Article › Scientific › peer-review

Effect of head group size on the photoswitching applications of azobenzene Disperse Red 1 analogues. / Goulet-Hanssens, Alexis; Corkery, T. Christopher; Priimagi, Arri; Barrett, Christopher J.

In: *Journal of Materials Chemistry C*, Vol. 2, No. 36, 28.09.2014, p. 7505-7512.

Research output: Contribution to journal › Article › Scientific › peer-review

Pyrene based conjugated materials : Synthesis, characterization and electroluminescent properties. / Salunke, Jagadish K.; Sonar, Prashant; Wong, F. L.; Roy, V. A L; Lee, C. S.; Wadgaonkar, Prakash P.

In: *Physical Chemistry Chemical Physics*, Vol. 16, No. 42, 26.09.2014, p. 23320-23328.

Research output: Contribution to journal › Article › Scientific › peer-review

Density functional theory study of transition metals doped B₈₀ fullerene. / Wang, Jianguang; Ma, Li; Liang, Yanhua; Gao, Meiling; Wang, Guanghou.

In: *Journal of Theoretical and Computational Chemistry*, Vol. 13, No. 6, 1450050, 22.09.2014.

Research output: Contribution to journal › Article › Scientific › peer-review

Recent twists in photoactuation and photoalignment control. / Priimagi, Arri; Barrett, Christopher J.; Shishido, Atsushi.

In: *Journal of Materials Chemistry C*, Vol. 2, No. 35, 21.09.2014, p. 7155-7162.

Research output: Contribution to journal › Article › Scientific › peer-review

Optical spectroscopy of the bulk and interfacial hydrated electron from ab initio calculations. / Uhlig, Frank; Herbert, John M.; Coons, Marc P.; Jungwirth, Pavel.

In: *Journal of Physical Chemistry A*, Vol. 118, No. 35, 04.09.2014, p. 7507-7515.

Research output: Contribution to journal › Article › Scientific › peer-review

The role of linked phospholipids in the rubber-filler interaction in carbon nanotube (CNT) filled natural rubber (NR) composites. / Le, H. H.; Abhijeet, S.; Ilisch, S.; Klehm, J.; Henning, S.; Beiner, M.; Sarkawi, S. S.; Dierkes, W.; Das, A.; Fischer, D.; Stöckelhuber, K. W.; Wiessner, S.; Khatiwada, S. P.; Adhikari, R.; Pham, T.; Heinrich, G.; Radosch, H. J.

In: *Polymer*, Vol. 55, No. 18, 02.09.2014, p. 4738-4747.

Research output: Contribution to journal › Article › Scientific › peer-review

Effect of silane integrated sol-gel derived in situ silica on the properties of nitrile rubber. / Kapgate, Bharat P.; Das, Chayan; Basu, Debdipta; Das, Amit; Heinrich, Gert; Reuter, Uta.

In: Journal of Applied Polymer Science, Vol. 131, No. 15, 40531, 05.08.2014.

Research output: Contribution to journal > Article > Scientific > peer-review

Molecular engineering of avidin and hydrophobin for functional self-assembling interfaces. / Kurppa, Katri; Hytönen, Vesa P.; Nakari-Setälä, Tiina; Kulomaa, Markku S.; Linder, Markus B.

In: Colloids and Surfaces B: Biointerfaces, Vol. 120, 01.08.2014, p. 102-109.

Research output: Contribution to journal > Article > Scientific > peer-review

Performance testing of iron based thermally sprayed HVOF coatings in a biomass-fired fluidised bed boiler. / Oksa, Maria; Varis, Tommi; Ruusuvuori, Kimmo.

In: Surface and Coatings Technology, Vol. 251, 25.07.2014, p. 191-200.

Research output: Contribution to journal > Article > Scientific > peer-review

Accurate description of calcium solvation in concentrated aqueous solutions. / Kohagen, Miriam; Mason, Philip E.; Jungwirth, Pavel.

In: Journal of Physical Chemistry Part B, Vol. 118, No. 28, 17.07.2014, p. 7902-7909.

Research output: Contribution to journal > Article > Scientific > peer-review

Surface behavior of hydrated guanidinium and ammonium ions : A comparative study by photoelectron spectroscopy and molecular dynamics. / Werner, Josephina; Wernersson, Erik; Ekholm, Victor; Ottosson, Niklas; Öhrwall, Gunnar; Heyda, Jan; Persson, Ingmar; Söderström, Johan; Jungwirth, Pavel; Björneholm, Olle.

In: Journal of Physical Chemistry Part B, Vol. 118, No. 25, 26.06.2014, p. 7119-7127.

Research output: Contribution to journal > Article > Scientific > peer-review

Carbon nanotubes-filled thermoplastic polyurethane-urea and carboxylated acrylonitrile butadiene rubber blend nanocomposites. / Mahmood, Nasir; Khan, Asad Ullah; Stöckelhuber, Klaus Werner; Das, Amit; Jehnichen, Dieter; Heinrich, Gert.

In: Journal of Applied Polymer Science, Vol. 131, No. 11, 05.06.2014.

Research output: Contribution to journal > Article > Scientific > peer-review

Hydration of the chloride ion in concentrated aqueous solutions using neutron scattering and molecular dynamics. / Pluhařová, Eva; Fischer, Henry E.; Mason, Philip E.; Jungwirth, Pavel.

In: Molecular Physics, Vol. 112, No. 9-10, 19.05.2014, p. 1230-1240.

Research output: Contribution to journal > Article > Scientific > peer-review

Bioprocessing of enhanced cellulase production from a mutant of Trichoderma asperellum RCK2011 and its application in hydrolysis of cellulose. / Raghuwanshi, Sanjeev; Deswal, Deepa; Karp, Matti; Kuhad, Ramesh Chander.

In: Fuel, Vol. 124, 15.05.2014, p. 183-189.

Research output: Contribution to journal > Article > Scientific > peer-review

Light-fuelled transport of large dendrimers and proteins. / Koskela, Jenni E.; Liljeström, Ville; Lim, Jongdoo; Simanek, Eric E.; Ras, Robin H A; Priimagi, Arri; Kostiaainen, Mauri A.

In: Journal of the American Chemical Society, Vol. 136, No. 19, 14.05.2014, p. 6850-6853.

Research output: Contribution to journal > Article > Scientific > peer-review

Microphase mechanism of "superquenching" of luminescent probes in aqueous solutions of DNA and some other polyelectrolytes. / Kuzmin, Michael G.; Soboleva, Irina V.; Durandin, Nikita A.; Lisitsyna, Ekaterina S.; Kuzmin, Vladimir A.

In: Journal of Physical Chemistry Part B, Vol. 118, No. 15, 17.04.2014, p. 4245-4252.

Research output: Contribution to journal > Article > Scientific > peer-review

Protein conformation as a regulator of cell-matrix adhesion. / Hytönen, Vesa P.; Wehrle-Haller, Bernhard.

In: Physical Chemistry Chemical Physics, Vol. 16, No. 14, 14.04.2014, p. 6342-6357.

Research output: Contribution to journal > Article > Scientific > peer-review

Deciphering the infrared spectrum of the protonated water pentamer and the hybrid Eigen-Zundel cation. / Kulig, Waldemar; Agmon, Noam.

In: *Physical Chemistry Chemical Physics*, Vol. 16, No. 10, 14.03.2014, p. 4933-4941.

Research output: [Contribution to journal](#) > [Article](#) > [Scientific](#) > [peer-review](#)

Fabrication of ssDNA/oligo(ethylene glycol) monolayers by promoted exchange reaction with thiol and disulfide substituents. / Khan, M. Nuruzzaman; Zharnikov, Michael.

In: *Journal of Physical Chemistry C*, Vol. 118, No. 6, 13.02.2014, p. 3093-3101.

Research output: [Contribution to journal](#) > [Article](#) > [Scientific](#) > [peer-review](#)

Bioaerosols and Hospital Infections. / Lai, Ka Man; Nasir, Zaheer Ahmad; Taylor, Jonathon.

Aerosol Science: Technology and Applications. Vol. 9781119977926 Wiley-Blackwell, 2014. p. 271-289.

Research output: [Chapter in Book/Report/Conference proceeding](#) > [Chapter](#) > [Scientific](#) > [peer-review](#)

Azopolymer-based micro- and nanopatterning for photonic applications. / Priimagi, Arri; Shevchenko, Andriy.

In: *Journal of Polymer Science. Part B, Polymer Physics*, Vol. 52, No. 3, 01.02.2014, p. 163-182.

Research output: [Contribution to journal](#) > [Article](#) > [Scientific](#) > [peer-review](#)

Both zundel and eigen isomers contribute to the IR spectrum of the gas-phase H₉O₄ + cluster. / Kulig, Waldemar; Agmon, Noam.

In: *Journal of Physical Chemistry Part B*, Vol. 118, No. 1, 09.01.2014, p. 278-286.

Research output: [Contribution to journal](#) > [Article](#) > [Scientific](#) > [peer-review](#)

Natural thermal adaptation increases heat shock protein levels and decreases oxidative stress. / Oksala, Niku K J; Ekmekçi, F. Güler; Özsoy, Ergi; Kirankaya, Şerife; Kakkola, Tarja; Emecen, Güzin; Lappalainen, Jani; Kaarniranta, Kai; Atalay, Mustafa.

In: *REDOX BIOLOGY*, Vol. 3, 01.01.2014, p. 25-28.

Research output: [Contribution to journal](#) > [Article](#) > [Scientific](#) > [peer-review](#)

A full-potential linearized augmented plane wave study of the interaction of CO₂ with α -Pu (020) surface nanolayers. / Wang, Jianguang; Ray, Asok K.

In: *Journal of Computational and Theoretical Nanoscience*, Vol. 11, No. 7, 2014, p. 1710-1717.

Research output: [Contribution to journal](#) > [Article](#) > [Scientific](#) > [peer-review](#)

A microscopic view of the mechanisms of active transport across the cellular membrane. / Enkavi, Giray; Li, Jing; Wen, Pochao; Thangapandian, Sundarapandian; Moradi, Mahmoud; Jiang, Tao; Han, Wei; Tajkhorshid, Emad.

In: *Annual Reports in Computational Chemistry*, Vol. 10, 2014, p. 77-125.

Research output: [Contribution to journal](#) > [Article](#) > [Scientific](#) > [peer-review](#)

Direct observation of the collapse of the delocalized excess electron in water. / Savolainen, Janne; Uhlig, Frank; Ahmed, Saima; Hamm, Peter; Jungwirth, Pavel.

In: *Nature Chemistry*, Vol. 6, No. 8, 2014, p. 697-701.

Research output: [Contribution to journal](#) > [Article](#) > [Scientific](#) > [peer-review](#)

Effect of non-rubber components of NR on the carbon nanotube (CNT) localization in SBR/NR blends. / Le, Hai Hong; Parsekar, Meenali; Ilisch, Sybill; Henning, Sven; Das, Amit; Stöckelhuber, Klaus Werner; Beiner, Mario; Ho, Chi Anh; Adhikari, Rameshwar; Wießner, Sven; Heinrich, Gert; Radosch, Hans Joachim.

In: *Macromolecular Materials and Engineering*, Vol. 299, No. 5, 2014, p. 569-582.

Research output: [Contribution to journal](#) > [Article](#) > [Scientific](#) > [peer-review](#)

Fabrication of 3-D nanodimensioned electric double layer capacitor structures using block copolymer templates. /

Rasappa, Sozaraj; Borah, Dipu; Senthamaraiannan, Ramsankar; Faulkner, Colm C.; Holmes, Justin D.; Morris, Michael A.

In: *Journal Nanoscience and Nanotechnology*, Vol. 14, No. 7, 2014, p. 5221-5227.

Research output: [Contribution to journal](#) > [Article](#) > [Scientific](#) > [peer-review](#)

Improving the effect of nanoscale barrier coating on BOPP film properties : Influence of substrate contamination, web handling and pretreatments. / Lahti, Johanna; Johansson, Petri; Lahtinen, Kimmo; Cameron, David C.; Seppänen, Tarja. TAPPI PLACE Conference 2014. Vol. 2 TAPPI Press, 2014. p. 1039-1061.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Kinetics of bioconjugate nanoparticle label binding in a sandwich-type immunoassay. / Näreoja, Tuomas; Ebner, Andreas; Gruber, Hermann J.; Taskinen, Barbara; Kienberger, Ferry; Hänninen, Pekka E.; Hytönen, Vesa P.; Hinterdorfer, Peter; Härmä, Harri.

In: Analytical and Bioanalytical Chemistry, Vol. 406, No. 2, 2014, p. 493-503.

Research output: Contribution to journal > Article > Scientific > peer-review

Magnetic origin of the chemical balance in alloyed Fe-Cr stainless steels : First-principles and Ising model study. /

Airiskallio, E.; Nurmi, E.; Väyrynen, I. J.; Kokko, K.; Ropo, M.; Punkkinen, M. P J; Johansson, B.; Vitos, L.

In: Computational Materials Science, Vol. 92, 2014, p. 135-140.

Research output: Contribution to journal > Article > Scientific > peer-review

Molekuly a ionty v pohybu : Počítačové simulace biochemických a biofyzikálních procesů. / Jungwirth, Pavel.

In: Chemické Listy, Vol. 108, No. 4, 2014, p. 278-284.

Research output: Contribution to journal > Article > Scientific > peer-review

Novel derivatives of bacteriochlorophyll a : Complex formation with albumin and the mechanism of tumor cell

photodamage. / Akimova, A. V.; Grin, M. A.; Golovina, G. V.; Kokrashvili, T. A.; Vinogradov, A. M.; Mironov, A. F.; Rychkov, G. N.; Shtil, A. A.; Kuzmin, V. A.; Durandin, N. A.

In: DOKLADY BIOCHEMISTRY AND BIOPHYSICS, Vol. 454, No. 1, 2014, p. 17-20.

Research output: Contribution to journal > Article > Scientific > peer-review

pH-dependent deformations of the energy landscape of avidin-like proteins investigated by single molecule force spectroscopy. / Köhler, Melanie; Karner, Andreas; Leitner, Michael; Hytönen, Vesa P.; Kulomaa, Markku; Hinterdorfer, Peter; Ebner, Andreas.

In: Molecules, Vol. 19, No. 8, 2014, p. 12531-12546.

Research output: Contribution to journal > Review Article > Scientific > peer-review

Study of the kinetics and mechanism of rapid self-assembly in block copolymer thin films during solvo-microwave annealing. / Mokarian-Tabari, Parvaneh; Cummins, Cian; Rasappa, Sozaraj; Simao, Claudia; Torres, Clivia M Sotomayor; Holmes, Justin D.; Morris, Michael A.

In: Langmuir, Vol. 30, No. 35, 2014, p. 10728-10739.

Research output: Contribution to journal > Article > Scientific > peer-review

Self-assembly of polystyrene-block-poly(4-vinylpyridine) block copolymer on molecularly functionalized silicon substrates : Fabrication of inorganic nanostructured etchmask for lithographic use. / Cummins, C.; Borah, D.; Rasappa, S.; Chaudhari, A.; Ghoshal, T.; O'Driscoll, B. M D; Carolan, P.; Petkov, N.; Holmes, J. D.; Morris, M. A.

In: Journal of Materials Chemistry C, Vol. 1, No. 47, 21.12.2013, p. 7941-7951.

Research output: Contribution to journal > Article > Scientific > peer-review

Analysis of free, mono- and diacetylated polyamines from human urine by LC-MS/MS. / Häkkinen, Merja R.; Roine, Antti;

Auriola, Seppo; Tuokko, Antti; Veskimäe, Erik; Keinänen, Tuomo A.; Lehtimäki, Terho; Oksala, Niku; Vepsäläinen, Jouko.

In: JOURNAL OF CHROMATOGRAPHY B: ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, Vol. 941, 15.12.2013, p. 81-89.

Research output: Contribution to journal > Article > Scientific > peer-review

Location of dispersing agent in rubber nanocomposites during mixing process. / Le, H. H.; Oßwald, K.; Wießner, S.; Das,

A.; Stöckelhuber, K. W.; Boldt, R.; Gupta, G.; Heinrich, G.; Radusch, H. J.

In: Polymer, Vol. 54, No. 26, 13.12.2013, p. 7009-7021.

Research output: Contribution to journal > Article > Scientific > peer-review

Effect of surface morphology of poly(ϵ -caprolactone) scaffolds on adipose stem cell adhesion and proliferation. / Diban, Nazely; Haimi, Suvi P.; Bolhuis-Versteeg, Lydia; Teixeira, Sandra; Miettinen, Susanna; Poot, André A.; Grijpma, Dirk W.; Stamatialis, Dimitrios.

In: Macromolecular symposia, Vol. 334, No. 1, 12.2013, p. 126-132.

Research output: Contribution to journal > Article > Scientific > peer-review

Human adipose stem cells in chondrogenic differentiation medium without growth factors differentiate towards annulus fibrosus phenotype in vitro. / Gebraad, A. W H; Miettinen, S.; Grijpma, D. W.; Haimi, S. P.

In: Macromolecular symposia, Vol. 334, No. 1, 12.2013, p. 49-56.

Research output: Contribution to journal > Article > Scientific > peer-review

Proliferation and differentiation of adipose stem cells towards smooth muscle cells on poly(trimethylene carbonate) membranes. / German, Salvador Jimenez; Behbahani, Mehdi; Miettinen, Susanna; Grijpma, Dirk W.; Haimi, Suvi P.

In: Macromolecular symposia, Vol. 334, No. 1, 12.2013, p. 133-142.

Research output: Contribution to journal > Article > Scientific > peer-review

Fabrication of ssDNA/Oligo(ethylene glycol) monolayers and patterns by exchange reaction promoted by ultraviolet light irradiation. / Khan, M. Nuruzzaman; Zharnikov, Michael.

In: Journal of Physical Chemistry C, Vol. 117, No. 47, 27.11.2013, p. 24883-24893.

Research output: Contribution to journal > Article > Scientific > peer-review

Ion pairing in aqueous lithium salt solutions with monovalent and divalent counter-anions. / Pluhařová, Eva; Mason, Philip E.; Jungwirth, Pavel.

In: Journal of Physical Chemistry A, Vol. 117, No. 46, 21.11.2013, p. 11766-11773.

Research output: Contribution to journal > Article > Scientific > peer-review

Release of halide ions from the buried active site of the haloalkane dehalogenase LinB revealed by stopped-flow fluorescence analysis and free energy calculations. / Hladilkova, Jana; Prokop, Zbynek; Chaloupkova, Radka; Damborsky, Jiri; Jungwirth, Pavel.

In: Journal of Physical Chemistry Part B, Vol. 117, No. 46, 21.11.2013, p. 14329-14335.

Research output: Contribution to journal > Article > Scientific > peer-review

The Halogen Bond in the Design of Functional Supramolecular Materials : Recent Advances. / Priimagi, Arri; Cavallo, Gabriella; Metrangolo, Pierangelo; Resnati, Giuseppe.

In: Accounts of Chemical Research, Vol. 46, No. 11, 19.11.2013, p. 2686-2695.

Research output: Contribution to journal > Article > Scientific > peer-review

How conformational flexibility stabilizes the hyperthermophilic elongation factor G-domain. / Kalimeri, Maria; Rahaman, Obaidur; Melchionna, Simone; Sterpone, Fabio.

In: Journal of Physical Chemistry Part B, Vol. 117, No. 44, 07.11.2013, p. 13775-13785.

Research output: Contribution to journal > Article > Scientific > peer-review

Embedded cluster models for reactivity of the hydrated electron. / Uhlig, Frank; Jungwirth, Pavel.

In: ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY AND CHEMICAL PHYSICS, Vol. 227, No. 11, 11.2013, p. 1583-1593.

Research output: Contribution to journal > Article > Scientific > peer-review

Soft-graphoepitaxy using nanoimprinted polyhedral oligomeric silsesquioxane substrates for the directed self-Assembly of PS-*b*-PDMS. / Borah, Dipu; Simao, Claudia D.; Sentharamaikannan, Ramsankar; Rasappa, Sozaraj; Francone, Achille; Lorret, Olivier; Salaun, Mathieu; Kosmala, Barbara; Kehagias, Nikolaos; Zelsmann, Marc; Sotomayor-Torres, Clivia M.; Morris, Michael A.

In: European Polymer Journal, Vol. 49, No. 11, 11.2013, p. 3512-3521.

Research output: Contribution to journal > Article > Scientific > peer-review

Porphyrim adsorbed on the (1010) surface of the wurtzite structure of ZnO-conformation induced effects on the electron transfer characteristics. / Niskanen, Mika; Kuisma, Mikael; Cramariuc, Oana; Golovanov, Viacheslav; Hukka, Terttu I.; Tkachenko, Nikolai; Rantala, Tapio T.

In: Physical Chemistry Chemical Physics, Vol. 15, No. 40, 28.10.2013, p. 17408-17418.

Research output: Contribution to journal > Article > Scientific > peer-review

Reversible biofunctionalization of surfaces with a switchable mutant of avidin. / Pollheimer, Philipp; Taskinen, Barbara; Scherfler, Andreas; Gusenkov, Sergey; Creus, Marc; Wiesauer, Philipp; Zauner, Dominik; Schöfberger, Wolfgang; Schwarzinger, Clemens; Ebner, Andreas; Tampé, Robert; Stutz, Hanno; Hytönen, Vesa P.; Gruber, Hermann J.

In: Bioconjugate Chemistry, Vol. 24, No. 10, 16.10.2013, p. 1656-1668.

Research output: Contribution to journal > Article > Scientific > peer-review

Importance of the ion-pair interactions in the OPEP coarse-grained force field : Parametrization and validation. / Sterpone, Fabio; Nguyen, Phuong H.; Kalimeri, Maria; Derreumaux, Philippe.

In: Journal of Chemical Theory and Computation, Vol. 9, No. 10, 08.10.2013, p. 4574-4584.

Research output: Contribution to journal > Article > Scientific > peer-review

Zinc coordination spheres in protein structures. / Laitaoja, Mikko; Valjakka, Jarkko; Jänis, Janne.

In: Inorganic Chemistry, Vol. 52, No. 19, 07.10.2013, p. 10983-10991.

Research output: Contribution to journal > Article > Scientific > peer-review

Spectroscopic study of a DNA brush synthesized in situ by surface initiated enzymatic polymerization. / Khan, M. Nuruzzaman; Tjong, Vinalia; Chilkoti, Ashutosh; Zharnikov, Michael.

In: Journal of Physical Chemistry Part B, Vol. 117, No. 34, 29.08.2013, p. 9929-9938.

Research output: Contribution to journal > Article > Scientific > peer-review

Mechanisms of acceleration and retardation of water dynamics by ions. / Stirnemann, Guillaume; Wernersson, Erik; Jungwirth, Pavel; Laage, Damien.

In: Journal of the American Chemical Society, Vol. 135, No. 32, 14.08.2013, p. 11824-11831.

Research output: Contribution to journal > Article > Scientific > peer-review

Irradiation promoted exchange reaction with disulfide substituents. / Khan, M. Nuruzzaman; Zharnikov, Michael.

In: Journal of Physical Chemistry C, Vol. 117, No. 28, 18.07.2013, p. 14534-14543.

Research output: Contribution to journal > Article > Scientific > peer-review

Tuning PDMS brush chemistry by UV-O3 exposure for PS-b-PDMS microphase separation and directed self-assembly. / Borah, Dipu; Rasappa, Sozaraj; Senthamaraiannan, Ramsankar; Holmes, Justin D.; Morris, Michael A.

In: Langmuir, Vol. 29, No. 28, 16.07.2013, p. 8959-8968.

Research output: Contribution to journal > Article > Scientific > peer-review

Reversal of the Hofmeister series : Specific ion effects on peptides. / Paterová, Jana; Rembert, Kelvin B.; Heyda, Jan; Kurra, Yadagiri; Okur, Halil I.; Liu, Wenshe R.; Hilty, Christian; Cremer, Paul S.; Jungwirth, Pavel.

In: Journal of Physical Chemistry Part B, Vol. 117, No. 27, 11.07.2013, p. 8150-8158.

Research output: Contribution to journal > Article > Scientific > peer-review

Photoswitchable hydrogel surface topographies by polymerisation-induced diffusion. / Stumpel, Jelle E.; Liu, Danqing; Broer, Dirk J.; Schenning, Albertus P H J.

In: Chemistry: A European Journal, Vol. 19, No. 33, 02.07.2013, p. 10922-10927.

Research output: Contribution to journal > Article > Scientific > peer-review

Development and characterization of poly(ϵ -caprolactone) hollow fiber membranes for vascular tissue engineering. / Diban, Nazely; Haimi, Suvi; Bolhuis-Versteeg, Lydia; Teixeira, Sandra; Miettinen, Susanna; Poot, André; Grijpma, Dirk; Stamatialis, Dimitrios.

In: Journal of Membrane Science, Vol. 438, 01.07.2013, p. 29-37.

Research output: Contribution to journal > Article > Scientific > peer-review

Shape-dependent plasmonic response and directed self-assembly in a new semiconductor building block, indium-doped cadmium oxide (ICO). / Gordon, Thomas R.; Paik, Taejong; Klein, Dahlia R.; Naik, Gururaj V.; Caglayan, Humeyra; Boltasseva, Alexandra; Murray, Christopher B.

In: Nano Letters, Vol. 13, No. 6, 12.06.2013, p. 2857-2863.
Research output: Contribution to journal > Article > Scientific > peer-review

Cell toxicity and oxidative potential of engine exhaust particles : Impact of using particulate filter or biodiesel fuel blend. / Gerlofs-Nijland, Miriam E.; Totlandsdal, Annike I.; Tzamkiozis, Theodoros; Leseman, Daan L A C; Samaras, Zissis; Låg, Marit; Schwarze, Per; Ntziachristos, Leonidas; Cassee, Flemming R.

In: Environmental Science and Technology, Vol. 47, No. 11, 04.06.2013, p. 5931-5938.
Research output: Contribution to journal > Article > Scientific > peer-review

Cation-specific effects on enzymatic catalysis driven by interactions at the tunnel mouth. / Štěpánková, Veronika; Paterová, Jana; Damborský, Jiří; Jungwirth, Pavel; Chaloupková, Radka; Heyda, Jan.

In: Journal of Physical Chemistry Part B, Vol. 117, No. 21, 30.05.2013, p. 6394-6402.
Research output: Contribution to journal > Article > Scientific > peer-review

Surface properties and interaction forces of biopolymer-doped conductive polypyrrole surfaces by atomic force microscopy. / Pelto, Jani M.; Haimi, Suvi P.; Siljander, Aliisa S.; Miettinen, Susanna S.; Tappura, Kirsi M.; Higgins, Michael J.; Wallace, Gordon G.

In: Langmuir, Vol. 29, No. 20, 21.05.2013, p. 6099-6108.
Research output: Contribution to journal > Article > Scientific > peer-review

Depth profiling of PLGA copolymer in a novel biomedical bilayer using confocal raman spectroscopy. / McManamon, Colm; Delaney, Paul; Kavanagh, Claire; Wang, Jing Jing; Rasappa, Sozaraj; Morris, Michael A.

In: Langmuir, Vol. 29, No. 19, 14.05.2013, p. 5905-5910.
Research output: Contribution to journal > Article > Scientific > peer-review

Screening pretreatment methods to enhance thermophilic anaerobic digestion of pulp and paper mill wastewater treatment secondary sludge. / Bayr, Suvi; Kaparaju, Prasad; Rintala, Jukka.

In: Chemical Engineering Journal, Vol. 223, 01.05.2013, p. 479-486.
Research output: Contribution to journal > Article > Scientific > peer-review

Immobilized bioactive agents onto polyurethane surface with heparin and phosphorylcholine group. / Tan, Mingqi; Feng, Yakai; Wang, Heyun; Zhang, Li; Khan, Musammir; Guo, Jintang; Chen, Qingliang; Liu, Jianshi.

In: Macromolecular Research, Vol. 21, No. 5, 05.2013, p. 541-549.
Research output: Contribution to journal > Article > Scientific > peer-review

Nanoindentation study of light-induced softening of supramolecular and covalently functionalized azo polymers. / Vapaavuori, Jaana; Mahimwalla, Zahid; Chromik, Richard R.; Kaivola, Matti; Priimagi, Arri; Barrett, Christopher J.

In: Journal of Materials Chemistry C, Vol. 1, No. 16, 28.04.2013, p. 2806-2810.
Research output: Contribution to journal > Article > Scientific > peer-review

Understanding the reinforcing behavior of expanded clay particles in natural rubber compounds. / Rooj, Sandip; Das, Amit; Stöckelhuber, Klaus Werner; Wang, De Yi; Galiatsatos, Vassilios; Heinrich, Gert.

In: Soft Matter, Vol. 9, No. 14, 14.04.2013, p. 3798-3808.
Research output: Contribution to journal > Article > Scientific > peer-review

Biomimetic zinc chlorin-poly(4-vinylpyridine) assemblies : Doping level dependent emission-absorption regimes. / Pale, Ville; Nikkonen, Taru; Vapaavuori, Jaana; Kostianen, Mauri; Kavakka, Jari; Selin, Jorma; Tittonen, Ilkka; Helaja, Juho.

In: Journal of Materials Chemistry C, Vol. 1, No. 11, 21.03.2013, p. 2166-2173.
Research output: Contribution to journal > Article > Scientific > peer-review

Site-specific analysis of dipole polarizabilities of heterogeneous systems : Iron-doped Si_n (n = 1-14) clusters. / Ma, Li; Wang, Jianguang; Wang, Guanghou.

In: Journal of Chemical Physics, Vol. 138, No. 9, 094304, 07.03.2013.
Research output: Contribution to journal > Article > Scientific > peer-review

Molecularly functionalized silicon substrates for orientation control of the microphase separation of PS-b-PMMA and PS-b-PDMS block copolymer systems. / Borah, Dipu; Ozmen, Mustafa; Rasappa, Sozaraj; Shaw, Matthew T.; Holmes, Justin D.; Morris, Michael A.

In: Langmuir, Vol. 29, No. 9, 05.03.2013, p. 2809-2820.

Research output: Contribution to journal › Article › Scientific › peer-review

Optical vortex generation in nematic liquid crystal light valves. / Barboza, R.; Bortolozzo, U.; Assanto, G.; Residori, S.

In: Molecular Crystals and Liquid Crystals, Vol. 572, No. 1, 01.03.2013, p. 24-30.

Research output: Contribution to journal › Article › Scientific › peer-review

Fabrication of a sub-10 nm silicon nanowire based ethanol sensor using block copolymer lithography. / Rasappa, Sozaraj; Borah, Dipu; Faulkner, Colm C.; Lutz, Tarek; Shaw, Matthew T.; Holmes, Justin D.; Morris, Michael A.

In: Nanotechnology, Vol. 24, No. 6, 065503, 15.02.2013.

Research output: Contribution to journal › Article › Scientific › peer-review

Aqueous guanidinium-carbonate interactions by molecular dynamics and neutron scattering : Relevance to ion-protein interactions. / Vazdar, Mario; Jungwirth, Pavel; Mason, Philip E.

In: Journal of Physical Chemistry Part B, Vol. 117, No. 6, 14.02.2013, p. 1844-1848.

Research output: Contribution to journal › Article › Scientific › peer-review

Chemically tailored dielectric-to-metal transition for the design of metamaterials from nanoimprinted colloidal nanocrystals. / Fafarman, Aaron T.; Hong, Sung Hoon; Caglayan, Humeyra; Ye, Xingchen; Diroll, Benjamin T.; Paik, Taejong; Engheta, Nader; Murray, Christopher B.; Kagan, Cherie R.

In: Nano Letters, Vol. 13, No. 2, 13.02.2013, p. 350-357.

Research output: Contribution to journal › Article › Scientific › peer-review

A potential nonthrombogenic small-diameter vascular scaffold with polyurethane/poly(ethylene glycol) hybrid materials by electrospinning technique. / Wang, Heyun; Feng, Yakai; Zhao, Haiyang; Fang, Zichen; Khan, Musamir; Guo, Jintang.

In: Journal Nanoscience and Nanotechnology, Vol. 13, No. 2, 02.2013, p. 1578-1582.

Research output: Contribution to journal › Article › Scientific › peer-review

Density functional theory study of FePd_n (n = 2-14) clusters and interactions with small molecules. / Ma, Li; Wang, Jianguang; Hao, Yuanyuan; Wang, Guanghou.

In: Computational Materials Science, Vol. 68, 02.2013, p. 166-173.

Research output: Contribution to journal › Article › Scientific › peer-review

Growth behavior and magnetic properties of spherical uranium oxide nanoclusters. / Ma, Li; Ray, Asok K.

In: Journal of Computational and Theoretical Nanoscience, Vol. 10, No. 2, 02.2013, p. 334-340.

Research output: Contribution to journal › Article › Scientific › peer-review

Networking of ionic liquid modified CNTs in SSBR. / Subramaniam, Kalaivani; Das, Amit; Simon, Frank; Heinrich, Gert.

In: European Polymer Journal, Vol. 49, No. 2, 02.2013, p. 345-352.

Research output: Contribution to journal › Article › Scientific › peer-review

A 'clusters-in-liquid' method for calculating infrared spectra identifies the proton-transfer mode in acidic aqueous solutions. / Kulig, Waldemar; Agmon, Noam.

In: Nature Chemistry, Vol. 5, No. 1, 01.2013, p. 29-35.

Research output: Contribution to journal › Article › Scientific › peer-review

Improving the effect of a nanoscale barrier coating on BOPP film properties by surface pretreatments. / Lahtinen, Kimmo; Lahti, Johanna; Johansson, Petri; Seppänen, Tarja; Cameron, David C.

14th European PLACE Conference 2013. Vol. 1 TAPPI Press, 2013. p. 469-493.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Molecular mechanism of T-cell protein tyrosine phosphatase (TCPTP) activation by mitoxantrone. / Ylilauri, Mikko; Mattila, Elina; Nurminen, Elisa M.; Käpylä, Jarmo; Niinivehmas, Sanna P.; Määttä, Juha A.; Pentikäinen, Ulla; Ivaska, Johanna; Pentikäinen, Olli T.

In: *Biochimica et biophysica acta: proteins and proteomics*, Vol. 1834, No. 10, 2013, p. 1988-1997.

Research output: Contribution to journal › Article › Scientific › peer-review

New reports on anti-bacterial and anti-candidal activities of fatty acid methyl esters (FAME) obtained from *Scenedesmus bijugatus* var. *bicellularis* biomass. / Mubarakali, Davoodbasha; Praveenkumar, Ramasamy; Shenbagavalli, Thiyagarajan; Mari Nivetha, Thayalan; Parveez Ahamed, Abdulazees; Al-Dhabi, Naif Abdullah; Thajuddin, Nooruddin.

In: *RSC Advances*, Vol. 2, No. 30, 28.11.2012, p. 11552-11556.

Research output: Contribution to journal › Article › Scientific › peer-review

Semiclassical hybrid approach to condensed phase molecular dynamics : Application to the I_2Kr_{17} cluster. / Buchholz, Max; Goletz, Christoph Marian; Grossmann, Frank; Schmidt, Burkhard; Heyda, Jan; Jungwirth, Pavel.

In: *Journal of Physical Chemistry A*, Vol. 116, No. 46, 26.11.2012, p. 11199-11210.

Research output: Contribution to journal › Article › Scientific › peer-review

Peptide salt bridge stability : From gas phase via microhydration to bulk water simulations. / Pluhaová, Eva; Marsalek, Ondrej; Schmidt, Burkhard; Jungwirth, Pavel.

In: *Journal of Chemical Physics*, Vol. 137, No. 18, 185101, 14.11.2012.

Research output: Contribution to journal › Article › Scientific › peer-review