

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, M. K., Atashi, A., Sadeghi-Aliabadi, H., Nousiainen, P. & Harlin, A., 1 Sep 2016, In : Journal Nanoscience and Nanotechnology. 16, 9, p. 9000-9007 8 p.

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, O. M., Schenning, A. P. H. J. & Priimagi, A., 2020, In : Journal of Materials Chemistry C. 8, 30, p. 10191-10196 6 p.

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

A Bioscreening Technique for Ultraviolet Irradiation Protective Natural Substances

Tienaho, J., Poikulainen, E., Sarjala, T., Muilu-Mäkelä, R., Santala, V. & Karp, M., 2018, In : Photochemistry and Photobiology. 94, 6, p. 1273-1280

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, J., Martinez-Seara, H., Nencini, R., Kolafa, J., Jungwirth, P. & Ollila, O. H. S., 26 Apr 2018, In : Journal of Physical Chemistry B. 122, 16, p. 4546-4557 12 p.

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

Accurate description of aqueous carbonate ions: An effective polarization model verified by neutron scattering

Mason, P. E., Wernersson, E. & Jungwirth, P., 19 Jul 2012, In : Journal of Physical Chemistry Part B. 116, 28, p. 8145-8153 9 p.

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

Accurate description of calcium solvation in concentrated aqueous solutions

Kohagen, M., Mason, P. E. & Jungwirth, P., 17 Jul 2014, In : Journal of Physical Chemistry Part B. 118, 28, p. 7902-7909 8 p.

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

A Ceramide-Regulated Element in the Late Endosomal Protein LAPT4B Controls Amino Acid Transporter Interaction

Zhou, K., Dichlberger, A., Martinez-Seara, H., Nyholm, T. K. M., Li, S., Kim, Y. A., Vattulainen, I., Ikonen, E. & Blom, T., 23 May 2018, In : ACS Central Science. 4, 5, p. 548-558 11 p.

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

A cluster approach for the SnO₂ (110) face

Rantala, T. S., Lantto, V. & Rantala, T. T., 1994, In : Sensors and Actuators B: Chemical. 19, 1-3, p. 716-719 4 p.

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, W. & Agmon, N., Jan 2013, In : Nature Chemistry. 5, 1, p. 29-35 7 p.

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

A compact olfactometer for IMS measurements and testing human perception

Nieminen, V., Karjalainen, M., Salminen, K., Rantala, J., Kontunen, A., Isokoski, P., Müller, P., Kallio, P., Surakka, V. & Leikkala, J., Sep 2018, In : International Journal for Ion Mobility Spectrometry. 21, 3, p. 71-80 10 p.

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

A comparison of five optical surface topography measurement methods

Mettänen, M. & Hirn, U., 1 Jan 2015, In : TAPPI Journal. 14, 1, p. 27-38 12 p.

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

A comparison of rheology and FTIR in the study of polypropylene and polystyrene photodegradation

Mylläri, V., Ruoko, T-P. & Syrjälä, S., 1 Jul 2015, In : Journal of Applied Polymer Science. 132, 28, 6 p., 42246.

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

A concise synthesis of carbasugars isolated from *Streptomyces lincolnensis*

Holmstedt, S. & Candeias, N. R., 2020, In : Tetrahedron. 6 p., 131346.

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, M., Peltokangas, M. & Vehkaoja, A., 1 Jun 2018, In : Sensors. 18, 6, 1693.

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

Additive manufacturing of monolithic supercapacitors with biopolymer separator

Arvani, M., Keskinen, J., Railanmaa, A., Siljander, S., Björkqvist, T., Tuukkanen, S. & Lupo, D., 1 Jun 2020, In : Journal of Applied Electrochemistry. 50, 6, p. 689-697 9 p.

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

Adsorption of furfural from torrefaction condensate using torrefied biomass

Doddapaneni, T. R. K. C., Jain, R., Praveenkumar, R., Rintala, J., Romar, H. & Konttinen, J., 2018, In : Chemical Engineering Journal. 334, p. 558-568 11 p.

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

A facile route to synthesis of S-doped TiO₂ nanoparticles for photocatalytic activity

McManamon, C., O'Connell, J., Delaney, P., Rasappa, S., Holmes, J. D. & Morris, M. A., 30 May 2015, In : Journal of Molecular Catalysis A: Chemical. 406, p. 51-57!

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

Affine-response model of molecular solvation of ions: Accurate predictions of asymmetric charging free energies

Bardhan, J. P., Jungwirth, P. & Makowski, L., 28 Sep 2012, In : Journal of Chemical Physics. 137, 12, 124101.

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

A finite cluster approach to the electron-hole pair damping of the adsorbate vibration: CO adsorbed on Cu(100)

Rantala, T. T., Rosén, A. & Hellsing, B., 1986, In : Journal of Electron Spectroscopy and Related Phenomena. 39, C, p. 173-181 9 p.

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

A Finite Cluster Approach to the Electron-Hole Pair Damping of the Adsorbate Vibration: CO Adsorbed on Cu(100)

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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, J. & Ray, A. K., 2014, In : Journal of Computational and Theoretical Nanoscience. 11, 7, p. 1710-1717 8 p.

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

Alginate microgels created by selective coalescence between core drops paired with an ultrathin shell

Lee, T. Y., Ramasamy, P., Oh, Y. K., Lee, K. & Kim, S. H., 2016, In : Journal of Materials Chemistry B. 4, 19, p. 3232-3238 7 p.

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

Alpha radiation-induced luminescence by am-241 in aqueous nitric acid solution

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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, H., Louie, M. W., Singh, M. R., Li, L., Sanchez Casalongue, H. G., Ogasawara, H., Crumlin, E. J., Liu, Z., Bell, A. T., Nilsson, A. & Friebel, D., 4 Feb 2016, In : Journal of Physical Chemistry C. 120, 4, p. 2247-2253 7 p.

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

A microscopic view of the mechanisms of active transport across the cellular membrane

Enkavi, G., Li, J., Wen, P., Thangapandian, S., Moradi, M., Jiang, T., Han, W. & Tajkhorshid, E., 2014, In : Annual Reports in Computational Chemistry. 10, p. 77-125 49 p.

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, T., Andrade, J., Nunes, A., Ntungwe, E., Fernandes, A. S., Vale, J. R., Rodrigues, J., Gomes, J. P., Rijo, P. & Candeias, N. R., 29 Nov 2018, In : ACS Omega. 3, 11, p. 16191-16202 12 p.

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, A., Mzezewa, R., Sukki, L., Ryyänen, T., Kreutzer, J., Hyvärinen, T., Vinogradov, A., Aarnos, L., Lekkala, J., Kallio, P. & Narkilahti, S., 2020, In : Biosensors and Bioelectronics. 168, 10 p., 112553.

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

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

Analysis of free, mono- and diacetylated polyamines from human urine by LC-MS/MS

Häkkinen, M. R., Roine, A., Auriola, S., Tuokko, A., Veskimäe, E., Keinänen, T. A., Lehtimäki, T., Oksala, N. & Vepsäläinen, J., 15 Dec 2013, In : JOURNAL OF CHROMATOGRAPHY B: ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES. 941, p. 81-89 9 p.

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

Puustinen, J., Hilska, J. & Guina, M., 1 Apr 2019, In : Journal of Crystal Growth. 511, p. 33-41 9 p.

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

Analytical Expressions for Spring Constants of Capillary Bridges and Snap-in Forces of Hydrophobic Surfaces

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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., 2019, In : Computational Materials Science. 156, p. 121-128 8 p.

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

An electro-optically tunable Bragg reflector based on liquid crystals

Gilardi, G., Asquini, R., D'Alessandro, A. & Assanto, G., 2011, In : Molecular Crystals and Liquid Crystals. 549, p. 62-68 7 p.

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

Anomalous Auger-electron spectra of metallic calcium

Väyrynen, J., Rantala, T. T., Minni, E. & Suoninen, E., 1983, In : Journal of Electron Spectroscopy and Related Phenomena. 31, 3, p. 293-305 13 p.

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

A novel thermotropic elastomer based on highly-filled LDH-SSB composites

Das, A., George, J. J., Kutlu, B., Leuteritz, A., Wang, D. Y., Rooj, S., Jurk, R., Rajeshbabu, R., Stöckelhuber, K. W., Galiatsatos, V. & Heinrich, G., 27 Feb 2012, In : Macromolecular Rapid Communications. 33, 4, p. 337-342 6 p.

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

A Pentacene-based Nanotube Displaying Enriched Electrochemical and Photochemical Activities

Kuroda, K., Yazaki, K., Tanaka, Y., Akita, M., Sakai, H., Hasobe, T., Tkachenko, N. V. & Yoshizawa, M., Jan 2019, In : *Angewandte Chemie - International Edition*. 58, 4, p. 1115-1119

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

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

Appropriate pricing policy needed worldwide for improving water services infrastructure

Hukka, J. J. & Katko, T. S., 1 Jan 2015, In : *Journal American Water Works Association*. 107, 1, p. E37-E46

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

Aqueous guanidinium-carbonate interactions by molecular dynamics and neutron scattering: Relevance to ion-protein interactions

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

Architectures and codecs for real-time light field streaming

Kovács, P. T., Zare, A., Balogh, T., Bregovic, R. & Gotchev, A., 1 Jan 2017, In : *Journal of Imaging Science and Technology*. 61, 1, 010403.

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Arrhenius analysis of anisotropic surface self-diffusion on the prismatic facet of ice

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A supramolecular approach to photoresponsive thermo/solvoplastic block copolymer elastomers

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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, F. M. F., Rosa, J. N., Candeias, N. R., Carvalho, C. P., Matos, A. I., Ventura, A. E., Florindo, H. F., Silva, L. C., Pischel, U. & Gois, P. M. P., 2016, In : *Chemistry: A European Journal*. 22, 5, p. 1631-1637

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

Atomic-level characterization of transport cycle thermodynamics in the glycerol-3-phosphate: Phosphate antiporter

Moradi, M., Enkavi, G. & Tajkhorshid, E., 29 Sep 2015, In : *Nature Communications*. 6, 8393.

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

Azobenzene photomechanics: Prospects and potential applications

Mahimwalla, Z., Yager, K. G., Mamiya, J. I., Shishido, A., Priimagi, A. & Barrett, C. J., Nov 2012, In : *Polymer Bulletin*. 69, 8, p. 967-1006 40 p.

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

Azopolymer-based micro- and nanopatterning for photonic applications

Priimagi, A. & Shevchenko, A., 1 Feb 2014, In : *Journal of Polymer Science. Part B, Polymer Physics*. 52, 3, p. 163-182 20 p.

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

Ballistic and numerical simulation of impacting goods on conveyor belt rubber

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

Batch dark fermentative hydrogen production from grass silage: The effect of inoculum, pH, temperature and VS ratio

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

Bayesian inversion of a forest reflectance model using Sentinel-2 and Landsat 8 satellite images

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Beaming random lasers with soliton control

Perumbilavil, S., Piccardi, A., Barboza, R., Buchnev, O., Kauranen, M., Strangi, G. & Assanto, G., 1 Dec 2018, In : Nature Communications. 9, 1, 7 p., 3863.

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Behavior of 4-hydroxynonenal in phospholipid membranes

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

Behavior of the DPH fluorescence probe in membranes perturbed by drugs

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

Behavior of β -amyloid 1-16 at the air-water interface at varying pH by nonlinear spectroscopy and molecular dynamics simulations

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

Benchmarking DFT methods with small basis sets for the calculation of halogen-bond strengths

Siiskonen, A. & Priimägi, A., 1 Feb 2017, In : Journal of Molecular Modeling. 23, 2, 50.

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

Bi-directional cell-pericellular matrix interactions direct stem cell fate

Ferreira, S. A., Motwani, M. S., Faull, P. A., Seymour, A. J., Yu, T. T. L., Enayati, M., Taheem, D. K., Salzlechner, C., Haghghi, T., Kania, E. M., Oommen, O. P., Ahmed, T., Loaiza, S., Parzych, K., Dazzi, F., Varghese, O. P., Festy, F., Grigoriadis, A. E., Auner, H. W., Snijders, A. P., Bozec, L. & Gentleman, E., Dec 2018, In : Nature Communications. 9, 1, 12 p., 4049.

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 H_2O_2 Using Low-Intensity Direct Current

Kekonen, A., Bergelin, M., Johansson, M., Kumar Joon, N., Bobacka, J. & Viik, J., 31 May 2019, In : Sensors. 19, 11

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, L. C., Nancharaiah, Y. V., Lu, S., van Hullebusch, E. D., Gerlach, R. & Lens, P. N. L., 1 Nov 2018, In : Chemosphere. 211, p. 684-693 10 p.

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

Biomimetic surface modification of polycarbonateurethane film via phosphorylcholine-graft for resisting platelet adhesion

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Biomimetic zinc chlorin-poly(4-vinylpyridine) assemblies: Doping level dependent emission-absorption regimes

Pale, V., Nikkonen, T., Vapaavuori, J., Kostiaainen, M., Kavakka, J., Selin, J., Tittonen, I. & Helaja, J., 21 Mar 2013, In : *Journal of Materials Chemistry C*. 1, 11, p. 2166-2173 8 p.

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, S., Deswal, D., Karp, M. & Kuhad, R. C., 15 May 2014, In : *Fuel*. 124, p. 183-189 7 p.

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

Block co-polymers for nanolithography: Rapid microwave annealing for pattern formation on substrates

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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

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

Bringing a Molecular Plus One: Synergistic Binding Creates Guest-Mediated Three-Component Complexes

Taimoory, S. M., Twum, K., Dashti, M., Pan, F., Lahtinen, M., Rissanen, K., Puttreddy, R., Trant, J. F. & Beyeh, N. K., 2020, In : *Journal of Organic Chemistry*. 85, 9, p. 5884-5894 11 p.

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

Buckling Behavior of Cold-Formed Studs with Thermal Perforations

Garifullin, M., Sinelnikov, A., Bronzova, M., Kovacic, B. & Kamnik, R., 11 Aug 2016, In : *MATEC Web of Conferences*. 73, 04011.

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Calcium Directly Regulates Phosphatidylinositol 4,5-Bisphosphate Headgroup Conformation and Recognition

Bilkova, E., Pleskot, R., Rissanen, S., Sun, S., Czogalla, A., Cwiklik, L., Róg, T., Vattulainen, I., Cremer, P. S., Jungwirth, P. & Coskun, Ü., 22 Mar 2017, In : *Journal of the American Chemical Society*. 139, 11, p. 4019-4024 6 p.

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

Calculation of the molecular ordering parameters of (±)-3-butyn-2-ol dissolved in an organic solution of poly(γ-benzyl-L-glutamate)

Lesot, P., Merlet, D., Courtieu, J., Emsley, J. W., Rantala, T. T. & Jokisaari, J., 31 Jul 1997, In : *Journal of Physical Chemistry A*. 101, 31, p. 5719-5724 6 p.

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

Carbazole-based small molecule electron donors: Syntheses, characterization, and material properties

Sippola, R. J., Hadipour, A., Kastinen, T., Vivo, P., Hukka, T. I., Aernouts, T. & Heiskanen, J. P., 8 Nov 2017, In : *Dyes and Pigments*. 150, p. 79-88 10 p., j.dyepig.2017.11.014.

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

Carbon nanotubes-filled thermoplastic polyurethane-urea and carboxylated acrylonitrile butadiene rubber blend nanocomposites

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Catalytic Activity of AuCu Clusters on MgO(100): Effect of Alloy Composition for CO Oxidation

Ma, L., Laasonen, K. & Akola, J., 25 May 2017, In : Journal of Physical Chemistry C. 121, 20, p. 10876-10886 11 p.

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., 15 Jun 2015, In : Fuel. 150, p. 464-472 9 p.

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

Cation-specific effects on enzymatic catalysis driven by interactions at the tunnel mouth

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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, M. E., Totlandsdal, A. I., Tzankiozis, T., Leseman, D. L. A. C., Samaras, Z., Låg, M., Schwarze, P., Ntziachristos, L. & Cassee, F. R., 4 Jun 2013, In : Environmental Science and Technology. 47, 11, p. 5931-5938 8 p.

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

Characterisation of novel regenerated cellulosic, viscose, and cotton fibres and the dyeing properties of fabrics

Kampuri, T., Vehviläinen, M., Puolakka, A., Honkanen, M., Vippola, M. & Rissanen, M., 2015, In : Coloration Technology. 131, 5, p. 396-402 7 p.

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

Characteristics of nFOG, an aerosol-based wet thin film coating technique

Harra, J., Tuominen, M., Juuti, P., Rissler, J., Koivuluoto, H., Haapanen, J., Niemelä-Anttonen, H., Stenroos, C., Teisala, H., Lahti, J., Kuusipalo, J., Vuoristo, P. & Mäkelä, J. M., May 2018, In : Journal of Coatings Technology Research. 15, 3, p. 623-632 10 p.

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

Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings

Kiilakoski, J., Langlade, C., Koivuluoto, H. & Vuoristo, P., 15 Aug 2019, In : Surface and Coatings Technology. 371, p. 245-254

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

Charge carrier dynamics in tantalum oxide overlayered and tantalum doped hematite photoanodes

Ruoko, T-P., Hiltunen, A., Iivonen, T., Ulkuniemi, R., Lahtonen, K., Ali-Löyty, H., Mizohata, K., Valden, M., Leskelä, M. & Tkachenko, N. V., Jan 2019, In : Journal of Materials Chemistry A. 7, 7, p. 3206-3215 10 p.

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

Chasing charge localization and chemical reactivity following photoionization in liquid water

Marsalek, O., Elles, C. G., Pieniazek, P. A., Pluhaov, E., Vandevondele, J., Bradforth, S. E. & Jungwirth, P., 14 Dec 2011, In : Journal of Chemical Physics. 135, 22, 224510.

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, A. T., Hong, S. H., Caglayan, H., Ye, X., Diroll, B. T., Paik, T., Engheta, N., Murray, C. B. & Kagan, C. R., 13 Feb 2013, In : Nano Letters. 13, 2, p. 350-357 8 p.

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

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Di Capua, F., Papiro, S., Lens, P. N. L. & Esposito, G., 2015, In : Chemical Engineering Journal. 280, p. 643-657 15 p.

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

Chlorine induced high-temperature corrosion mechanisms in HVOF and HVAF sprayed Cr₃C₂-based hardmetal coatings
Fantozzi, D., Matikainen, V., Uusitalo, M., Koivuluoto, H. & Vuoristo, P., 14 Aug 2019, In : Corrosion Science. 108166.
Research output: Contribution to journal › Article › Scientific › peer-review

Cholesterol driven alteration of the conformation and dynamics of phospholamban in model membranes
Manna, M. & Mukhopadhyay, C., 7 Dec 2011, In : Physical Chemistry Chemical Physics. 13, 45, p. 20188-20198 11 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Cholesterol oxidation products and their biological importance
Kulig, W., Cwiklik, L., Jurkiewicz, P., Rog, T. & Vattulainen, I., 2016, In : Chemistry and Physics of Lipids. 199, p. 144-160 17 p.
Research output: Contribution to journal › Article › Scientific › peer-review

ClothFace: A Batteryless RFID-Based Textile Platform for Handwriting Recognition
He, H., Chen, X., Mehmood, A., Raivio, L., Huttunen, H., Raunonen, P. & Virkki, J., 28 Aug 2020, In : Sensors (Basel, Switzerland). 20, 17, 12 p., 4878.
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Collective excitations and viscosity in liquid Bi
Ropo, M., Akola, J. & Jones, R. O., 14 Nov 2016, In : Journal of Chemical Physics. 145, 18, 184502.
Research output: Contribution to journal › Article › Scientific › peer-review

Comparison and impact of different fiber debond techniques on fiber reinforced flexible composites
Beter, J., Schrittester, B., Maroh, B., Sarlin, E., Fuchs, P. F. & Pinter, G., 2020, In : Polymers. 12, 2, 11 p., 472.
Research output: Contribution to journal › Article › Scientific › peer-review

Comparison of different cationized proteins as biomaterials for nanoparticle-based ocular gene delivery
Zorzi, G. K., Párraga, J. E., Seijo, B. & Sanchez, A., 1 Nov 2015, In : Colloids and Surfaces B: Biointerfaces. 135, p. 533-541 9 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Comparison of starch and gelatin hydrogels for non-toxic supercapacitor electrolytes
Railanmaa, A., Lehtimäki, S. & Lupo, D., 1 Jun 2017, In : Applied Physics A-Materials Science and Processing. 123, 6, 459.
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, N. D., Kapgate, B. P., Das, C., Das, A., Basu, D. & Debnath, S. C., 2016, In : JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY. 80, 2, p. 548-559 12 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Complex Behavior of Phosphatidylcholine-Phosphatidic Acid Bilayers and Monolayers: Effect of Acyl Chain Unsaturation
Kulig, W., Korolainen, H., Zatorska, M., Kwolek, U., Wydro, P., Kepczynski, M. & Róg, T., 30 Apr 2019, In : Langmuir. 35, 17, p. 5944-5956 13 p.
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, M., Koivisto, J., Hukka, T., Hokka, M. & Kellomäki, M., 11 Apr 2018, In : ACS Applied Materials & Interfaces. 10, 14, p. 11950-11960
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
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Research output: Contribution to journal › Article › Scientific › peer-review

Compounding and characterization of recycled multilayer plastic films

Jönkkäri, I., Poliakova, V., Mylläri, V., Anderson, R., Andersson, M. & Vuorinen, J., 2020, In : Journal of Applied Polymer Science. 8 p., e49101.

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

Computational approaches to the chemical sensitivity of semiconducting tin dioxide

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Computation of Dynamic Polarizabilities and van der Waals Coefficients from Path-Integral Monte Carlo

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

Concentration-dependent photophysical switching in mixed self-assembled monolayers of pentacene and perylene-3,4,9,10-tetracarboxylic diimide on gold nanoclusters

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

Conductivity control via minimally invasive anti-Frenkel defects in a functional oxide

Evans, D. M., Holstad, T. S., Mosberg, A. B., Småbråten, D. R., Vullum, P. E., Dadlani, A. L., Shapovalov, K., Yan, Z., Bourret, E., Gao, D., Akola, J., Torgersen, J., van Helvoort, A. T. J., Selbach, S. M. & Meier, D., 2020, In : Nature Materials. 7 p.

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Configurational Disorder of Water Hydrogen-Bond Network at the Protein Dynamical Transition

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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

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

Controllable Electronic Structures and Photoinduced Processes of Bay-Linked Perylene-3,4,9,10-tetracarboxylic Diimide Dimers and a Ferrocene-Linked Triad

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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

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Control of matrix interferences by the multiple linear regression model in the determination of arsenic, antimony and tin in lead pellets by inductively coupled plasma atomic emission spectrometry

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Convenient extraction method for quantification of thin zinc patina layers

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

CO oxidation catalyzed by neutral and anionic Cu₂₀ clusters: Relationship between charge and activity

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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

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

Coulomb explosion during the early stages of the reaction of alkali metals with water

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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

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Decoding the Morphological Diversity in Two Dimensional Crystalline Porous Polymers by Core Planarity Modulation
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Research output: Contribution to journal > Article > Scientific > peer-review

Decomposition of persistent luminescent microparticles in corrosive phosphate glass melt
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Research output: Contribution to journal > Article > Scientific > peer-review

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

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

Design aspects of all atomic layer deposited $TiO_2-Fe_2O_3$ scaffold-absorber photoanodes for water splitting
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Design of a 25 MWe Solar Thermal Power Plant in Iran with Using Parabolic Trough Collectors and a Two-Tank Molten Salt Storage System
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Research output: Contribution to journal > Article > Scientific > peer-review

Detection and characterization at nM concentration of oligomers formed by hIAPP, $A\beta(1-40)$ and their equimolar mixture using SERS and MD simulations
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Research output: Contribution to journal > Article > Scientific > peer-review

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Detection of DNA hybridisation in a diluted serum matrix by surface plasmon resonance and film bulk acoustic resonators

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

Detergent impurity effect on recycled HDPE: Properties after repetitive processing

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

Development and characterization of poly(ϵ -caprolactone) hollow fiber membranes for vascular tissue engineering

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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

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

DFT simulations and microkinetic modelling of 1-pentyne hydrogenation on Cu₂₀ model catalysts

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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

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

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DoGlycans-Tools for Preparing Carbohydrate Structures for Atomistic Simulations of Glycoproteins, Glycolipids, and Carbohydrate Polymers for GROMACS

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

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

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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

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

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

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

Effect of incorporation of CdS NPs on performance of PTB7: PCBM organic solar cells

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

Effect of ionic liquid on dielectric, mechanical and dynamic mechanical properties of multi-walled carbon nanotubes/polychloroprene rubber composites

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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

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

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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

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Effect of rheological properties of dissolved cellulose/microfibrillated cellulose blend suspensions on film forming

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Effect of spraying parameters on the microstructural and corrosion properties of HVOF-sprayed Fe-Cr-Ni-B-C coatings

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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

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Effect of surfactant type and sonication energy on the electrical conductivity properties of nanocellulose-CNT nanocomposite films

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

Effect of tungsten and selenium on C_1 gas bioconversion by an enriched anaerobic sludge and microbial community analysis

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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

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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, L., Karjalainen, P., Heikkilä, J., Saari, S., Tzamkiozis, T., Ntziachristos, L., Kulmala, K., Keskinen, J. & Rönkkö, T., 17 Mar 2015, In : Environmental Science and Technology. 49, 6, p. 3644-3652 9 p.

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., 2017, In : Physical Chemistry Chemical Physics. 19, 16, p. 10511-10517 7 p.

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

Effects of pyrolysis temperature on the hydrologically relevant porosity of willow biochar

Hyväluoma, J., Hannula, M., Arstila, K., Wang, H., Kulju, S. & Rasa, K., Sep 2018, In : Journal of Analytical and Applied Pyrolysis. 134

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., 24 Aug 2015, In : Journal of Electron Spectroscopy and Related Phenomena. 205, p. 6-9 4 p.

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

Effects of two double bonds on the hydrocarbon interior of a phospholipid bilayer

Hyvönen, M., Ala-Korpela, M., Vaara, J., Rantala, T. T. & Jokisaari, J., 24 Nov 1995, In : Chemical Physics Letters. 246, 3, p. 300-306 7 p.

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, W., Tellkamp, T., Stadler, E., Röhricht, F., Näther, C., Puttreddy, R., Rissanen, K., Gescheidt, G. & Herges, R., 2020, In : Angewandte Chemie - International Edition. 59, 35, p. 15081-15086 6 p.

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, N. A., Isokuoritti, J., Efimov, A., Vuorimaa-Laukkanen, E., Tkachenko, N. V. & Laaksonen, T., 2018, In : Chemical Communications. 54, 99, p. 14029-14032 4 p.

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

Efficient production of NV colour centres in nanodiamonds using high-energy electron irradiation

Dantelle, G., Slablab, A., Rondin, L., Lainé, F., Carrel, F., Bergonzo, P., Perruchas, S., Gacoin, T., Treussart, F. & Roch, J. F., Sep 2010, In : Journal of Luminescence. 130, 9, p. 1655-1658 4 p.

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

Efficient surface structuring and photoalignment of supramolecular polymer-azobenzene complexes through rational chromophore design

Vapaavuori, J., Valtavirta, V., Alasaarela, T., Mamiya, J. I., Priimägi, A., Shishido, A. & Kaivola, M., 21 Oct 2011, In : Journal of Materials Chemistry. 21, 39, p. 15437-15441 5 p.

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, A. Y., Köroğlu, E. O., Demir, N. M., Baysoy, D. Y., Özkaya, B. & Çakmakçi, M., 20 Jul 2015, In : Chinese Journal of Catalysis. 36, 7, p. 1068-1076 9 p.

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

Electro-concentration for chemical-free nitrogen capture as solid ammonium bicarbonate

Jermakka, J., Thompson Brewster, E., Ledezma, P. & Freguia, S., 12 Sep 2018, In : Separation and Purification Technology. 203, p. 48-55 8 p.

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, A. K., Ghosh, A., Sawai, P., Pareek, K., Banerjee, S., Das, A., Pötschke, P., Heinrich, G. & Voit, B., 1 Nov 2014, In : Polymer Engineering and Science. 54, 11, p. 2560-2570 11 p.

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

Electronic and structural properties of Si₁₀ cluster

Rantala, T. T., Jelski, D. A. & George, T. F., Jun 1990, In : Journal of Cluster Science. 1, 2, p. 189-200 12 p.

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, M., Hansen, T. W., Jiang, H., Kärkkäinen, M., HUUHTANEN, M., Heikkinen, O., Kallinen, K., Lahtinen, J., Keiski, R. L., Wagner, J. B. & Vippola, M., 1 May 2017, In : Journal of Catalysis. 349, p. 19-29 11 p.

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

Electropolymerized polyazulene as active material in flexible supercapacitors

Suominen, M., Lehtimäki, S., Yewale, R., Damlin, P., Tuukkanen, S. & Kvarnström, C., 15 Jul 2017, In : Journal of Power Sources. 356, p. 181-190 10 p.

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., 20 Aug 2015, In : Journal of Physical Chemistry C. 119, 33, p. 18835-18842 8 p.

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Elemental and mixed actinide dioxides: An ab initio study

Ma, L., Atta-Fynn, R. & Ray, A. K., Jun 2012, In : Journal of Theoretical and Computational Chemistry. 11, 3, p. 611-629 19 p.

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

Elimination of arsenic-containing emissions from gasification of chromated copper arsenate wood

Kramb, J., Konttinen, J., Backman, R., Salo, K. & Roberts, M., 1 Oct 2016, In : Fuel. 181, p. 319-324 6 p.

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, P. T., Novakovic, D., Saarinen, J., van Landeghem, S., Peltonen, L., Laaksonen, T., Isomäki, A. & Strachan, C. J., May 2017, In : Pharmaceutical Research. 34, 5, p. 957-970 14 p.

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

Embedded cluster models for reactivity of the hydrated electron

Uhlig, F. & Jungwirth, P., Nov 2013, In : ZEITSCHRIFT FÜR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY AND CHEMICAL PHYSICS. 227, 11, p. 1583-1593 11 p.

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., 7 Feb 2015, In : CrystEngComm. 17, 5, p. 1182-1188 7 p.

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

Energetic origin of proton affinity to the air/water interface

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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., 1 May 2015, In : HIGH ENERGY CHEMISTRY. 49, 3, p. 211-212 2 p.

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

Energy-dependent diffusion in a soft periodic Lorentz gas

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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, A., Sarlin, E. & Vuorinen, J., 2020, In : Journal of Applied Polymer Science. 15 p.

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Enhanced adsorption of orthophosphate and copper onto hydrochar derived from sewage sludge by KOH activation

Spataru, A., Jain, R., Chung, J. W., Gerner, G., Krebs, R. & Lens, P. N. L., 2016, In : RSC Advances. 6, 104, p. 101827-101834 8 p.

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

Enrichment polymer layers for detection of volatile vapors by ATR FT-IR

Giammarco, J. M., Zdyrko, B., Hu, J., Agarwal, A., Kimerling, L., Carlie, N., Petit, L., Richardson, K. & Luzinov, I., 2011, In : ACS National Meeting Book of Abstracts.

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, S. R., Stöckelhuber, K. W., Subramani Bhagavatheswaran, E., Wießner, S., Scheler, U., Saalwächter, K., Formanek, P., Heinrich, G. & Das, A., 15 Feb 2018, In : Journal of Physical Chemistry B. 122, 6, p. 2010-2022 13 p.

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, A., Bezzateev, S., Voloshina, N., Masek, P. & Komarov, M., 2 Dec 2019, In : Sensors (Switzerland). 19, 24, 19 p., 5548.

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

Epitaxial phases of high Bi content GaSbBi alloys

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

Equipment for obtaining polymeric nanofibres by electrospinning technology: II. The obtaining of polymeric nanofibers

Manea, L. R., Cramariuc, B., Popescu, V., Cramariuc, R., Sandu, I. & Cramariuc, O., 1 Jun 2015, In : Materiale Plastice. 52, 2, p. 180-185 6 p.

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

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Cherstvy, A. G. & Metzler, R., 14 Apr 2015, In : Journal of Chemical Physics. 142, 14, 144105.

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., Ojala, N., Koivuluoto, H., Schubert, J., Houdková & Vuoristo, P., 25 Jul 2019, In : Surface and Coatings Technology. 370, p. 196-212 17 p.

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

Evaluation of dry electrodes in canine heart rate monitoring

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

Excited-state polarizability in crystalline sexithiophene: Charge-transfer and vibronic effects

Stradomska, A., Kulig, W., Slawik, M. & Petelenz, P., 9 Mar 2012, In : Chemical Physics Letters. 529, p. 27-30 4 p.

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

Exclusive occurrence of photoinduced energy transfer and switching of its direction by rectangular π -extension of nanographenes

Umeyama, T., Hanaoka, T., Yamada, H., Namura, Y., Mizuno, S., Ohara, T., Baek, J., Park, J., Takano, Y., Stranius, K., Tkachenko, N. V. & Imahori, H., 2019, In : Chemical Science. 10, 27, p. 6642-6650 9 p.

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

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

Experimental and theoretical study of the spin-spin coupling tensors in methylsilane

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

Experimental study on axially loaded square hollow section T-joints under fire conditions

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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, S. B., Basu, D., Vaikuntam, S. R., Kutlu, B., Wiessner, S., Das, A., Naskar, K. & Heinrich, G., 1 Mar 2015, In : Journal of Applied Polymer Science. 132, 9, 41539.

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

Fabrication of 3-D nanodimensioned electric double layer capacitor structures using block copolymer templates

Rasappa, S., Borah, D., Senthamaraiannan, R., Faulkner, C. C., Holmes, J. D. & Morris, M. A., 2014, In : Journal Nanoscience and Nanotechnology. 14, 7, p. 5221-5227 7 p.

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

Fabrication of a sub-10 nm silicon nanowire based ethanol sensor using block copolymer lithography

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

Fabrication of ssDNA/oligo(ethylene glycol) monolayers and complex nanostructures by an irradiation-promoted exchange reaction

Khan, M. N., Tjong, V., Chilkoti, A. & Zharnikov, M., 8 Oct 2012, In : Angewandte Chemie (International Edition). 51, 41, p. 10303-10306 4 p.

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

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

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

Fast Switching of Bright Whiteness in Channeled Hydrogel Networks

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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., Aburaia, 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., Alia, 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., Andreatza, 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., 1 Jul 2019, In : European Physical Journal: Special Topics. 228, 4, p. 755-1107 353 p.

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, D., Carraro, G., Warwick, M. E. A., Kaunisto, K., Gasparotto, A., Gombac, V., Sada, C., Turner, S., Van Tendeloo, G., Maccato, C. & Fornasiero, P., 28 Aug 2015, In : CrystEngComm. 17, 32, p. 6219-6226 8 p.

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

Feed-hopper level estimation and control in cone crushers

Itävuo, P., Hulthén, E. & Viikko, M., 15 Aug 2017, In : Minerals Engineering. 110, p. 82-95 14 p.

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

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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. & Radusch, H. J., 5 Aug 2015, In : Polymer. 73, p. 111-121 11 p., 18004.

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

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Free amino acids and 5'-nucleotides in Finnish forest mushrooms

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

From a localized H₃O radical to a delocalized H₃O⁺·e⁻ solvent-separated pair by sequential hydration

Uhlig, F., Marsalek, O. & Jungwirth, P., 21 Aug 2011, In : Physical Chemistry Chemical Physics. 13, 31, p. 14003-14009 7 p.

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, C., Ceballos, G., Kasabov, N. & Subramaniam, N. P., 17 Sep 2020, In : Sensors (Switzerland). 20, 18, 27 p., 5328.

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

Geometric Structure and Chemical Ordering of Large AuCu Clusters: A Computational Study

Goh, J-Q., Akola, J. & Ferrando, R., 25 May 2017, In : Journal of Physical Chemistry C. 121, 20, p. 10809-10816 8 p.

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

Geometry controlled anomalous diffusion in random fractal geometries: Looking beyond the infinite cluster

Mardoukhi, Y., Jeon, J-H. & Metzler, R., 2015, In : Physical Chemistry Chemical Physics. 17, 44, p. 30134-30147 14 p.
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Global analysis of human nonreceptor tyrosine kinase specificity using high-density peptide microarrays

Deng, Y., Alicea-Velázquez, N. L., Bannwarth, L., Lehtonen, S. I., Boggon, T. J., Cheng, H. C., Hytönen, V. P. & Turk, B. E., 3 Oct 2014, In : Journal of Proteome Research. 13, 10, p. 4339-4346 8 p.
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, S. S., Joshi, K. A., Mahajan, K., Patil, S., Tomar, G., Dubal, D. S., Parihar, V. S., Kitture, R., Bellare, J. R. & Ghosh, S., 2018, In : Bioinorganic Chemistry and Applications. 2018, 4924186.
Research output: Contribution to journal > Article > Scientific > peer-review

Glycerol mediated synthesis of 5-substituted 1H-tetrazole under catalyst free conditions

Nandre, K. P., Salunke, J. K., Nandre, J. P., Patil, V. S., Borse, A. U. & Bhosale, S. V., Feb 2012, In : Chinese Chemical Letters. 23, 2, p. 161-164 4 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Grain orientation dependent Nb-Ti microalloying mediated surface segregation on ferritic stainless steel

Ali-Löytty, H., Hannula, M., Honkanen, M., Östman, K., Lahtonen, K. & Valden, M., Nov 2016, In : Corrosion Science. 112, p. 204-213
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., 13 Nov 2015, In : RSC Advances. 5, 123, p. 101401-101407 7 p.
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Growth behavior and magnetic properties of spherical uranium oxide nanoclusters

Ma, L. & Ray, A. K., Feb 2013, In : Journal of Computational and Theoretical Nanoscience. 10, 2, p. 334-340 7 p.
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Guanidinium Pairing Facilitates Membrane Translocation

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

Halogen bonding versus hydrogen bonding in driving self-assembly and performance of light-responsive supramolecular polymers

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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., 2016, In : Journal of Thermal Analysis and Calorimetry. 123, 1, p. 401-407 7 p.
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

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

Hexaphyrin as a Potential Theranostic Dye for Photothermal Therapy and ^{19}F Magnetic Resonance Imaging

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

Hierarchical Self-Assembly of Halogen-Bonded Block Copolymer Complexes into Upright Cylindrical Domains

Milani, R., Houbenov, N., Fernandez-Palacio, F., Cavallo, G., Luzio, A., Haataja, J., Giancane, G., Saccone, M., Priimägi, A., Metrangolo, P. & Ikkala, O., 9 Mar 2017, In : Chem. 2, 3, p. 417-426 10 p.

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

High Bending-Mode Sensitivity of Printed Piezoelectric Poly(vinylidene fluoride- co-trifluoroethylene) Sensors

Rajala, S., Schouten, M., Krijnen, G. & Tuukkanen, S., 23 Jul 2018, In : ACS Omega. 3, 7, p. 8067-8073 7 p.

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

Highly exfoliated natural rubber/Clay composites by "propping-open procedure": The influence of fatty-acid chain length on exfoliation

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High Nitrogen Removal in a Constructed Wetland Receiving Treated Wastewater in a Cold Climate

Uusheimo, S., Huotari, J., Tulonen, T., Aalto, S. L., Rissanen, A. J. & Arvola, L., 20 Nov 2018, In : Environmental science & technology. 52, 22, p. 13343-13350 8 p.

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, S., Caridad, J. M., Schulte, L., Cagliani, A., Borah, D., Morris, M. A., Bøggild, P. & Ndoni, S., 29 Jul 2015, In : RSC Advances. 5, 82, p. 66711-66717 7 p.

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, S., Halonen, L., Karhu, J., Tomberg, T., Metsälä, M., Genoud, G., Hieta, T., Bell, S. & Vainio, M., 2020, In : Chemical Physics Letters. 750, 5 p., 137488.

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

High-resolution coded-aperture design for compressive X-ray tomography using low resolution detectors

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

High temperature corrosion of thermally sprayed NiCr and FeCr coatings covered with a $\text{KCl-K}_2\text{SO}_4$ salt mixture

Varis, T., Bankiewicz, D., Yrjas, P., Oksa, M., Suhonen, T., Tuurna, S., Ruusuvoori, K. & Holmström, S., 15 Mar 2015, In : Surface and Coatings Technology. 265, p. 235-243 9 p.

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High-Yield Excited Triplet States in Pentacene Self-Assembled Monolayers on Gold Nanoparticles through Singlet Exciton Fission

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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, H., Inaya, R., Tkachenko, N. V. & Hasobe, T., 16 Nov 2018, In : Chemistry - A European Journal. 24, 64, p. 17062-17071 10 p.

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

Host-Guest Interactions of Sodiamsulfonatomethyleneresorcinarene and Quaternary Ammonium Halides: An Experimental-Computational Analysis of the Guest Inclusion Properties

Twum, K., Rautiainen, J. M., Yu, S., Truong, K. N., Feder, J., Rissanen, K., Puttreddy, R. & Beyeh, N. K., 1 Apr 2020, In : *Crystal Growth and Design*. 20, 4, p. 2367-2376 10 p.

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How conformational flexibility stabilizes the hyperthermophilic elongation factor G-domain

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How large are nonadiabatic effects in atomic and diatomic systems?

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How well can we predict cluster fragmentation inside a mass spectrometer?

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Human adipose stem cells in chondrogenic differentiation medium without growth factors differentiate towards annulus fibrosus phenotype in vitro

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Hydration of hydroxyl and amino groups examined by molecular dynamics and neutron scattering

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Hydration of the chloride ion in concentrated aqueous solutions using neutron scattering and molecular dynamics

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Hydrolysis and drug release from poly(ethylene glycol)-modified lactone polymers with open porosity

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ILC1 drive intestinal epithelial and matrix remodelling

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Immobilized bioactive agents onto polyurethane surface with heparin and phosphorylcholine group

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Improving the high temperature abrasion resistance of thermally sprayed Cr₃C₂-NiCr coatings by WC addition

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Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials: implications for testing and risk assessment

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Kinetics and modelling of thiosulphate biotransformations by haloalkaliphilic Thioalkalivibrio versutus

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Large-scale efficient water harvesting using bioinspired micro-patterned copper oxide nanoneedle surfaces and guided droplet transport

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Light-fuelled transport of large dendrimers and proteins
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Location of dispersing agent in rubber nanocomposites during mixing process
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Location of the Azobenzene moieties within the cross-linked liquid-crystalline polymers can dictate the direction of photoinduced bending
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London Hybrid Exposure Model: Improving Human Exposure Estimates to NO₂ and PM_{2.5} in an Urban Setting
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Long-Lived Triplet Excited States of Bent-Shaped Pentacene Dimers by Intramolecular Singlet Fission
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Low-dimensional formamidinium lead perovskite architectures via controllable solvent intercalation

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Mechanical, thermal, and burning properties of viscose fabric composites: Influence of epoxy resin modification

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Membrane Binding of Recoverin: From Mechanistic Understanding to Biological Functionality

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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, A., Parkkila, P., Viitala, T., Lajunen, T., Mobarak, E., Licari, G., Cramariuc, O., Vauthey, E., Róg, T. & Bunker, A., 11 Apr 2018, In : Chemical Communications. 54, 28, p. 3440-3443 4 p.

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

Membrane cholesterol access into a G-protein-coupled receptor

Guixà-González, R., Albasanz, J. L., Rodríguez-Espigares, I., Pastor, M., Sanz, F., Martí-Solano, M., Manna, M., Martínez-Seara, H., Hildebrand, P. W., Martín, M. & Selent, J., 21 Feb 2017, In : Nature Communications. 8, 14505.

Research output: Contribution to journal > Article > 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, J., Karonen, M., Muilu-Mäkelä, R., Wähälä, K., Denegri, E. L., Franzén, R., Karp, M., Santala, V. & Sarjala, T., 2019, In : Molecules. 24, 12, 2330.

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

Metal chalcogenide quantum dots: Biotechnological synthesis and applications

Mal, J., Nanchaiah, Y. V., Van Hullebusch, E. D. & Lens, P. N. L., Apr 2016, In : RSC Advances. 6, 47, p. 41477-41495 19 p.

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

Methods for simultaneous robot-world-hand–eye calibration: A comparative study

Ali, I., Suominen, O., Gotchev, A. & Morales, E. R., 2 Jun 2019, In : Sensors (Switzerland). 19, 12, 2837.

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, L. B., Dehmer, M. & Emmert-Streib, F., 1 Feb 2018, In : Symmetry. 10, 2, 48.

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, M. G., Soboleva, I. V., Durandin, N. A., Lisitsyna, E. S. & Kuzmin, V. A., 17 Apr 2014, In : Journal of Physical Chemistry Part B. 118, 15, p. 4245-4252 8 p.

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Microwave assisted laser-induced breakdown spectroscopy at ambient conditions

Viljanen, J., Sun, Z. & Alwahabi, Z. T., 1 Apr 2016, In : Spectrochimica Acta Part B: Atomic Spectroscopy. 118, p. 29-36 8 p.

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., Kreuzer, J., Auvinen, S. & Kallio, P., 1 Dec 2015, In : Chemical Engineering Science. 137, p. 515-524 10 p.

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

Modeling photoionization of aqueous DNA and its components

Pluhařová, E., Slavíček, P. & Jungwirth, P., 19 May 2015, In : Accounts of Chemical Research. 48, 5, p. 1209-1217 9 p.

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

Modelling of a pressure swing adsorption unit by deep learning and artificial Intelligence tools

Oliveira, L. M. C., Koivisto, H., Iwakiri, I. G. I., Loureiro, J. M., Ribeiro, A. M. & Nogueira, I. B. R., 2020, In : Chemical Engineering Science. 224, 115801.

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Modification of epoxy resin by silane-coupling agent to improve tensile properties of viscose fabric composites

Rajan, R., Rainosalu, E., Thomas, S. P., Ramamoorthy, S. K., Zavašnik, J., Vuorinen, J. & Skrifvars, M., 2018, In : Polymer Bulletin. 75, 1, p. 167-195 29 p.

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

Modification of Surface States of Hematite-Based Photoanodes by Submonolayer of TiO₂ for Enhanced Solar Water Splitting

Palmolahti, L., Ali-Löyty, H., Khan, R., Saari, J., Tkachenko, N. V. & Valden, M., 2020, In : Journal of Physical Chemistry C. 124, 24, p. 13094-13101 8 p.

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Moiré superlattices and 2D electronic properties of graphite/MoS₂ heterostructures

Trainer, D. J., Putilov, A. V., Wang, B., Lane, C., Saari, T., Chang, T. R., Jeng, H. T., Lin, H., Xi, X., Nieminen, J., Bansil, A. & Iavarone, M., May 2019, In : Journal of Physics and Chemistry of Solids. 128, p. 325-330

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

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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

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Molecular Docking Studies of Royleanone Diterpenoids from *Plectranthus* spp. as P-Glycoprotein Inhibitors

Isca, V. M. S., Ferreira, R. J., Garcia, C., Monteiro, C. M., Dinic, J., Holmstedt, S., André, V., Pesic, M., Dos Santos, D. J. V. A., Candeias, N. R., Afonso, C. A. M. & Rijo, P., 14 May 2020, In : ACS MEDICINAL CHEMISTRY LETTERS. 11, 5, p. 839-845 7 p.

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Molecular dynamics simulations of the interactions of kinin peptides with an anionic POPG bilayer

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Molecularly functionalized silicon substrates for orientation control of the microphase separation of PS-b-PMMA and PS-b-PDMS block copolymer systems

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Molecular mechanism of T-cell protein tyrosine phosphatase (TCPTP) activation by mitoxantrone

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Molekuly a ionty v pohybu: Počítačové simulace biochemických a biofyzikálních procesů

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Monitoring Charge Carrier Diffusion across a Perovskite Film with Transient Absorption Spectroscopy

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

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Multifunctional nitrogen sulfur co-doped reduced graphene oxide – Ag nano hybrids (sphere, cube and wire) for nonlinear optical and SERS applications

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Multiphoton Excitation of CsPbBr₃ Perovskite Quantum Dots (PQDs): How Many Electrons Can One PQD Donate to Multiple Molecular Acceptors?

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Multiresonant High-Q Plasmonic Metasurfaces

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Mutational spectra of Salmonella typhimurium revertants induced by chlorohydroxyfuranones, byproducts of chlorine disinfection of drinking water

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Natural thermal adaptation increases heat shock protein levels and decreases oxidative stress

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New reports on anti-bacterial and anti-candidal activities of fatty acid methyl esters (FAME) obtained from *Scenedesmus bijugatus* var. *bicellularis* biomass

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Nonlinear Optical Properties of Fluorescent Dyes Allow for Accurate Determination of Their Molecular Orientations in Phospholipid Membranes

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On describing the optoelectronic characteristics of poly(benzodithiophene-: Co -quinoxaline)-fullerene complexes: The influence of optimally tuned density functionals

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On the alignment of ZnO nanowires by Langmuir – Blodgett technique for sensing application

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Optical Projection Tomography Technique for Image Texture and Mass Transport Studies in Hydrogels Based on Gellan Gum

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Optimization of HVOF Cr₃C₂-NiCr coating for increased fatigue performance

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Oxidation of the GaAs semiconductor at the Al₂O₃/GaAs junction

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Particle emissions characterization from a medium-speed marine diesel engine with two fuels at different sampling conditions

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PEGylated liposomes as carriers of hydrophobic porphyrins

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

Phenothiazine and carbazole substituted pyrene based electroluminescent organic semiconductors for OLED devices

Salunke, J. K., Wong, F. L., Feron, K., Manzhos, S., Lo, M. F., Shinde, D., Patil, A., Lee, C. S., Roy, V. A. L., Sonar, P. & Wadgaonkar, P. P., 7 Feb 2016, In : Journal of Materials Chemistry C. 4, 5, p. 1009-1018 10 p.

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, L., Hiltunen, A., Santala, V. & Efimov, A., 1 Jun 2018, In : Journal of Inorganic Biochemistry. 183, p. 94-100 7 p.

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, A. I., Mikheyli, A. V., Plyusnin, V. F., Shubin, A. A., Grivin, V. P., Larionov, S. V., Tkachenko, N. V. & Lemmetyinen, H., 1 Aug 2019, In : Journal of Photochemistry and Photobiology A: Chemistry. 381, 111857.

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

Photodiagnostic et chirurgie guidés par la fluorescence

Mordon, S. & Bourg-Heckly, G., 1 Jun 2015, In : ACTUALITE CHIMIQUE. 397-398, p. 41-45 5 p.

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

Photoinduced Electron Injection from Zinc Phthalocyanines into Zinc Oxide Nanorods: Aggregation Effects

Virkki, K., Hakola, H., Urbani, M., Tejerina, L., Ince, M., Martínez-Díaz, M. V., Torres, T., Golovanova, V., Golovanov, V. & Tkachenko, N. V., 4 May 2017, In : Journal of Physical Chemistry C. 121, 17, p. 9594-9605 12 p.

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

Photoinduced Electron Transfer in CdSe/ZnS Quantum Dot-Fullerene Hybrids

Virkki, K., Demir, S., Lemmetyinen, H. & Tkachenko, N. V., 23 Jul 2015, In : Journal of Physical Chemistry C. 119, 31, p. 17561-17572 12 p.

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

Photoinduced Energy Transfer in ZnCdSeS Quantum Dot-Phthalocyanines Hybrids

Mandal, S., Garcia Iglesias, M., Ince, M., Torres, T. & Tkachenko, N. V., 31 Aug 2018, In : ACS Omega. 3, 8, p. 10048-10057 10 p.

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

Photomechanical Energy Transfer to Photopassive Polymers through Hydrogen and Halogen Bonds

Vapaavuori, J., Heikkinen, I. T. S., Dichiarante, V., Resnati, G., Metrangolo, P., Sabat, R. G., Bazuin, C. G., Priimagi, A. & Pellerin, C., 27 Oct 2015, In : Macromolecules. 48, 20, p. 7535-7542 8 p.

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

Photo-oxidation of Aromatic Hydrocarbons Produces Low-Volatility Organic Compounds

Wang, M., Chen, D., Xiao, M., Ye, Q., Stolzenburg, D., Hofbauer, V., Ye, P., Vogel, A. L., Mauldin, R. L., Amorim, A., Baccarini, A., Baumgartner, B., Brilke, S., Dada, L., Dias, A., Duplissy, J., Finkenzeller, H., Garmash, O., He, X. C., Hoyle, C. R., Kim, C., Kvashnin, A., Lehtipalo, K., Fischer, L., Molteni, U., Petäjä, T., Pospisilova, V., Quéléver, L. L. J., Rissanen, M., Simon, M., Tauber, C., Tomé, A., Wagner, A. C., Weitz, L., Volkamer, R., Winkler, P. M., Kirkby, J., Worsnop, D. R., Kulmala, M., Baltensperger, U., Dommen, J., El-Haddad, I. & Donahue, N. M., 2020, In : Environmental Science and Technology. 54, 13, p. 7911-7921 11 p.

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

Photophysical properties of porphyrin dimer-single-walled carbon nanotube linked systems

Baek, J., Umeyama, T., Mizuno, S., Tkachenko, N. V. & Imahori, H., 2017, In : Journal of Physical Chemistry C. 121, 39
Research output: Contribution to journal > Article > Scientific > peer-review

Photophysical properties of Sn (IV)tetraphenylporphyrin-pyrene dyad with a β -vinyl linker

Reeta, P. S., Khetubol, A., Jella, T., Chukharev, V., Abou-Chahine, F., Tkachenko, N. V., Giribabu, L. & Lemmetyinen, H., 1 Jan 2015, In : Journal of Porphyrins and Phthalocyanines. 19, 1-3, p. 288-300 13 p.
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, M., Palacio, F. F., Cavallo, G., Dichiarante, V., Virkki, M., Terraneo, G., Priimagi, A. & Metrangolo, P., 2017, In : Faraday Discussions. 203, p. 407-422 16 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Photoresponsive liquid-crystalline polymer films bilayered with an inverse opal structure

Akamatsu, N., Aizawa, M., Tatsumi, R., Hisano, K., Priimägi, A. & Shishido, A., 2016, In : JOURNAL OF PHOTOPOLYMER SCIENCE AND TECHNOLOGY. 29, 1, p. 145-148 4 p.
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Photostable orange-red fluorescent unsymmetrical diketopyrrolopyrrole-BF₂ hybrids

Young, D. C., Tasiar, M., Laurent, A. D., Dobrzycki, Ł., Cyrański, M. K., Tkachenko, N., Jacquemin, D. & Gryko, D. T., Apr 2020, In : Journal of Materials Chemistry C. 8, 23, p. 7708-7717 10 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Photoswitchable hydrogel surface topographies by polymerisation-induced diffusion

Stumpel, J. E., Liu, D., Broer, D. J. & Schenning, A. P. H. J., 2 Jul 2013, In : Chemistry: A European Journal. 19, 33, p. 10922-10927 6 p.
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, L., Dittrich, A., Niemi, J. V., Saarikoski, S., Timonen, H., Kuuluvainen, H., Järvinen, A., Kousa, A., Rönkkö, T. & Hillamo, R., 5 Jan 2016, In : Environmental Science and Technology. 50, 1, p. 294-304 11 p.
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

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

PIP2 and Talin Join Forces to Activate Integrin

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

Polarization resolved photoluminescence in GaAs_{1-x}Bi_x/GaAs quantum wells

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

Polyarginine Interacts More Strongly and Cooperatively than Polylysine with Phospholipid Bilayers

Robison, A. D., Sun, S., Poyton, M. F., Johnson, G. A., Pellois, J. P., Jungwirth, P., Vazdar, M. & Cremer, P. S., 8 Sep 2016, In : Journal of Physical Chemistry Part B. 120, 35, p. 9287-9296 10 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Polymer looping is controlled by macromolecular crowding, spatial confinement, and chain stiffness

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

Polymorph crystal packing effects on charge transfer emission in the solid state

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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)

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

Porphyrin adsorbed on the (1010) surface of the wurtzite structure of ZnO-conformation induced effects on the electron transfer characteristics

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

Positioning information privacy in intelligent transportation systems: An overview and future perspective

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

Possible strategy to use differential mobility spectrometry in real time applications

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

Pot-economy autooxidative condensation of 2-Aryl-2-lithio-1,3-dithianes

Vale, J. R., Rimpiläinen, T., Sievänen, E., Rissanen, K., Afonso, C. A. M. & Candeias, N. R., 16 Feb 2018, In : Journal of Organic Chemistry. 83, 4, p. 1948-1958 11 p.

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Potential energy curves for diatomic molecules calculated with numerical basis functions

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Preferential adsorption of Cu in a multi-metal mixture onto biogenic elemental selenium nanoparticles

Jain, R., Dominic, D., Jordan, N., Rene, E. R., Weiss, S., van Hullebusch, E. D., Hübner, R. & Lens, P. N. L., 2016, In : Chemical Engineering Journal. 284, p. 917-925

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

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Preparation of zinc oxide free, transparent rubber nanocomposites using a layered double hydroxide filler

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Processable aromatic polyesters based on bisphenol derived from cashew nut shell liquid: synthesis and characterization
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Production of sulfonated polyetheretherketone/polypropylene fibers for photoactive textiles

Mylläri, V., Fatarella, E., Ruzzante, M., Pogni, R., Baratto, M. C., Skrifvars, M., Syrjäälä, S. & Järvelä, P., 1 Oct 2015, In : Journal of Applied Polymer Science. 132, 39, 42595.

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Programmable responsive hydrogels inspired by classical conditioning algorithm

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

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Properties of HVOF-sprayed Stellite-6 coatings

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

Quantification of bio-anode capacitance in bioelectrochemical systems using Electrochemical Impedance Spectroscopy

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

Quantifying non-ergodic dynamics of force-free granular gases

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

Quantitative glycoproteomic analysis of optimal cutting temperature-embedded frozen tissues identifying glycoproteins associated with aggressive prostate cancer

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Rapid, Brushless Self-assembly of a PS-b-PDMS Block Copolymer for Nanolithography

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

Rate constant and thermochemistry for $K + O_2 + N_2 = KO_2 + N_2$

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

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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

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

Regeneration of sulfur-poisoned Pd-based catalyst for natural gas oxidation

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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

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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

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Remarkable Dependence of the Final Charge Separation Efficiency on the Donor-Acceptor Interaction in Photoinduced Electron Transfer

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Responsive Polymer Photonics

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Resveratrol interferes with the aggregation of membrane-bound human-IAPP: A molecular dynamics study

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

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Reversible biofunctionalization of surfaces with a switchable mutant of avidin

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

Robust statistical approaches for RSS-based floor detection in indoor localization

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

Role of Internal Water on Protein Thermal Stability: The Case of Homologous G Domains

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

Role of the bridge in photoinduced electron transfer in porphyrin-fullerene dyads

Pelado, B., Abou-Chahine, F., Calbo, J., Caballero, R., delaCruz, P., Junquera-Hernández, J. M., Ortí, E., Tkachenko, N. V. & Langa, F., 2015, In : *Chemistry: A European Journal*. 21, 15, p. 5814-5825 12 p.

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Rotational Diffusion of Membrane Proteins in Crowded Membranes

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Screening pretreatment methods to enhance thermophilic anaerobic digestion of pulp and paper mill wastewater treatment secondary sludge

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

Search for global minimum geometries of medium sized Cd_nTe_n clusters (n = 15, 16, 20, 24 and 28)

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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

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

Second-Harmonic Generation from Metal Nanoparticles: Resonance Enhancement versus Particle Geometry

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

Second-harmonic generation imaging of semiconductor nanowires with focused vector beams

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

Selective hydrogen production at Pt(111) investigated by Quantum Monte Carlo methods for metal catalysis

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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

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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., 21 Dec 2013, In : Journal of Materials Chemistry C. 1, 47, p. 7941-7951 11 p.

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

Semiclassical hybrid approach to condensed phase molecular dynamics: Application to the I_2Kr_{17} cluster

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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, J., Kalmankoski, K., Contreras, V., Sarin, J. K., Sorvajärvi, T., Kinnunen, H., Enestam, S. & Toivonen, J., 18 Jan 2020, In : Sensors (Basel, Switzerland). 20, 2, 14 p., 533.

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Shape-dependent plasmonic response and directed self-assembly in a new semiconductor building block, indium-doped cadmium oxide (ICO)

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

Silver sulfide nanoclusters and the superatom model

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Site-specific analysis of dipole polarizabilities of heterogeneous systems: Iron-doped Si_n (n = 1-14) clusters

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Soft graphoepitaxy for large area directed self-assembly of polystyrene-block-poly(dimethylsiloxane) block copolymer on nanopatterned poss substrates fabricated by nanoimprint lithography

Borah, D., Rasappa, S., Salaun, M., Zellsman, M., Lorret, O., Lontos, G., Ntetsikas, K., Avgeropoulos, A. & Morris, M. A., 1 Jun 2015, In : Advanced Functional Materials. 25, 22, p. 3425-3432 8 p.

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Soft-graphoepitaxy using nanoimprinted polyhedral oligomeric silsesquioxane substrates for the directed self-Assembly of PS-b-PDMS

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Soft hydrazone crosslinked hyaluronan- and alginate-based hydrogels as 3D supportive matrices for human pluripotent stem cell-derived neuronal cells

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Solvation and ion-pairing properties of the aqueous sulfate anion: Explicit versus effective electronic polarization

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Sorption and retention of ethylene glycol monoethyl ether (EGME) on silicas

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Spodumene tailings for porcelain and structural materials: Effect of temperature (1050–1200°C) on the sintering and properties

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

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Strategies To Diminish the Emissions of Particles and Secondary Aerosol Formation from Diesel Engines

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Structural basis of actin monomer re-charging by cyclase-Associated protein

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Sulfonated polyetheretherketone/polypropylene polymer blends for the production of photoactive materials

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Supercritical carbon dioxide treatment of hot dip galvanized steel as a surface treatment before coating

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Syndecan-4 tunes cell mechanics by activating the kindlin-integrin-RhoA pathway

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