

Donadei, V., Koivuluoto, H., Sarlin, E., & Vuoristo, P. (2020). Lubricated icephobic coatings prepared by flame spraying with hybrid feedstock injection. *Surface and Coatings Technology*, 403, [126396]. <https://doi.org/10.1016/j.surfcoat.2020.126396>

Sarlin, E., Honkanen, M., Lindgren, M., Laihonon, P., Juutilainen, M., Vippola, M., & Vuorinen, J. (2020). The effect of substrate pre-treatment on durability of rubber-stainless steel adhesion. *Surfaces and Interfaces*, 21, [100646]. <https://doi.org/10.1016/j.surfin.2020.100646>

Baratto, C., Golovanova, V., Faglia, G., Hakola, H., Niemi, T., Tkachenko, N., ... Golovanov, V. (2020). On the alignment of ZnO nanowires by Langmuir – Blodgett technique for sensing application. *Applied Surface Science*, 528, [146959]. <https://doi.org/10.1016/j.apsusc.2020.146959>

Tan, C., Ceballos, G., Kasabov, N., & Subramaniam, N. P. (2020). Fusionsense: Emotion classification using feature fusion of multimodal data and deep learning in a brain-inspired spiking neural network. *Sensors (Switzerland)*, 20(18), [5328]. <https://doi.org/10.3390/s20185328>

Olżyńska, A., Kulig, W., Mikkolainen, H., Czerniak, T., Jurkiewicz, P., Cwiklik, L., ... Vattulainen, I. (2020). Tail-Oxidized Cholesterol Enhances Membrane Permeability for Small Solutes. *Langmuir*, 36(35), 10438-10447. <https://doi.org/10.1021/acs.langmuir.0c01590>

Kaleva, A., Tassaing, T., Saarimaa, V., Le Bourdon, G., Väisänen, P., Markkula, A., & Levänen, E. (2020). Formation of corrosion products on zinc in wet supercritical and subcritical CO<sub>2</sub>: In-situ spectroscopic study. *Corrosion Science*, 174. <https://doi.org/10.1016/j.corsci.2020.108850>

Azemati, H., Jam, F., Ghorbani, M., Dehmer, M., Ebrahimpour, R., Ghanbaran, A., & Emmert-Streib, F. (2020). The role of symmetry in the aesthetics of residential building façades using cognitive science methods. *Symmetry*, 12(9), [1438]. <https://doi.org/10.3390/sym12091438>

He, H., Chen, X., Mehmood, A., Raivio, L., Huttunen, H., Raumonon, P., & Virkki, J. (2020). ClothFace: A Batteryless RFID-Based Textile Platform for Handwriting Recognition. *Sensors (Basel, Switzerland)*, 20(17), [4878]. <https://doi.org/10.3390/s20174878>

Truong, K. N., Rautiainen, J. M., Rissanen, K., & Puttreddy, R. (2020). The C-I<sup>+</sup>...O-N<sup>+</sup> Halogen Bonds with Tetraiodoethylene and Aromatic N-Oxides. *Crystal Growth and Design*, 20(8), 5330-5337. <https://doi.org/10.1021/acs.cgd.0c00560>

Lahikainen, M., Zeng, H., & Priimagi, A. (2020). Design principles for non-reciprocal photomechanical actuation. *Soft Matter*, 16(25), 5951-5958. <https://doi.org/10.1039/d0sm00624f>

Ojha, N., Szczodra, A., Boetti, N. G., Massera, J., & Petit, L. (2020). Nucleation and growth behavior of Er<sup>3+</sup> doped oxyfluorophosphate glasses. *RSC Advances*, 10(43), 25703-25716. <https://doi.org/10.1039/d0ra04681g>

Sharma, R. O., Rantala, T. T., & Hoggan, P. E. (2020). Selective hydrogen production at Pt(111) investigated by Quantum Monte Carlo methods for metal catalysis. *International Journal of Quantum Chemistry*, 120(11), [e26198]. <https://doi.org/10.1002/qua.26198>

Arvani, M., Keskinen, J., Railanmaa, A., Siljander, S., Björkqvist, T., Tuukkanen, S., & Lupo, D. (2020). Additive manufacturing of monolithic supercapacitors with biopolymer separator. *Journal of Applied Electrochemistry*, 50(6), 689-697. <https://doi.org/10.1007/s10800-020-01423-2>

Isca, V. M. S., Ferreira, R. J., Garcia, C., Monteiro, C. M., Dinic, J., Holmstedt, S., ... Rijo, P. (2020). Molecular Docking Studies of Royleanone Diterpenoids from *Plectranthus* spp. as P-Glycoprotein Inhibitors. *ACS MEDICINAL CHEMISTRY LETTERS*, 11(5), 839-845. <https://doi.org/10.1021/acsmedchemlett.9b00642>

Alanen, J., Isotalo, M., Kuittinen, N., Simonen, P., Martikainen, S., Kuuluvainen, H., ... Rönkkö, T. (2020). Physical Characteristics of Particle Emissions from a Medium Speed Ship Engine Fueled with Natural Gas and Low-Sulfur Liquid Fuels. *Environmental Science and Technology*, 54(9), 5376-5384. <https://doi.org/10.1021/acs.est.9b06460>

Javanainen, M., Ollila, O. H. S., & Martinez-Seara, H. (2020). Rotational Diffusion of Membrane Proteins in Crowded Membranes. *Journal of Physical Chemistry B*, 124(15), 2994-3001. <https://doi.org/10.1021/acs.jpcc.0c00884>

Twum, K., Rautiainen, J. M., Yu, S., Truong, K. N., Feder, J., Rissanen, K., ... Beyeh, N. K. (2020). Host-Guest Interactions of Sodiumsulfonatomethylenesorcinarene and Quaternary Ammonium Halides: An Experimental-Computational Analysis of the Guest Inclusion Properties. *Crystal Growth and Design*, 20(4), 2367-2376. <https://doi.org/10.1021/acs.cgd.9b01540>

Haavisto, J. M., Kokko, M. E., Lakaniemi, A. M., Sulonen, M. L. K., & Puhakka, J. A. (2020). The effect of start-up on energy recovery and compositional changes in brewery wastewater in bioelectrochemical systems. *BIOELECTROCHEMISTRY*, 132, [107402]. <https://doi.org/10.1016/j.bioelechem.2019.107402>

Young, D. C., Tasiar, M., Laurent, A. D., Dobrzycki, Ł., Cyrański, M. K., Tkachenko, N., ... Gryko, D. T. (2020). Photostable orange-red fluorescent unsymmetrical diketopyrrolopyrrole-BF<sub>2</sub> hybrids. *Journal of Materials Chemistry C*, 8(23), 7708-7717. <https://doi.org/10.1039/d0tc01202e>

Aisala, H., Manninen, H., Laaksonen, T., Linderborg, K. M., Myoda, T., Hopia, A., & Sandell, M. (2020). Linking volatile and non-volatile compounds to sensory profiles and consumer liking of wild edible Nordic mushrooms. *Food Chemistry*, 304, [125403]. <https://doi.org/10.1016/j.foodchem.2019.125403>

Viljanen, J., Kalmankoski, K., Contreras, V., Sarin, J. K., Sorvajärvi, T., Kinnunen, H., ... Toivonen, J. (2020). Sequential Collinear Photofragmentation and Atomic Absorption Spectroscopy for Online Laser Monitoring of Triatomic Metal Species. *Sensors (Basel, Switzerland)*, 20(2), [533]. <https://doi.org/10.3390/s20020533>

Wani, O. M., Schenning, A. P. H. J., & Priimagi, A. (2020). A bifacial colour-tunable system via combination of a cholesteric liquid crystal network and hydrogel. *Journal of Materials Chemistry C*, 8(30), 10191-10196. <https://doi.org/10.1039/d0tc02189j>

Holmstedt, S., & Candeias, N. R. (2020). A concise synthesis of carbasugars isolated from *Streptomyces lincolnensis*. *Tetrahedron*, [131346]. <https://doi.org/10.1016/j.tet.2020.131346>

Pelkonen, A., Mzezewa, R., Sukki, L., Rynänen, T., Kreutzer, J., Hyvärinen, T., ... Narkilahti, S. (2020). A modular brain-on-a-chip for modelling epileptic seizures with functionally connected human neuronal networks. *Biosensors and Bioelectronics*, 168, [112553]. <https://doi.org/10.1016/j.bios.2020.112553>

Taimoory, S. M., Twum, K., Dashti, M., Pan, F., Lahtinen, M., Rissanen, K., ... Beyeh, N. K. (2020). Bringing a Molecular Plus One: Synergistic Binding Creates Guest-Mediated Three-Component Complexes. *Journal of Organic Chemistry*, 85(9), 5884-5894. <https://doi.org/10.1021/acs.joc.0c00220>

Beter, J., Schrittmesser, B., Maroh, B., Sarlin, E., Fuchs, P. F., & Pinter, G. (2020). Comparison and impact of different fiber debond techniques on fiber reinforced flexible composites. *Polymers*, 12(2), [472]. <https://doi.org/10.3390/polym12020472>

Jönkkäri, I., Poliakova, V., Mylläri, V., Anderson, R., Andersson, M., & Vuorinen, J. (2020). Compounding and characterization of recycled multilayer plastic films. *Journal of Applied Polymer Science*, [e49101]. <https://doi.org/10.1002/app.49101>

Evans, D. M., Holstad, T. S., Mosberg, A. B., Småbråten, D. R., Vullum, P. E., Dadlani, A. L., ... Meier, D. (2020). Conductivity control via minimally invasive anti-Frenkel defects in a functional oxide. *Nature Materials*. <https://doi.org/10.1038/s41563-020-0765-x>

- Chakraborty, S., Rene, E. R., Lens, P. N. L., Rintala, J., Veiga, M. C., & Kennes, C. (2020). Effect of tungsten and selenium on  $C_1$  gas bioconversion by an enriched anaerobic sludge and microbial community analysis. *Chemosphere*, 250, [126105]. <https://doi.org/10.1016/j.chemosphere.2020.126105>
- Moormann, W., Tellkamp, T., Stadler, E., Röhricht, F., Näther, C., Puttreddy, R., ... Herges, R. (2020). Efficient Conversion of Light to Chemical Energy: Directional, Chiral Photoswitches with Very High Quantum Yields. *Angewandte Chemie - International Edition*, 59(35), 15081-15086. <https://doi.org/10.1002/anie.202005361>
- Shakun, A., Sarlin, E., & Vuorinen, J. (2020). Energy dissipation in natural rubber latex films: The effect of stabilizers, leaching and acetone-treatment. *Journal of Applied Polymer Science*. <https://doi.org/10.1002/app.49609>
- Bączkiewicz, J., Malaska, M., Pajunen, S., Alanen, M., & Heinisuo, M. (2020). Experimental study on axially loaded square hollow section T-joints under fire conditions. *FIRE SAFETY JOURNAL*, 114, [102993]. <https://doi.org/10.1016/j.firesaf.2020.102993>
- Eklund, A., Zhang, H., Zeng, H., Priimägi, A., & Ikkala, O. (2020). Fast Switching of Bright Whiteness in Channeled Hydrogel Networks. *Advanced Functional Materials*, [2000754]. <https://doi.org/10.1002/adfm.202000754>
- Tofanello, A., Freitas, A. L. M., Carvalho, W. M., Salminen, T., Niemi, T., & Souza, F. L. (2020). Hematite Surface Modification toward Efficient Sunlight-Driven Water Splitting Activity: The Role of Gold Nanoparticle Addition. *Journal of Physical Chemistry C*. <https://doi.org/10.1021/acs.jpcc.9b11966>
- Larnimaa, S., Halonen, L., Karhu, J., Tomberg, T., Metsälä, M., Genoud, G., ... Vainio, M. (2020). High-resolution analysis of the  $\nu_3$  band of radiocarbon methane  $^{14}CH_4$ . *Chemical Physics Letters*, 750, [137488]. <https://doi.org/10.1016/j.cplett.2020.137488>
- Jowett, G. M., Norman, M. D. A., Yu, T. T. L., Rosell Arévalo, P., Hoogland, D., Lust, S. T., ... Gentleman, E. (2020). ILC1 drive intestinal epithelial and matrix remodelling. *Nature Materials*. <https://doi.org/10.1038/s41563-020-0783-8>
- Varis, T., Suhonen, T., Jokipii, M., & Vuoristo, P. (2020). Influence of powder properties on residual stresses formed in high-pressure liquid fuel HVOF sprayed WC-CoCr coatings. *Surface and Coatings Technology*, 388, [125604]. <https://doi.org/10.1016/j.surfcoat.2020.125604>
- Hajdu-Rahkama, R., Özkaya, B., Lakaniemi, A. M., & Puhakka, J. A. (2020). Kinetics and modelling of thiosulphate biotransformations by haloalkaliphilic Thioalkalivibrio versutus. *Chemical Engineering Journal*, 401, [126047]. <https://doi.org/10.1016/j.cej.2020.126047>
- Oliveira, L. M. C., Koivisto, H., Iwakiri, I. G. I., Loureiro, J. M., Ribeiro, A. M., & Nogueira, I. B. R. (2020). Modelling of a pressure swing adsorption unit by deep learning and artificial Intelligence tools. *Chemical Engineering Science*, 224, [115801]. <https://doi.org/10.1016/j.ces.2020.115801>
- Palmolahti, L., Ali-Löytty, H., Khan, R., Saari, J., Tkachenko, N. V., & Valden, M. (2020). Modification of Surface States of Hematite-Based Photoanodes by Submonolayer of  $TiO_2$  for Enhanced Solar Water Splitting. *Journal of Physical Chemistry C*, 124(24), 13094-13101. <https://doi.org/10.1021/acs.jpcc.0c00798>
- Pasanen, H. P., Vivo, P., Canil, L., Hempel, H., Unold, T., Abate, A., & Tkachenko, N. V. (2020). Monitoring Charge Carrier Diffusion across a Perovskite Film with Transient Absorption Spectroscopy. *The journal of physical chemistry letters*, 11(2), 445-450. <https://doi.org/10.1021/acs.jpcc.9b03427>
- Sankari, A., Stråhlman, C., Sankari, R., Partanen, L., Laksman, J., Kettunen, J. A., ... Sorensen, S. L. (2020). Non-radiative decay and fragmentation in water molecules after 1 a 1-1 4 a 1 excitation and core ionization studied by electron-energy-resolved electron-ion coincidence spectroscopy. *Journal of Chemical Physics*, 152(7), [074302]. <https://doi.org/10.1063/1.5141414>

Wang, M., Chen, D., Xiao, M., Ye, Q., Stolzenburg, D., Hofbauer, V., ... Donahue, N. M. (2020). Photo-oxidation of Aromatic Hydrocarbons Produces Low-Volatility Organic Compounds. *Environmental Science and Technology*, 54(13), 7911-7921. <https://doi.org/10.1021/acs.est.0c02100>

Karjalainen, M., Kontunen, A., Mäkelä, M., Anttalainen, O., Vehkaoja, A., Oksala, N., & Roine, A. (2020). Recovery characteristics of different tube materials in relation to combustion products. *International Journal for Ion Mobility Spectrometry*. <https://doi.org/10.1007/s12127-020-00266-z>

Chronopoulos, A., Thorpe, S. D., Cortes, E., Lachowski, D., Rice, A. J., Mykuliak, V. V., ... del Río Hernández, A. E. (2020). Syndecan-4 tunes cell mechanics by activating the kindlin-integrin-RhoA pathway. *Nature Materials*. <https://doi.org/10.1038/s41563-019-0567-1>

Manninen, H., Durandin, N., Hopia, A., Vuorimaa-Laukkanen, E., & Laaksonen, T. (2020). Taste compound – Nanocellulose interaction assessment by fluorescence indicator displacement assay. *Food Chemistry*, 318, [126511]. <https://doi.org/10.1016/j.foodchem.2020.126511>

Nymark, P., Bakker, M., Dekkers, S., Franken, R., Fransman, W., García-Bilbao, A., ... Grafström, R. (2020). Toward Rigorous Materials Production: New Approach Methodologies Have Extensive Potential to Improve Current Safety Assessment Practices. *Small*, 16(6), [1904749]. <https://doi.org/10.1002/smll.201904749>

Khvorost, T. A., Beliaev, L. Y., Potalueva, E., Laptchenkova, A. V., Selyutin, A. A., Bogachev, N. A., ... Mereshchenko, A. S. (2020). Ultrafast Photochemistry of the  $[\text{Cr}(\text{NCS})_6]^{3-}$  Complex in Dimethyl Sulfoxide and Dimethylformamide upon Excitation into Ligand-Field Electronic State. *Journal of Physical Chemistry B*, 124(18), 3724-3733. <https://doi.org/10.1021/acs.jpcc.0c00088>

Ometov, A., Bezzateev, S., Voloshina, N., Masek, P., & Komarov, M. (2019). Environmental monitoring with distributed mesh networks: An overview and practical implementation perspective for urban scenario. *Sensors (Switzerland)*, 19(24), [5548]. <https://doi.org/10.3390/s19245548>

Lowe, S. J., Partridge, D. G., Davies, J. F., Wilson, K. R., Topping, D., & Riipinen, I. (2019). Key drivers of cloud response to surface-active organics. *Nature Communications*, 10(1), [5214]. <https://doi.org/10.1038/s41467-019-12982-0>

Zhang, H., Zeng, H., Priimägi, A., & Ikkala, O. (2019). Programmable responsive hydrogels inspired by classical conditioning algorithm. *Nature Communications*, 10(1), [3267]. <https://doi.org/10.1038/s41467-019-11260-3>

Roldin, P., Ehn, M., Kurtén, T., Olenius, T., Rissanen, M. P., Sarnela, N., ... Boy, M. (2019). The role of highly oxygenated organic molecules in the Boreal aerosol-cloud-climate system. *Nature Communications*, 10(1), [4370]. <https://doi.org/10.1038/s41467-019-12338-8>

Shevkunov, I., Katkovnik, V., Claus, D., Pedrini, G., Petrov, N. V., & Egiazarian, K. (2019). Spectral object recognition in hyperspectral holography with complex-domain denoising. *Sensors (Switzerland)*, 19(23), [5188]. <https://doi.org/10.3390/s19235188>

Poikkimäki, M., Koljonen, V., Leskinen, N., Närhi, M., Kangasniemi, O., Kausiala, O., & Dal Maso, M. (2019). Nanocluster Aerosol Emissions of a 3D Printer. *Environmental Science and Technology*, 53(23), 13618–13628. <https://doi.org/10.1021/acs.est.9b05317>

Ye, Q., Wang, M., Hofbauer, V., Stolzenburg, D., Chen, D., Schervish, M., ... Donahue, N. M. (2019). Molecular Composition and Volatility of Nucleated Particles from  $\alpha$ -Pinene Oxidation between  $-50\text{ }^\circ\text{C}$  and  $+25\text{ }^\circ\text{C}$ . *Environmental Science and Technology*, 53(21), 12357-12365. <https://doi.org/10.1021/acs.est.9b03265>

Tomkowski, R., Sorsa, A., Santa-Aho, S., Lundin, P., & Vippola, M. (2019). Statistical evaluation of barkhausen noise testing (BNT) for ground samples. *Sensors (Switzerland)*, 19(21), [4716]. <https://doi.org/10.3390/s19214716>

Saegusa, T., Sakai, H., Nagashima, H., Kobori, Y., Tkachenko, N. V., & Hasobe, T. (2019). 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. *Journal of the American Chemical Society*, *141*(37), 14720-14727. <https://doi.org/10.1021/jacs.9b06567>

Haavisto, J., Dessì, P., Chatterjee, P., Honkanen, M., Noori, M. T., Kokko, M., ... Puhakka, J. A. (2019). Effects of anode materials on electricity production from xylose and treatability of TMP wastewater in an up-flow microbial fuel cell. *Chemical Engineering Journal*, *372*, 141-150. <https://doi.org/10.1016/j.cej.2019.04.090>

Reshef, O., Saad-Bin-Alam, M., Huttunen, M. J., Carlow, G., Sullivan, B. T., Ménard, J. M., ... Boyd, R. W. (2019). Multiresonant High-Q Plasmonic Metasurfaces. *Nano Letters*, *19*(9), 6429-6434. <https://doi.org/10.1021/acs.nanolett.9b02638>

Karjalainen, P., Rönkkö, T., Simonen, P., Ntziachristos, L., Juuti, P., Timonen, H., ... Keskinen, J. (2019). Strategies To Diminish the Emissions of Particles and Secondary Aerosol Formation from Diesel Engines. *Environmental science & technology*, *53*(17), 10408-10416. <https://doi.org/10.1021/acs.est.9b04073>

Poojari, C., Wilkosz, N., Lira, R. B., Dimova, R., Jurkiewicz, P., Petka, R., ... Róg, T. (2019). Behavior of the DPH fluorescence probe in membranes perturbed by drugs. *Chemistry and Physics of Lipids*, *223*, [104784]. <https://doi.org/10.1016/j.chemphyslip.2019.104784>

Calejo, M. T., Haapala, A., Skottman, H., & Kellomäki, M. (2019). Porous polybutylene succinate films enabling adhesion of human embryonic stem cell-derived retinal pigment epithelial cells (hESC-RPE). *European Polymer Journal*, *118*, 78-87. <https://doi.org/10.1016/j.eurpolymj.2019.05.041>

Wang, S., Nawale, G. N., Oommen, O. P., Hilborn, J., & Varghese, O. P. (2019). Influence of ions to modulate hydrazone and oxime reaction kinetics to obtain dynamically cross-linked hyaluronic acid hydrogels. *Polymer Chemistry*, *10*(31), 4322-4327. <https://doi.org/10.1039/c9py00862d>

Kiilakoski, J., Langlade, C., Koivuluoto, H., & Vuoristo, P. (2019). Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings. *Surface and Coatings Technology*, *371*, 245-254. <https://doi.org/10.1016/j.surfcoat.2018.10.097>

Fantozzi, D., Matikainen, V., Uusitalo, M., Koivuluoto, H., & Vuoristo, P. (2019). Chlorine induced high-temperature corrosion mechanisms in HVOF and HVAF sprayed Cr<sub>3</sub>C<sub>2</sub>-based hardmetal coatings. *Corrosion Science*, [108166]. <https://doi.org/10.1016/j.corsci.2019.108166>

Schraik, D., Varvia, P., Korhonen, L., & Rautiainen, M. (2019). Bayesian inversion of a forest reflectance model using Sentinel-2 and Landsat 8 satellite images. *JOURNAL OF QUANTITATIVE SPECTROSCOPY AND RADIATIVE TRANSFER*, *233*, 1-12. <https://doi.org/10.1016/j.jqsrt.2019.05.013>

Solovyev, A. I., Mikheyli, A. V., Plyusnin, V. F., Shubin, A. A., Grivin, V. P., Larionov, S. V., ... Lemmetyinen, H. (2019). Photochemistry of dithiophosphate Ni(S<sub>2</sub>P(i-Bu)<sub>2</sub>)<sub>2</sub> complex in CCl<sub>4</sub>. Transient species and TD-DFT calculations. *Journal of Photochemistry and Photobiology A: Chemistry*, *381*, [111857]. <https://doi.org/10.1016/j.jphotochem.2019.111857>

Matikainen, V., Rubio Peregrina, S., Ojala, N., Koivuluoto, H., Schubert, J., Houdková, & Vuoristo, P. (2019). Erosion wear performance of WC-10Co4Cr and Cr<sub>3</sub>C<sub>2</sub>-25NiCr coatings sprayed with high-velocity thermal spray processes. *Surface and Coatings Technology*, *370*, 196-212. <https://doi.org/10.1016/j.surfcoat.2019.04.067>

Kezilebieke, S., Žitko, R., Dvorak, M., Ojanen, T., & Liljeroth, P. (2019). Observation of Coexistence of Yu-Shiba-Rusinov States and Spin-Flip Excitations. *Nano Letters*, *19*(7), 4614-4619. <https://doi.org/10.1021/acs.nanolett.9b01583>

Abada, A., Abbrescia, M., AbdusSalam, S. S., Abdjukhanov, I., Abelleira Fernandez, J., Abramov, A., ... Stenvall, A. (2019). FCC-hh: The Hadron Collider: Future Circular Collider Conceptual Design Report Volume 3. *European Physical Journal: Special Topics*, 228(4), 755-1107. <https://doi.org/10.1140/epjst/e2019-900087-0>

Ghalibaf, M., Doddapaneni, T. R. K. C., & Alén, R. (2019). Pyrolytic behavior of lignocellulosic-based polysaccharides. *Journal of Thermal Analysis and Calorimetry*, 137(1), 121-131. <https://doi.org/10.1007/s10973-018-7919-y>

Paananen, R. O., Javanainen, M., Holopainen, J. M., & Vattulainen, I. (2019). Crystalline Wax Esters Regulate the Evaporation Resistance of Tear Film Lipid Layers Associated with Dry Eye Syndrome. *Journal of Physical Chemistry Letters*, 10(14), 3893-3898. <https://doi.org/10.1021/acs.jpcllett.9b01187>

Banerjee, S. S., Hait, S., Natarajan, T. S., Wießner, S., Stöckelhuber, K. W., Jehnichen, D., ... Das, A. (2019). Water-Responsive and Mechanically Adaptive Natural Rubber Composites by in Situ Modification of Mineral Filler Structures. *Journal of Physical Chemistry B*, 123(24), 5168-5175. <https://doi.org/10.1021/acs.jpccb.9b02125>

Hilksa, J., Koivusalo, E., Puustinen, J., Suomalainen, S., & Guina, M. (2019). Epitaxial phases of high Bi content GaSbBi alloys. *Journal of Crystal Growth*, 516, 67-71. <https://doi.org/10.1016/j.jcrysgro.2019.03.028>

Sautter, J. D., Xu, L., Miroshnichenko, A. E., Lysevych, M., Volkovskaya, I., Smirnova, D. A., ... Rahmani, M. (2019). Tailoring Second-Harmonic Emission from (111)-GaAs Nanoantennas. *Nano Letters*, 19(6), 3905-3911. <https://doi.org/10.1021/acs.nanolett.9b01112>

Lolicato, F., Joly, L., Martinez-Seara, H., Fragneto, G., Scoppola, E., Baldelli Bombelli, F., ... Maccarini, M. (2019). The Role of Temperature and Lipid Charge on Intake/Uptake of Cationic Gold Nanoparticles into Lipid Bilayers. *Small*, 15(23), [1805046]. <https://doi.org/10.1002/smll.201805046>

Sariola, V. (2019). Analytical Expressions for Spring Constants of Capillary Bridges and Snap-in Forces of Hydrophobic Surfaces. *Langmuir*, 35(22), 7129-7135. <https://doi.org/10.1021/acs.langmuir.9b00152>

Lai, Y., Zhang, H., Sugano, Y., Xie, H., & Kallio, P. (2019). Correlation of Surface Morphology and Interfacial Adhesive Behavior between Cellulose Surfaces: Quantitative Measurements in Peak-Force Mode with the Colloidal Probe Technique. *Langmuir*, 35(22), 7312-7321. <https://doi.org/10.1021/acs.langmuir.8b03503>

Ali, I., Suominen, O., Gotchev, A., & Morales, E. R. (2019). Methods for simultaneous robot-world-hand-eye calibration: A comparative study. *Sensors (Switzerland)*, 19(12), [2837]. <https://doi.org/10.3390/s19122837>

Kekonen, A., Bergelin, M., Johansson, M., Kumar Joon, N., Bobacka, J., & Viik, J. (2019). Bioimpedance Sensor Array for Long-Term Monitoring of Wound Healing from Beneath the Primary Dressings and Controlled Formation of H<sub>2</sub>O<sub>2</sub> Using Low-Intensity Direct Current. *Sensors*, 19(11). <https://doi.org/10.3390/s19112505>

Enkavi, G., Javanainen, M., Kulig, W., Róg, T., & Vattulainen, I. (2019). Multiscale Simulations of Biological Membranes: The Challenge To Understand Biological Phenomena in a Living Substance. *Chemical Reviews*, 119(9), 5607-5774. <https://doi.org/10.1021/acs.chemrev.8b00538>

Iyer, S., Rissanen, M. P., & Kurtén, T. (2019). Reaction between Peroxy and Alkoxy Radicals Can Form Stable Adducts. *Journal of Physical Chemistry Letters*, 10(9), 2051-2057. <https://doi.org/10.1021/acs.jpcllett.9b00405>

Kahle, H., Phung, H-M., Penttinen, J-P., Rajala, P., Tukiainen, A., Ranta, S., & Guina, M. (2019). Double-side pumped membrane external-cavity surface-emitting laser (MECSEL) with increased efficiency emitting > 3 W in the 780 nm region . teoksessa *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings IEEE*. <https://doi.org/10.23919/CLEO.2019.8749958>

Gil-Gallegos, S., Klages, R., Solanpää, J., & Räsänen, E. (2019). Energy-dependent diffusion in a soft periodic Lorentz gas. *European Physical Journal: Special Topics*, 228(1), 143-160. <https://doi.org/10.1140/epjst/e2019-800136-8>

Abdallah, Z., Stefszky, M., Ulvila, V., Silberhorn, C., & Vainio, M. (2019). Frequency Comb Generation in a Continuous-Wave Pumped Second-Order Nonlinear Waveguide Resonator. teoksessa *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings* IEEE. <https://doi.org/10.23919/CLEO.2019.8750403>

Saad-Bin-Alam, M., Reshef, O., Huttunen, M. J., Carlow, G., Sullivan, B., Menard, J. M., ... Boyd, R. W. (2019). High-Q resonance train in a plasmonic metasurface. teoksessa *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings* IEEE. <https://doi.org/10.23919/CLEO.2019.8750206>

Sadiek, I., Mikkonen, T., Vainio, M., Toivonen, J., & Foltynowicz, A. (2019). Optical Frequency Comb Photoacoustic Spectroscopy. teoksessa *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings* IEEE. <https://doi.org/10.23919/CLEO.2019.8749688>

Itävuo, P., Hulthén, E., Yahyaei, M., & Vilkkö, M. (2019). Mass balance control of crushing circuits. *Minerals Engineering*, 135, 37-47. <https://doi.org/10.1016/j.mineng.2019.02.033>

Trainer, D. J., Putilov, A. V., Wang, B., Lane, C., Saari, T., Chang, T. R., ... Iavarone, M. (2019). Moiré superlattices and 2D electronic properties of graphite/MoS<sub>2</sub> heterostructures. *Journal of Physics and Chemistry of Solids*, 128, 325-330. <https://doi.org/10.1016/j.jpcs.2017.10.034>

Saari, T., & Nieminen, J. (2019). Spin filtering in silicene by edges and chemically or electrically induced interfaces. *Journal of Physics and Chemistry of Solids*, 128, 316-324. <https://doi.org/10.1016/j.jpcs.2017.12.037>

Kulig, W., Korolainen, H., Zatorska, M., Kwolek, U., Wydro, P., Kepczynski, M., & Róg, T. (2019). Complex Behavior of Phosphatidylcholine-Phosphatidic Acid Bilayers and Monolayers: Effect of Acyl Chain Unsaturation. *Langmuir*, 35(17), 5944-5956. <https://doi.org/10.1021/acs.langmuir.9b00381>

Kerst, T., Malmbeck, R., Ial Banik, N. L., & Toivonen, J. (2019). Alpha radiation-induced luminescence by am-241 in aqueous nitric acid solution. *Sensors (Switzerland)*, 19(7), [1602]. <https://doi.org/10.3390/s19071602>

Puustinen, J., Hilska, J., & Guina, M. (2019). Analysis of GaAsBi growth regimes in high resolution with respect to As/Ga ratio using stationary MBE growth. *Journal of Crystal Growth*, 511, 33-41. <https://doi.org/10.1016/j.jcrysgr.2019.01.010>

Asikainen, S., Paakinaho, K., Kyhkynen, A. K., Hannula, M., Malin, M., Ahola, N., ... Seppälä, J. (2019). Hydrolysis and drug release from poly(ethylene glycol)-modified lactone polymers with open porosity. *European Polymer Journal*, 113, 165-175. <https://doi.org/10.1016/j.eurpolymj.2019.01.056>

Ometov, A., Bezzateev, S., Davydov, V., Shchesniak, A., Masek, P., Lohan, E. S., & Koucheryavy, Y. (2019). Positioning information privacy in intelligent transportation systems: An overview and future perspective. *Sensors*, 19(7), [1603]. <https://doi.org/10.3390/s19071603>

Bianchi, F., Kurtén, T., Riva, M., Mohr, C., Rissanen, M. P., Roldin, P., ... Ehn, M. (2019). Highly Oxygenated Organic Molecules (HOM) from Gas-Phase Autoxidation Involving Peroxy Radicals: A Key Contributor to Atmospheric Aerosol. *Chemical Reviews*, 119(6), 3472-3509. <https://doi.org/10.1021/acs.chemrev.8b00395>

Gurtovenko, A. A., Javanainen, M., Lolicato, F., & Vattulainen, I. (2019). The Devil Is in the Details: What Do We Really Track in Single-Particle Tracking Experiments of Diffusion in Biological Membranes? *Journal of Physical Chemistry Letters*, 10(5), 1005-1011. <https://doi.org/10.1021/acs.jpcclett.9b00065>

Pekkanen, T. T., Timonen, R. S., Lendvay, G., Rissanen, M. P., & Eskola, A. J. (2019). Kinetics and thermochemistry of the reaction of 3-methylpropargyl radical with molecular oxygen. *PROCEEDINGS OF THE COMBUSTION INSTITUTE*, 37(1), 299-306. <https://doi.org/10.1016/j.proci.2018.05.050>

Kuroda, K., Yazaki, K., Tanaka, Y., Akita, M., Sakai, H., Hasobe, T., ... Yoshizawa, M. (2019). A Pentacene-based Nanotube Displaying Enriched Electrochemical and Photochemical Activities. *Angewandte Chemie - International Edition*, 58(4), 1115-1119. <https://doi.org/10.1002/anie.201812976>

Ruoko, T-P., Hiltunen, A., Iivonen, T., Ulkuniemi, R., Lahtonen, K., Ali-Löytty, H., ... Tkachenko, N. V. (2019). Charge carrier dynamics in tantalum oxide overlayers and tantalum doped hematite photoanodes. *Journal of Materials Chemistry A*, 7(7), 3206-3215. <https://doi.org/10.1039/C8TA09501A>

Levämäki, H., Tian, L-Y., Vitos, L., & Ropo, M. (2019). An automated algorithm for reliable equation of state fitting of magnetic systems. *Computational Materials Science*, 156, 121-128. <https://doi.org/10.1016/j.commatsci.2018.09.026>

Suokas, E. (2019). Effect of polyolefin molecular structure on product properties in extrusion coating. teoksessa *17th Biennial TAPPI European PLACE Conference 2019* (Sivut 89-98). TAPPI Press.

Umeyama, T., Hanaoka, T., Yamada, H., Namura, Y., Mizuno, S., Ohara, T., ... Imahori, H. (2019). Exclusive occurrence of photoinduced energy transfer and switching of its direction by rectangular  $\pi$ -extension of nanographenes. *Chemical Science*, 10(27), 6642-6650. <https://doi.org/10.1039/c9sc01538h>

Passananti, M., Zapadinsky, E., Zanca, T., Kangasluoma, J., Myllys, N., Rissanen, M. P., ... Vehkamäki, H. (2019). How well can we predict cluster fragmentation inside a mass spectrometer? *Chemical Communications*, 55(42), 5946-5949. <https://doi.org/10.1039/c9cc02896j>

Sharma, V., Yiannacou, K., Karjalainen, M., Lahtonen, K., Valden, M., & Sariola, V. (2019). Large-scale efficient water harvesting using bioinspired micro-patterned copper oxide nanoneedle surfaces and guided droplet transport. *Nanoscale Advances*, 1(10), 4025-4040. <https://doi.org/10.1039/c9na00405j>

Shin, M., Kim, J., Jung, Y. K., Ruoko, T-P., Priimagi, A., Walsh, A., & Shin, B. (2019). Low-dimensional formamidinium lead perovskite architectures via controllable solvent intercalation. *Journal of Materials Chemistry C*, 7(13), 3945-3951. <https://doi.org/10.1039/c9tc00379g>

Lahti, J. (2019). Market implementation of active and intelligent packaging-opportunities from a socio-economic perspective. teoksessa *17th Biennial TAPPI European PLACE Conference 2019* (Sivut 419-427). TAPPI Press.

Tienaho, J., Karonen, M., Muilu-Mäkelä, R., Wähälä, K., Denegri, E. L., Franzén, R., ... Sarjala, T. (2019). 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. *Molecules*, 24(12), [2330]. <https://doi.org/10.3390/molecules24122330>

Mandal, S., & Tkachenko, N. V. (2019). Multiphoton Excitation of CsPbBr<sub>3</sub> Perovskite Quantum Dots (PQDs): How Many Electrons Can One PQD Donate to Multiple Molecular Acceptors? *Journal of Physical Chemistry Letters*, 2775-2781. <https://doi.org/10.1021/acs.jpcclett.9b01045>

Lahti, J. (2019). Nanocellulose and Polylactic Acid Based Multilayer Coatings for Barrier Applications. teoksessa *17th Biennial TAPPI European PLACE Conference 2019* (Sivut 446-455). TAPPI Press.

Guglielmetti, S., Santala, V., Mangayil, R., Ciranna, A., & Karp, M. T. (2019). O<sub>2</sub>-requiring molecular reporters of gene expression for anaerobic microorganisms. *Biosensors and Bioelectronics*, 123, 1-6. <https://doi.org/10.1016/j.bios.2018.09.066>



- Anttalainen, O., Puton, J., Kontunen, A., Karjalainen, M., Kumpulainen, P., Oksala, N., ... Roine, A. (2019). Possible strategy to use differential mobility spectrometry in real time applications. *International Journal for Ion Mobility Spectrometry*. <https://doi.org/10.1007/s12127-019-00251-1>
- Lemougna, P. N., Yliniemi, J., Ismailov, A., Levänen, E., Tanskanen, P., Kinnunen, P., ... Illikainen, M. (Hyväksytyy/painossa). Spodumene tailings for porcelain and structural materials: Effect of temperature (1050–1200°C) on the sintering and properties. *Minerals Engineering*, [105843]. <https://doi.org/10.1016/j.mineng.2019.105843>
- Ayodele, O. B., Cai, R., Wang, J., Ziouani, Y., Liang, Z., Spadaro, M. C., ... Kolen'Ko, Y. V. (2019). Synergistic Computational-Experimental Discovery of Highly Selective PtCu Nanocluster Catalysts for Acetylene Semihydrogenation. *ACS CATALYSIS*, 451-457. <https://doi.org/10.1021/acscatal.9b03539>
- Assoah, B., Riihonen, V., Vale, J. R., Valkonen, A., & Candeias, N. R. (2019). Synthesis of 6,12-disubstituted methanodibenzo[b,f][1,5]dioxocins: Pyrrolidine catalyzed self-condensation of 2'-Hydroxyacetophenones. *Molecules*, 24(13), [2405]. <https://doi.org/10.3390/molecules24132405>
- Banerjee, S. S., Natarajan, T. S., Subramani B., E., Wiefner, S., Janke, A., Heinrich, G., & Das, A. (2019). Temperature scanning stress relaxation behavior of water responsive and mechanically adaptive elastomer nanocomposites. *Journal of Applied Polymer Science*, [48344]. <https://doi.org/10.1002/app.48344>
- Ghorbani, M., Dehmer, M., Mowshowitz, A., Tao, J., & Emmert-Streib, F. (2019). The Hosoya entropy of graphs revisited. *Symmetry*, 11(8), [1013]. <https://doi.org/10.3390/sym11081013>
- Liu, W., Ban, J., Feng, L., Cheng, T., Emmert-Streib, F., & Dehmer, M. (2019). The maximum Hosoya index of unicyclic graphs with diameter at most four. *Symmetry*, 11(8), [1034]. <https://doi.org/10.3390/sym11081034>
- Bhagyaraj, S., Perumbilavil, S., Udayabashkar, R., Mangalaraja, R. V., Thomas, S., Kalarikkal, N., & Oluwafemi, O. S. (2019). Tuning of nonlinear absorption in highly luminescent CdSe based quantum dots with core-shell and core/multi-shell architectures. *Physical Chemistry Chemical Physics*, 21(21), 11424-11434. <https://doi.org/10.1039/c9cp00476a>
- Eregowda, T., Rene, E. R., Rintala, J., & Lens, P. N. L. (2019). Volatile fatty acid adsorption on anion exchange resins: kinetics and selective recovery of acetic acid. *Separation Science and Technology (Philadelphia)*. <https://doi.org/10.1080/01496395.2019.1600553>
- Joost, U., Sutka, A., Oja, M., Smits, K., Doebelin, N., Loot, A., ... Nommiste, E. (2018). Reversible photodoping of TiO<sub>2</sub> nanoparticles. *Chemistry of Materials*, 30(24), 8968-8974. <https://doi.org/10.1021/acs.chemmater.8b04813>
- Czaplicki, R., Kiviniemi, A., Huttunen, M. J., Zang, X., Stolt, T., Vartiainen, I., ... Kauranen, M. (2018). Less Is More: Enhancement of Second-Harmonic Generation from Metasurfaces by Reduced Nanoparticle Density. *Nano Letters*, 18(12), 7709-7714. <https://doi.org/10.1021/acs.nanolett.8b03378>
- Garifullin, M. (2018). Experimental moment resistance of rectangular hollow section T joints. *MATEC Web of Conferences*, 245, [08003]. <https://doi.org/10.1051/mateconf/201824508003>
- Perumbilavil, S., Piccardi, A., Barboza, R., Buchnev, O., Kauranen, M., Strangi, G., & Assanto, G. (2018). Beaming random lasers with soliton control. *Nature Communications*, 9(1), [3863]. <https://doi.org/10.1038/s41467-018-06170-9>
- Salmenjoki, H., Alava, M. J., & Laurson, L. (2018). Machine learning plastic deformation of crystals. *Nature Communications*, 9(1), [5307]. <https://doi.org/10.1038/s41467-018-07737-2>
- Kotila, T., Kogan, K., Enkavi, G., Guo, S., Vattulainen, I., Goode, B. L., & Lappalainen, P. (2018). Structural basis of actin monomer re-charging by cyclase-Associated protein. *Nature Communications*, 9(1), [1892]. <https://doi.org/10.1038/s41467-018-04231-7>

- Ferreira, S. A., Motwani, M. S., Faull, P. A., Seymour, A. J., Yu, T. T. L., Enayati, M., ... Gentleman, E. (2018). Bi-directional cell-pericellular matrix interactions direct stem cell fate. *Nature Communications*, *9*(1), [4049]. <https://doi.org/10.1038/s41467-018-06183-4>
- Rimpiläinen, T., Andrade, J., Nunes, A., Ntungwe, E., Fernandes, A. S., Vale, J. R., ... Candeias, N. R. (2018). Aminobenzylated 4-Nitrophenols as Antibacterial Agents Obtained from 5-Nitrosalicylaldehyde through a Petasis Borono-Mannich Reaction. *ACS Omega*, *3*(11), 16191-16202. <https://doi.org/10.1021/acsomega.8b02381>
- Närhi, M., Salmela, L., Toivonen, J., Billet, C., Dudley, J. M., & Genty, G. (2018). Machine learning analysis of extreme events in optical fibre modulation instability. *Nature Communications*, *9*(1). <https://doi.org/10.1038/s41467-018-07355-y>
- Uusheimo, S., Huotari, J., Tulonen, T., Aalto, S. L., Rissanen, A. J., & Arvola, L. (2018). High Nitrogen Removal in a Constructed Wetland Receiving Treated Wastewater in a Cold Climate. *Environmental science & technology*, *52*(22), 13343-13350. <https://doi.org/10.1021/acs.est.8b03032>
- Sakai, H., Inaya, R., Tkachenko, N. V., & Hasobe, T. (2018). 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. *Chemistry - A European Journal*, *24*(64), 17062-17071. <https://doi.org/10.1002/chem.201803257>
- Rinne, J., Keskinen, J., Berger, P. R., Lupo, D., & Valkama, M. (2018). M2M Communication Assessment in Energy-Harvesting and Wake-Up Radio Assisted Scenarios Using Practical Components. *Sensors (Basel, Switzerland)*, *18*(11). <https://doi.org/10.3390/s18113992>
- Chevrier, D. M., Raich, L., Rovira, C., Das, A., Luo, Z., Yao, Q., ... Zhang, P. (2018). Molecular-Scale Ligand Effects in Small Gold-Thiolate Nanoclusters. *Journal of the American Chemical Society*, *140*(45), 15430-15436. <https://doi.org/10.1021/jacs.8b09440>
- Tan, L. C., Nancharaiah, Y. V., Lu, S., van Hullebusch, E. D., Gerlach, R., & Lens, P. N. L. (2018). Biological treatment of selenium-laden wastewater containing nitrate and sulfate in an upflow anaerobic sludge bed reactor at pH 5.0. *Chemosphere*, *211*, 684-693. <https://doi.org/10.1016/j.chemosphere.2018.07.079>
- Huttunen-Saarivirta, E., Isotahdon, E., Metsäjoki, J., Salminen, T., Carpén, L., & Ronkainen, H. (2018). Tribocorrosion behaviour of aluminium bronze in 3.5 wt.% NaCl solution. *Corrosion Science*, *144*, 207-223. <https://doi.org/10.1016/j.corsci.2018.08.058>
- Tiihonen, J., Kylänpää, I., & Rantala, T. T. (2018). Computation of Dynamic Polarizabilities and van der Waals Coefficients from Path-Integral Monte Carlo. *Journal of Chemical Theory and Computation*, *14*, 5750-5763. <https://doi.org/10.1021/acs.jctc.8b00859>
- Heijne, A. T., Liu, D., Sulonen, M., Sleutels, T., & Fabregat-Santiago, F. (2018). Quantification of bio-anode capacitance in bioelectrochemical systems using Electrochemical Impedance Spectroscopy. *Journal of Power Sources*, *400*, 533-538. <https://doi.org/10.1016/j.jpowsour.2018.08.003>
- Rajan, R., Rainosalu, E., Ramamoorthy, S. K., Thomas, S. P., Zavašnik, J., Vuorinen, J., & Skrifvars, M. (2018). Mechanical, thermal, and burning properties of viscose fabric composites: Influence of epoxy resin modification. *Journal of Applied Polymer Science*, *135*(36), [46673]. <https://doi.org/10.1002/app.46673>
- Jermakka, J., Thompson Brewster, E., Ledezma, P., & Freguia, S. (2018). Electro-concentration for chemical-free nitrogen capture as solid ammonium bicarbonate. *Separation and Purification Technology*, *203*, 48-55. <https://doi.org/10.1016/j.seppur.2018.04.023>
- Nieminen, V., Karjalainen, M., Salminen, K., Rantala, J., Kontunen, A., Isokoski, P., ... Lekkala, J. (2018). A compact olfactometer for IMS measurements and testing human perception. *International Journal for Ion Mobility Spectrometry*, *21*(3), 71-80. <https://doi.org/10.1007/s12127-018-0235-1>

Hyväluoma, J., Hannula, M., Arstila, K., Wang, H., Kulju, S., & Rasa, K. (2018). Effects of pyrolysis temperature on the hydrologically relevant porosity of willow biochar. *Journal of Analytical and Applied Pyrolysis*, 134. <https://doi.org/10.1016/j.jaap.2018.07.011>

Mandal, S., Garcia Iglesias, M., Ince, M., Torres, T., & Tkachenko, N. V. (2018). Photoinduced Energy Transfer in ZnCdSeS Quantum Dot-Phthalocyanines Hybrids. *ACS Omega*, 3(8), 10048-10057. <https://doi.org/10.1021/acsomega.8b01623>

Tan, L. C., Espinosa-Ortiz, E. J., Nancharaiyah, Y. V., van Hullebusch, E. D., Gerlach, R., & Lens, P. N. (2018). Selenate removal in biofilm systems: Effect of nitrate and sulfate on selenium removal efficiency, biofilm structure and microbial community. *Journal of Chemical Technology and Biotechnology*, 93(8), 2380-2389. <https://doi.org/10.1002/jctb.5586>

Hiltunen, A., Ruoko, T.-P., Iivonen, T., Lahtonen, K., Ali-Löytty, H., Sarlin, E., ... Tkachenko, N. (2018). Design aspects of all atomic layer deposited TiO<sub>2</sub>-Fe<sub>2</sub>O<sub>3</sub> scaffold-absorber photoanodes for water splitting. *Sustainable Energy & Fuels*, 2(9), 2124-2130. <https://doi.org/10.1039/C8SE00252E>

Rajala, S., Schouten, M., Krijnen, G., & Tuukkanen, S. (2018). High Bending-Mode Sensitivity of Printed Piezoelectric Poly(vinylidene fluoride- co-trifluoroethylene) Sensors. *ACS Omega*, 3(7), 8067-8073. <https://doi.org/10.1021/acsomega.8b01185>

Laurén, P., Paukkonen, H., Lipiäinen, T., Dong, Y., Oksanen, T., Rääkkönen, H., ... Laaksonen, T. (2018). Pectin and Mucin Enhance the Bioadhesion of Drug Loaded Nanofibrillated Cellulose Films. *Pharmaceutical Research*, 35(7), [145]. <https://doi.org/10.1007/s11095-018-2428-z>

Siljander, S., Keinänen, P., Rätty, A., Ramakrishnan, K. R., Tuukkanen, S., Kunnari, V., ... Kanerva, M. (2018). Effect of surfactant type and sonication energy on the electrical conductivity properties of nanocellulose-CNT nanocomposite films. *International Journal of Molecular Sciences*, 19(6), [1819]. <https://doi.org/10.3390/ijms19061819>

Pirhonen, M., Peltokangas, M., & Vehkaoja, A. (2018). Acquiring respiration rate from photoplethysmographic signal by recursive bayesian tracking of intrinsic modes in time-frequency spectra. *Sensors*, 18(6), [1693]. <https://doi.org/10.3390/s18061693>

Virtanen, J., Somppi, S., Törnqvist, H., Jeyhani, V., Fiedler, P., Gizatdinova, Y., ... Vehkaoja, A. (2018). Evaluation of dry electrodes in canine heart rate monitoring. *Sensors*, 18(6), [1757]. <https://doi.org/10.3390/s18061757>

Nair, A. K., Bhavitha, K. B., Perumbilavil, S., Sankar, P., Rouxel, D., Kala, M. S., ... Kalarikkal, N. (2018). Multifunctional nitrogen sulfur co-doped reduced graphene oxide – Ag nano hybrids (sphere, cube and wire) for nonlinear optical and SERS applications. *Carbon*, 132, 380-393. <https://doi.org/10.1016/j.carbon.2018.02.068>

George, L., Hiltunen, A., Santala, V., & Efimov, A. (2018). Photo-antimicrobial efficacy of zinc complexes of porphyrin and phthalocyanine activated by inexpensive consumer LED lamp. *Journal of Inorganic Biochemistry*, 183, 94-100. <https://doi.org/10.1016/j.jinorgbio.2018.03.015>

Virkki, K., Tervola, E., Medel, M., Torres, T., & Tkachenko, N. V. (2018). Effect of Co-Adsorbate and Hole Transporting Layer on the Photoinduced Charge Separation at the TiO<sub>2</sub>-Phthalocyanine Interface. *ACS Omega*, 3(5), 4947-4958. <https://doi.org/10.1021/acsomega.8b00600>

Zhou, K., Dichlberger, A., Martinez-Seara, H., Nyholm, T. K. M., Li, S., Kim, Y. A., ... Blom, T. (2018). A Ceramide-Regulated Element in the Late Endosomal Protein LAPTM4B Controls Amino Acid Transporter Interaction. *ACS Central Science*, 4(5), 548-558. <https://doi.org/10.1021/acscentsci.7b00582>

Raappana, M., Polojärvi, V., Aho, A., Mäkelä, J., Aho, T., Tukiainen, A., ... Guina, M. (2018). Wet etching of dilute nitride GaInNAs, GaInNAsSb, and GaNAsSb alloys lattice-matched to GaAs. *Corrosion Science*, 136, 268-274. <https://doi.org/10.1016/j.corsci.2018.03.018>

- Harra, J., Tuominen, M., Juuti, P., Rissler, J., Koivuluoto, H., Haapanen, J., ... Mäkelä, J. M. (2018). Characteristics of nFOG, an aerosol-based wet thin film coating technique. *Journal of Coatings Technology Research*, 15(3), 623-632. <https://doi.org/10.1007/s11998-017-0022-7>
- Manninen, H., Rotola-Pukkila, M., Aisala, H., Hopia, A., & Laaksonen, T. (2018). Free amino acids and 5'-nucleotides in Finnish forest mushrooms. *Food Chemistry*, 247, 23-28. <https://doi.org/10.1016/j.foodchem.2017.12.014>
- Melcr, J., Martinez-Seara, H., Nencini, R., Kolafa, J., Jungwirth, P., & Ollila, O. H. S. (2018). Accurate Binding of Sodium and Calcium to a POPC Bilayer by Effective Inclusion of Electronic Polarization. *Journal of Physical Chemistry B*, 122(16), 4546-4557. <https://doi.org/10.1021/acs.jpcc.7b12510>
- Khan, M., Koivisto, J., Hukka, T., Hokka, M., & Kellomäki, M. (2018). Composite Hydrogels Using Bioinspired Approach with in Situ Fast Gelation and Self-Healing Ability as Future Injectable Biomaterial. *ACS Applied Materials & Interfaces*, 10(14), 11950-11960. <https://doi.org/10.1021/acsami.8b01351>
- Magarkar, A., Parkkila, P., Viitala, T., Lajunen, T., Mobarak, E., Licari, G., ... Bunker, A. (2018). Membrane bound COMT isoform is an interfacial enzyme: General mechanism and new drug design paradigm. *Chemical Communications*, 54(28), 3440-3443. <https://doi.org/10.1039/c8cc00221e>
- Sassatelli, P., Bolelli, G., Lassinantti Gualtieri, M., Heinonen, E., Honkanen, M., Lusvardi, L., ... Vippola, M. (2018). Properties of HVOF-sprayed Stellite-6 coatings. *Surface and Coatings Technology*, 338, 45-62. <https://doi.org/10.1016/j.surfcoat.2018.01.078>
- Poutanen, M., Ahmed, Z., Rautkari, L., Ikkala, O., & Priimägi, A. (2018). Thermal Isomerization of Hydroxyazobenzenes as a Platform for Vapor Sensing. *ACS Macro Letters*, 7(3), 381-386. <https://doi.org/10.1021/acsmacrolett.8b00093>
- Janka, L., Berger, L. M., Norpoth, J., Trache, R., Thiele, S., Tomastik, C., ... Vuoristo, P. (2018). Improving the high temperature abrasion resistance of thermally sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr coatings by WC addition. *Surface and Coatings Technology*, 337, 296-305. <https://doi.org/10.1016/j.surfcoat.2018.01.035>
- Karvinen, J., Joki, T., Ylä-Outinen, L., Koivisto, J. T., Narkilahti, S., & Kellomäki, M. (2018). Soft hydrazone crosslinked hyaluronan- and alginate-based hydrogels as 3D supportive matrices for human pluripotent stem cell-derived neuronal cells. *Reactive and Functional Polymers*, 124, 29-39. <https://doi.org/10.1016/j.reactfunctpolym.2017.12.019>
- Hannula, M., Ali-Löyty, H., Lahtonen, K., Sarlin, E., Saari, J., & Valden, M. (2018). Improved Stability of Atomic Layer Deposited Amorphous TiO<sub>2</sub> Photoelectrode Coatings by Thermally Induced Oxygen Defects. *Chemistry of Materials*, 30(4), 1199-1208. <https://doi.org/10.1021/acs.chemmater.7b02938>
- Mehrang, S., Pietilä, J., & Korhonen, I. (2018). An activity recognition framework deploying the random forest classifier and a single optical heart rate monitoring and triaxial accelerometer wrist-band. *Sensors*, 18(2), [613]. <https://doi.org/10.3390/s18020613>
- Kainulainen, T. P., Sirviö, J. A., Sethi, J., Hukka, T. I., & Heiskanen, J. P. (2018). UV-Blocking Synthetic Biopolymer from Biomass-Based Bifuran Diester and Ethylene Glycol. *Macromolecules*, 51(5), 1822-1829. <https://doi.org/10.1021/acs.macromol.7b02457>
- Vale, J. R., Rimpiläinen, T., Sievänen, E., Rissanen, K., Afonso, C. A. M., & Candeias, N. R. (2018). Pot-economy autooxidative condensation of 2-Aryl-2-lithio-1,3-dithianes. *Journal of Organic Chemistry*, 83(4), 1948-1958. <https://doi.org/10.1021/acs.joc.7b02896>
- Vaikuntam, S. R., Stöckelhuber, K. W., Subramani Bhagavatheswaran, E., Wießner, S., Scheler, U., Saalwächter, K., ... Das, A. (2018). Entrapped Styrene Butadiene Polymer Chains by Sol-Gel-Derived Silica Nanoparticles with Hierarchical Raspberry Structures. *Journal of Physical Chemistry B*, 122(6), 2010-2022. <https://doi.org/10.1021/acs.jpcc.7b11792>

- Iantovics, L. B., Dehmer, M., & Emmert-Streib, F. (2018). MetrIntSimil-an accurate and robust metric for comparison of similarity in intelligence of any number of cooperative multiagent systems. *Symmetry*, *10*(2), [48]. <https://doi.org/10.3390/sym10020048>
- Barreca, D., Carraro, G., Maccato, C., Altantzis, T., Kaunisto, K., & Gasparotto, A. (2018). Controlled Growth of Supported ZnO Inverted Nanopyramids with Downward Pointing Tips. *Crystal Growth and Design*, *18*(4), 2579-2587. <https://doi.org/10.1021/acs.cgd.8b00198>
- Das, A., Sallat, A., Böhme, F., Sarlin, E., Vuorinen, J., Vennemann, N., ... Stöckelhuber, K. W. (2018). Temperature scanning stress relaxation of an autonomous self-healing elastomer containing non-covalent reversible network junctions. *Polymers*, *10*(1), [94]. <https://doi.org/10.3390/polym10010094>
- Kato, D., Sakai, H., Araki, Y., Wada, T., Tkachenko, N. V., & Hasobe, T. (2018). Concentration-dependent photophysical switching in mixed self-assembled monolayers of pentacene and perylene-3,4,9,10-tetracarboxylic diimide on gold nanoclusters. *Physical Chemistry Chemical Physics*, *20*(13), 8695-8706. <https://doi.org/10.1039/c8cp00174j>
- Saccone, M., Kuntze, K., Ahmed, Z., Siiskonen, A., Giese, M., & Priimagi, A. (2018). Ortho-Fluorination of azophenols increases the mesophase stability of photoresponsive hydrogen-bonded liquid crystals. *Journal of Materials Chemistry C*, *6*(37), 9958-9963. <https://doi.org/10.1039/c8tc02611d>
- Ojha, N., Tuomisto, M., Lastusaari, M., & Petit, L. (2018). Upconversion from fluorophosphate glasses prepared with NaYF<sub>4</sub>:Er<sup>3+</sup>, Yb<sup>3+</sup> nanocrystals. *RSC Advances*, *8*(34), 19226-19236. <https://doi.org/10.1039/c8ra03298j>
- Tienaho, J., Poikulainen, E., Sarjala, T., Muilu-Mäkelä, R., Santala, V., & Karp, M. (2018). A Bioscreening Technique for Ultraviolet Irradiation Protective Natural Substances. *Photochemistry and Photobiology*, *94*(6), 1273-1280. <https://doi.org/10.1111/php.12954>
- Doddapaneni, T. R. K. C., Jain, R., Praveenkumar, R., Rintala, J., Romar, H., & Konttinen, J. (2018). Adsorption of furfural from torrefaction condensate using torrefied biomass. *Chemical Engineering Journal*, *334*, 558-568. <https://doi.org/10.1016/j.cej.2017.10.053>
- Dessi, P., Porca, E., Haavisto, J., Lakaniemi, A-M., Collins, G., & Lens, P. N. L. (2018). Composition and role of the attached and planktonic microbial communities in mesophilic and thermophilic xylose-fed microbial fuel cells. *RSC Advances*, *8*(6), 3069-3080. <https://doi.org/10.1039/c7ra12316g>
- Saarimaa, V., Kaleva, A., Paunikallio, T., Nikkanen, J-P., Heinonen, S., Levänen, E., ... Markkula, A. (2018). Convenient extraction method for quantification of thin zinc patina layers. *Surface and Interface Analysis*, *50*(5), 564-570. <https://doi.org/10.1002/sia.6429>
- Ojha, N., Nguyen, H., Laihin, T., Salminen, T., Lastusaari, M., & Petit, L. (2018). Decomposition of persistent luminescent microparticles in corrosive phosphate glass melt. *Corrosion Science*, *135*, 207-214. <https://doi.org/10.1016/j.corsci.2018.02.050>
- D'Urso, L., Condorelli, M., Puglisi, O., Tempra, C., Lolicato, F., Compagnini, G., & La Rosa, C. (2018). Detection and characterization at nM concentration of oligomers formed by hIAPP, A $\beta$ (1-40) and their equimolar mixture using SERS and MD simulations. *Physical Chemistry Chemical Physics*, *20*(31), 20588-20596. <https://doi.org/10.1039/c7cp08552d>
- Durandin, N. A., Isokuortti, J., Efimov, A., Vuorimaa-Laukkanen, E., Tkachenko, N. V., & Laaksonen, T. (2018). Efficient photon upconversion at remarkably low annihilator concentrations in a liquid polymer matrix: when less is more. *Chemical Communications*, *54*(99), 14029-14032. <https://doi.org/10.1039/c8cc07592a>
- Rokade, S. S., Joshi, K. A., Mahajan, K., Patil, S., Tomar, G., Dubal, D. S., ... Ghosh, S. (2018). Gloriosa superba Mediated Synthesis of Platinum and Palladium Nanoparticles for Induction of Apoptosis in Breast Cancer. *Bioinorganic Chemistry and Applications*, *2018*, [4924186]. <https://doi.org/10.1155/2018/4924186>

- Shakun, A., Poikelispää, M., Das, A., & Vuorinen, J. (2018). Improved electromechanical response in acrylic rubber by different carbon-based fillers. *Polymer Engineering and Science*, *58*(3), 395-404. <https://doi.org/10.1002/pen.24586>
- Rajan, R., Rainosalu, E., Thomas, S. P., Ramamoorthy, S. K., Zavašnik, J., Vuorinen, J., & Skrifvars, M. (2018). Modification of epoxy resin by silane-coupling agent to improve tensile properties of viscose fabric composites. *Polymer Bulletin*, *75*(1), 167-195. <https://doi.org/10.1007/s00289-017-2022-2>
- Virkki, M., Maurice, A., Forni, A., Sironi, M., Dichiarante, V., Brevet, P. F., ... Priimagi, A. (2018). On the molecular optical nonlinearity of halogen-bond-forming azobenzenes. *Physical Chemistry Chemical Physics*, *20*(45), 28810-28817. <https://doi.org/10.1039/c8cp05392h>
- Sadiek, I., Mikkonen, T., Vainio, M., Toivonen, J., & Foltynowicz, A. (2018). Optical frequency comb photoacoustic spectroscopy. *Physical Chemistry Chemical Physics*, *20*(44), 27849-27855. <https://doi.org/10.1039/c8cp05666h>
- Honkanen, M., Wang, J., Kärkkäinen, M., Huuhtanen, M., Jiang, H., Kallinen, K., ... Vippola, M. (2018). Regeneration of sulfur-poisoned Pd-based catalyst for natural gas oxidation. *Journal of Catalysis*, *358*, 253-265. <https://doi.org/10.1016/j.jcat.2017.12.021>
- Nykänen, H., Mpamah, P. A., & Rissanen, A. J. (2018). Stable carbon isotopic composition of peat columns, subsoil and vegetation on natural and forestry-drained boreal peatlands. *Isotopes in Environmental and Health Studies*, *54*(6). <https://doi.org/10.1080/10256016.2018.1523158>
- Vapaavuori, J., Bazuin, C. G., & Priimagi, A. (2018). Supramolecular design principles for efficient photoresponsive polymer-azobenzene complexes. *Journal of Materials Chemistry C*, *6*(9), 2168-2188. <https://doi.org/10.1039/c7tc05005d>
- Saarimaa, V., Kaleva, A., Nikkanen, J-P., Heinonen, S., Levänen, E., Väisänen, P., ... Juhanoja, J. (2017). Supercritical carbon dioxide treatment of hot dip galvanized steel as a surface treatment before coating. *Surface and Coatings Technology*, *331*, 137-142. <https://doi.org/10.1016/j.surfcoat.2017.10.047>
- Lisitsyna, E. S., Ketola, T-M., Morin-Picardat, E., Liang, H., Hanzlíková, M., Urtti, A., ... Vuorimaa-Laukkanen, E. (2017). Time-Resolved Fluorescence Spectroscopy Reveals Fine Structure and Dynamics of Poly(l-lysine) and Polyethylenimine Based DNA Polyplexes. *Journal of Physical Chemistry B*, *121*(48), 10782-10792. <https://doi.org/10.1021/acs.jpcc.7b08394>
- Liimatainen, V., Vuckovac, M., Jokinen, V., Sariola, V., Hokkanen, M. J., Zhou, Q., & Ras, R. H. A. (2017). Mapping microscale wetting variations on biological and synthetic water-repellent surfaces. *Nature Communications*, *8*(1), [1798]. <https://doi.org/10.1038/s41467-017-01510-7>
- Christophliemk, H., Johansson, C., Ullsten, H., & Järnström, L. (2017). Oxygen and water vapor transmission rates of starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper. *Progress in Organic Coatings*, *113*, 218-224. <https://doi.org/10.1016/j.porgcoat.2017.04.019>
- Sippola, R. J., Hadipour, A., Kastinen, T., Vivo, P., Hukka, T. I., Aernouts, T., & Heiskanen, J. P. (2017). Carbazole-based small molecule electron donors: Syntheses, characterization, and material properties. *Dyes and Pigments*, *150*, 79-88. [j.dyepig.2017.11.014]. <https://doi.org/10.1016/j.dyepig.2017.11.014>
- Danne, R., Poojari, C., Martinez-Seara, H., Rissanen, S., Lolicato, F., Róg, T., & Vattulainen, I. (2017). DoGlycans-Tools for Preparing Carbohydrate Structures for Atomistic Simulations of Glycoproteins, Glycolipids, and Carbohydrate Polymers for GROMACS. *Journal of Chemical Information and Modeling*, *57*(10), 2401-2406. <https://doi.org/10.1021/acs.jcim.7b00237>
- Boardman, A. D., Alberucci, A., Assanto, G., Grimalsky, V. V., Kibler, B., McNiff, J., ... Valagiannopoulos, C. A. (2017). Waves in hyperbolic and double negative metamaterials including rogues and solitons. *Nanotechnology*, *28*(44), [444001]. <https://doi.org/10.1088/1361-6528/aa6792>

Christophliemk, H., Ullsten, H., Johansson, C., & Järnström, L. (2017). Starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper and their effects of phase interactions. *Progress in Organic Coatings*, 111, 13-22. <https://doi.org/10.1016/j.porgcoat.2017.04.018>

Isakov, M., Matikainen, V., Koivuluoto, H., & May, M. (2017). Systematic analysis of coating-substrate interactions in the presence of flow localization. *Surface and Coatings Technology*, 324, 264-280. <https://doi.org/10.1016/j.surfcoat.2017.05.040>

Jain, R., Van Hullebusch, E. D., Lenz, M., & Farges, F. (2017). Understanding selenium biogeochemistry in engineered ecosystems: Transformation and analytical methods. teoksessa *Bioremediation of Selenium Contaminated Wastewater* (Sivut 33-56). Springer International Publishing. [https://doi.org/10.1007/978-3-319-57831-6\\_2](https://doi.org/10.1007/978-3-319-57831-6_2)

Timr, Š., Pleskot, R., Kadlec, J., Kohagen, M., Magarkar, A., & Jungwirth, P. (2017). Membrane Binding of Recoverin: From Mechanistic Understanding to Biological Functionality. *ACS Central Science*, 3(8), 868-874. <https://doi.org/10.1021/acscentsci.7b00210>

Pirjola, L., Rönkkö, T., Saukko, E., Parviainen, H., Malinen, A., Alanen, J., & Saveljeff, H. (2017). Exhaust emissions of non-road mobile machine: Real-world and laboratory studies with diesel and HVO fuels. *Fuel*, 202, 154-164. <https://doi.org/10.1016/j.fuel.2017.04.029>

Itävuo, P., Hulthén, E., & Vilkkö, M. (2017). Feed-hopper level estimation and control in cone crushers. *Minerals Engineering*, 110, 82-95. <https://doi.org/10.1016/j.mineng.2017.04.010>

Rahaman, O., Kalimeri, M., Katava, M., Paciaroni, A., & Sterpone, F. (2017). Configurational Disorder of Water Hydrogen-Bond Network at the Protein Dynamical Transition. *Journal of Physical Chemistry Part B*, 121(28), 6792-6798. <https://doi.org/10.1021/acs.jpcc.7b03888>

Poikelispää, M., Shakun, A., Sarlin, E., Das, A., & Vuorinen, J. (2017). Vegetable fillers for electric stimuli responsive elastomers. *Journal of Applied Polymer Science*, 134(28), [45081]. <https://doi.org/10.1002/app.45081>

Suominen, M., Lehtimäki, S., Yewale, R., Damlin, P., Tuukkanen, S., & Kvarnström, C. (2017). Electropolymerized polyazulene as active material in flexible supercapacitors. *Journal of Power Sources*, 356, 181-190. <https://doi.org/10.1016/j.jpowsour.2017.04.082>

Nogueira, I. B. R., Ribeiro, A. M., Martins, M. A. F., Rodrigues, A. E., Koivisto, H., & Loureiro, J. M. (2017). Dynamics of a True Moving Bed separation process: Linear model identification and advanced process control. *Journal of Chromatography A*, 1504. <https://doi.org/10.1016/j.chroma.2017.04.060>

Baek, J., Umeyama, T., Stranius, K., Yamada, H., Tkachenko, N. V., & Imahori, H. (2017). Long-Range Observation of Exciplex Formation and Decay Mediated by One-Dimensional Bridges. *Journal of Physical Chemistry C*, 121(25), 13952-13961. <https://doi.org/10.1021/acs.jpcc.7b04483>

Railanmaa, A., Lehtimäki, S., & Lupo, D. (2017). Comparison of starch and gelatin hydrogels for non-toxic supercapacitor electrolytes. *Applied Physics A-Materials Science and Processing*, 123(6), [459]. <https://doi.org/10.1007/s00339-017-1068-1>

Ma, L., Laasonen, K., & Akola, J. (2017). Catalytic Activity of AuCu Clusters on MgO(100): Effect of Alloy Composition for CO Oxidation. *Journal of Physical Chemistry C*, 121(20), 10876-10886. <https://doi.org/10.1021/acs.jpcc.6b12054>

Goh, J.-Q., Akola, J., & Ferrando, R. (2017). Geometric Structure and Chemical Ordering of Large AuCu Clusters: A Computational Study. *Journal of Physical Chemistry C*, 121(20), 10809-10816. <https://doi.org/10.1021/acs.jpcc.6b11958>

Piccardi, A., Alberucci, A., Kravets, N., Buchnev, O., & Assanto, G. (2017). Nematicon-enhanced spontaneous symmetry breaking. *Molecular Crystals and Liquid Crystals*, *649*(1), 59-65. <https://doi.org/10.1080/15421406.2017.1303916>

Jones, R. O., Ahlstedt, O., Akola, J., & Ropo, M. (2017). Density functional study of structure and dynamics in liquid antimony and  $\text{Sb}_n$  clusters. *Journal of Chemical Physics*, *146*(19), [194502]. <https://doi.org/10.1063/1.4983219>

Kramb, J., Gómez-Barea, A., DeMartini, N., Romar, H., Doddapaneni, T. R. K. C., & Konttinen, J. (2017). The effects of calcium and potassium on  $\text{CO}_2$  gasification of birch wood in a fluidized bed. *Fuel*, *196*, 398-407. <https://doi.org/10.1016/j.fuel.2017.01.101>

Virkki, K., Hakola, H., Urbani, M., Tejerina, L., Ince, M., Martínez-Díaz, M. V., ... Tkachenko, N. V. (2017). Photoinduced Electron Injection from Zinc Phthalocyanines into Zinc Oxide Nanorods: Aggregation Effects. *Journal of Physical Chemistry C*, *121*(17), 9594-9605. <https://doi.org/10.1021/acs.jpcc.7b01562>

Honkanen, M., Hansen, T. W., Jiang, H., Kärkkäinen, M., Huuhtanen, M., Heikkinen, O., ... Vippola, M. (2017). Electron microscopic studies of natural gas oxidation catalyst – Effects of thermally accelerated aging on catalyst microstructure. *Journal of Catalysis*, *349*, 19-29. <https://doi.org/10.1016/j.jcat.2017.03.003>

Mah, P. T., Novakovic, D., Saarinen, J., van Landeghem, S., Peltonen, L., Laaksonen, T., ... Strachan, C. J. (2017). Elucidation of Compression-Induced Surface Crystallization in Amorphous Tablets Using Sum Frequency Generation (SFG) Microscopy. *Pharmaceutical Research*, *34*(5), 957-970. <https://doi.org/10.1007/s11095-016-2046-6>

Higashino, T., Nakatsuji, H., Fukuda, R., Okamoto, H., Imaj, H., Matsuda, T., ... Imahori, H. (2017). Hexaphyrin as a Potential Theranostic Dye for Photothermal Therapy and  $^{19}\text{F}$  Magnetic Resonance Imaging. *ChemBioChem*, *18*(10), 951-959. <https://doi.org/10.1002/cbic.201700071>

Bilkova, E., Pleskot, R., Rissanen, S., Sun, S., Czogalla, A., Cwiklik, L., ... Coskun, Ü. (2017). Calcium Directly Regulates Phosphatidylinositol 4,5-Bisphosphate Headgroup Conformation and Recognition. *Journal of the American Chemical Society*, *139*(11), 4019-4024. <https://doi.org/10.1021/jacs.6b11760>

Milani, R., Houbenov, N., Fernandez-Palacio, F., Cavallo, G., Luzio, A., Haataja, J., ... Ikkala, O. (2017). Hierarchical Self-Assembly of Halogen-Bonded Block Copolymer Complexes into Upright Cylindrical Domains. *Chem*, *2*(3), 417-426. <https://doi.org/10.1016/j.chempr.2017.02.003>

Guixà-González, R., Albasanz, J. L., Rodríguez-Espigares, I., Pastor, M., Sanz, F., Martí-Solano, M., ... Selent, J. (2017). Membrane cholesterol access into a G-protein-coupled receptor. *Nature Communications*, *8*, [14505]. <https://doi.org/10.1038/ncomms14505>

Izdebskaya, Y., Shvedov, V., Assanto, G., & Krolikowski, W. (2017). Magnetic routing of light-induced waveguides. *Nature Communications*, *8*, [14452]. <https://doi.org/10.1038/ncomms14452>

Siiskonen, A., & Priimägi, A. (2017). Benchmarking DFT methods with small basis sets for the calculation of halogen-bond strengths. *Journal of Molecular Modeling*, *23*(2), [50]. <https://doi.org/10.1007/s00894-017-3212-4>

Balanta, M. A. G., Orsi Gordo, V., Carvalho, A. R. H., Puustinen, J., Alghamdi, H. M., Henini, M., ... Galvão Gobato, Y. (2017). Polarization resolved photoluminescence in  $\text{GaAs}_{1-x}\text{Bi}_x/\text{GaAs}$  quantum wells. *Journal of Luminescence*, *182*, 49-52. <https://doi.org/10.1016/j.jlumin.2016.10.008>

Kovács, P. T., Zare, A., Balogh, T., Bregovic, R., & Gotchev, A. (2017). Architectures and codecs for real-time light field streaming. *Journal of Imaging Science and Technology*, *61*(1), [010403]. <https://doi.org/10.2352/J.ImagingSci.Technol.2017.61.1.010403>



- Suokas, E. (2017). Effect of air gap on the adhesion of PET layer on cardboard substrate in extrusion coating. teoksessa *16th TAPPI European PLACE Conference 2017* (Sivut 529-544). TAPPI Press.
- Lahti, J., Kämpuri, T., & Kuusipalo, J. (2017). Novel bio-based materials for active and intelligent packaging. teoksessa *16th TAPPI European PLACE Conference 2017* TAPPI Press.
- Lahti, J., Kuusipalo, J., & Auvinen, S. (2017). Novel equipment to simulate hot air heat sealability of packaging materials. teoksessa *16th TAPPI European PLACE Conference 2017* (Sivut 237-248). TAPPI Press.
- Kuusipalo, J., & Lahti, J. (2017). Tampere University of Technology, laboratory of materials science, paper converting and packaging technology Tampere, Finland. teoksessa *16th TAPPI European PLACE Conference 2017: Basel; Switzerland; 22 May 2017 through 24 May 2017* (Vuosikerta May-2017). TAPPI Press.
- Fabert, M., Ojha, N., Erasmus, E., Hannula, M., Hokka, M., Hyttinen, J., ... Massera, J. (2017). Crystallization and sintering of borosilicate bioactive glasses for application in tissue engineering. *Journal of Materials Chemistry B*, *5*(23), 4514-4525. <https://doi.org/10.1039/c7tb00106a>
- Kordmahaleh, A. A., Naghashzadegan, M., Javaherdeh, K., & Khoshgoftar, M. (2017). Design of a 25 MWe Solar Thermal Power Plant in Iran with Using Parabolic Trough Collectors and a Two-Tank Molten Salt Storage System. *International Journal of Photoenergy*, *2017*, [4210184]. <https://doi.org/10.1155/2017/4210184>
- Golovanov, V. V., Nazarchuk, B. V., Golovanova, V. V., Tkachenko, N. V., & Rantala, T. T. (2017). Effects of orientation at the phthalocyanine-CdSe interface on the electron transfer characteristics. *Physical Chemistry Chemical Physics*, *19*(16), 10511-10517. <https://doi.org/10.1039/c7cp00833c>
- Vuorimaa-Laukkanen, E., Lisitsyna, E. S., Ketola, T-M., Morin-Pickardat, E., Liang, H., Hanzlikova, M., ... Laaksonen, T. (2017). *Fluorescence spectroscopy "knife" for polyplex "cakes": taste the filling*. Julkaisun esittämispaiikka: 30 Years of Drug Delivery Research, Kuopio, Suomi.
- Mojica, E., Pertuz, S., & Arguello, H. (2017). High-resolution coded-aperture design for compressive X-ray tomography using low resolution detectors. *Optics Communications*, *404*, 103-109. <https://doi.org/10.1016/j.optcom.2017.06.053>
- Vuori, L., Ali-Löytty, H., Lahtonen, K., Hannula, M., Lehtonen, E., Niu, Y., & Valden, M. (2017). Improved corrosion properties of Hot Dip Galvanized Steel by nanomolecular silane layers as hybrid interface between zinc and top coatings. *Corrosion*, *73*(2). <https://doi.org/10.5006/2206>
- Mäkelä, J. M., Haapanen, J., Harra, J., Juuti, P., & Kujanpää, S. (2017). Liquid flame spray—a hydrogen-oxygen flame based method for nanoparticle synthesis and functional nanocoatings. *KONA POWDER AND PARTICLE JOURNAL*, *2017* (34), 141-154. <https://doi.org/10.14356/kona.2017020>
- Baek, J., Umeyama, T., Mizuno, S., Tkachenko, N. V., & Imahori, H. (2017). Photophysical properties of porphyrin dimer-single-walled carbon nanotube linked systems. *Journal of Physical Chemistry C*, *121*(39). <https://doi.org/10.1021/acs.jpcc.7b08594>
- Saccone, M., Palacio, F. F., Cavallo, G., Dichiarante, V., Virkki, M., Terraneo, G., ... Metrangolo, P. (2017). Photoresponsive ionic liquid crystals assembled: Via halogen bond: En route towards light-controllable ion transporters. *Faraday Discussions*, *203*, 407-422. <https://doi.org/10.1039/c7fd00120g>
- Vapaavuori, J., Siiskonen, A., Dichiarante, V., Forni, A., Saccone, M., Pilati, T., ... Priimagi, A. (2017). Supramolecular control of liquid crystals by doping with halogen-bonding dyes. *RSC Advances*, *7*(64), 40237-40242. <https://doi.org/10.1039/c7ra06397k>

- Lahbib, I., Valkonen, A., Rzaigui, M., & Smirani, W. (2017). Synthesis, Structural Characterization, Hirshfeld Surface and Antioxidant Activity Analysis of a Novel Organic Cation Antimonate Complex. *Journal of Cluster Science*, 28(4), 2239–2252. <https://doi.org/10.1007/s10876-017-1217-x>
- Javanainen, M., Melcrová, A., Magarkar, A., Jurkiewicz, P., Hof, M., Jungwirth, P., & Martinez-Seara, H. (2017). Two cations, two mechanisms: Interactions of sodium and calcium with zwitterionic lipid membranes. *Chemical Communications*, 53(39), 5380-5383. <https://doi.org/10.1039/c7cc02208e>
- Ntziachristos, L., Saukko, E., Lehtoranta, K., Rönkkö, T., Timonen, H., Simonen, P., ... Keskinen, J. (2016). Particle emissions characterization from a medium-speed marine diesel engine with two fuels at different sampling conditions. *Fuel*, 186, 456-465. <https://doi.org/10.1016/j.fuel.2016.08.091>
- Varis, T., Suhonen, T., Calonius, O., Čubán, J., & Pietola, M. (2016). Optimization of HVOF Cr<sub>3</sub>C<sub>2</sub>-NiCr coating for increased fatigue performance. *Surface and Coatings Technology*, 305, 123-131. <https://doi.org/10.1016/j.surfcoat.2016.08.012>
- Ropo, M., Akola, J., & Jones, R. O. (2016). Collective excitations and viscosity in liquid Bi. *Journal of Chemical Physics*, 145(18), [184502]. <https://doi.org/10.1063/1.4965429>
- Poikelispää, M., Shakun, A., Das, A., & Vuorinen, J. (2016). Improvement of actuation performance of dielectric elastomers by barium titanate and carbon black fillers. *Journal of Applied Polymer Science*, 133(42), [44116]. <https://doi.org/10.1002/app.44116>
- Smith, J. D., Mitsakou, C., Kitwiroon, N., Barratt, B. M., Walton, H. A., Taylor, J. G., ... Beevers, S. D. (2016). London Hybrid Exposure Model: Improving Human Exposure Estimates to NO<sub>2</sub> and PM<sub>2.5</sub> in an Urban Setting. *Environmental Science and Technology*, 50(21), 11760-11768. <https://doi.org/10.1021/acs.est.6b01817>
- Ali-Löytty, H., Hannula, M., Honkanen, M., Östman, K., Lahtonen, K., & Valden, M. (2016). Grain orientation dependent Nb-Ti microalloying mediated surface segregation on ferritic stainless steel. *Corrosion Science*, 112, 204-213. <https://doi.org/10.1016/j.corsci.2016.07.024>
- Reisberg, L., Pärna, R., Kikas, A., Kuusik, I., Kisand, V., Hirsimäki, M., ... Nõmmiste, E. (2016). UPS and DFT investigation of the electronic structure of gas-phase trimesic acid. *Journal of Electron Spectroscopy and Related Phenomena*, 213, 11-16. <https://doi.org/10.1016/j.elspec.2016.10.004>
- Will, O. M., Purcz, N., Chalaris, A., Heneweer, C., Boretius, S., Purcz, L., ... Tiwari, S. (2016). Increased survival rate by local release of diclofenac in a murine model of recurrent oral carcinoma. *International Journal of Nanomedicine*, 11, 5311-5321. <https://doi.org/10.2147/IJN.S109199>
- Kramb, J., Konttinen, J., Backman, R., Salo, K., & Roberts, M. (2016). Elimination of arsenic-containing emissions from gasification of chromated copper arsenate wood. *Fuel*, 181, 319-324. <https://doi.org/10.1016/j.fuel.2016.04.109>
- Zhou, Q., Sariola, V., Latifi, K., & Liimatainen, V. (2016). Controlling the motion of multiple objects on a Chladni plate. *Nature Communications*, 7, [12764]. <https://doi.org/10.1038/ncomms12764>
- Robison, A. D., Sun, S., Poyton, M. F., Johnson, G. A., Pellois, J. P., Jungwirth, P., ... Cremer, P. S. (2016). Polyarginine Interacts More Strongly and Cooperatively than Polylysine with Phospholipid Bilayers. *Journal of Physical Chemistry Part B*, 120(35), 9287-9296. <https://doi.org/10.1021/acs.jpcc.6b05604>
- Pilehrood, M. K., Atashi, A., Sadeghi-Aliabadi, H., Nousiainen, P., & Harlin, A. (2016). 3D micro-nano structured hybrid scaffolds: An investigation into the role of nanofiber coating on viability, proliferation and differentiation of seeded mesenchymal stem cells. *Journal Nanoscience and Nanotechnology*, 16(9), 9000-9007. <https://doi.org/10.1166/jnn.2016.12740>

Stöckelhuber, K. W., Das, A., & Klüppel, M. (Toimittajat) (2016). *Designing of Elastomer Nanocomposites: From Theory to Application*. (Advances in Polymer Science; Vuosikerta 275). Springer International Publishing. <https://doi.org/10.1007/978-3-319-47696-4>

Basu, D., Das, A., Stöckelhuber, K. W., & Wießner, S. (2016). Nanostructured Ionomeric Elastomers. teoksessa K. W. Stöckelhuber, A. Das, & M. Klüppel (Toimittajat), *Designing of Elastomer Nanocomposites: From Theory to Applications* (Sivut 235-266). (Advances in Polymer Science; Vuosikerta 275). Springer International Publishing. [https://doi.org/10.1007/12\\_2016\\_8](https://doi.org/10.1007/12_2016_8)

Mylläri, V., Hartikainen, S., Poliakova, V., Anderson, R., Jönkkäri, I., Pasanen, P., ... Vuorinen, J. (2016). Detergent impurity effect on recycled HDPE: Properties after repetitive processing. *Journal of Applied Polymer Science*, 133(31), [43766]. <https://doi.org/10.1002/app.43766>

Garifullin, M., Sinelnikov, A., Bronzova, M., Kovacic, B., & Kamnik, R. (2016). Buckling Behavior of Cold-Formed Studs with Thermal Perforations. *MATEC Web of Conferences*, 73, [04011]. <https://doi.org/10.1051/mateconf/20167304011>

Kapgate, B. P., Das, C., Das, A., Basu, D., Wiessner, S., Reuter, U., & Heinrich, G. (2016). Reinforced chloroprene rubber by in situ generated silica particles: Evidence of bound rubber on the silica surface. *Journal of Applied Polymer Science*, 133(30), [43717]. <https://doi.org/10.1002/app.43717>

Luna, E., Wu, M., Hanke, M., Puustinen, J., Guina, M., & Trampert, A. (2016). Spontaneous formation of three-dimensionally ordered Bi-rich nanostructures within GaAs<sub>1-x</sub>Bi<sub>x</sub>/GaAs quantum wells. *Nanotechnology*, 27(32), [325603]. <https://doi.org/10.1088/0957-4484/27/32/325603>

Kärkkäinen, M., Kolli, T., Honkanen, M., Heikkinen, O., Väliheikki, A., Huuhtanen, M., ... Keiski, R. L. (2016). The Influence of Phosphorus Exposure on a Natural-Gas-Oxidation Catalyst. *Topics in Catalysis*, 59(10-12), 1044-1048. <https://doi.org/10.1007/s11244-016-0587-x>

Poutanen, M., Ikkala, O., & Priimägi, A. (2016). Structurally Controlled Dynamics in Azobenzene-Based Supramolecular Self-Assemblies in Solid State. *Macromolecules*, 49(11), 4095-4101. <https://doi.org/10.1021/acs.macromol.6b00562>

Isotahdon, E., Huttunen-Saarivirta, E., & Kuokkala, V-T. (2016). Development of Magnetic Losses During Accelerated Corrosion Tests for Nd-Fe-B Magnets Used in Permanent Magnet Generators. *Corrosion*, 72(6), 732-741. <https://doi.org/10.5006/2037>

Sharma, R., Bhalerao, S., & Gupta, D. (2016). Effect of incorporation of CdS NPs on performance of PTB7: PCBM organic solar cells. *Organic Electronics: physics, materials, applications*, 33, 274-280. <https://doi.org/10.1016/j.orgel.2016.03.030>

Razavi, A., Valkama, M., & Lohan, E. S. (2016). Robust statistical approaches for RSS-based floor detection in indoor localization. *Sensors*, 16(6), [793]. <https://doi.org/10.3390/s16060793>

Soto, A. M., Koivisto, J. T., Parraga, J. E., Silva-Correia, J., Oliveira, J. M., Reis, R. L., ... Figueiras, E. (2016). Optical Projection Tomography Technique for Image Texture and Mass Transport Studies in Hydrogels Based on Gellan Gum. *Langmuir*, 32(20), 5173-5182. <https://doi.org/10.1021/acs.langmuir.6b00554>

La Rosa, C., Scalisi, S., Lolicato, F., Pannuzzo, M., & Raudino, A. (2016). Lipid-assisted protein transport: A diffusion-reaction model supported by kinetic experiments and molecular dynamics simulations. *Journal of Chemical Physics*, 144(18), [184901]. <https://doi.org/10.1063/1.4948323>

Hakola, H., Sariola-Leikas, E., Efimov, A., & Tkachenko, N. V. (2016). Effect of Hole Transporting Material on Charge Transfer Processes in Zinc Phthalocyanine Sensitized ZnO Nanorods. *Journal of Physical Chemistry C*, 120(13), 7044-7051. <https://doi.org/10.1021/acs.jpcc.6b01583>

Janka, L., Norpoth, J., Trache, R., & Berger, L. M. (2016). Influence of heat treatment on the abrasive wear resistance of a Cr<sub>3</sub>C<sub>2</sub>NiCr coating deposited by an ethene-fuelled HVOF spray process. *Surface and Coatings Technology*, 291, 444-451. <https://doi.org/10.1016/j.surfcoat.2016.02.066>

Fernandez-Palacio, F., Saccone, M., Priimägi, A., Terraneo, G., Pilati, T., Metrangolo, P., & Resnati, G. (2016). Coordination networks incorporating halogen-bond donor sites and azobenzene groups. *CrystEngComm*, 18(13), 2251-2257. <https://doi.org/10.1039/c6ce00059b>

Nisato, G., Lupo, D., & Ganz, S. (Toimittajat) (2016). *Organic and Printed Electronics: Fundamentals and Applications*. (1 toim.) Singapore: PAN STANFORD PUBLISHING. <https://doi.org/10.1201/b20043>

Ma, L., Melander, M., Weckman, T., Lipasti, S., Laasonen, K., & Akola, J. (2016). DFT simulations and microkinetic modelling of 1-pentyne hydrogenation on Cu<sub>20</sub> model catalysts. *Journal of Molecular Graphics and Modelling*, 65, 61-70. <https://doi.org/10.1016/j.jmgm.2016.02.007>

Viljanen, J., Sun, Z., & Alwahabi, Z. T. (2016). Microwave assisted laser-induced breakdown spectroscopy at ambient conditions. *Spectrochimica Acta Part B: Atomic Spectroscopy*, 118, 29-36. <https://doi.org/10.1016/j.sab.2016.02.002>

Isakov, M., Kokkonen, J., Östman, K., & Kuokkala, V-T. (2016). Strain rate change tests with the Split Hopkinson Bar method. *European Physical Journal. Special Topics*, 225(2), 231-242. <https://doi.org/10.1140/epjst/e2015-99999-x>

Mal, J., Nancharaiah, Y. V., Van Hullebusch, E. D., & Lens, P. N. L. (2016). Metal chalcogenide quantum dots: Biotechnological synthesis and applications. *RSC Advances*, 6(47), 41477-41495. <https://doi.org/10.1039/c6ra08447h>

Sakuma, T., Sakai, H., Araki, Y., Mori, T., Wada, T., Tkachenko, N. V., & Hasobe, T. (2016). Long-Lived Triplet Excited States of Bent-Shaped Pentacene Dimers by Intramolecular Singlet Fission. *Journal of Physical Chemistry A*, 120(11), 1867-1875. <https://doi.org/10.1021/acs.jpca.6b00988>

Katava, M., Kalimeri, M., Stirnemann, G., & Sterpone, F. (2016). Stability and Function at High Temperature. What Makes a Thermophilic GTPase Different from Its Mesophilic Homologue. *Journal of Physical Chemistry Part B*, 120(10), 2721-2730. <https://doi.org/10.1021/acs.jpcc.6b00306>

Szabo, H. M., Lepistö, R., & Tuhkanen, T. (2016). HPLC-SEC: a new approach to characterise complex wastewater effluents. *International Journal of Environmental Analytical Chemistry*, 96(3), 257-270. <https://doi.org/10.1080/03067319.2016.1150463>

Salunke, J. K., Wong, F. L., Feron, K., Manzhos, S., Lo, M. F., Shinde, D., ... Wadgaonkar, P. P. (2016). Phenothiazine and carbazole substituted pyrene based electroluminescent organic semiconductors for OLED devices. *Journal of Materials Chemistry C*, 4(5), 1009-1018. <https://doi.org/10.1039/c5tc03690a>

Ali-Löytty, H., Louie, M. W., Singh, M. R., Li, L., Sanchez Casalongue, H. G., Ogasawara, H., ... Friebel, D. (2016). Ambient-Pressure XPS Study of a Ni-Fe Electrocatalyst for the Oxygen Evolution Reaction. *Journal of Physical Chemistry C*, 120(4), 2247-2253. <https://doi.org/10.1021/acs.jpcc.5b10931>

Allolio, C., Baxova, K., Vazdar, M., & Jungwirth, P. (2016). Guanidinium Pairing Facilitates Membrane Translocation. *Journal of Physical Chemistry Part B*, 120(1), 143-153. <https://doi.org/10.1021/acs.jpcc.5b10404>

Pirjola, L., Dittrich, A., Niemi, J. V., Saarikoski, S., Timonen, H., Kuuluvainen, H., ... Hillamo, R. (2016). Physical and Chemical Characterization of Real-World Particle Number and Mass Emissions from City Buses in Finland. *Environmental Science and Technology*, 50(1), 294-304. <https://doi.org/10.1021/acs.est.5b04105>

Lee, T. Y., Ramasamy, P., Oh, Y. K., Lee, K., & Kim, S. H. (2016). Alginate microgels created by selective coalescence between core drops paired with an ultrathin shell. *Journal of Materials Chemistry B*, 4(19), 3232-3238. <https://doi.org/10.1039/c6tb00580b>

Santos, F. M. F., Rosa, J. N., Candeias, N. R., Carvalho, C. P., Matos, A. I., Ventura, A. E., ... Gois, P. M. P. (2016). A Three-Component Assembly Promoted by Boronic Acids Delivers a Modular Fluorophore Platform (BASHY Dyes). *Chemistry: A European Journal*, 22(5), 1631-1637. <https://doi.org/10.1002/chem.201503943>

Kulig, W., Cwiklik, L., Jurkiewicz, P., Rog, T., & Vattulainen, I. (2016). Cholesterol oxidation products and their biological importance. *Chemistry and Physics of Lipids*, 199, 144-160. <https://doi.org/10.1016/j.chemphyslip.2016.03.001>

Bansod, N. D., Kapgade, B. P., Das, C., Das, A., Basu, D., & Debnath, S. C. (2016). Compatibilization of natural rubber/nitrile rubber blends by sol-gel nano-silica generated by in situ method. *JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY*, 80(2), 548-559. <https://doi.org/10.1007/s10971-016-4114-0>

Horinouchi, H., Sakai, H., Araki, Y., Sakanoue, T., Takenobu, T., Wada, T., ... Hasobe, T. (2016). Controllable Electronic Structures and Photoinduced Processes of Bay-Linked Peryleneimide Dimers and a Ferrocene-Linked Triad. *Chemistry: A European Journal*, 22(28), 9631-9641. <https://doi.org/10.1002/chem.201601058>

Halder, A., Kandambeth, S., Biswal, B. P., Kaur, G., Roy, N. C., Addicoat, M., ... Banerjee, R. (2016). Decoding the Morphological Diversity in Two Dimensional Crystalline Porous Polymers by Core Planarity Modulation. *Angewandte Chemie (International Edition)*, 55(27), 7806-7810. <https://doi.org/10.1002/anie.201600087>

Spataru, A., Jain, R., Chung, J. W., Gerner, G., Krebs, R., & Lens, P. N. L. (2016). Enhanced adsorption of orthophosphate and copper onto hydrochar derived from sewage sludge by KOH activation. *RSC Advances*, 6(104), 101827-101834. <https://doi.org/10.1039/c6ra22327c>

Basu, D., Das, A., Wang, D. Y., George, J. J., Stöckelhuber, K. W., Boldt, R., ... Heinrich, G. (2016). Fire-safe and environmentally friendly nanocomposites based on layered double hydroxides and ethylene propylene diene elastomer. *RSC Advances*, 6(31), 26425-26436. <https://doi.org/10.1039/c5ra27444c>

Rocherullé, J., Massera, J., Oudadesse, H., Calvez, L., Trolès, J., & Zhang, X. H. (2016). Heat capacities of crystalline and glassy lithium metaphosphate up to the transition region. *Journal of Thermal Analysis and Calorimetry*, 123(1), 401-407. <https://doi.org/10.1007/s10973-015-4938-9>

Kato, D., Sakai, H., Tkachenko, N. V., & Hasobe, T. (2016). High-Yield Excited Triplet States in Pentacene Self-Assembled Monolayers on Gold Nanoparticles through Singlet Exciton Fission. *Angewandte Chemie (International Edition)*, 55(17), 5230-5234. <https://doi.org/10.1002/anie.201601421>

Lahti, J. (2016). Nanoscale barrier coating on BOPP packaging film by ALD. teoksessa *TAPPI PLACE Conference 2016: Exploring New Frontiers* (Sivut 493-505). TAPPI Press.

Perumbilavil, S., Sridharan, K., Abraham, A. R., Janardhanan, H. P., Kalarikkal, N., & Philip, R. (2016). Nonlinear transmittance and optical power limiting in magnesium ferrite nanoparticles: effects of laser pulsewidth and particle size. *RSC Advances*, 6(108), 106754-106761. <https://doi.org/10.1039/c6ra15788b>

Kastinen, T., Niskanen, M., Risko, C., Cramariuc, O., & Hukka, T. I. (2016). On describing the optoelectronic characteristics of poly(benzodithiophene-: Co -quinoxaline)-fullerene complexes: The influence of optimally tuned density functionals. *Physical Chemistry Chemical Physics*, 18(39), 27654-27670. <https://doi.org/10.1039/c6cp04567g>

Kattiparambil Rajan, D., Patrikoski, M., Verho, J., Sivula, J., Ihalainen, H., Miettinen, S., & Lekkala, J. (2016). Optical non-contact pH measurement in cell culture with sterilizable, modular parts. *Talanta*, 161, 755-761. <https://doi.org/10.1016/j.talanta.2016.09.021>

Akamatsu, N., Aizawa, M., Tatsumi, R., Hisano, K., Priimägi, A., & Shishido, A. (2016). Photoresponsive liquid-crystalline polymer films bilayered with an inverse opal structure. *JOURNAL OF PHOTOPOLYMER SCIENCE AND TECHNOLOGY*, 29(1), 145-148. <https://doi.org/10.2494/photopolymer.29.145>

Jain, R., Dominic, D., Jordan, N., Rene, E. R., Weiss, S., van Hullebusch, E. D., ... Lens, P. N. L. (2016). Preferential adsorption of Cu in a multi-metal mixture onto biogenic elemental selenium nanoparticles. *Chemical Engineering Journal*, 284, 917-925. <https://doi.org/10.1016/j.cej.2015.08.144>

Higashino, T., Yamada, T., Yamamoto, M., Furube, A., Tkachenko, N. V., Miura, T., ... Imahori, H. (2016). Remarkable Dependence of the Final Charge Separation Efficiency on the Donor-Acceptor Interaction in Photoinduced Electron Transfer. *Angewandte Chemie (International Edition)*, 55(2), 629-633. <https://doi.org/10.1002/anie.201509067>

Cavallo, G., Terraneo, G., Monfredini, A., Saccone, M., Priimägi, A., Pilati, T., ... Bruce, D. W. (2016). Superfluorinated Ionic Liquid Crystals Based on Supramolecular, Halogen-Bonded Anions. *Angewandte Chemie (International Edition)*, 55(21), 6300-6304. <https://doi.org/10.1002/anie.201601278>

Matsuo, S., Yamazoe, S., Goh, J-Q., Akola, J., & Tsukuda, T. (2016). The electrooxidation-induced structural changes of gold di-superatomic molecules: Au<sub>23</sub> vs. Au<sub>25</sub>. *Physical Chemistry Chemical Physics*, 18(6), 4822-4827. <https://doi.org/10.1039/c5cp06969f>

Golovanov, V., Golovanova, V., & Rantala, T. T. (2016). Thermal desorption of molecular oxygen from SnO<sub>2</sub> (110) surface: Insights from first-principles calculations. *Journal of Physics and Chemistry of Solids*, 89, 15-22. <https://doi.org/10.1016/j.jpccs.2015.10.010>

Farooq, A., Evreinov, G., Raisamo, R., & Takahata, D. (2015). Evaluating transparent liquid screen overlay as a haptic conductor: Method of enhancing touchscreen based user interaction by a transparent deformable liquid screen overlay. teoksessa *2015 IEEE SENSORS - Proceedings* [7370186] Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/ICSENS.2015.7370186>

Su, W., Cooper, J. R., Cook, B. S., Tentzeris, M. M., Mariotti, C., & Roselli, L. (2015). Inkjet-printed dual microfluidic-based sensor integrated system. teoksessa *2015 IEEE SENSORS - Proceedings* [7370300] Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/ICSENS.2015.7370300>

Dhieb, A. C., Valkonen, A., Rzaigui, M., & Smirani, W. (2015). Synthesis, crystal structure, physico-chemical characterization and dielectric properties of a new hybrid material, 1-Ethylpiperazine-1,4-dium tetrachlorocadmate. *Journal of Molecular Structure*, 1102, 50-56. <https://doi.org/10.1016/j.molstruc.2015.08.044>

Alanen, J., Saukko, E., Lehtoranta, K., Murtonen, T., Timonen, H., Hillamo, R., ... Rönkkö, T. (2015). The formation and physical properties of the particle emissions from a natural gas engine. *Fuel*, 162, 155-161. <https://doi.org/10.1016/j.fuel.2015.09.003>

Ihalainen, T. O., Aires, L., Herzog, F. A., Schwartlander, R., Moeller, J., & Vogel, V. (2015). Differential basal-to-apical accessibility of lamin A/C epitopes in the nuclear lamina regulated by changes in cytoskeletal tension. *Nature Materials*, 14(12), 1252-1261. <https://doi.org/10.1038/nmat4389>

Mäki, A. J., Peltokangas, M., Kreuzer, J., Auvinen, S., & Kallio, P. (2015). Modeling carbon dioxide transport in PDMS-based microfluidic cell culture devices. *Chemical Engineering Science*, 137, 515-524. <https://doi.org/10.1016/j.ces.2015.06.065>

Kaouk, A., Ruoko, T. P., Gönüllü, Y., Kaunisto, K., Mettenböcker, A., Gurevich, E., ... Mathur, S. (2015). Graphene-intercalated Fe<sub>2</sub>O<sub>3</sub>/TiO<sub>2</sub> heterojunctions for efficient photoelectrolysis of water. *RSC Advances*, 5(123), 101401-101407. <https://doi.org/10.1039/c5ra18330h>

- Seo, J. Y., Lee, K., Ramasamy, P., Kim, B., Lee, S. Y., Oh, Y. K., & Park, S. B. (2015). Tri-functionality of Fe<sub>3</sub>O<sub>4</sub>-embedded carbon microparticles in microalgae harvesting. *Chemical Engineering Journal*, 280, 206-214. <https://doi.org/10.1016/j.cej.2015.05.122>
- Zorzi, G. K., Párraga, J. E., Seijo, B., & Sanchez, A. (2015). Comparison of different cationized proteins as biomaterials for nanoparticle-based ocular gene delivery. *Colloids and Surfaces B: Biointerfaces*, 135, 533-541. <https://doi.org/10.1016/j.colsurfb.2015.08.008>
- Le, H. H., Parsaker, M., Sriharish, M. N., Henning, S., Menzel, M., Wießner, S., ... Radusch, H. J. (2015). Effect of rubber polarity on selective wetting of carbon nanotubes in ternary blends. *Express Polymer Letters*, 9(11), 960-971. <https://doi.org/10.3144/expresspolymlett.2015.87>
- Vapaavuori, J., Laventure, A., Bazuin, C. G., Lebel, O., & Pellerin, C. (2015). Submolecular Plasticization Induced by Photons in Azobenzene Materials. *Journal of the American Chemical Society*, 137(42), 13510-13517. <https://doi.org/10.1021/jacs.5b06611>
- Vapaavuori, J., Heikkinen, I. T. S., Dichiarante, V., Resnati, G., Metrangolo, P., Sabat, R. G., ... Pellerin, C. (2015). Photomechanical Energy Transfer to Photopassive Polymers through Hydrogen and Halogen Bonds. *Macromolecules*, 48(20), 7535-7542. <https://doi.org/10.1021/acs.macromol.5b01813>
- Vapaavuori, J., Grosrenaud, J., Pellerin, C., & Bazuin, C. G. (2015). In Situ Photocontrol of Block Copolymer Morphology during Dip-Coating of Thin Films. *ACS Macro Letters*, 4(10), 1158-1162. <https://doi.org/10.1021/acsmacrolett.5b00483>
- Mylläri, V., Fatarella, E., Ruzzante, M., Pogni, R., Baratto, M. C., Skrifvars, M., ... Järvelä, P. (2015). Production of sulfonated polyetheretherketone/polypropylene fibers for photoactive textiles. *Journal of Applied Polymer Science*, 132(39), [42595]. <https://doi.org/10.1002/app.42595>
- Moradi, M., Enkavi, G., & Tajkhorshid, E. (2015). Atomic-level characterization of transport cycle thermodynamics in the glycerol-3-phosphate: Phosphate antiporter. *Nature Communications*, 6, [8393]. <https://doi.org/10.1038/ncomms9393>
- Orlowski, A., Kukkurainen, S., Pöyry, A., Rissanen, S., Vattulainen, I., Hytönen, V. P., & Róg, T. (2015). PIP2 and Talin Join Forces to Activate Integrin. *Journal of Physical Chemistry Part B*, 119(38), 12381-12389. <https://doi.org/10.1021/acs.jpcc.5b06457>
- Bhagavatheswaran, E. S., Parsekar, M., Das, A., Le, H. H., Wiessner, S., Stöckelhuber, K. W., ... Heinrich, G. (2015). Construction of an Interconnected Nanostructured Carbon Black Network: Development of Highly Stretchable and Robust Elastomeric Conductors. *Journal of Physical Chemistry C*, 119(37), 21723-21731. <https://doi.org/10.1021/acs.jpcc.5b06629>
- Milanti, A., Matikainen, V., Koivuluoto, H., Bolelli, G., Lusvarghi, L., & Vuoristo, P. (2015). Effect of spraying parameters on the microstructural and corrosion properties of HVAF-sprayed Fe-Cr-Ni-B-C coatings. *Surface and Coatings Technology*, 277, 81-90. <https://doi.org/10.1016/j.surfcoat.2015.07.018>
- Goh, J. Q., & Akola, J. (2015). Superatom Model for Ag-S Nanocluster with Delocalized Electrons. *Journal of Physical Chemistry C*, 119(36), 21165-21172. <https://doi.org/10.1021/acs.jpcc.5b05824>
- Ter Schiphorst, J., Coleman, S., Stumpel, J. E., Ben Azouz, A., Diamond, D., & Schenning, A. P. H. J. (2015). Molecular Design of Light-Responsive Hydrogels, for in Situ Generation of Fast and Reversible Valves for Microfluidic Applications. *Chemistry of Materials*, 27(17), 5925-5931. <https://doi.org/10.1021/acs.chemmater.5b01860>
- Frankberg, E. J., George, L., Efimov, A., Honkanen, M., Pessi, J., & Levänen, E. (2015). Measuring synthesis yield in graphene oxide synthesis by modified hummers method. *Fullerenes Nanotubes and Carbon Nanostructures*, 23(9), 755-759. <https://doi.org/10.1080/1536383X.2014.993754>

- Bajamundi, C. J. E., Vainikka, P., Hedman, M., Silvennoinen, J., Heinanen, T., Taipale, R., & Konttinen, J. (2015). Searching for a robust strategy for minimizing alkali chlorides in fluidized bed boilers during burning of high SRF-energy-share fuel. *Fuel*, *155*, 25-36. <https://doi.org/10.1016/j.fuel.2015.03.087>
- Tukiainen, A., Likonen, J., Toikkanen, L., & Leinonen, T. (2015). Unintentional boron contamination of MBE-grown GaInP/AlGaInP quantum wells. *Journal of Crystal Growth*, *425*, 60-63. <https://doi.org/10.1016/j.jcrysgro.2015.02.048>
- Yang, Y., Kylänpää, I., Tubman, N. M., Krogel, J. T., Hammes-Schiffer, S., & Ceperley, D. M. (2015). How large are nonadiabatic effects in atomic and diatomic systems? *Journal of Chemical Physics*, *143*(12), [124308]. <https://doi.org/10.1063/1.4931667>
- Barreca, D., Carraro, G., Warwick, M. E. A., Kaunisto, K., Gasparotto, A., Gombac, V., ... Fornasiero, P. (2015). Fe<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> nanosystems by a hybrid PE-CVD/ALD approach: controllable synthesis, growth mechanism, and photocatalytic properties. *CrystEngComm*, *17*(32), 6219-6226. <https://doi.org/10.1039/c5ce00883b>
- Mäkelä, J., Tuominen, M., Yasir, M., Polojärvi, V., Aho, A., Tukiainen, A., ... Guina, M. (2015). Effects of thinning and heating for TiO<sub>2</sub>/AlInP junctions. *Journal of Electron Spectroscopy and Related Phenomena*, *205*, 6-9. <https://doi.org/10.1016/j.elspec.2015.08.004>
- Lepcha, A., Maccato, C., Mettenböcker, A., Andreu, T., Mayrhofer, L., Walter, M., ... Mathur, S. (2015). Electrospun Black Titania Nanofibers: Influence of Hydrogen Plasma-Induced Disorder on the Electronic Structure and Photoelectrochemical Performance. *Journal of Physical Chemistry C*, *119*(33), 18835-18842. <https://doi.org/10.1021/acs.jpcc.5b02767>
- Levin, M., Rojas, E., Vanhala, E., Vippola, M., Liguori, B., Kling, K. I., ... Jensen, K. A. (2015). Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials: implications for testing and risk assessment. *Journal of Nanoparticle Research*, *17*(8), [337]. <https://doi.org/10.1007/s11051-015-3139-6>
- Kwolek, U., Kulig, W., Wydro, P., Nowakowska, M., Róg, T., & Kepczynski, M. (2015). Effect of Phosphatidic Acid on Biomembrane: Experimental and Molecular Dynamics Simulations Study. *Journal of Physical Chemistry Part B*, *119*(31), 10042-10051. <https://doi.org/10.1021/acs.jpcc.5b03604>
- Le, H. H., Pham, T., Henning, S., Klehm, J., Wießner, S., Stöckelhuber, K. W., ... Radosch, H. J. (2015). Formation and stability of carbon nanotube network in natural rubber: Effect of non-rubber components. *Polymer*, *73*, 111-121. [18004]. <https://doi.org/10.1016/j.polymer.2015.07.044>
- Stumpel, J. E. (2015). Responsive Polymer Photonics. *Chemistryopen*, *4*(4), 533-535. <https://doi.org/10.1002/open.201500104>
- Timr, Š., Brabec, J., Bondar, A., Ryba, T., Železný, M., Lazar, J., & Jungwirth, P. (2015). Nonlinear Optical Properties of Fluorescent Dyes Allow for Accurate Determination of Their Molecular Orientations in Phospholipid Membranes. *Journal of Physical Chemistry Part B*, *119*(30), 9706-9716. <https://doi.org/10.1021/acs.jpcc.5b05123>
- Rasappa, S., Caridad, J. M., Schulte, L., Cagliani, A., Borah, D., Morris, M. A., ... Ndoni, S. (2015). High quality sub-10 nm graphene nanoribbons by on-chip PS-b-PDMS block copolymer lithography. *RSC Advances*, *5*(82), 66711-66717. <https://doi.org/10.1039/c5ra11735f>
- Bodrova, A., Chechkin, A. V., Cherstvy, A. G., & Metzler, R. (2015). Quantifying non-ergodic dynamics of force-free granular gases. *Physical Chemistry Chemical Physics*, *17*(34), 21791-21798. <https://doi.org/10.1039/c5cp02824h>
- Virkki, K., Demir, S., Lemmetyinen, H., & Tkachenko, N. V. (2015). Photoinduced Electron Transfer in CdSe/ZnS Quantum Dot-Fullerene Hybrids. *Journal of Physical Chemistry C*, *119*(31), 17561-17572. <https://doi.org/10.1021/acs.jpcc.5b04251>



- Rahaman, O., Kalimeri, M., Melchionna, S., Hénin, J., & Sterpone, F. (2015). Role of Internal Water on Protein Thermal Stability: The Case of Homologous G Domains. *Journal of Physical Chemistry Part B*, *119*(29), 8939-8949. <https://doi.org/10.1021/jp507571u>
- Çetinkaya, A. Y., Köroğlu, E. O., Demir, N. M., Baysoy, D. Y., Özkaya, B., & Çakmakçı, M. (2015). Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration. *Chinese Journal of Catalysis*, *36*(7), 1068-1076. [https://doi.org/10.1016/S1872-2067\(15\)60833-6](https://doi.org/10.1016/S1872-2067(15)60833-6)
- Hakkarainen, T. V., Schramm, A., Mäkelä, J., Laukkanen, P., & Guina, M. (2015). Lithography-free oxide patterns as templates for self-catalyzed growth of highly uniform GaAs nanowires on Si(111). *Nanotechnology*, *26*(27), [275301]. <https://doi.org/10.1088/0957-4484/26/27/275301>
- Isoniemi, T., Tuukkanen, S., Cameron, D. C., Simonen, J., & Toppari, J. J. (2015). Measuring optical anisotropy in poly(3,4-ethylene dioxythiophene): poly(styrene sulfonate) films with added graphene. *Organic Electronics*, *25*, 317-323. <https://doi.org/10.1016/j.orgel.2015.06.037>, <https://doi.org/10.1016/j.orgel.2015.06.037>
- Ahmed, Z., George, L., Hiltunen, A., Lemmetyinen, H., Hukka, T., & Efimov, A. (2015). Synthesis and study of electrochemical and optical properties of substituted perylenemonoimides in solutions and on solid surfaces. *Journal of Materials Chemistry A*, *3*(25), 13332-13339. <https://doi.org/10.1039/c5ta02241j>
- Sanginés, R., Contreras, V., Sobral, H., & Robledo-Martinez, A. (2015). Optimal emission enhancement in orthogonal double-pulse laser-induced breakdown spectroscopy. *Spectrochimica Acta Part B: Atomic Spectroscopy*, *110*, 139-145. [4935]. <https://doi.org/10.1016/j.sab.2015.06.012>
- Mylläri, V., Ruoko, T-P., & Syrjäälä, S. (2015). A comparison of rheology and FTIR in the study of polypropylene and polystyrene photodegradation. *Journal of Applied Polymer Science*, *132*(28), [42246]. <https://doi.org/10.1002/app.42246>
- Zorzi, G. K., Párraga, J. E., Seijo, B., & Sánchez, A. (2015). On the biomaterials for nanostructured ocular therapeutics. *Current Organic Chemistry*, *19*(15), 1443-1459.
- Abou-Chahine, F., Fujii, D., Imahori, H., Nakano, H., Tkachenko, N. V., Matano, Y., & Lemmetyinen, H. (2015). Synthesis and Photophysical Properties of Two Diazaporphyrin-Porphyrin Hetero Dimers in Polar and Nonpolar Solutions. *Journal of Physical Chemistry Part B*, *119*(24), 7328-7337. <https://doi.org/10.1021/jp510903a>
- Perander, M., DeMartini, N., Brink, A., Kramb, J., Karlström, O., Hemming, J., ... Hupa, M. (2015). Catalytic effect of Ca and K on CO<sub>2</sub> gasification of spruce wood char. *Fuel*, *150*, 464-472. <https://doi.org/10.1016/j.fuel.2015.02.062>
- De Carvalho, S. J., Metzler, R., & Cherstvy, A. G. (2015). Inverted critical adsorption of polyelectrolytes in confinement. *Soft Matter*, *11*(22), 4430-4443. <https://doi.org/10.1039/c5sm00635j>
- Dzieciuch, M., Rissanen, S., Szydłowska, N., Bunker, A., Kumorek, M., Jamróz, D., ... Kepczynski, M. (2015). PEGylated liposomes as carriers of hydrophobic porphyrins. *Journal of Physical Chemistry Part B*, *119*(22), 6646-6657. <https://doi.org/10.1021/acs.jpcc.5b01351>
- Manea, L. R., Cramariuc, B., Popescu, V., Cramariuc, R., Sandu, I., & Cramariuc, O. (2015). Equipment for obtaining polymeric nanofibres by electrospinning technology: II. The obtaining of polymeric nanofibers. *Materiale Plastice*, *52*(2), 180-185.
- Frochot, C., Barberi-Heyob, M., Blanchard-Desce, M., Bolotine, L., Bonneau, S., Jimenez, C. M., ... Vicendo, P. (2015). La thérapie photodynamique: État de l'art et perspectives. *ACTUALITE CHIMIQUE*, (397-398), 46-50.

- Mordon, S., & Bourg-Heckly, G. (2015). Photodiagnostic et chirurgie guidés par la fluorescence. *ACTUALITE CHIMIQUE*, (397-398), 41-45.
- He, X., Benniston, A. C., Saarenpää, H., Lemmetyinen, H., Tkachenko, N. V., & Baisch, U. (2015). Polymorph crystal packing effects on charge transfer emission in the solid state. *Chemical Science*, 6(6), 3525-3532. <https://doi.org/10.1039/c5sc01151e>
- Borah, D., Rasappa, S., Salaun, M., Zellsman, M., Lorret, O., Lontos, G., ... Morris, M. A. (2015). Soft graphoepitaxy for large area directed self-assembly of polystyrene-block-poly(dimethylsiloxane) block copolymer on nanopatterned pass substrates fabricated by nanoimprint lithography. *Advanced Functional Materials*, 25(22), 3425-3432. <https://doi.org/10.1002/adfm.201500100>
- McManamon, C., O'Connell, J., Delaney, P., Rasappa, S., Holmes, J. D., & Morris, M. A. (2015). A facile route to synthesis of S-doped TiO<sub>2</sub> nanoparticles for photocatalytic activity. *Journal of Molecular Catalysis A: Chemical*, 406, 51-57. <https://doi.org/10.1016/j.molcata.2015.05.002>
- Hladílková, J., Fischer, H. E., Jungwirth, P., & Mason, P. E. (2015). Hydration of hydroxyl and amino groups examined by molecular dynamics and neutron scattering. *Journal of Physical Chemistry Part B*, 119(21), 6357-6365. <https://doi.org/10.1021/jp510528u>
- Kuz'min, V. A., Durandin, N. A., Lisitsyna, E. S., Nekipelova, T. D., Podrugina, T. A., Matveeva, E. D., ... Zefirov, N. S. (2015). Spectral and kinetic characteristics of indotricarbocyanine complexation with albumin. *DOKLADY PHYSICAL CHEMISTRY*, 462(1), 107-109. <https://doi.org/10.1134/S0012501615050036>
- Song, X., Liu, Z., Suhonen, T., Varis, T., Huang, L., Zheng, X., & Zeng, Y. (2015). Effect of melting state on the thermal shock resistance and thermal conductivity of APS ZrO<sub>2</sub>-7.5wt.% Y<sub>2</sub>O<sub>3</sub> coatings. *Surface and Coatings Technology*, 270, 132-138. <https://doi.org/10.1016/j.surfcoat.2015.03.011>
- Pluhařová, E., Slaviček, P., & Jungwirth, P. (2015). Modeling photoionization of aqueous DNA and its components. *Accounts of Chemical Research*, 48(5), 1209-1217. <https://doi.org/10.1021/ar500366z>
- Kuzmin, V. A., Durandin, N. A., Lisitsyna, E. S., Litvinkova, L. V., Nekipelova, T. D., Podrugina, T. A., ... Zefirov, N. S. (2015). Energy degradation in photoexcited complexes of indocarbocyanine with albumin. *HIGH ENERGY CHEMISTRY*, 49(3), 211-212. <https://doi.org/10.1134/S0018143915030108>
- Liang, Y., Ma, L., Wang, J., & Wang, G. (2015). Multistep reactions of water with small Pd<sub>n</sub> clusters: A first principles study. *Journal of Theoretical and Computational Chemistry*, 14(3), [1550017]. <https://doi.org/10.1142/S0219633615500170>
- Cherstvy, A. G., & Metzler, R. (2015). Ergodicity breaking and particle spreading in noisy heterogeneous diffusion processes. *Journal of Chemical Physics*, 142(14), [144105]. <https://doi.org/10.1063/1.4917077>
- Sorvajärvi, T., Viljanen, J., Toivonen, J., Marshall, P., & Glarborg, P. (2015). Rate constant and thermochemistry for K + O<sub>2</sub> + N<sub>2</sub> = KO<sub>2</sub> + N<sub>2</sub>. *Journal of Physical Chemistry A*, 119(14), 3329-3336. <https://doi.org/10.1021/acs.jpca.5b00755>
- Koivisto, A. J., Aromaa, M., Koponen, I. K., Fransman, W., Jensen, K. A., Mäkelä, J. M., & Hämeri, K. J. (2015). Workplace performance of a loose-fitting powered air purifying respirator during nanoparticle synthesis. *Journal of Nanoparticle Research*, 17(4). <https://doi.org/10.1007/s11051-015-2990-9>
- Karilainen, T., Timr, Š., Vattulainen, I., & Jungwirth, P. (2015). Oxidation of cholesterol does not alter significantly its uptake into high-density lipoprotein particles. *Journal of Physical Chemistry Part B*, 119(13), 4594-4600. <https://doi.org/10.1021/acs.jpbc.5b00240>
- Saarikoski, E., Rissanen, M., & Seppälä, J. (2015). Effect of rheological properties of dissolved cellulose/microfibrillated cellulose blend suspensions on film forming. *Carbohydrate Polymers*, 119, 62-70. <https://doi.org/10.1016/j.carbpol.2014.11.033>

Pirjola, L., Karjalainen, P., Heikkilä, J., Saari, S., Tzamkiozis, T., Ntziachristos, L., ... Rönkkö, T. (2015). Effects of fresh lubricant oils on particle emissions emitted by a modern gasoline direct injection passenger car. *Environmental Science and Technology*, 49(6), 3644-3652. <https://doi.org/10.1021/es505109u>

Varis, T., Bankiewicz, D., Yrjas, P., Oksa, M., Suhonen, T., Tuurna, S., ... Holmström, S. (2015). High temperature corrosion of thermally sprayed NiCr and FeCr coatings covered with a KCl-K<sub>2</sub>SO<sub>4</sub> salt mixture. *Surface and Coatings Technology*, 265, 235-243. <https://doi.org/10.1016/j.surfcoat.2014.11.012>

Bolelli, G., Berger, L. M., Börner, T., Koivuluoto, H., Lusvardi, L., Lyphout, C., ... Vuoristo, P. (2015). Tribology of HVOF- and HVOF-sprayed WC-10Co4Cr hardmetal coatings: A comparative assessment. *Surface and Coatings Technology*, 265, 125-144. <https://doi.org/10.1016/j.surfcoat.2015.01.048>

Ma, L., Melander, M., Laasonen, K., & Akola, J. (2015). CO oxidation catalyzed by neutral and anionic Cu<sub>20</sub> clusters: Relationship between charge and activity. *Physical Chemistry Chemical Physics*, 17(10), 7067-7076. <https://doi.org/10.1039/c5cp00365b>

Tuominen, M., Yasir, M., Lång, J., Dahl, J., Kuzmin, M., Mäkelä, J., ... Guina, M. (2015). Oxidation of the GaAs semiconductor at the Al<sub>2</sub>O<sub>3</sub>/GaAs junction. *Physical Chemistry Chemical Physics*, 17(10), 7060-7066. <https://doi.org/10.1039/c4cp05972g>

Wikström, M., Sharma, V., Kaila, V. R. I., Hosler, J. P., & Hummer, G. (2015). New perspectives on proton pumping in cellular respiration. *Chemical Reviews*, 115(5), 2196-2221. <https://doi.org/10.1021/cr500448t>

Figueira, J., Czardybon, W., Mesquita, J. C., Rodrigues, J., Lahoz, F., Russo, L., ... Rissanen, K. (2015). Synthesis, characterization and solid-state photoluminescence studies of six alkoxy phenylene ethynylene dinuclear palladium(II) rods. *DALTON TRANSACTIONS*, 44(9), 4003-4015. <https://doi.org/10.1039/c4dt00493k>

Lolicato, F., Raudino, A., Milardi, D., & La Rosa, C. (2015). Resveratrol interferes with the aggregation of membrane-bound human-IAPP: A molecular dynamics study. *European Journal of Medicinal Chemistry*, 92, 876-881. <https://doi.org/10.1016/j.ejmech.2015.01.047>

Wecharine, I., Valkonen, A., Rzaigui, M., Sta, W. S., & Smith, G. (2015). Crystal structure of 2-methylpiperazine-1,4-dium bis(hydrogen maleate). *Acta Crystallographica Section E: Structure Reports Online*, 71(3), o193-o194. <https://doi.org/10.1107/S2056989015003102>

Eshwaran, S. B., Basu, D., Vaikuntam, S. R., Kutlu, B., Wiessner, S., Das, A., ... Heinrich, G. (2015). Exploring the role of stearic acid in modified zinc aluminum layered double hydroxides and their acrylonitrile butadiene rubber nanocomposites. *Journal of Applied Polymer Science*, 132(9), [41539]. <https://doi.org/10.1002/app.41539>

Ray, S., Steven, R. T., Green, F. M., Höök, F., Taskinen, B., Hytönen, V. P., & Shard, A. G. (2015). Neutralized chimeric avidin binding at a reference biosensor surface. *Langmuir*, 31(6), 1921-1930. <https://doi.org/10.1021/la503213f>

Shin, J., Cherstvy, A. G., & Metzler, R. (2015). Polymer looping is controlled by macromolecular crowding, spatial confinement, and chain stiffness. *ACS Macro Letters*, 4(2), 202-206. <https://doi.org/10.1021/mz500709w>

Beyeh, N. K., Pan, F., Valkonen, A., & Rissanen, K. (2015). Encapsulation of secondary and tertiary ammonium salts by resorcinarenes and pyrogallarenes: The effect of size and charge concentration. *CrystEngComm*, 17(5), 1182-1188. <https://doi.org/10.1039/c4ce01927j>

Bautista, G., Mäkitalo, J., Chen, Y., Dhaka, V., Grasso, M., Karvonen, L., ... Kauranen, M. (2015). Second-harmonic generation imaging of semiconductor nanowires with focused vector beams. *Nano Letters*, 15(3), 1564-1569. <https://doi.org/10.1021/nl503984b>

- Fatarelle, E., Mylläri, V., Ruzzante, M., Pogni, R., Baratto, M. C., Skrifvars, M., ... Järvelä, P. (2015). Sulfonated polyetheretherketone/polypropylene polymer blends for the production of photoactive materials. *Journal of Applied Polymer Science*, 132(8), [41509]. <https://doi.org/10.1002/app.41509>
- Saccone, M., Dichiarante, V., Forni, A., Goulet-Hanssens, A., Cavallo, G., Vapaavuori, J., ... Priimägi, A. (2015). Supramolecular hierarchy among halogen and hydrogen bond donors in light-induced surface patterning. *Journal of Materials Chemistry C*, 3, 759-768. <https://doi.org/10.1039/c4tc02315c>
- Goh, J.-Q., Malola, S., Häkkinen, H., & Akola, J. (2015). Silver sulfide nanoclusters and the superatom model. *Journal of Physical Chemistry C*, 119(3), 1583-1590. <https://doi.org/10.1021/jp511037x>
- Shin, J., Cherstvy, A. G., & Metzler, R. (2015). Kinetics of polymer looping with macromolecular crowding: Effects of volume fraction and crowder size. *Soft Matter*, 11(3), 472-488. <https://doi.org/10.1039/c4sm02007c>
- Ghosh, S. K., Cherstvy, A. G., & Metzler, R. (2015). Non-universal tracer diffusion in crowded media of non-inert obstacles. *Physical Chemistry Chemical Physics*, 17(3), 1847-1858. <https://doi.org/10.1039/c4cp03599b>
- Li, Z., Le, T., Wu, Z., Yao, Y., Li, L., Tentzeris, M., ... Wong, C. P. (2015). Rational design of a printable, highly conductive silicone-based electrically conductive adhesive for stretchable radio-frequency antennas. *Advanced Functional Materials*, 25(3), 464-470. <https://doi.org/10.1002/adfm.201403275>
- Schroeder, C. A., Pluharová, E., Seidel, R., Schroeder, W. P., Faubel, M., Slavíček, P., ... Bradforth, S. E. (2015). Oxidation half-reaction of aqueous nucleosides and nucleotides via photoelectron spectroscopy augmented by ab initio calculations. *Journal of the American Chemical Society*, 137(1), 201-209. <https://doi.org/10.1021/ja508149e>
- Czaplicki, R., Mäkitalo, J., Siikanen, R., Husu, H., Lehtolahti, J., Kuittinen, M., & Kauranen, M. (2015). Second-Harmonic Generation from Metal Nanoparticles: Resonance Enhancement versus Particle Geometry. *Nano Letters*, 15(1), 530-534. <https://doi.org/10.1021/nl503901e>
- Khan, M., Yang, J., Shi, C., Feng, Y., Zhang, W., Gibney, K., & Tew, G. N. (2015). Manipulation of polycarbonate urethane bulk properties via incorporated zwitterionic polynorbornene for tissue engineering application. *RSC Advances*, 5(15), 11284-11292. <https://doi.org/10.1039/C4RA14608E>
- Mettänen, M., & Hirn, U. (2015). A comparison of five optical surface topography measurement methods. *TAPPI Journal*, 14(1), 27-38.
- Hukka, J. J., & Katko, T. S. (2015). Appropriate pricing policy needed worldwide for improving water services infrastructure. *Journal American Water Works Association*, 107(1), E37-E46. <https://doi.org/10.5942/jawwa.2015.107.0007>
- Yi, H., Albrecht, M., Valkonen, A., & Rissanen, K. (2015). Perfluoro-1,1'-biphenyl and perfluoronaphthalene and their derivatives as  $\pi$ -acceptors for anions. *New Journal of Chemistry*, 39(1), 746-749. <https://doi.org/10.1039/c4nj01654h>
- Reeta, P. S., Khetubol, A., Jella, T., Chukharev, V., Abou-Chahine, F., Tkachenko, N. V., ... Lemmetyinen, H. (2015). Photophysical properties of Sn (IV)tetraphenylporphyrin-pyrene dyad with a  $\beta$ -vinyl linker. *Journal of Porphyrins and Phthalocyanines*, 19(1-3), 288-300. <https://doi.org/10.1142/S1088424615500108>
- Molnar, W., Nugent, S., Lindroos, M., Apostol, M., & Varga, M. (2015). Ballistic and numerical simulation of impacting goods on conveyor belt rubber. *Polymer Testing*, 42, 1-7. <https://doi.org/10.1016/j.polymertesting.2014.12.001>
- Borah, D., Rasappa, S., Senthamaraikannan, R., Holmes, J. D., & Morris, M. A. (2015). Block co-polymers for nanolithography: Rapid microwave annealing for pattern formation on substrates. *Polymers*, 7(4), 592-609. <https://doi.org/10.3390/polym7040592>

Kamppuri, T., Vehviläinen, M., Puolakka, A., Honkanen, M., Vippola, M., & Rissanen, M. (2015). Characterisation of novel regenerated cellulosic, viscose, and cotton fibres and the dyeing properties of fabrics. *Coloration Technology*, *131*(5), 396-402. <https://doi.org/10.1111/cote.12163>

Di Capua, F., Papirio, S., Lens, P. N. L., & Esposito, G. (2015). Chemolithotrophic denitrification in biofilm reactors. *Chemical Engineering Journal*, *280*, 643-657. <https://doi.org/10.1016/j.cej.2015.05.131>

Mason, P. E., Uhlig, F., Vaněk, V., Buttersack, T., Bauerecker, S., & Jungwirth, P. (2015). Coulomb explosion during the early stages of the reaction of alkali metals with water. *Nature Chemistry*, *7*(3), 250-254. <https://doi.org/10.1038/nchem.2161>

Mardoukhi, Y., Jeon, J.-H., & Metzler, R. (2015). Geometry controlled anomalous diffusion in random fractal geometries: Looking beyond the infinite cluster. *Physical Chemistry Chemical Physics*, *17*(44), 30134-30147. <https://doi.org/10.1039/c5cp03548a>

Saccone, M., Cavallo, G., Metrangolo, P., Resnati, G., & Priimägi, A. (2015). Halogen-bonded photoresponsive materials. teoksessa *Halogen Bonding II: Impact on Materials Chemistry and Life Sciences* (Sivut 147-166). (Topics in Current Chemistry; Vuosikerta 359). Springer International Publishing. [https://doi.org/10.1007/128\\_2014\\_615](https://doi.org/10.1007/128_2014_615)

Pelado, B., Abou-Chahine, F., Calbo, J., Caballero, R., delaCruz, P., Junquera-Hernández, J. M., ... Langa, F. (2015). Role of the bridge in photoinduced electron transfer in porphyrin-fullerene dyads. *Chemistry: A European Journal*, *21*(15), 5814-5825. <https://doi.org/10.1002/chem.201406514>

Stumpel, J. E., Gil, E. R., Spoelstra, A. B., Bastiaansen, C. W. M., Broer, D. J., & Schenning, A. P. H. J. (2015). Stimuli-Responsive Materials Based on Interpenetrating Polymer Liquid Crystal Hydrogels. *Advanced Functional Materials*, *25*(22), 3314-3320. <https://doi.org/10.1002/adfm.201500745>

Wacharine, I., Valkonen, A., Rzaigui, M., & Smirani, W. (2015). Synthesis, crystal structure, spectral, dielectric characteristics and conduction mechanism of two novel carboxylates of 1-benzhydrylpiperazine. *Monatshefte fur Chemie*, *146*(12), 2007-2020. <https://doi.org/10.1007/s00706-015-1553-1>

Stasyuk, A. J., Smoleń, S., Glodkowska-Mrowka, E., Brutkowski, W., Cyrański, M. K., Tkachenko, N., & Gryko, D. T. (2015). Synthesis of fluorescent naphthoquinolizines via intramolecular houben-hoesch reaction. *Chemistry - An Asian Journal*, *10*(3), 553-558. <https://doi.org/10.1002/asia.201403339>

Karilainen, T., Cramariuc, O., Kuisma, M., Tappura, K., & Hukka, T. I. (2015). Van der Waals interactions are critical in Car-Parrinello molecular dynamics simulations of porphyrin-fullerene dyads. *Journal of Computational Chemistry*, *36*(9), 612-621. <https://doi.org/10.1002/jcc.23834>

Stumpel, J. E., Broer, D. J., & Schenning, A. P. H. J. (2015). Water-responsive dual-coloured photonic polymer coatings based on cholesteric liquid crystals. *RSC Advances*, *5*(115), 94650-94653. <https://doi.org/10.1039/c5ra18017a>

Nazir, R., Bourquard, F., Balčiūnas, E., Smoleń, S., Gray, D., Tkachenko, N. V., ... Gryko, D. T. (2015).  $\pi$ -Expanded  $\alpha,\beta$ -unsaturated ketones: Synthesis, optical properties, and two-photon-induced polymerization. *ChemPhysChem*, *16*(3), 682-690. <https://doi.org/10.1002/cphc.201402646>

Stumpel, J. E., Broer, D. J., & Schenning, A. P. H. J. (2014). Stimuli-responsive photonic polymer coatings. *Chemical Communications*, *50*(100), 15839-15848. <https://doi.org/10.1039/c4cc05072j>

Taskinen, B., Zauner, D., Lehtonen, S. I., Koskinen, M., Thomson, C., Kähkönen, N., ... Hytönen, V. P. (2014). Switchavidin: Reversible biotin-avidin-biotin bridges with high affinity and specificity. *Bioconjugate Chemistry*, *25*(12), 2233-2243. <https://doi.org/10.1021/bc500462w>

Palivec, V., Pluharová, E., Unger, I., Winter, B., & Jungwirth, P. (2014). DNA lesion can facilitate base ionization: Vertical ionization energies of aqueous 8-oxoguanine and its nucleoside and nucleotide. *Journal of Physical Chemistry Part B*, 118(48), 13833-13837. <https://doi.org/10.1021/jp5111086>

Lemmetyinen, H., Tkachenko, N. V., Valeur, B., Hotta, J. I., Ameloot, M., Ernsting, N. P., ... Boens, N. (2014). Time-resolved fluorescence methods (IUPAC technical report). *Pure and Applied Chemistry*, 86(12), 1969-1998. <https://doi.org/10.1515/pac-2013-0912>

Tawade, B. V., Salunke, J. K., Sane, P. S., & Wadgaonkar, P. P. (2014). Processable aromatic polyesters based on bisphenol derived from cashew nut shell liquid: synthesis and characterization. *JOURNAL OF POLYMER RESEARCH*, 21(12). <https://doi.org/10.1007/s10965-014-0617-y>

Mohanty, A. K., Ghosh, A., Sawai, P., Pareek, K., Banerjee, S., Das, A., ... Voit, B. (2014). Electromagnetic interference shielding effectiveness of MWCNT filled poly(ether sulfone) and poly(ether imide) nanocomposites. *Polymer Engineering and Science*, 54(11), 2560-2570. <https://doi.org/10.1002/pen.23804>

Wang, X., Vapaavuori, J., Zhao, Y., & Bazuin, C. G. (2014). A supramolecular approach to photoresponsive thermo/solvoplastic block copolymer elastomers. *Macromolecules*, 47(20), 7099-7108. <https://doi.org/10.1021/ma501278b>

Amanatidis, S., Ntziachristos, L., Giechaskiel, B., Bergmann, A., & Samaras, Z. (2014). Impact of selective catalytic reduction on exhaust particle formation over excess ammonia events. *Environmental Science and Technology*, 48(19), 11527-11534. <https://doi.org/10.1021/es502895v>

Deng, Y., Alicea-Velázquez, N. L., Bannwarth, L., Lehtonen, S. I., Boggon, T. J., Cheng, H. C., ... Turk, B. E. (2014). Global analysis of human nonreceptor tyrosine kinase specificity using high-density peptide microarrays. *Journal of Proteome Research*, 13(10), 4339-4346. <https://doi.org/10.1021/pr500503q>

Rasappa, S., Schulte, L., Borah, D., Morris, M. A., & Ndoni, S. (2014). Rapid, Brushless Self-assembly of a PS-b-PDMS Block Copolymer for Nanolithography. *Colloids and Interface Science Communications*, 2, 1-5. <https://doi.org/10.1016/j.colcom.2014.07.001>

Goulet-Hanssens, A., Corkery, T. C., Priimagi, A., & Barrett, C. J. (2014). Effect of head group size on the photoswitching applications of azobenzene Disperse Red 1 analogues. *Journal of Materials Chemistry C*, 2(36), 7505-7512. <https://doi.org/10.1039/c4tc00996g>

Salunke, J. K., Sonar, P., Wong, F. L., Roy, V. A. L., Lee, C. S., & Wadgaonkar, P. P. (2014). Pyrene based conjugated materials: Synthesis, characterization and electroluminescent properties. *Physical Chemistry Chemical Physics*, 16(42), 23320-23328. <https://doi.org/10.1039/c4cp03693j>

Wang, J., Ma, L., Liang, Y., Gao, M., & Wang, G. (2014). Density functional theory study of transition metals doped B<sub>80</sub> fullerene. *Journal of Theoretical and Computational Chemistry*, 13(6), [1450050]. <https://doi.org/10.1142/S0219633614500503>

Priimagi, A., Barrett, C. J., & Shishido, A. (2014). Recent twists in photoactuation and photoalignment control. *Journal of Materials Chemistry C*, 2(35), 7155-7162. <https://doi.org/10.1039/c4tc01236d>

Uhlig, F., Herbert, J. M., Coons, M. P., & Jungwirth, P. (2014). Optical spectroscopy of the bulk and interfacial hydrated electron from ab initio calculations. *Journal of Physical Chemistry A*, 118(35), 7507-7515. <https://doi.org/10.1021/jp5004243>

Le, H. H., Abhijeet, S., Ilisch, S., Klehm, J., Henning, S., Beiner, M., ... Radosch, H. J. (2014). The role of linked phospholipids in the rubber-filler interaction in carbon nanotube (CNT) filled natural rubber (NR) composites. *Polymer*, 55(18), 4738-4747. <https://doi.org/10.1016/j.polymer.2014.07.043>

- Kapgate, B. P., Das, C., Basu, D., Das, A., Heinrich, G., & Reuter, U. (2014). Effect of silane integrated sol-gel derived in situ silica on the properties of nitrile rubber. *Journal of Applied Polymer Science*, *131*(15), [40531]. <https://doi.org/10.1002/app.40531>
- Kurppa, K., Hytönen, V. P., Nakari-Setälä, T., Kulomaa, M. S., & Linder, M. B. (2014). Molecular engineering of avidin and hydrophobin for functional self-assembling interfaces. *Colloids and Surfaces B: Biointerfaces*, *120*, 102-109. <https://doi.org/10.1016/j.colsurfb.2014.05.010>
- Oksa, M., Varis, T., & Ruusuvoori, K. (2014). Performance testing of iron based thermally sprayed HVOF coatings in a biomass-fired fluidised bed boiler. *Surface and Coatings Technology*, *251*, 191-200. <https://doi.org/10.1016/j.surfcoat.2014.04.025>
- Kohagen, M., Mason, P. E., & Jungwirth, P. (2014). Accurate description of calcium solvation in concentrated aqueous solutions. *Journal of Physical Chemistry Part B*, *118*(28), 7902-7909. <https://doi.org/10.1021/jp5005693>
- Werner, J., Wernersson, E., Ekholm, V., Ottosson, N., Öhrwall, G., Heyda, J., ... Björneholm, O. (2014). Surface behavior of hydrated guanidinium and ammonium ions: A comparative study by photoelectron spectroscopy and molecular dynamics. *Journal of Physical Chemistry Part B*, *118*(25), 7119-7127. <https://doi.org/10.1021/jp500867w>
- Mahmood, N., Khan, A. U., Stöckelhuber, K. W., Das, A., Jehnichen, D., & Heinrich, G. (2014). Carbon nanotubes-filled thermoplastic polyurethane-urea and carboxylated acrylonitrile butadiene rubber blend nanocomposites. *Journal of Applied Polymer Science*, *131*(11). <https://doi.org/10.1002/app.40341>
- Pluhařová, E., Fischer, H. E., Mason, P. E., & Jungwirth, P. (2014). Hydration of the chloride ion in concentrated aqueous solutions using neutron scattering and molecular dynamics. *Molecular Physics*, *112*(9-10), 1230-1240. <https://doi.org/10.1080/00268976.2013.875231>
- Raghuwanshi, S., Deswal, D., Karp, M., & Kuhad, R. C. (2014). Bioprocessing of enhanced cellulase production from a mutant of *Trichoderma asperellum* RCK2011 and its application in hydrolysis of cellulose. *Fuel*, *124*, 183-189. <https://doi.org/10.1016/j.fuel.2014.01.107>
- Koskela, J. E., Liljeström, V., Lim, J., Simanek, E. E., Ras, R. H. A., Priimagi, A., & Kostianen, M. A. (2014). Light-fuelled transport of large dendrimers and proteins. *Journal of the American Chemical Society*, *136*(19), 6850-6853. <https://doi.org/10.1021/ja502623m>
- Kuzmin, M. G., Soboleva, I. V., Durandin, N. A., Lisitsyna, E. S., & Kuzmin, V. A. (2014). Microphase mechanism of "superquenching" of luminescent probes in aqueous solutions of DNA and some other polyelectrolytes. *Journal of Physical Chemistry Part B*, *118*(15), 4245-4252. <https://doi.org/10.1021/jp500713q>
- Hytönen, V. P., & Wehrle-Haller, B. (2014). Protein conformation as a regulator of cell-matrix adhesion. *Physical Chemistry Chemical Physics*, *16*(14), 6342-6357. <https://doi.org/10.1039/c3cp54884h>
- Kulig, W., & Agmon, N. (2014). Deciphering the infrared spectrum of the protonated water pentamer and the hybrid Eigen-Zundel cation. *Physical Chemistry Chemical Physics*, *16*(10), 4933-4941. <https://doi.org/10.1039/c3cp54029d>
- Khan, M. N., & Zharnikov, M. (2014). Fabrication of ssDNA/oligo(ethylene glycol) monolayers by promoted exchange reaction with thiol and disulfide substituents. *Journal of Physical Chemistry C*, *118*(6), 3093-3101. <https://doi.org/10.1021/jp411353f>
- Lai, K. M., Nasir, Z. A., & Taylor, J. (2014). Bioaerosols and Hospital Infections. teoksessa *Aerosol Science: Technology and Applications* (Vuosikerta 9781119977926, Sivut 271-289). Wiley-Blackwell. <https://doi.org/10.1002/9781118682555.ch11>

Priimagi, A., & Shevchenko, A. (2014). Azopolymer-based micro- and nanopatterning for photonic applications. *Journal of Polymer Science. Part B, Polymer Physics*, 52(3), 163-182. <https://doi.org/10.1002/polb.23390>

Kulig, W., & Agmon, N. (2014). Both zundel and eigen isomers contribute to the IR spectrum of the gas-phase H<sub>9</sub>O<sub>4</sub> + cluster. *Journal of Physical Chemistry Part B*, 118(1), 278-286. <https://doi.org/10.1021/jp410446d>

Oksala, N. K. J., Ekmekçi, F. G., Özsoy, E., Kirankaya, Ş., Kokkola, T., Emecen, G., ... Atalay, M. (2014). Natural thermal adaptation increases heat shock protein levels and decreases oxidative stress. *REDOX BIOLOGY*, 3, 25-28. <https://doi.org/10.1016/j.redox.2014.10.003>

Wang, J., & Ray, A. K. (2014). A full-potential linearized augmented plane wave study of the interaction of CO<sub>2</sub> with  $\alpha$ -Pu (020) surface nanolayers. *Journal of Computational and Theoretical Nanoscience*, 11(7), 1710-1717. <https://doi.org/10.1166/jctn.2014.3555>

Enkavi, G., Li, J., Wen, P., Thangapandian, S., Moradi, M., Jiang, T., ... Tajkhorshid, E. (2014). A microscopic view of the mechanisms of active transport across the cellular membrane. *Annual Reports in Computational Chemistry*, 10, 77-125. <https://doi.org/10.1016/B978-0-444-63378-1.00004-5>

Savolainen, J., Uhlig, F., Ahmed, S., Hamm, P., & Jungwirth, P. (2014). Direct observation of the collapse of the delocalized excess electron in water. *Nature Chemistry*, 6(8), 697-701. <https://doi.org/10.1038/nchem.1995>

Le, H. H., Parsekar, M., Ilisch, S., Henning, S., Das, A., Stöckelhuber, K. W., ... Radusch, H. J. (2014). Effect of non-rubber components of NR on the carbon nanotube (CNT) localization in SBR/NR blends. *Macromolecular Materials and Engineering*, 299(5), 569-582. <https://doi.org/10.1002/mame.201300254>

Rasappa, S., Borah, D., Senthamaraikannan, R., Faulkner, C. C., Holmes, J. D., & Morris, M. A. (2014). Fabrication of 3-D nanodimensioned electric double layer capacitor structures using block copolymer templates. *Journal Nanoscience and Nanotechnology*, 14(7), 5221-5227. <https://doi.org/10.1166/jnn.2014.8668>

Lahti, J., Johansson, P., Lahtinen, K., Cameron, D. C., & Seppänen, T. (2014). Improving the effect of nanoscale barrier coating on BOPP film properties: Influence of substrate contamination, web handling and pretreatments. teoksessa *TAPPI PLACE Conference 2014* (Vuosikerta 2, Sivut 1039-1061). TAPPI Press.

Näreoja, T., Ebner, A., Gruber, H. J., Taskinen, B., Kienberger, F., Hänninen, P. E., ... Härmä, H. (2014). Kinetics of bioconjugate nanoparticle label binding in a sandwich-type immunoassay. *Analytical and Bioanalytical Chemistry*, 406(2), 493-503. <https://doi.org/10.1007/s00216-013-7474-0>

Airiskallio, E., Nurmi, E., Väyrynen, I. J., Kokko, K., Ropo, M., Punkkinen, M. P. J., ... Vitos, L. (2014). Magnetic origin of the chemical balance in alloyed Fe-Cr stainless steels: First-principles and Ising model study. *Computational Materials Science*, 92, 135-140. <https://doi.org/10.1016/j.commatsci.2014.05.036>

Jungwirth, P. (2014). Molekuly a ionty v pohybu: Počítačové simulace biochemických a biofyzikálních procesů. *Chemické Listy*, 108(4), 278-284.

Akimova, A. V., Grin, M. A., Golovina, G. V., Kokrashvili, T. A., Vinogradov, A. M., Mironov, A. F., ... Durandin, N. A. (2014). Novel derivatives of bacteriochlorophyll a: Complex formation with albumin and the mechanism of tumor cell photodamage. *DOKLADY BIOCHEMISTRY AND BIOPHYSICS*, 454(1), 17-20. <https://doi.org/10.1134/S1607672914010062>

Köhler, M., Karner, A., Leitner, M., Hytönen, V. P., Kulomaa, M., Hinterdorfer, P., & Ebner, A. (2014). pH-dependent deformations of the energy landscape of avidin-like proteins investigated by single molecule force spectroscopy. *Molecules*, 19(8), 12531-12546. <https://doi.org/10.3390/molecules190812531>



Mokarian-Tabari, P., Cummins, C., Rasappa, S., Simao, C., Torres, C. M. S., Holmes, J. D., & Morris, M. A. (2014). Study of the kinetics and mechanism of rapid self-assembly in block copolymer thin films during solvo-microwave annealing. *Langmuir*, *30*(35), 10728-10739. <https://doi.org/10.1021/la503137q>

Cummins, C., Borah, D., Rasappa, S., Chaudhari, A., Ghoshal, T., O'Driscoll, B. M. D., ... Morris, M. A. (2013). Self-assembly of polystyrene-block-poly(4-vinylpyridine) block copolymer on molecularly functionalized silicon substrates: Fabrication of inorganic nanostructured etchmask for lithographic use. *Journal of Materials Chemistry C*, *1*(47), 7941-7951. <https://doi.org/10.1039/c3tc31498g>

Häkkinen, M. R., Roine, A., Auriola, S., Tuokko, A., Veskimäe, E., Keinänen, T. A., ... Vepsäläinen, J. (2013). Analysis of free, mono- and diacetylated polyamines from human urine by LC-MS/MS. *JOURNAL OF CHROMATOGRAPHY B: ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES*, *941*, 81-89. <https://doi.org/10.1016/j.jchromb.2013.10.009>

Le, H. H., Oßwald, K., Wießner, S., Das, A., Stöckelhuber, K. W., Boldt, R., ... Radosch, H. J. (2013). Location of dispersing agent in rubber nanocomposites during mixing process. *Polymer*, *54*(26), 7009-7021. <https://doi.org/10.1016/j.polymer.2013.10.038>

Diban, N., Haimi, S. P., Bolhuis-Versteeg, L., Teixeira, S., Miettinen, S., Poot, A. A., ... Stamatialis, D. (2013). Effect of surface morphology of poly( $\epsilon$ -caprolactone) scaffolds on adipose stem cell adhesion and proliferation. *Macromolecular symposia*, *334*(1), 126-132. <https://doi.org/10.1002/masy.201300106>

Gebraad, A. W. H., Miettinen, S., Grijpma, D. W., & Haimi, S. P. (2013). Human adipose stem cells in chondrogenic differentiation medium without growth factors differentiate towards annulus fibrosus phenotype in vitro. *Macromolecular symposia*, *334*(1), 49-56. <https://doi.org/10.1002/masy.201300104>

German, S. J., Behbahani, M., Miettinen, S., Grijpma, D. W., & Haimi, S. P. (2013). Proliferation and differentiation of adipose stem cells towards smooth muscle cells on poly(trimethylene carbonate) membranes. *Macromolecular symposia*, *334*(1), 133-142. <https://doi.org/10.1002/masy.201300100>

Khan, M. N., & Zharnikov, M. (2013). Fabrication of ssDNA/Oligo(ethylene glycol) monolayers and patterns by exchange reaction promoted by ultraviolet light irradiation. *Journal of Physical Chemistry C*, *117*(47), 24883-24893. <https://doi.org/10.1021/jp408819k>

Pluhařová, E., Mason, P. E., & Jungwirth, P. (2013). Ion pairing in aqueous lithium salt solutions with monovalent and divalent counter-anions. *Journal of Physical Chemistry A*, *117*(46), 11766-11773. <https://doi.org/10.1021/jp402532e>

Hladilkova, J., Prokop, Z., Chaloupkova, R., Damborsky, J., & Jungwirth, P. (2013). Release of halide ions from the buried active site of the haloalkane dehalogenase LinB revealed by stopped-flow fluorescence analysis and free energy calculations. *Journal of Physical Chemistry Part B*, *117*(46), 14329-14335. <https://doi.org/10.1021/jp409040u>

Priimagi, A., Cavallo, G., Metrangolo, P., & Resnati, G. (2013). The Halogen Bond in the Design of Functional Supramolecular Materials: Recent Advances. *Accounts of Chemical Research*, *46*(11), 2686-2695. <https://doi.org/10.1021/ar400103r>

Kalimeri, M., Rahaman, O., Melchionna, S., & Sterpone, F. (2013). How conformational flexibility stabilizes the hyperthermophilic elongation factor G-domain. *Journal of Physical Chemistry Part B*, *117*(44), 13775-13785. <https://doi.org/10.1021/jp407078z>

Uhlig, F., & Jungwirth, P. (2013). Embedded cluster models for reactivity of the hydrated electron. *ZEITSCHRIFT FÜR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY AND CHEMICAL PHYSICS*, *227*(11), 1583-1593. <https://doi.org/10.1524/zpch.2013.0402>

Borah, D., Simao, C. D., SenthamaraiKannan, R., Rasappa, S., Francone, A., Lorret, O., ... Morris, M. A. (2013). Soft-graphoepitaxy using nanoimprinted polyhedral oligomeric silsesquioxane substrates for the directed self-Assembly of PS-b-PDMS. *European Polymer Journal*, 49(11), 3512-3521. <https://doi.org/10.1016/j.eurpolymj.2013.08.011>

Niskanen, M., Kuisma, M., Cramariuc, O., Golovanov, V., Hukka, T. I., Tkachenko, N., & Rantala, T. T. (2013). Porphyrin adsorbed on the (1010) surface of the wurtzite structure of ZnO-conformation induced effects on the electron transfer characteristics. *Physical Chemistry Chemical Physics*, 15(40), 17408-17418. <https://doi.org/10.1039/c3cp51685g>

Pollheimer, P., Taskinen, B., Scherfler, A., Gusenkov, S., Creus, M., Wiesauer, P., ... Gruber, H. J. (2013). Reversible biofunctionalization of surfaces with a switchable mutant of avidin. *Bioconjugate Chemistry*, 24(10), 1656-1668. <https://doi.org/10.1021/bc400087e>

Sterpone, F., Nguyen, P. H., Kalimeri, M., & Derreumaux, P. (2013). Importance of the ion-pair interactions in the OPEP coarse-grained force field: Parametrization and validation. *Journal of Chemical Theory and Computation*, 9(10), 4574-4584. <https://doi.org/10.1021/ct4003493>

Laitaoja, M., Valjakka, J., & Jänis, J. (2013). Zinc coordination spheres in protein structures. *Inorganic Chemistry*, 52(19), 10983-10991. <https://doi.org/10.1021/ic401072d>

Khan, M. N., Tjong, V., Chilkoti, A., & Zharnikov, M. (2013). Spectroscopic study of a DNA brush synthesized in situ by surface initiated enzymatic polymerization. *Journal of Physical Chemistry Part B*, 117(34), 9929-9938. <https://doi.org/10.1021/jp404774x>

Stirnemann, G., Wernersson, E., Jungwirth, P., & Laage, D. (2013). Mechanisms of acceleration and retardation of water dynamics by ions. *Journal of the American Chemical Society*, 135(32), 11824-11831. <https://doi.org/10.1021/ja405201s>

Khan, M. N., & Zharnikov, M. (2013). Irradiation promoted exchange reaction with disulfide substituents. *Journal of Physical Chemistry C*, 117(28), 14534-14543. <https://doi.org/10.1021/jp4006026>

Borah, D., Rasappa, S., SenthamaraiKannan, R., Holmes, J. D., & Morris, M. A. (2013). Tuning PDMS brush chemistry by UV-O3 exposure for PS-b-PDMS microphase separation and directed self-assembly. *Langmuir*, 29(28), 8959-8968. <https://doi.org/10.1021/la401561k>

Paterová, J., Rembert, K. B., Heyda, J., Kurra, Y., Okur, H. I., Liu, W. R., ... Jungwirth, P. (2013). Reversal of the Hofmeister series: Specific ion effects on peptides. *Journal of Physical Chemistry Part B*, 117(27), 8150-8158. <https://doi.org/10.1021/jp405683s>

Stumpel, J. E., Liu, D., Broer, D. J., & Schenning, A. P. H. J. (2013). Photoswitchable hydrogel surface topographies by polymerisation-induced diffusion. *Chemistry: A European Journal*, 19(33), 10922-10927. <https://doi.org/10.1002/chem.201300852>

Diban, N., Haimi, S., Bolhuis-Versteeg, L., Teixeira, S., Miettinen, S., Poot, A., ... Stamatialis, D. (2013). Development and characterization of poly( $\epsilon$ -caprolactone) hollow fiber membranes for vascular tissue engineering. *Journal of Membrane Science*, 438, 29-37. <https://doi.org/10.1016/j.memsci.2013.03.024>

Gordon, T. R., Paik, T., Klein, D. R., Naik, G. V., Caglayan, H., Boltasseva, A., & Murray, C. B. (2013). Shape-dependent plasmonic response and directed self-assembly in a new semiconductor building block, indium-doped cadmium oxide (ICO). *Nano Letters*, 13(6), 2857-2863. <https://doi.org/10.1021/nl4012003>

Gerlofs-Nijland, M. E., Totlandsdal, A. I., Tzankiozis, T., Leseman, D. L. A. C., Samaras, Z., Låg, M., ... Cassee, F. R. (2013). Cell toxicity and oxidative potential of engine exhaust particles: Impact of using particulate filter or biodiesel fuel blend. *Environmental Science and Technology*, 47(11), 5931-5938. <https://doi.org/10.1021/es305330y>

- Štěpánková, V., Paterová, J., Damborský, J., Jungwirth, P., Chaloupková, R., & Heyda, J. (2013). Cation-specific effects on enzymatic catalysis driven by interactions at the tunnel mouth. *Journal of Physical Chemistry Part B*, *117*(21), 6394-6402. <https://doi.org/10.1021/jp401506v>
- Pelto, J. M., Haimi, S. P., Siljander, A. S., Miettinen, S. S., Tappura, K. M., Higgins, M. J., & Wallace, G. G. (2013). Surface properties and interaction forces of biopolymer-doped conductive polypyrrole surfaces by atomic force microscopy. *Langmuir*, *29*(20), 6099-6108. <https://doi.org/10.1021/la4009366>
- McManamon, C., Delaney, P., Kavanagh, C., Wang, J. J., Rasappa, S., & Morris, M. A. (2013). Depth profiling of PLGA copolymer in a novel biomedical bilayer using confocal raman spectroscopy. *Langmuir*, *29*(19), 5905-5910. <https://doi.org/10.1021/la400402a>
- Bayr, S., Kaparaju, P., & Rintala, J. (2013). Screening pretreatment methods to enhance thermophilic anaerobic digestion of pulp and paper mill wastewater treatment secondary sludge. *Chemical Engineering Journal*, *223*, 479-486. <https://doi.org/10.1016/j.cej.2013.02.119>
- Tan, M., Feng, Y., Wang, H., Zhang, L., Khan, M., Guo, J., ... Liu, J. (2013). Immobilized bioactive agents onto polyurethane surface with heparin and phosphorylcholine group. *Macromolecular Research*, *21*(5), 541-549. <https://doi.org/10.1007/s13233-013-1028-3>
- Vapaavuori, J., Mahimwalla, Z., Chromik, R. R., Kaivola, M., Priimagi, A., & Barrett, C. J. (2013). Nanoindentation study of light-induced softening of supramolecular and covalently functionalized azo polymers. *Journal of Materials Chemistry C*, *1*(16), 2806-2810. <https://doi.org/10.1039/c3tc30246f>
- Rooj, S., Das, A., Stöckelhuber, K. W., Wang, D. Y., Galiatsatos, V., & Heinrich, G. (2013). Understanding the reinforcing behavior of expanded clay particles in natural rubber compounds. *Soft Matter*, *9*(14), 3798-3808. <https://doi.org/10.1039/c3sm27519a>
- Pale, V., Nikkonen, T., Vapaavuori, J., Kostianen, M., Kavakka, J., Selin, J., ... Helaja, J. (2013). Biomimetic zinc chlorin-poly(4-vinylpyridine) assemblies: Doping level dependent emission-absorption regimes. *Journal of Materials Chemistry C*, *1*(11), 2166-2173. <https://doi.org/10.1039/c3tc00499f>
- Ma, L., Wang, J., & Wang, G. (2013). Site-specific analysis of dipole polarizabilities of heterogeneous systems: Iron-doped  $\text{Si}_n$  ( $n = 1-14$ ) clusters. *Journal of Chemical Physics*, *138*(9), [094304]. <https://doi.org/10.1063/1.4793276>
- Borah, D., Ozmen, M., Rasappa, S., Shaw, M. T., Holmes, J. D., & Morris, M. A. (2013). Molecularly functionalized silicon substrates for orientation control of the microphase separation of PS-b-PMMA and PS-b-PDMS block copolymer systems. *Langmuir*, *29*(9), 2809-2820. <https://doi.org/10.1021/la304140q>
- Barboza, R., Bortolozzo, U., Assanto, G., & Residori, S. (2013). Optical vortex generation in nematic liquid crystal light valves. *Molecular Crystals and Liquid Crystals*, *572*(1), 24-30. <https://doi.org/10.1080/15421406.2012.763206>
- Rasappa, S., Borah, D., Faulkner, C. C., Lutz, T., Shaw, M. T., Holmes, J. D., & Morris, M. A. (2013). Fabrication of a sub-10 nm silicon nanowire based ethanol sensor using block copolymer lithography. *Nanotechnology*, *24*(6), [065503]. <https://doi.org/10.1088/0957-4484/24/6/065503>
- Vazdar, M., Jungwirth, P., & Mason, P. E. (2013). Aqueous guanidinium-carbonate interactions by molecular dynamics and neutron scattering: Relevance to ion-protein interactions. *Journal of Physical Chemistry Part B*, *117*(6), 1844-1848. <https://doi.org/10.1021/jp310719g>
- Farman, A. T., Hong, S. H., Caglayan, H., Ye, X., Diroll, B. T., Paik, T., ... Kagan, C. R. (2013). Chemically tailored dielectric-to-metal transition for the design of metamaterials from nanoimprinted colloidal nanocrystals. *Nano Letters*, *13*(2), 350-357. <https://doi.org/10.1021/nl303161d>

Wang, H., Feng, Y., Zhao, H., Fang, Z., Khan, M., & Guo, J. (2013). A potential nonthrombogenic small-diameter vascular scaffold with polyurethane/poly(ethylene glycol) hybrid materials by electrospinning technique. *Journal Nanoscience and Nanotechnology*, 13(2), 1578-1582. <https://doi.org/10.1166/jnn.2013.6051>

Ma, L., Wang, J., Hao, Y., & Wang, G. (2013). Density functional theory study of FePd<sub>n</sub> (n = 2-14) clusters and interactions with small molecules. *Computational Materials Science*, 68, 166-173. <https://doi.org/10.1016/j.commatsci.2012.10.014>

Ma, L., & Ray, A. K. (2013). Growth behavior and magnetic properties of spherical uranium oxide nanoclusters. *Journal of Computational and Theoretical Nanoscience*, 10(2), 334-340. <https://doi.org/10.1166/jctn.2013.2701>

Subramaniam, K., Das, A., Simon, F., & Heinrich, G. (2013). Networking of ionic liquid modified CNTs in SSBR. *European Polymer Journal*, 49(2), 345-352. <https://doi.org/10.1016/j.eurpolymj.2012.10.023>

Kulig, W., & Agmon, N. (2013). A 'clusters-in-liquid' method for calculating infrared spectra identifies the proton-transfer mode in acidic aqueous solutions. *Nature Chemistry*, 5(1), 29-35. <https://doi.org/10.1038/nchem.1503>

Lahtinen, K., Lahti, J., Johansson, P., Seppänen, T., & Cameron, D. C. (2013). Improving the effect of a nanoscale barrier coating on BOPP film properties by surface pretreatments. teoksessa *14th European PLACE Conference 2013* (Vuosikerta 1, Sivut 469-493). TAPPI Press.

Ylilauri, M., Mattila, E., Nurminen, E. M., Käpylä, J., Niinivehmas, S. P., Määttä, J. A., ... Pentikäinen, O. T. (2013). Molecular mechanism of T-cell protein tyrosine phosphatase (TCPTP) activation by mitoxantrone. *Biochimica et biophysica acta: proteins and proteomics*, 1834(10), 1988-1997. <https://doi.org/10.1016/j.bbapap.2013.07.001>

Mubarakali, D., Praveenkumar, R., Shenbagavalli, T., Mari Nivetha, T., Parveez Ahamed, A., Al-Dhabi, N. A., & Thajuddin, N. (2012). New reports on anti-bacterial and anti-candidal activities of fatty acid methyl esters (FAME) obtained from *Scenedesmus bijugatus* var. *bicellularis* biomass. *RSC Advances*, 2(30), 11552-11556. <https://doi.org/10.1039/c2ra21130k>

Buchholz, M., Goletz, C. M., Grossmann, F., Schmidt, B., Heyda, J., & Jungwirth, P. (2012). Semiclassical hybrid approach to condensed phase molecular dynamics: Application to the I<sub>2</sub>Kr<sub>17</sub> cluster. *Journal of Physical Chemistry A*, 116(46), 11199-11210. <https://doi.org/10.1021/jp305084f>

Pluhaová, E., Marsalek, O., Schmidt, B., & Jungwirth, P. (2012). Peptide salt bridge stability: From gas phase via microhydration to bulk water simulations. *Journal of Chemical Physics*, 137(18), [185101]. <https://doi.org/10.1063/1.4765052>