

- Donadei, Valentina et al. "Lubricated icephobic coatings prepared by flame spraying with hybrid feedstock injection". *Surface and Coatings Technology*. 2020. 403. <https://doi.org/10.1016/j.surfcoat.2020.126396>
- Sarlin, E. et al. "The effect of substrate pre-treatment on durability of rubber-stainless steel adhesion". *Surfaces and Interfaces*. 2020. 21. <https://doi.org/10.1016/j.surfin.2020.100646>
- Baratto, Camilla et al. "On the alignment of ZnO nanowires by Langmuir – Blodgett technique for sensing application". *Applied Surface Science*. 2020. 528. <https://doi.org/10.1016/j.apsusc.2020.146959>
- Tan, Clarence et al. "Fusionsense: Emotion classification using feature fusion of multimodal data and deep learning in a brain-inspired spiking neural network". *Sensors (Switzerland)*. 2020. 20(18). <https://doi.org/10.3390/s20185328>
- Olżyńska, Agnieszka et al. "Tail-Oxidized Cholesterol Enhances Membrane Permeability for Small Solutes". *Langmuir*. 2020, 36(35). 10438-10447. <https://doi.org/10.1021/acs.langmuir.0c01590>
- Kaleva, A. et al. "Formation of corrosion products on zinc in wet supercritical and subcritical CO₂: In-situ spectroscopic study". *Corrosion Science*. 2020. 174. <https://doi.org/10.1016/j.corsci.2020.108850>
- Azemati, Hamidreza et al. "The role of symmetry in the aesthetics of residential building façades using cognitive science methods". *Symmetry*. 2020. 12(9). <https://doi.org/10.3390/sym12091438>
- He, Han et al. "ClothFace: A Batteryless RFID-Based Textile Platform for Handwriting Recognition". *Sensors (Basel, Switzerland)*. 2020. 20(17). <https://doi.org/10.3390/s20174878>
- Truong, Khai Nghi et al. "The C-I...O-N⁺ Halogen Bonds with Tetraiodoethylene and Aromatic N-Oxides". *Crystal Growth and Design*. 2020, 20(8). 5330-5337. <https://doi.org/10.1021/acs.cgd.0c00560>
- Lahikainen, Markus, Hao Zeng, and Arri Priimagi. "Design principles for non-reciprocal photomechanical actuation". *Soft Matter*. 2020, 16(25). 5951-5958. <https://doi.org/10.1039/d0sm00624f>
- Ojha, N. et al. "Nucleation and growth behavior of Er³⁺ doped oxyfluorophosphate glasses". *RSC Advances*. 2020, 10(43). 25703-25716. <https://doi.org/10.1039/d0ra04681g>
- Sharma, Rajesh O., Tapio T. Rantala and Philip E. Hoggan. "Selective hydrogen production at Pt(111) investigated by Quantum Monte Carlo methods for metal catalysis". *International Journal of Quantum Chemistry*. 2020. 120(11). <https://doi.org/10.1002/qua.26198>
- Arvani, Maedeh et al. "Additive manufacturing of monolithic supercapacitors with biopolymer separator". *Journal of Applied Electrochemistry*. 2020, 50(6). 689-697. <https://doi.org/10.1007/s10800-020-01423-2>
- Isca, Vera M.S. et al. "Molecular Docking Studies of Royleanone Diterpenoids from *Plectranthus* spp. as P-Glycoprotein Inhibitors". *ACS MEDICINAL CHEMISTRY LETTERS*. 2020, 11(5). 839-845. <https://doi.org/10.1021/acsmedchemlett.9b00642>
- Alanen, Jenni et al. "Physical Characteristics of Particle Emissions from a Medium Speed Ship Engine Fueled with Natural Gas and Low-Sulfur Liquid Fuels". *Environmental Science and Technology*. 2020, 54(9). 5376-5384. <https://doi.org/10.1021/acs.est.9b06460>
- Javanainen, Matti, O. H. Samuli Ollila and Hector Martinez-Seara. "Rotational Diffusion of Membrane Proteins in Crowded Membranes". *Journal of Physical Chemistry B*. 2020, 124(15). 2994-3001. <https://doi.org/10.1021/acs.jpcc.0c00884>

- Haavisto, Johanna M. et al. "The effect of start-up on energy recovery and compositional changes in brewery wastewater in bioelectrochemical systems". *BIOELECTROCHEMISTRY*. 2020. 132. <https://doi.org/10.1016/j.bioelechem.2019.107402>
- Twum, Kwaku et al. "Host-Guest Interactions of Sodiumsulfonatomethyleneresorcinarene and Quaternary Ammonium Halides: An Experimental-Computational Analysis of the Guest Inclusion Properties". *Crystal Growth and Design*. 2020, 20(4). 2367-2376. <https://doi.org/10.1021/acs.cgd.9b01540>
- Young, David C. et al. "Photostable orange-red fluorescent unsymmetrical diketopyrrolopyrrole-BF₂ hybrids". *Journal of Materials Chemistry C*. 2020, 8(23). 7708-7717. <https://doi.org/10.1039/d0tc01202e>
- Aisala, Heikki et al. "Linking volatile and non-volatile compounds to sensory profiles and consumer liking of wild edible Nordic mushrooms". *Food Chemistry*. 2020. 304. <https://doi.org/10.1016/j.foodchem.2019.125403>
- Viljanen, Jan et al. "Sequential Collinear Photofragmentation and Atomic Absorption Spectroscopy for Online Laser Monitoring of Triatomic Metal Species". *Sensors (Basel, Switzerland)*. 2020. 20(2). <https://doi.org/10.3390/s20020533>
- Chronopoulos, Antonios et al. "Syndecan-4 tunes cell mechanics by activating the kindlin-integrin-RhoA pathway". *Nature Materials*. 2020. <https://doi.org/10.1038/s41563-019-0567-1>
- Pasanen, Hannu P. et al. "Monitoring Charge Carrier Diffusion across a Perovskite Film with Transient Absorption Spectroscopy". *The journal of physical chemistry letters*. 2020, 11(2). 445-450. <https://doi.org/10.1021/acs.jpcllett.9b03427>
- Chakraborty, Samayita et al. "Effect of tungsten and selenium on C₁ gas bioconversion by an enriched anaerobic sludge and microbial community analysis". *Chemosphere*. 2020. 250. <https://doi.org/10.1016/j.chemosphere.2020.126105>
- Jönkkäri, Ilari et al. "Compounding and characterization of recycled multilayer plastic films". *Journal of Applied Polymer Science*. 2020. <https://doi.org/10.1002/app.49101>
- Manninen, Hanna et al. "Taste compound – Nanocellulose interaction assessment by fluorescence indicator displacement assay". *Food Chemistry*. 2020. 318. <https://doi.org/10.1016/j.foodchem.2020.126511>
- Tofanello, Aryane et al. "Hematite Surface Modification toward Efficient Sunlight-Driven Water Splitting Activity: The Role of Gold Nanoparticle Addition". *Journal of Physical Chemistry C*. 2020. <https://doi.org/10.1021/acs.jpcc.9b11966>
- Varis, Tommi et al. "Influence of powder properties on residual stresses formed in high-pressure liquid fuel HVOF sprayed WC-CoCr coatings". *Surface and Coatings Technology*. 2020. 388. <https://doi.org/10.1016/j.surfcoat.2020.125604>
- Sankari, Anna et al. "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*. 2020. 152(7). <https://doi.org/10.1063/1.5141414>
- Beter, Julia et al. "Comparison and impact of different fiber debond techniques on fiber reinforced flexible composites". *Polymers*. 2020. 12(2). <https://doi.org/10.3390/polym12020472>
- Bączkiewicz, Jolanta et al. "Experimental study on axially loaded square hollow section T-joints under fire conditions". *FIRE SAFETY JOURNAL*. 2020. 114. <https://doi.org/10.1016/j.firesaf.2020.102993>
- Larnimaa, Santeri et al. "High-resolution analysis of the ν₃ band of radiocarbon methane ¹⁴CH₄". *Chemical Physics Letters*. 2020. 750. <https://doi.org/10.1016/j.cplett.2020.137488>
- Khvorost, Taras A. et al. "Ultrafast Photochemistry of the [Cr(NCS)₆]³⁻ Complex in Dimethyl Sulfoxide and Dimethylformamide upon Excitation into Ligand-Field Electronic State". *Journal of Physical Chemistry B*. 2020, 124(18). 3724-3733. <https://doi.org/10.1021/acs.jpcc.0c00088>

Moormann, Widukind et al. "Efficient Conversion of Light to Chemical Energy: Directional, Chiral Photoswitches with Very High Quantum Yields". *Angewandte Chemie - International Edition*. 2020, 59(35). 15081-15086. <https://doi.org/10.1002/anie.202005361>

Oliveira, Luis Miguel Cunha et al. "Modelling of a pressure swing adsorption unit by deep learning and artificial Intelligence tools". *Chemical Engineering Science*. 2020. 224. <https://doi.org/10.1016/j.ces.2020.115801>

Eklund, Amanda et al. "Fast Switching of Bright Whiteness in Channeled Hydrogel Networks". *Advanced Functional Materials*. 2020. <https://doi.org/10.1002/adfm.202000754>

Holmstedt, Suvi and Nuno R. Candeias. "A concise synthesis of carbasugars isolated from *Streptomyces lincolnensis*". *Tetrahedron*. 2020. <https://doi.org/10.1016/j.tet.2020.131346>

Taimoory, S. Maryamdokht et al. "Bringing a Molecular Plus One: Synergistic Binding Creates Guest-Mediated Three-Component Complexes". *Journal of Organic Chemistry*. 2020, 85(9). 5884-5894. <https://doi.org/10.1021/acs.joc.0c00220>

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

Palmolahti, Lauri et al. "Modification of Surface States of Hematite-Based Photoanodes by Submonolayer of TiO₂ for Enhanced Solar Water Splitting". *Journal of Physical Chemistry C*. 2020, 124(24). 13094-13101. <https://doi.org/10.1021/acs.jpcc.0c00798>

Karjalainen, M. et al. "Recovery characteristics of different tube materials in relation to combustion products". *International Journal for Ion Mobility Spectrometry*. 2020. <https://doi.org/10.1007/s12127-020-00266-z>

Wang, Mingyi et al. "Photo-oxidation of Aromatic Hydrocarbons Produces Low-Volatility Organic Compounds". *Environmental Science and Technology*. 2020, 54(13). 7911-7921. <https://doi.org/10.1021/acs.est.0c02100>

Hajdu-Rahkama, Réka et al. "Kinetics and modelling of thiosulphate biotransformations by haloalkaliphilic Thioalkalivibrio versutus". *Chemical Engineering Journal*. 2020. 401. <https://doi.org/10.1016/j.cej.2020.126047>

Shakun, Alexandra, Essi Sarlin, and Jyrki Vuorinen. "Energy dissipation in natural rubber latex films: The effect of stabilizers, leaching and acetone-treatment". *Journal of Applied Polymer Science*. 2020. <https://doi.org/10.1002/app.49609>

Evans, Donald M. et al. "Conductivity control via minimally invasive anti-Frenkel defects in a functional oxide". *Nature Materials*. 2020. <https://doi.org/10.1038/s41563-020-0765-x>

Pelkonen, Anssi et al. "A modular brain-on-a-chip for modelling epileptic seizures with functionally connected human neuronal networks". *Biosensors and Bioelectronics*. 2020. 168. <https://doi.org/10.1016/j.bios.2020.112553>

Jowett, Geraldine M. et al. "ILC1 drive intestinal epithelial and matrix remodelling". *Nature Materials*. 2020. <https://doi.org/10.1038/s41563-020-0783-8>

Ometov, Aleksandr et al. "Environmental monitoring with distributed mesh networks: An overview and practical implementation perspective for urban scenario". *Sensors (Switzerland)*. 2019. 19(24). <https://doi.org/10.3390/s19245548>

Zhang, Hang et al. "Programmable responsive hydrogels inspired by classical conditioning algorithm". *Nature Communications*. 2019. 10(1). <https://doi.org/10.1038/s41467-019-11260-3>

- Lowe, S. J. et al. "Key drivers of cloud response to surface-active organics". *Nature Communications*. 2019. 10(1). <https://doi.org/10.1038/s41467-019-12982-0>
- Roldin, Pontus et al. "The role of highly oxygenated organic molecules in the Boreal aerosol-cloud-climate system". *Nature Communications*. 2019. 10(1). <https://doi.org/10.1038/s41467-019-12338-8>
- Shevkunov, Igor et al. "Spectral object recognition in hyperspectral holography with complex-domain denoising". *Sensors (Switzerland)*. 2019. 19(23). <https://doi.org/10.3390/s19235188>
- Poikkimäki, Mikko et al. "Nanocluster Aerosol Emissions of a 3D Printer". *Environmental Science and Technology*. 2019, 53(23). 13618–13628. <https://doi.org/10.1021/acs.est.9b05317>
- Ye, Qing et al. "Molecular Composition and Volatility of Nucleated Particles from α -Pinene Oxidation between $-50\text{ }^{\circ}\text{C}$ and $+25\text{ }^{\circ}\text{C}$ ". *Environmental Science and Technology*. 2019, 53(21). 12357-12365. <https://doi.org/10.1021/acs.est.9b03265>
- Tomkowski, Robert et al. "Statistical evaluation of barkhausen noise testing (BNT) for ground samples". *Sensors (Switzerland)*. 2019. 19(21). <https://doi.org/10.3390/s19214716>
- Saegusa, Toshiyuki et al. "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*. 2019, 141(37). 14720-14727. <https://doi.org/10.1021/jacs.9b06567>
- Haavisto, Johanna et al. "Effects of anode materials on electricity production from xylose and treatability of TMP wastewater in an up-flow microbial fuel cell". *Chemical Engineering Journal*. 2019, 372. 141-150. <https://doi.org/10.1016/j.cej.2019.04.090>
- Reshef, Orad et al. "Multiresonant High-Q Plasmonic Metasurfaces". *Nano Letters*. 2019, 19(9). 6429-6434. <https://doi.org/10.1021/acs.nanolett.9b02638>
- Karjalainen, Panu et al. "Strategies To Diminish the Emissions of Particles and Secondary Aerosol Formation from Diesel Engines". *Environmental science & technology*. 2019, 53(17). 10408-10416. <https://doi.org/10.1021/acs.est.9b04073>
- Calejo, M. Teresa et al. "Porous polybutylene succinate films enabling adhesion of human embryonic stem cell-derived retinal pigment epithelial cells (hESC-RPE)". *European Polymer Journal*. 2019, 118. 78-87. <https://doi.org/10.1016/j.eurpolymj.2019.05.041>
- Poojari, Chetan et al. "Behavior of the DPH fluorescence probe in membranes perturbed by drugs". *Chemistry and Physics of Lipids*. 2019. 223. <https://doi.org/10.1016/j.chemphyslip.2019.104784>
- Wang, Shujiang et al. "Influence of ions to modulate hydrazone and oxime reaction kinetics to obtain dynamically cross-linked hyaluronic acid hydrogels". *Polymer Chemistry*. 2019, 10(31). 4322-4327. <https://doi.org/10.1039/c9py00862d>
- Kiilakoski, J. et al. "Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings". *Surface and Coatings Technology*. 2019, 371. 245-254. <https://doi.org/10.1016/j.surfcoat.2018.10.097>
- Fantozzi, Davide et al. "Chlorine induced high-temperature corrosion mechanisms in HVOF and HVOF sprayed Cr_3C_2 -based hardmetal coatings". *Corrosion Science*. 2019. <https://doi.org/10.1016/j.corsci.2019.108166>
- Schraik, Daniel et al. "Bayesian inversion of a forest reflectance model using Sentinel-2 and Landsat 8 satellite images". *JOURNAL OF QUANTITATIVE SPECTROSCOPY AND RADIATIVE TRANSFER*. 2019, 233. 1-12. <https://doi.org/10.1016/j.jqsrt.2019.05.013>

Solovyev, Aleksey I. et al. "Photochemistry of dithiophosphinate $\text{Ni}(\text{S}_2\text{P}(\text{i-Bu})_2)_2$ complex in CCl_4 . Transient species and TD-DFT calculations". *Journal of Photochemistry and Photobiology A: Chemistry*. 2019, 381. <https://doi.org/10.1016/j.jphotochem.2019.111857>

Matikainen, V. et al. "Erosion wear performance of WC-10Co4Cr and Cr_3C_2 -25NiCr coatings sprayed with high-velocity thermal spray processes". *Surface and Coatings Technology*. 2019, 370. 196-212. <https://doi.org/10.1016/j.surfcoat.2019.04.067>

Kezilebieke, Shawulienu et al. "Observation of Coexistence of Yu-Shiba-Rusinov States and Spin-Flip Excitations". *Nano Letters*. 2019, 19(7). 4614-4619. <https://doi.org/10.1021/acs.nanolett.9b01583>

Abada, A. et al. "FCC-hh: The Hadron Collider: Future Circular Collider Conceptual Design Report Volume 3". *European Physical Journal: Special Topics*. 2019, 228(4). 755-1107. <https://doi.org/10.1140/epjst/e2019-900087-0>

Ghalibaf, Maryam, Tharaka Rama Krishna C. Doddapaneni and Raimo Alén. "Pyrolytic behavior of lignocellulosic-based polysaccharides". *Journal of Thermal Analysis and Calorimetry*. 2019, 137(1). 121-131. <https://doi.org/10.1007/s10973-018-7919-y>

Paananen, Riku O. et al. "Crystalline Wax Esters Regulate the Evaporation Resistance of Tear Film Lipid Layers Associated with Dry Eye Syndrome". *Journal of Physical Chemistry Letters*. 2019, 10(14). 3893-3898. <https://doi.org/10.1021/acs.jpcllett.9b01187>

Banerjee, Shib Shankar et al. "Water-Responsive and Mechanically Adaptive Natural Rubber Composites by in Situ Modification of Mineral Filler Structures". *Journal of Physical Chemistry B*. 2019, 123(24). 5168-5175. <https://doi.org/10.1021/acs.jpcc.9b02125>

Hilka, Joonas et al. "Epitaxial phases of high Bi content GaSbBi alloys". *Journal of Crystal Growth*. 2019, 516. 67-71. <https://doi.org/10.1016/j.jcrysgro.2019.03.028>

Sautter, Jürgen D. et al. "Tailoring Second-Harmonic Emission from (111)-GaAs Nanoantennas". *Nano Letters*. 2019, 19(6). 3905-3911. <https://doi.org/10.1021/acs.nanolett.9b01112>

Lolicato, Fabio et al. "The Role of Temperature and Lipid Charge on Intake/Uptake of Cationic Gold Nanoparticles into Lipid Bilayers". *Small*. 2019, 15(23). <https://doi.org/10.1002/sml.201805046>

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

Lai, Yuli et al. "Correlation of Surface Morphology and Interfacial Adhesive Behavior between Cellulose Surfaces: Quantitative Measurements in Peak-Force Mode with the Colloidal Probe Technique". *Langmuir*. 2019, 35(22). 7312-7321. <https://doi.org/10.1021/acs.langmuir.8b03503>

Ali, Ihtisham et al. "Methods for simultaneous robot-world-hand-eye calibration: A comparative study". *Sensors (Switzerland)*. 2019, 19(12). <https://doi.org/10.3390/s19122837>

Kekonen, Atte et al. "Bioimpedance Sensor Array for Long-Term Monitoring of Wound Healing from Beneath the Primary Dressings and Controlled Formation of H_2O_2 Using Low-Intensity Direct Current". *Sensors*. 2019, 19(11). <https://doi.org/10.3390/s19112505>

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

- Gil-Gallegos, S. et al. "Energy-dependent diffusion in a soft periodic Lorentz gas". *European Physical Journal: Special Topics*. 2019, 228(1). 143-160. <https://doi.org/10.1140/epjst/e2019-800136-8>
- Trainer, Daniel J. et al. "Moiré superlattices and 2D electronic properties of graphite/MoS₂ heterostructures". *Journal of Physics and Chemistry of Solids*. 2019, 128. 325-330. <https://doi.org/10.1016/j.jpics.2017.10.034>
- Saari, Timo and Jouko Nieminen. "Spin filtering in silicene by edges and chemically or electrically induced interfaces". *Journal of Physics and Chemistry of Solids*. 2019, 128. 316-324. <https://doi.org/10.1016/j.jpics.2017.12.037>
- Itävuo, Pekka et al. "Mass balance control of crushing circuits". *Minerals Engineering*. 2019, 135. 37-47. <https://doi.org/10.1016/j.mineng.2019.02.033>
- Kulig, Waldemar et al. "Complex Behavior of Phosphatidylcholine-Phosphatidic Acid Bilayers and Monolayers: Effect of Acyl Chain Unsaturation". *Langmuir*. 2019, 35(17). 5944-5956. <https://doi.org/10.1021/acs.langmuir.9b00381>
- Puustinen, J., J. Hilska, and M. Guina. "Analysis of GaAsBi growth regimes in high resolution with respect to As/Ga ratio using stationary MBE growth". *Journal of Crystal Growth*. 2019, 511. 33-41. <https://doi.org/10.1016/j.jcrysgro.2019.01.010>
- Asikainen, Sanja et al. "Hydrolysis and drug release from poly(ethylene glycol)-modified lactone polymers with open porosity". *European Polymer Journal*. 2019, 113. 165-175. <https://doi.org/10.1016/j.eurpolymj.2019.01.056>
- Ometov, Aleksandr et al. "Positioning information privacy in intelligent transportation systems: An overview and future perspective". *Sensors*. 2019. 19(7). <https://doi.org/10.3390/s19071603>
- Kerst, Thomas et al. "Alpha radiation-induced luminescence by am-241 in aqueous nitric acid solution". *Sensors (Switzerland)*. 2019. 19(7). <https://doi.org/10.3390/s19071602>
- Gurtovenko, Andrey A. et al. "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*. 2019, 10(5). 1005-1011. <https://doi.org/10.1021/acs.jpclett.9b00065>
- Pekkanen, Timo T. et al. "Kinetics and thermochemistry of the reaction of 3-methylpropargyl radical with molecular oxygen". *PROCEEDINGS OF THE COMBUSTION INSTITUTE*. 2019, 37(1). 299-306. <https://doi.org/10.1016/j.proci.2018.05.050>
- Kuroda, Kiyonori et al. "A Pentacene-based Nanotube Displaying Enriched Electrochemical and Photochemical Activities". *Angewandte Chemie - International Edition*. 2019, 58(4). 1115-1119. <https://doi.org/10.1002/anie.201812976>
- Ruoko, Tero-Petri et al. "Charge carrier dynamics in tantalum oxide overlayers and tantalum doped hematite photoanodes". *Journal of Materials Chemistry A*. 2019, 7(7). 3206-3215. <https://doi.org/10.1039/C8TA09501A>
- Guglielmetti, Simone et al. "O₂-requiring molecular reporters of gene expression for anaerobic microorganisms". *Biosensors and Bioelectronics*. 2019, 123. 1-6. <https://doi.org/10.1016/j.bios.2018.09.066>
- Levämäki, H. et al. "An automated algorithm for reliable equation of state fitting of magnetic systems". *Computational Materials Science*. 2019, 156. 121-128. <https://doi.org/10.1016/j.commatsci.2018.09.026>
- Shin, Mingue et al. "Low-dimensional formamidinium lead perovskite architectures via controllable solvent intercalation". *Journal of Materials Chemistry C*. 2019, 7(13). 3945-3951. <https://doi.org/10.1039/c9tc00379g>

Bhagyaraj, Sneha et al. "Tuning of nonlinear absorption in highly luminescent CdSe based quantum dots with core-shell and core/multi-shell architectures". *Physical Chemistry Chemical Physics*. 2019, 21(21). 11424-11434. <https://doi.org/10.1039/c9cp00476a>

Mandal, Sadananda and Nikolai V. Tkachenko. "Multiphoton Excitation of CsPbBr₃ Perovskite Quantum Dots (PQDs): How Many Electrons Can One PQD Donate to Multiple Molecular Acceptors?". *Journal of Physical Chemistry Letters*. 2019, 2775-2781. <https://doi.org/10.1021/acs.jpcclett.9b01045>

Lemougna, Patrick N. et al. "Spodumene tailings for porcelain and structural materials: Effect of temperature (1050–1200°C) on the sintering and properties". *Minerals Engineering*. 2019. <https://doi.org/10.1016/j.mineng.2019.105843>

Eregowda, Tejaswini et al. "Volatile fatty acid adsorption on anion exchange resins: kinetics and selective recovery of acetic acid". *Separation Science and Technology (Philadelphia)*. 2019. <https://doi.org/10.1080/01496395.2019.1600553>

Anttalainen, Osmo et al. "Possible strategy to use differential mobility spectrometry in real time applications". *International Journal for Ion Mobility Spectrometry*. 2019. <https://doi.org/10.1007/s12127-019-00251-1>

Assoah, Benedicta et al. "Synthesis of 6,12-disubstituted methanodibenzo[b,f][1,5]dioxocins: Pyrrolidine catalyzed self-condensation of 2'-Hydroxyacetophenones". *Molecules*. 2019. 24(13). <https://doi.org/10.3390/molecules24132405>

Tienaho, Jenni et al. "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*. 2019. 24(12). <https://doi.org/10.3390/molecules24122330>

Umeyama, Tomokazu et al. "Exclusive occurrence of photoinduced energy transfer and switching of its direction by rectangular π -extension of nanographenes". *Chemical Science*. 2019, 10(27). 6642-6650. <https://doi.org/10.1039/c9sc01538h>

Liu, Weijun et al. "The maximum Hosoya index of unicyclic graphs with diameter at most four". *Symmetry*. 2019. 11(8). <https://doi.org/10.3390/sym11081034>

Ghorbani, Modjtaba et al. "The Hosoya entropy of graphs revisited". *Symmetry*. 2019. 11(8). <https://doi.org/10.3390/sym11081013>

Banerjee, Shib Shankar et al. "Temperature scanning stress relaxation behavior of water responsive and mechanically adaptive elastomer nanocomposites". *Journal of Applied Polymer Science*. 2019. <https://doi.org/10.1002/app.48344>

Sharma, Vipul et al. "Large-scale efficient water harvesting using bioinspired micro-patterned copper oxide nanoneedle surfaces and guided droplet transport". *Nanoscale Advances*. 2019, 1(10). 4025-4040. <https://doi.org/10.1039/c9na00405j>

Ayodele, Olumide Bolarinwa et al. "Synergistic Computational-Experimental Discovery of Highly Selective PtCu Nanocluster Catalysts for Acetylene Semihydrogenation". *ACS CATALYSIS*. 2019, 451-457. <https://doi.org/10.1021/acscatal.9b03539>

Passananti, Monica et al. "How well can we predict cluster fragmentation inside a mass spectrometer?". *Chemical Communications*. 2019, 55(42). 5946-5949. <https://doi.org/10.1039/c9cc02896j>

Joost, Urmas et al. "Reversible photodoping of TiO₂ nanoparticles". *Chemistry of Materials*. 2018, 30(24). 8968-8974. <https://doi.org/10.1021/acs.chemmater.8b04813>

Czaplicki, Robert et al. "Less Is More: Enhancement of Second-Harmonic Generation from Metasurfaces by Reduced Nanoparticle Density". *Nano Letters*. 2018, 18(12). 7709-7714. <https://doi.org/10.1021/acs.nanolett.8b03378>

Garifullin, Marsel. "Experimental moment resistance of rectangular hollow section T joints". *MATEC Web of Conferences*. 2018. 245. <https://doi.org/10.1051/mateconf/201824508003>

Kotila, Tommi et al. "Structural basis of actin monomer re-charging by cyclase-Associated protein". *Nature Communications*. 2018. 9(1). <https://doi.org/10.1038/s41467-018-04231-7>

Perumbilavil, Sreekanth et al. "Beaming random lasers with soliton control". *Nature Communications*. 2018. 9(1). <https://doi.org/10.1038/s41467-018-06170-9>

Salmenjoki, Henri, Mikko J. Alava, and Lasse Laurson. "Machine learning plastic deformation of crystals". *Nature Communications*. 2018. 9(1). <https://doi.org/10.1038/s41467-018-07737-2>

Ferreira, Silvia A. et al. "Bi-directional cell-pericellular matrix interactions direct stem cell fate". *Nature Communications*. 2018. 9(1). <https://doi.org/10.1038/s41467-018-06183-4>

Rimpiläinen, Tatu et al. "Aminobenzylated 4-Nitrophenols as Antibacterial Agents Obtained from 5-Nitrosalicylaldehyde through a Petasis Borono-Mannich Reaction". *ACS Omega*. 2018, 3(11). 16191-16202. <https://doi.org/10.1021/acsomega.8b02381>

Närhi, Mikko et al. "Machine learning analysis of extreme events in optical fibre modulation instability". *Nature Communications*. 2018. 9(1). <https://doi.org/10.1038/s41467-018-07355-y>

Uusheimo, Sari et al. "High Nitrogen Removal in a Constructed Wetland Receiving Treated Wastewater in a Cold Climate". *Environmental science & technology*. 2018, 52(22). 13343-13350. <https://doi.org/10.1021/acs.est.8b03032>

Sakai, Hayato et al. "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*. 2018, 24(64). 17062-17071. <https://doi.org/10.1002/chem.201803257>

Rinne, Jukka et al. "M2M Communication Assessment in Energy-Harvesting and Wake-Up Radio Assisted Scenarios Using Practical Components". *Sensors (Basel, Switzerland)*. 2018. 18(11). <https://doi.org/10.3390/s18113992>

Chevrier, Daniel M. et al. "Molecular-Scale Ligand Effects in Small Gold-Thiolate Nanoclusters". *Journal of the American Chemical Society*. 2018, 140(45). 15430-15436. <https://doi.org/10.1021/jacs.8b09440>

Tan, Lea Chua et al. "Biological treatment of selenium-laden wastewater containing nitrate and sulfate in an upflow anaerobic sludge bed reactor at pH 5.0". *Chemosphere*. 2018, 211. 684-693. <https://doi.org/10.1016/j.chemosphere.2018.07.079>

Huttunen-Saarivirta, E. et al. "Tribocorrosion behaviour of aluminium bronze in 3.5 wt.% NaCl solution". *Corrosion Science*. 2018, 144. 207-223. <https://doi.org/10.1016/j.corsci.2018.08.058>

Tiihonen, Juha, Ilkka Kylänpää, and Tapio T. Rantala. "Computation of Dynamic Polarizabilities and van der Waals Coefficients from Path-Integral Monte Carlo". *Journal of Chemical Theory and Computation*. 2018, 14. 5750-5763. <https://doi.org/10.1021/acs.jctc.8b00859>

Heijne, Annemiek ter et al. "Quantification of bio-anode capacitance in bioelectrochemical systems using Electrochemical Impedance Spectroscopy". *Journal of Power Sources*. 2018, 400. 533-538. <https://doi.org/10.1016/j.jpowsour.2018.08.003>

Rajan, Rathish et al. "Mechanical, thermal, and burning properties of viscose fabric composites: Influence of epoxy resin modification". *Journal of Applied Polymer Science*. 2018. 135(36). <https://doi.org/10.1002/app.46673>

- Jermakka, Johannes et al. "Electro-concentration for chemical-free nitrogen capture as solid ammonium bicarbonate". *Separation and Purification Technology*. 2018, 203. 48-55. <https://doi.org/10.1016/j.seppur.2018.04.023>
- Nieminen, Ville et al. "A compact olfactometer for IMS measurements and testing human perception". *International Journal for Ion Mobility Spectrometry*. 2018, 21(3). 71-80. <https://doi.org/10.1007/s12127-018-0235-1>
- Hyväluoma, Jari et al. "Effects of pyrolysis temperature on the hydrologically relevant porosity of willow biochar". *Journal of Analytical and Applied Pyrolysis*. 2018. 134. <https://doi.org/10.1016/j.jaap.2018.07.011>
- Mandal, Sadananda et al. "Photoinduced Energy Transfer in ZnCdSeS Quantum Dot-Phthalocyanines Hybrids". *ACS Omega*. 2018, 3(8). 10048-10057. <https://doi.org/10.1021/acsomega.8b01623>
- Tan, Lea Chua et al. "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*. 2018, 93(8). 2380-2389. <https://doi.org/10.1002/jctb.5586>
- Hiltunen, Arto et al. "Design aspects of all atomic layer deposited TiO₂-Fe₂O₃ scaffold-absorber photoanodes for water splitting". *Sustainable Energy & Fuels*. 2018, 2(9). 2124-2130. <https://doi.org/10.1039/C8SE00252E>
- Rajala, Satu et al. "High Bending-Mode Sensitivity of Printed Piezoelectric Poly(vinylidene fluoride- co-trifluoroethylene) Sensors". *ACS Omega*. 2018, 3(7). 8067-8073. <https://doi.org/10.1021/acsomega.8b01185>
- Laurén, Patrick et al. "Pectin and Mucin Enhance the Bioadhesion of Drug Loaded Nanofibrillated Cellulose Films". *Pharmaceutical Research*. 2018. 35(7). <https://doi.org/10.1007/s11095-018-2428-z>
- Siljander, Sanna et al. "Effect of surfactant type and sonication energy on the electrical conductivity properties of nanocellulose-CNT nanocomposite films". *International Journal of Molecular Sciences*. 2018. 19(6). <https://doi.org/10.3390/ijms19061819>
- Nair, Anju K. et al. "Multifunctional nitrogen sulfur co-doped reduced graphene oxide – Ag nano hybrids (sphere, cube and wire) for nonlinear optical and SERS applications". *Carbon*. 2018, 132. 380-393. <https://doi.org/10.1016/j.carbon.2018.02.068>
- George, Lijo et al. "Photo-antimicrobial efficacy of zinc complexes of porphyrin and phthalocyanine activated by inexpensive consumer LED lamp". *Journal of Inorganic Biochemistry*. 2018, 183. 94-100. <https://doi.org/10.1016/j.jinorgbio.2018.03.015>
- Pirhonen, Mikko, Mikko Peltokangas, and Antti Vehkaoja. "Acquiring respiration rate from photoplethysmographic signal by recursive bayesian tracking of intrinsic modes in time-frequency spectra". *Sensors*. 2018. 18(6). <https://doi.org/10.3390/s18061693>
- Virtanen, Juhani et al. "Evaluation of dry electrodes in canine heart rate monitoring". *Sensors*. 2018. 18(6). <https://doi.org/10.3390/s18061757>
- Virkki, Kirsi et al. "Effect of Co-Adsorbate and Hole Transporting Layer on the Photoinduced Charge Separation at the TiO₂-Phthalocyanine Interface". *ACS Omega*. 2018, 3(5). 4947-4958. <https://doi.org/10.1021/acsomega.8b00600>
- Zhou, Kecheng et al. "A Ceramide-Regulated Element in the Late Endosomal Protein LAPTM4B Controls Amino Acid Transporter Interaction". *ACS Central Science*. 2018, 4(5). 548-558. <https://doi.org/10.1021/acscentsci.7b00582>

Raappana, Marianna et al. "Wet etching of dilute nitride GaInNAs, GaInNAsSb, and GaNAsSb alloys lattice-matched to GaAs". *Corrosion Science*. 2018, 136. 268-274. <https://doi.org/10.1016/j.corsci.2018.03.018>

Manninen, Hanna et al. "Free amino acids and 5'-nucleotides in Finnish forest mushrooms". *Food Chemistry*. 2018, 247. 23-28. <https://doi.org/10.1016/j.foodchem.2017.12.014>

Harra, Juha et al. "Characteristics of nFOG, an aerosol-based wet thin film coating technique". *Journal of Coatings Technology Research*. 2018, 15(3). 623-632. <https://doi.org/10.1007/s11998-017-0022-7>

Melcr, Josef et al. "Accurate Binding of Sodium and Calcium to a POPC Bilayer by Effective Inclusion of Electronic Polarization". *Journal of Physical Chemistry B*. 2018, 122(16). 4546-4557. <https://doi.org/10.1021/acs.jpcc.7b12510>

Khan, Musammir et al. "Composite Hydrogels Using Bioinspired Approach with in Situ Fast Gelation and Self-Healing Ability as Future Injectable Biomaterial". *ACS Applied Materials & Interfaces*. 2018, 10(14). 11950-11960. <https://doi.org/10.1021/acsami.8b01351>

Magarkar, Aniket et al. "Membrane bound COMT isoform is an interfacial enzyme: General mechanism and new drug design paradigm". *Chemical Communications*. 2018, 54(28). 3440-3443. <https://doi.org/10.1039/c8cc00221e>

Sassatelli, Paolo et al. "Properties of HVOF-sprayed Stellite-6 coatings". *Surface and Coatings Technology*. 2018, 338. 45-62. <https://doi.org/10.1016/j.surfcoat.2018.01.078>

Poutanen, Mikko et al. "Thermal Isomerization of Hydroxyazobenzenes as a Platform for Vapor Sensing". *ACS Macro Letters*. 2018, 7(3). 381-386. <https://doi.org/10.1021/acsmacrolett.8b00093>

Janka, Leo et al. "Improving the high temperature abrasion resistance of thermally sprayed Cr₃C₂-NiCr coatings by WC addition". *Surface and Coatings Technology*. 2018, 337. 296-305. <https://doi.org/10.1016/j.surfcoat.2018.01.035>

Karvinen, Jennika et al. "Soft hydrazone crosslinked hyaluronan- and alginate-based hydrogels as 3D supportive matrices for human pluripotent stem cell-derived neuronal cells". *Reactive and Functional Polymers*. 2018, 124. 29-39. <https://doi.org/10.1016/j.reactfunctpolym.2017.12.019>

Hannula, Markku et al. "Improved Stability of Atomic Layer Deposited Amorphous TiO₂ Photoelectrode Coatings by Thermally Induced Oxygen Defects". *Chemistry of Materials*. 2018, 30(4). 1199-1208. <https://doi.org/10.1021/acs.chemmater.7b02938>

Mehrang, Saeed, Julia Pietilä and Ilkka Korhonen. "An activity recognition framework deploying the random forest classifier and a single optical heart rate monitoring and triaxial accelerometer wrist-band". *Sensors*. 2018. 18(2). <https://doi.org/10.3390/s18020613>

Kainulainen, Tuomo P. et al. "UV-Blocking Synthetic Biopolymer from Biomass-Based Bifuran Diester and Ethylene Glycol". *Macromolecules*. 2018, 51(5). 1822-1829. <https://doi.org/10.1021/acs.macromol.7b02457>

Vale, Joao R. et al. "Pot-economy autooxidative condensation of 2-Aryl-2-lithio-1,3-dithianes". *Journal of Organic Chemistry*. 2018, 83(4). 1948-1958. <https://doi.org/10.1021/acs.joc.7b02896>

Vaikuntam, Sankar Raman et al. "Entrapped Styrene Butadiene Polymer Chains by Sol-Gel-Derived Silica Nanoparticles with Hierarchical Raspberry Structures". *Journal of Physical Chemistry B*. 2018, 122(6). 2010-2022. <https://doi.org/10.1021/acs.jpcc.7b11792>

Iantovics, Laszlo Barna, Matthias Dehmer, and Frank Emmert-Streib. "MetriIntSimil-an accurate and robust metric for comparison of similarity in intelligence of any number of cooperative multiagent systems". *Symmetry*. 2018. 10(2). <https://doi.org/10.3390/sym10020048>

Barreca, Davide et al. "Controlled Growth of Supported ZnO Inverted Nanopyramids with Downward Pointing Tips". *Crystal Growth and Design*. 2018, 18(4). 2579-2587. <https://doi.org/10.1021/acs.cgd.8b00198>

Das, Amit et al. "Temperature scanning stress relaxation of an autonomous self-healing elastomer containing non-covalent reversible network junctions". *Polymers*. 2018. 10(1). <https://doi.org/10.3390/polym10010094>

Kato, Daiki et al. "Concentration-dependent photophysical switching in mixed self-assembled monolayers of pentacene and perylene diimide on gold nanoclusters". *Physical Chemistry Chemical Physics*. 2018, 20(13). 8695-8706. <https://doi.org/10.1039/c8cp00174j>

Ojha, N. et al. "Upconversion from fluorophosphate glasses prepared with NaYF₄:Er³⁺, Yb³⁺ nanocrystals". *RSC Advances*. 2018, 8(34). 19226-19236. <https://doi.org/10.1039/c8ra03298j>

Saccone, Marco et al. "Ortho-Fluorination of azophenols increases the mesophase stability of photoresponsive hydrogen-bonded liquid crystals". *Journal of Materials Chemistry C*. 2018, 6(37). 9958-9963. <https://doi.org/10.1039/c8tc02611d>

Shakun, Alexandra et al. "Improved electromechanical response in acrylic rubber by different carbon-based fillers". *Polymer Engineering and Science*. 2018, 58(3). 395-404. <https://doi.org/10.1002/pen.24586>

Rajan, Rathish et al. "Modification of epoxy resin by silane-coupling agent to improve tensile properties of viscose fabric composites". *Polymer Bulletin*. 2018, 75(1). 167-195. <https://doi.org/10.1007/s00289-017-2022-2>

Doddapaneni, Tharaka Rama Krishna C. et al. "Adsorption of furfural from torrefaction condensate using torrefied biomass". *Chemical Engineering Journal*. 2018, 334. 558-568. <https://doi.org/10.1016/j.cej.2017.10.053>

Honkanen, Mari et al. "Regeneration of sulfur-poisoned Pd-based catalyst for natural gas oxidation". *Journal of Catalysis*. 2018, 358. 253-265. <https://doi.org/10.1016/j.jcat.2017.12.021>

Dessi, Paolo et al. "Composition and role of the attached and planktonic microbial communities in mesophilic and thermophilic xylose-fed microbial fuel cells". *RSC Advances*. 2018, 8(6). 3069-3080. <https://doi.org/10.1039/c7ra12316g>

Ojha, N. et al. "Decomposition of persistent luminescent microparticles in corrosive phosphate glass melt". *Corrosion Science*. 2018, 135. 207-214. <https://doi.org/10.1016/j.corsci.2018.02.050>

Saarimaa, Ville et al. "Convenient extraction method for quantification of thin zinc patina layers". *Surface and Interface Analysis*. 2018, 50(5). 564-570. <https://doi.org/10.1002/sia.6429>

Rokade, Shalaka S. et al. "Gloriosa superba Mediated Synthesis of Platinum and Palladium Nanoparticles for Induction of Apoptosis in Breast Cancer". *Bioinorganic Chemistry and Applications*. 2018. 2018. <https://doi.org/10.1155/2018/4924186>

Tienaho, Jenni et al. "A Bioscreening Technique for Ultraviolet Irradiation Protective Natural Substances". *Photochemistry and Photobiology*. 2018, 94(6). 1273-1280. <https://doi.org/10.1111/php.12954>

D'Urso, Luisa et al. "Detection and characterization at nM concentration of oligomers formed by hIAPP, A β (1-40) and their equimolar mixture using SERS and MD simulations". *Physical Chemistry Chemical Physics*. 2018, 20(31). 20588-20596. <https://doi.org/10.1039/c7cp08552d>

Nykänen, Hannu, Promise A. Mpamah, and Antti J. Rissanen. "Stable carbon isotopic composition of peat columns, subsoil and vegetation on natural and forestry-drained boreal peatlands". *Isotopes in Environmental and Health Studies*. 2018. 54(6). <https://doi.org/10.1080/10256016.2018.1523158>

Sadiek, Ibrahim et al. "Optical frequency comb photoacoustic spectroscopy". *Physical Chemistry Chemical Physics*. 2018, 20(44). 27849-27855. <https://doi.org/10.1039/c8cp05666h>

Durandin, Nikita A. et al. "Efficient photon upconversion at remarkably low annihilator concentrations in a liquid polymer matrix: when less is more". *Chemical Communications*. 2018, 54(99). 14029-14032. <https://doi.org/10.1039/c8cc07592a>

Virkki, Matti et al. "On the molecular optical nonlinearity of halogen-bond-forming azobenzenes". *Physical Chemistry Chemical Physics*. 2018, 20(45). 28810-28817. <https://doi.org/10.1039/c8cp05392h>

Saarimaa, Ville et al. "Supercritical carbon dioxide treatment of hot dip galvanized steel as a surface treatment before coating". *Surface and Coatings Technology*. 2017, 331. 137-142. <https://doi.org/10.1016/j.surfcoat.2017.10.047>

Lisitsyna, Ekaterina S. et al. "Time-Resolved Fluorescence Spectroscopy Reveals Fine Structure and Dynamics of Poly(L-lysine) and Polyethylenimine Based DNA Polyplexes". *Journal of Physical Chemistry B*. 2017, 121(48). 10782-10792. <https://doi.org/10.1021/acs.jpcc.7b08394>

Liimatainen, Ville et al. "Mapping microscale wetting variations on biological and synthetic water-repellent surfaces". *Nature Communications*. 2017. 8(1). <https://doi.org/10.1038/s41467-017-01510-7>

Christophliemk, Hanna et al. "Oxygen and water vapor transmission rates of starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper". *Progress in Organic Coatings*. 2017, 113. 218-224. <https://doi.org/10.1016/j.porgcoat.2017.04.019>

Sippola, Roosa J. et al. "Carbazole-based small molecule electron donors: Syntheses, characterization, and material properties". *Dyes and Pigments*. 2017, 150. 79-88. <https://doi.org/10.1016/j.dyepig.2017.11.014>

Danne, Reinis et al. "DoGlycans-Tools for Preparing Carbohydrate Structures for Atomistic Simulations of Glycoproteins, Glycolipids, and Carbohydrate Polymers for GROMACS". *Journal of Chemical Information and Modeling*. 2017, 57(10). 2401-2406. <https://doi.org/10.1021/acs.jcim.7b00237>

Christophliemk, Hanna et al. "Starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper and their effects of phase interactions". *Progress in Organic Coatings*. 2017, 111. 13-22. <https://doi.org/10.1016/j.porgcoat.2017.04.018>

Isakov, M. et al. "Systematic analysis of coating-substrate interactions in the presence of flow localization". *Surface and Coatings Technology*. 2017, 324. 264-280. <https://doi.org/10.1016/j.surfcoat.2017.05.040>

Timr, Štěpán et al. "Membrane Binding of Recoverin: From Mechanistic Understanding to Biological Functionality". *ACS Central Science*. 2017, 3(8). 868-874. <https://doi.org/10.1021/acscentsci.7b00210>

Pirjola, L. et al. "Exhaust emissions of non-road mobile machine: Real-world and laboratory studies with diesel and HVO fuels". *Fuel*. 2017, 202. 154-164. <https://doi.org/10.1016/j.fuel.2017.04.029>

Itävuori, Pekka, Erik Hulthén, and Matti Vilkkö. "Feed-hopper level estimation and control in cone crushers". *Minerals Engineering*. 2017, 110. 82-95. <https://doi.org/10.1016/j.mineng.2017.04.010>

Rahaman, Obaidur et al. "Configurational Disorder of Water Hydrogen-Bond Network at the Protein Dynamical Transition". *Journal of Physical Chemistry Part B*. 2017, 121(28). 6792-6798. <https://doi.org/10.1021/acs.jpcc.7b03888>

Poikelispää, Minna et al. "Vegetable fillers for electric stimuli responsive elastomers". *Journal of Applied Polymer Science*. 2017. 134(28). <https://doi.org/10.1002/app.45081>

Suominen, Milla et al. "Electropolymerized polyazulene as active material in flexible supercapacitors". *Journal of Power Sources*. 2017, 356. 181-190. <https://doi.org/10.1016/j.jpowsour.2017.04.082>

Nogueira, Idelfonso B.R. et al. "Dynamics of a True Moving Bed separation process: Linear model identification and advanced process control". *Journal of Chromatography A*. 2017. 1504. <https://doi.org/10.1016/j.chroma.2017.04.060>

Baek, Jinseok et al. "Long-Range Observation of Exciplex Formation and Decay Mediated by One-Dimensional Bridges". *Journal of Physical Chemistry C*. 2017, 121(25). 13952-13961. <https://doi.org/10.1021/acs.jpcc.7b04483>

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

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

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

Piccardi, A. et al. "Nematicon-enhanced spontaneous symmetry breaking". *Molecular Crystals and Liquid Crystals*. 2017, 649(1). 59-65. <https://doi.org/10.1080/15421406.2017.1303916>

Jones, R. O. et al. "Density functional study of structure and dynamics in liquid antimony and Sb_n clusters". *Journal of Chemical Physics*. 2017. 146(19). <https://doi.org/10.1063/1.4983219>

Kramb, Jason et al. "The effects of calcium and potassium on CO_2 gasification of birch wood in a fluidized bed". *Fuel*. 2017, 196. 398-407. <https://doi.org/10.1016/j.fuel.2017.01.101>

Virkki, Kirsi et al. "Photoinduced Electron Injection from Zinc Phthalocyanines into Zinc Oxide Nanorods: Aggregation Effects". *Journal of Physical Chemistry C*. 2017, 121(17). 9594-9605. <https://doi.org/10.1021/acs.jpcc.7b01562>

Honkanen, Mari et al. "Electron microscopic studies of natural gas oxidation catalyst – Effects of thermally accelerated aging on catalyst microstructure". *Journal of Catalysis*. 2017, 349. 19-29. <https://doi.org/10.1016/j.jcat.2017.03.003>

Mah, Pei T. et al. "Elucidation of Compression-Induced Surface Crystallization in Amorphous Tablets Using Sum Frequency Generation (SFG) Microscopy". *Pharmaceutical Research*. 2017, 34(5). 957-970. <https://doi.org/10.1007/s11095-016-2046-6>

Higashino, Tomohiro et al. "Hexaphyrin as a Potential Theranostic Dye for Photothermal Therapy and ^{19}F Magnetic Resonance Imaging". *ChemBioChem*. 2017, 18(10). 951-959. <https://doi.org/10.1002/cbic.201700071>

Bilkova, Eva et al. "Calcium Directly Regulates Phosphatidylinositol 4,5-Bisphosphate Headgroup Conformation and Recognition". *Journal of the American Chemical Society*. 2017, 139(11). 4019-4024. <https://doi.org/10.1021/jacs.6b11760>

Milani, Roberto et al. "Hierarchical Self-Assembly of Halogen-Bonded Block Copolymer Complexes into Upright Cylindrical Domains". *CheM*. 2017, 2(3). 417-426. <https://doi.org/10.1016/j.chempr.2017.02.003>

Guixà-González, Ramon et al. "Membrane cholesterol access into a G-protein-coupled receptor". *Nature Communications*. 2017. 8. <https://doi.org/10.1038/ncomms14505>

- Izdebskaya, Yana et al. "Magnetic routing of light-induced waveguides". *Nature Communications*. 2017. 8. <https://doi.org/10.1038/ncomms14452>
- Siiskonen, Antti and Arri Priimägi. "Benchmarking DFT methods with small basis sets for the calculation of halogen-bond strengths". *Journal of Molecular Modeling*. 2017. 23(2). <https://doi.org/10.1007/s00894-017-3212-4>
- Balanta, M. A G et al. "Polarization resolved photoluminescence in GaAs_{1-x}Bi_x/GaAs quantum wells". *Journal of Luminescence*. 2017, 182. 49-52. <https://doi.org/10.1016/j.jlumin.2016.10.008>
- Kovács, Péter Tamás et al. "Architectures and codecs for real-time light field streaming". *Journal of Imaging Science and Technology*. 2017. 61(1). <https://doi.org/10.2352/J.ImagingSci.Technol.2017.61.1.010403>
- Vuori, Leena et al. "Improved corrosion properties of Hot Dip Galvanized Steel by nanomolecular silane layers as hybrid interface between zinc and top coatings". *Corrosion*. 2017. 73(2). <https://doi.org/10.5006/2206>
- Lahbib, Ikram et al. "Synthesis, Structural Characterization, Hirshfeld Surface and Antioxidant Activity Analysis of a Novel Organic Cation Antimonate Complex". *Journal of Cluster Science*. 2017, 28(4). 2239–2252. <https://doi.org/10.1007/s10876-017-1217-x>
- Golovanov, V. V. et al. "Effects of orientation at the phthalocyanine-CdSe interface on the electron transfer characteristics". *Physical Chemistry Chemical Physics*. 2017, 19(16). 10511-10517. <https://doi.org/10.1039/c7cp00833c>
- Mojica, Edson, Said Pertuz and Henry Arguello. "High-resolution coded-aperture design for compressive X-ray tomography using low resolution detectors". *Optics Communications*. 2017, 404. 103-109. <https://doi.org/10.1016/j.optcom.2017.06.053>
- Fabert, M. et al. "Crystallization and sintering of borosilicate bioactive glasses for application in tissue engineering". *Journal of Materials Chemistry B*. 2017, 5(23). 4514-4525. <https://doi.org/10.1039/c7tb00106a>
- Javanainen, Matti et al. "Two cations, two mechanisms: Interactions of sodium and calcium with zwitterionic lipid membranes". *Chemical Communications*. 2017, 53(39). 5380-5383. <https://doi.org/10.1039/c7cc02208e>
- Vapaavuori, Jaana et al. "Supramolecular control of liquid crystals by doping with halogen-bonding dyes". *RSC Advances*. 2017, 7(64). 40237-40242. <https://doi.org/10.1039/c7ra06397k>
- Saccone, Marco et al. "Photoresponsive ionic liquid crystals assembled: Via halogen bond: En route towards light-controllable ion transporters". *Faraday Discussions*. 2017, 203. 407-422. <https://doi.org/10.1039/c7fd00120g>
- Baek, Jinseok et al. "Photophysical properties of porphyrin dimer-single-walled carbon nanotube linked systems". *Journal of Physical Chemistry C*. 2017. 121(39). <https://doi.org/10.1021/acs.jpcc.7b08594>
- Kordmahaleh, Aidin Alinezhad et al. "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. 2017. <https://doi.org/10.1155/2017/4210184>
- Ntziachristos, L. et al. "Particle emissions characterization from a medium-speed marine diesel engine with two fuels at different sampling conditions". *Fuel*. 2016, 186. 456-465. <https://doi.org/10.1016/j.fuel.2016.08.091>
- Varis, T. et al. "Optimization of HVOF Cr₃C₂-NiCr coating for increased fatigue performance". *Surface and Coatings Technology*. 2016, 305. 123-131. <https://doi.org/10.1016/j.surfcoat.2016.08.012>

- Ropo, Matti, Jaakko Akola and Robert O. Jones. "Collective excitations and viscosity in liquid Bi". *Journal of Chemical Physics*. 2016. 145(18). <https://doi.org/10.1063/1.4965429>
- Poikelispää, Minna et al. "Improvement of actuation performance of dielectric elastomers by barium titanate and carbon black fillers". *Journal of Applied Polymer Science*. 2016. 133(42). <https://doi.org/10.1002/app.44116>
- Smith, James David et al. "London Hybrid Exposure Model: Improving Human Exposure Estimates to NO₂ and PM_{2.5} in an Urban Setting". *Environmental Science and Technology*. 2016, 50(21). 11760-11768. <https://doi.org/10.1021/acs.est.6b01817>
- Ali-Löytty, Harri et al. "Grain orientation dependent Nb-Ti microalloying mediated surface segregation on ferritic stainless steel". *Corrosion Science*. 2016, 112. 204-213. <https://doi.org/10.1016/j.corsci.2016.07.024>
- Reisberg, L. et al. "UPS and DFT investigation of the electronic structure of gas-phase trimesic acid". *Journal of Electron Spectroscopy and Related Phenomena*. 2016, 213. 11-16. <https://doi.org/10.1016/j.elspec.2016.10.004>
- Will, Olga Maria et al. "Increased survival rate by local release of diclofenac in a murine model of recurrent oral carcinoma". *International Journal of Nanomedicine*. 2016, 11. 5311-5321. <https://doi.org/10.2147/IJN.S109199>
- Kramb, Jason et al. "Elimination of arsenic-containing emissions from gasification of chromated copper arsenate wood". *Fuel*. 2016, 181. 319-324. <https://doi.org/10.1016/j.fuel.2016.04.109>
- Zhou, Quan et al. "Controlling the motion of multiple objects on a Chladni plate". *Nature Communications*. 2016. 7. <https://doi.org/10.1038/ncomms12764>
- Robison, Aaron D. et al. "Polyarginine Interacts More Strongly and Cooperatively than Polylysine with Phospholipid Bilayers". *Journal of Physical Chemistry Part B*. 2016, 120(35). 9287-9296. <https://doi.org/10.1021/acs.jpcc.6b05604>
- Pilehrood, Mohammad Kazemi et al. "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*. 2016, 16(9). 9000-9007. <https://doi.org/10.1166/jnn.2016.12740>
- Mylläri, Ville et al. "Detergent impurity effect on recycled HDPE: Properties after repetitive processing". *Journal of Applied Polymer Science*. 2016. 133(31). <https://doi.org/10.1002/app.43766>
- Garifullin, Marsel et al. "Buckling Behavior of Cold-Formed Studs with Thermal Perforations". *MATEC Web of Conferences*. 2016. 73. <https://doi.org/10.1051/mateconf/20167304011>
- Kapgate, Bharat P. et al. "Reinforced chloroprene rubber by in situ generated silica particles: Evidence of bound rubber on the silica surface". *Journal of Applied Polymer Science*. 2016. 133(30). <https://doi.org/10.1002/app.43717>
- Luna, E. et al. "Spontaneous formation of three-dimensionally ordered Bi-rich nanostructures within GaAs_{1-x}Bi_x/GaAs quantum wells". *Nanotechnology*. 2016. 27(32). <https://doi.org/10.1088/0957-4484/27/32/325603>
- Kärkkäinen, M. et al. "The Influence of Phosphorus Exposure on a Natural-Gas-Oxidation Catalyst". *Topics in Catalysis*. 2016, 59(10-12). 1044-1048. <https://doi.org/10.1007/s11244-016-0587-x>
- Poutanen, Mikko, Olli Ikkala, and Arri Priimägi. "Structurally Controlled Dynamics in Azobenzene-Based Supramolecular Self-Assemblies in Solid State". *Macromolecules*. 2016, 49(11). 4095-4101. <https://doi.org/10.1021/acs.macromol.6b00562>

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

Razavi, Alireza, Mikko Valkama, and Elena Simona Lohan. "Robust statistical approaches for RSS-based floor detection in indoor localization". *Sensors*. 2016. 16(6). <https://doi.org/10.3390/s16060793>

Sharma, Ramakant, Sagar Bhalerao and Dipti Gupta. "Effect of incorporation of CdS NPs on performance of PTB7: PCBM organic solar cells". *Organic Electronics: physics, materials, applications*. 2016, 33. 274-280. <https://doi.org/10.1016/j.orgel.2016.03.030>

Soto, Ana M. et al. "Optical Projection Tomography Technique for Image Texture and Mass Transport Studies in Hydrogels Based on Gellan Gum". *Langmuir*. 2016, 32(20). 5173-5182. <https://doi.org/10.1021/acs.langmuir.6b00554>

La Rosa, Carmelo et al. "Lipid-assisted protein transport: A diffusion-reaction model supported by kinetic experiments and molecular dynamics simulations". *Journal of Chemical Physics*. 2016. 144(18). <https://doi.org/10.1063/1.4948323>

Hakola, Hanna et al. "Effect of Hole Transporting Material on Charge Transfer Processes in Zinc Phthalocyanine Sensitized ZnO Nanorods". *Journal of Physical Chemistry C*. 2016, 120(13). 7044-7051. <https://doi.org/10.1021/acs.jpcc.6b01583>

Janka, Leo et al. "Influence of heat treatment on the abrasive wear resistance of a Cr₃C₂NiCr coating deposited by an ethene-fuelled HVOF spray process". *Surface and Coatings Technology*. 2016, 291. 444-451. <https://doi.org/10.1016/j.surfcoat.2016.02.066>

Fernandez-Palacio, Francisco et al. "Coordination networks incorporating halogen-bond donor sites and azobenzene groups". *CrystEngComm*. 2016, 18(13). 2251-2257. <https://doi.org/10.1039/c6ce00059b>

Isakov, M. et al. "Strain rate change tests with the Split Hopkinson Bar method". *European Physical Journal. Special Topics*. 2016, 225(2). 231-242. <https://doi.org/10.1140/epjst/e2015-99999-x>

Ma, Li et al. "DFT simulations and microkinetic modelling of 1-pentyne hydrogenation on Cu₂₀ model catalysts". *Journal of Molecular Graphics and Modelling*. 2016, 65. 61-70. <https://doi.org/10.1016/j.jmgm.2016.02.007>

Viljanen, Jan, Zhiwei Sun and Zeyad T. Alwahabi. "Microwave assisted laser-induced breakdown spectroscopy at ambient conditions". *Spectrochimica Acta Part B: Atomic Spectroscopy*. 2016, 118. 29-36. <https://doi.org/10.1016/j.sab.2016.02.002>

Mal, J. et al. "Metal chalcogenide quantum dots: Biotechnological synthesis and applications". *RSC Advances*. 2016, 6(47). 41477-41495. <https://doi.org/10.1039/c6ra08447h>

Sakuma, Takao et al. "Long-Lived Triplet Excited States of Bent-Shaped Pentacene Dimers by Intramolecular Singlet Fission". *Journal of Physical Chemistry A*. 2016, 120(11). 1867-1875. <https://doi.org/10.1021/acs.jpca.6b00988>

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

Szabo, Hilda Marta, Raghida Lepistö and Tuula Tuhkanen. "HPLC-SEC: a new approach to characterise complex wastewater effluents". *International Journal of Environmental Analytical Chemistry*. 2016, 96(3). 257-270. <https://doi.org/10.1080/03067319.2016.1150463>

- Salunke, Jagadish K. et al. "Phenothiazine and carbazole substituted pyrene based electroluminescent organic semiconductors for OLED devices". *Journal of Materials Chemistry C*. 2016, 4(5). 1009-1018. <https://doi.org/10.1039/c5tc03690a>
- Ali-Löytty, Harri et al. "Ambient-Pressure XPS Study of a Ni-Fe Electrocatalyst for the Oxygen Evolution Reaction". *Journal of Physical Chemistry C*. 2016, 120(4). 2247-2253. <https://doi.org/10.1021/acs.jpcc.5b10931>
- Allolio, Christoph et al. "Guanidinium Pairing Facilitates Membrane Translocation". *Journal of Physical Chemistry Part B*. 2016, 120(1). 143-153. <https://doi.org/10.1021/acs.jpcc.5b10404>
- Pirjola, Liisa et al. "Physical and Chemical Characterization of Real-World Particle Number and Mass Emissions from City Buses in Finland". *Environmental Science and Technology*. 2016, 50(1). 294-304. <https://doi.org/10.1021/acs.est.5b04105>
- Rocherullé, J. et al. "Heat capacities of crystalline and glassy lithium metaphosphate up to the transition region". *Journal of Thermal Analysis and Calorimetry*. 2016, 123(1). 401-407. <https://doi.org/10.1007/s10973-015-4938-9>
- Golovanov, Viacheslav, Viktoria Golovanova, and Tapio T. Rantala. "Thermal desorption of molecular oxygen from SnO₂ (110) surface: Insights from first-principles calculations". *Journal of Physics and Chemistry of Solids*. 2016, 89. 15-22. <https://doi.org/10.1016/j.jpccs.2015.10.010>
- Higashino, Tomohiro et al. "Remarkable Dependence of the Final Charge Separation Efficiency on the Donor-Acceptor Interaction in Photoinduced Electron Transfer". *Angewandte Chemie (International Edition)*. 2016, 55(2). 629-633. <https://doi.org/10.1002/anie.201509067>
- Jain, Rohan et al. "Preferential adsorption of Cu in a multi-metal mixture onto biogenic elemental selenium nanoparticles". *Chemical Engineering Journal*. 2016, 284. 917-925. <https://doi.org/10.1016/j.cej.2015.08.144>
- Santos, Fábio M F et al. "A Three-Component Assembly Promoted by Boronic Acids Delivers a Modular Fluorophore Platform (BASHY Dyes)". *Chemistry: A European Journal*. 2016, 22(5). 1631-1637. <https://doi.org/10.1002/chem.201503943>
- Matsuo, Shota et al. "The electrooxidation-induced structural changes of gold di-superatomic molecules: Au₂₃ vs. Au₂₅". *Physical Chemistry Chemical Physics*. 2016, 18(6). 4822-4827. <https://doi.org/10.1039/c5cp06969f>
- Kulig, Waldemar et al. "Cholesterol oxidation products and their biological importance". *Chemistry and Physics of Lipids*. 2016, 199. 144-160. <https://doi.org/10.1016/j.chemphyslip.2016.03.001>
- Kato, Daiki et al. "High-Yield Excited Triplet States in Pentacene Self-Assembled Monolayers on Gold Nanoparticles through Singlet Exciton Fission". *Angewandte Chemie (International Edition)*. 2016, 55(17). 5230-5234. <https://doi.org/10.1002/anie.201601421>
- Cavallo, Gabriella et al. "Superfluorinated Ionic Liquid Crystals Based on Supramolecular, Halogen-Bonded Anions". *Angewandte Chemie (International Edition)*. 2016, 55(21). 6300-6304. <https://doi.org/10.1002/anie.201601278>
- Bansod, Naresh D. et al. "Compatibilization of natural rubber/nitrile rubber blends by sol-gel nano-silica generated by in situ method". *JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY*. 2016, 80(2). 548-559. <https://doi.org/10.1007/s10971-016-4114-0>
- Horinouchi, Haruki et al. "Controllable Electronic Structures and Photoinduced Processes of Bay-Linked Peryleneimide Dimers and a Ferrocene-Linked Triad". *Chemistry: A European Journal*. 2016, 22(28). 9631-9641. <https://doi.org/10.1002/chem.201601058>

Basu, Debdipta et al. "Fire-safe and environmentally friendly nanocomposites based on layered double hydroxides and ethylene propylene diene elastomer". *RSC Advances*. 2016, 6(31). 26425-26436. <https://doi.org/10.1039/c5ra27444c>

Lee, Tae Yong et al. "Alginate microgels created by selective coalescence between core drops paired with an ultrathin shell". *Journal of Materials Chemistry B*. 2016, 4(19). 3232-3238. <https://doi.org/10.1039/c6tb00580b>

Halder, Arjun et al. "Decoding the Morphological Diversity in Two Dimensional Crystalline Porous Polymers by Core Planarity Modulation". *Angewandte Chemie (International Edition)*. 2016, 55(27). 7806-7810. <https://doi.org/10.1002/anie.201600087>

Akamatsu, Norihisa et al. "Photoresponsive liquid-crystalline polymer films bilayered with an inverse opal structure". *JOURNAL OF PHOTOPOLYMER SCIENCE AND TECHNOLOGY*. 2016, 29(1). 145-148. <https://doi.org/10.2494/photopolymer.29.145>

Kattiparambil Rajan, Dhanesh et al. "Optical non-contact pH measurement in cell culture with sterilizable, modular parts". *Talanta*. 2016, 161. 755-761. <https://doi.org/10.1016/j.talanta.2016.09.021>

Kastinen, T. et al. "On describing the optoelectronic characteristics of poly(benzodithiophene-: Co -quinoxaline)-fullerene complexes: The influence of optimally tuned density functionals". *Physical Chemistry Chemical Physics*. 2016, 18(39). 27654-27670. <https://doi.org/10.1039/c6cp04567g>

Spataru, Ana et al. "Enhanced adsorption of orthophosphate and copper onto hydrochar derived from sewage sludge by KOH activation". *RSC Advances*. 2016, 6(104). 101827-101834. <https://doi.org/10.1039/c6ra22327c>

Perumbilavil, Sreekanth et al. "Nonlinear transmittance and optical power limiting in magnesium ferrite nanoparticles: effects of laser pulsewidth and particle size". *RSC Advances*. 2016, 6(108). 106754-106761. <https://doi.org/10.1039/c6ra15788b>

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

Alanen, Jenni et al. "The formation and physical properties of the particle emissions from a natural gas engine". *Fuel*. 2015, 162. 155-161. <https://doi.org/10.1016/j.fuel.2015.09.003>

Mäki, A. J. et al. "Modeling carbon dioxide transport in PDMS-based microfluidic cell culture devices". *Chemical Engineering Science*. 2015, 137. 515-524. <https://doi.org/10.1016/j.ces.2015.06.065>

Ihalainen, Teemu O. et al. "Differential basal-to-apical accessibility of lamin A/C epitopes in the nuclear lamina regulated by changes in cytoskeletal tension". *Nature Materials*. 2015, 14(12). 1252-1261. <https://doi.org/10.1038/nmat4389>

Kaouk, A. et al. "Graphene-intercalated Fe₂O₃/TiO₂ heterojunctions for efficient photoelectrolysis of water". *RSC Advances*. 2015, 5(123). 101401-101407. <https://doi.org/10.1039/c5ra18330h>

Seo, Jung Yoon et al. "Tri-functionality of Fe₃O₄-embedded carbon microparticles in microalgae harvesting". *Chemical Engineering Journal*. 2015, 280. 206-214. <https://doi.org/10.1016/j.cej.2015.05.122>

Le, H. H. et al. "Effect of rubber polarity on selective wetting of carbon nanotubes in ternary blends". *Express Polymer Letters*. 2015, 9(11). 960-971. <https://doi.org/10.3144/expresspolymlett.2015.87>

Zorzi, Giovanni K. et al. "Comparison of different cationized proteins as biomaterials for nanoparticle-based ocular gene delivery". *Colloids and Surfaces B: Biointerfaces*. 2015, 135. 533-541. <https://doi.org/10.1016/j.colsurfb.2015.08.008>

Vapaavuori, Jaana et al. "Submolecular Plasticization Induced by Photons in Azobenzene Materials". *Journal of the American Chemical Society*. 2015, 137(42). 13510-13517. <https://doi.org/10.1021/jacs.5b06611>

Vapaavuori, Jaana et al. "Photomechanical Energy Transfer to Photopassive Polymers through Hydrogen and Halogen Bonds". *Macromolecules*. 2015, 48(20). 7535-7542. <https://doi.org/10.1021/acs.macromol.5b01813>

Vapaavuori, Jaana et al. "In Situ Photocontrol of Block Copolymer Morphology during Dip-Coating of Thin Films". *ACS Macro Letters*. 2015, 4(10). 1158-1162. <https://doi.org/10.1021/acsmacrolett.5b00483>

Mylläri, Ville et al. "Production of sulfonated polyetheretherketone/polypropylene fibers for photoactive textiles". *Journal of Applied Polymer Science*. 2015. 132(39). <https://doi.org/10.1002/app.42595>

Moradi, Mahmoud, Giray Enkavi and Emad Tajkhorshid. "Atomic-level characterization of transport cycle thermodynamics in the glycerol-3-phosphate: Phosphate antiporter". *Nature Communications*. 2015. 6. <https://doi.org/10.1038/ncomms9393>

Orlowski, Adam et al. "PIP2 and Talin Join Forces to Activate Integrin". *Journal of Physical Chemistry Part B*. 2015, 119(38). 12381-12389. <https://doi.org/10.1021/acs.jpcc.5b06457>

Bhagavatheswaran, Eshwaran Subramani et al. "Construction of an Interconnected Nanostructured Carbon Black Network: Development of Highly Stretchable and Robust Elastomeric Conductors". *Journal of Physical Chemistry C*. 2015, 119(37). 21723-21731. <https://doi.org/10.1021/acs.jpcc.5b06629>

Milanti, A. et al. "Effect of spraying parameters on the microstructural and corrosion properties of HVOF-sprayed Fe-Cr-Ni-B-C coatings". *Surface and Coatings Technology*. 2015, 277. 81-90. <https://doi.org/10.1016/j.surfcoat.2015.07.018>

Goh, Jing Qiang and Jaakko Akola. "Superatom Model for Ag-S Nanocluster with Delocalized Electrons". *Journal of Physical Chemistry C*. 2015, 119(36). 21165-21172. <https://doi.org/10.1021/acs.jpcc.5b05824>

Ter Schiphorst, Jeroen et al. "Molecular Design of Light-Responsive Hydrogels, for in Situ Generation of Fast and Reversible Valves for Microfluidic Applications". *Chemistry of Materials*. 2015, 27(17). 5925-5931. <https://doi.org/10.1021/acs.chemmater.5b01860>

Frankberg, Erkki J. et al. "Measuring synthesis yield in graphene oxide synthesis by modified hummers method". *Fullerenes Nanotubes and Carbon Nanostructures*. 2015, 23(9). 755-759. <https://doi.org/10.1080/1536383X.2014.993754>

Tukiainen, Antti et al. "Unintentional boron contamination of MBE-grown GaInP/AlGaInP quantum wells". *Journal of Crystal Growth*. 2015, 425. 60-63. <https://doi.org/10.1016/j.jcrysgro.2015.02.048>

Bajamundi, Cyril Jose E et al. "Searching for a robust strategy for minimizing alkali chlorides in fluidized bed boilers during burning of high SRF-energy-share fuel". *Fuel*. 2015, 155. 25-36. <https://doi.org/10.1016/j.fuel.2015.03.087>

Yang, Yubo et al. "How large are nonadiabatic effects in atomic and diatomic systems?". *Journal of Chemical Physics*. 2015. 143(12). <https://doi.org/10.1063/1.4931667>

Barreca, Davide et al. "Fe₂O₃-TiO₂ nanosystems by a hybrid PE-CVD/ALD approach: controllable synthesis, growth mechanism, and photocatalytic properties". *CrystEngComm*. 2015, 17(32). 6219-6226. <https://doi.org/10.1039/c5ce00883b>

- Mäkelä, J. et al. "Effects of thinning and heating for TiO₂/AlInP junctions". *Journal of Electron Spectroscopy and Related Phenomena*. 2015, 205. 6-9. <https://doi.org/10.1016/j.elspec.2015.08.004>
- Lepcha, A. et al. "Electrospun Black Titania Nanofibers: Influence of Hydrogen Plasma-Induced Disorder on the Electronic Structure and Photoelectrochemical Performance". *Journal of Physical Chemistry C*. 2015, 119(33). 18835-18842. <https://doi.org/10.1021/acs.jpcc.5b02767>
- Levin, Marcus et al. "Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials: implications for testing and risk assessment". *Journal of Nanoparticle Research*. 2015. 17(8). <https://doi.org/10.1007/s11051-015-3139-6>
- Kwolek, Urszula et al. "Effect of Phosphatidic Acid on Biomembrane: Experimental and Molecular Dynamics Simulations Study". *Journal of Physical Chemistry Part B*. 2015, 119(31). 10042-10051. <https://doi.org/10.1021/acs.jpcc.5b03604>
- Le, H. H. et al. "Formation and stability of carbon nanotube network in natural rubber: Effect of non-rubber components". *Polymer*. 2015, 73. 111-121. <https://doi.org/10.1016/j.polymer.2015.07.044>
- Stumpel, Jelle E. "Responsive Polymer Photonics". *Chemistryopen*. 2015, 4(4). 533-535. <https://doi.org/10.1002/open.201500104>
- Timr, Štěpán et al. "Nonlinear Optical Properties of Fluorescent Dyes Allow for Accurate Determination of Their Molecular Orientations in Phospholipid Membranes". *Journal of Physical Chemistry Part B*. 2015, 119(30). 9706-9716. <https://doi.org/10.1021/acs.jpcc.5b05123>
- Rasappa, Sozaraj et al. "High quality sub-10 nm graphene nanoribbons by on-chip PS-b-PDMS block copolymer lithography". *RSC Advances*. 2015, 5(82). 66711-66717. <https://doi.org/10.1039/c5ra11735f>
- Bodrova, Anna et al. "Quantifying non-ergodic dynamics of force-free granular gases". *Physical Chemistry Chemical Physics*. 2015, 17(34). 21791-21798. <https://doi.org/10.1039/c5cp02824h>
- Virkki, Kirsi et al. "Photoinduced Electron Transfer in CdSe/ZnS Quantum Dot-Fullerene Hybrids". *Journal of Physical Chemistry C*. 2015, 119(31). 17561-17572. <https://doi.org/10.1021/acs.jpcc.5b04251>
- Rahaman, Obaidur et al. "Role of Internal Water on Protein Thermal Stability: The Case of Homologous G Domains". *Journal of Physical Chemistry Part B*. 2015, 119(29). 8939-8949. <https://doi.org/10.1021/jp507571u>
- Çetinkaya, Afşin Y. et al. "Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration". *Chinese Journal of Catalysis*. 2015, 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. et al. "Lithography-free oxide patterns as templates for self-catalyzed growth of highly uniform GaAs nanowires on Si(111)". *Nanotechnology*. 2015. 26(27). <https://doi.org/10.1088/0957-4484/26/27/275301>
- Isoniemi, Tommi et al. "Measuring optical anisotropy in poly(3,4-ethylene dioxythiophene): poly(styrene sulfonate) films with added graphene". *Organic Electronics*. 2015, 25. 317-323. <https://doi.org/10.1016/j.orgel.2015.06.037>
- Ahmed, Zafar et al. "Synthesis and study of electrochemical and optical properties of substituted perylenemonoimides in solutions and on solid surfaces". *Journal of Materials Chemistry A*. 2015, 3(25). 13332-13339. <https://doi.org/10.1039/c5ta02241j>
- Sanginés, R. et al. "Optimal emission enhancement in orthogonal double-pulse laser-induced breakdown spectroscopy". *Spectrochimica Acta Part B: Atomic Spectroscopy*. 2015, 110. 139-145. <https://doi.org/10.1016/j.sab.2015.06.012>

Mylläri, Ville, Tero-Petri Ruoko, and Seppo Syrjälä. "A comparison of rheology and FTIR in the study of polypropylene and polystyrene photodegradation". *Journal of Applied Polymer Science*. 2015. 132(28). <https://doi.org/10.1002/app.42246>

Zorzi, Giovanni K. et al. "On the biomaterials for nanostructured ocular therapeutics". *Current Organic Chemistry*. 2015, 19(15). 1443-1459.

Abou-Chahine, Fawzi et al. "Synthesis and Photophysical Properties of Two Diazaporphyrin-Porphyrin Hetero Dimers in Polar and Nonpolar Solutions". *Journal of Physical Chemistry Part B*. 2015, 119(24). 7328-7337. <https://doi.org/10.1021/jp510903a>

Perander, M. et al. "Catalytic effect of Ca and K on CO₂ gasification of spruce wood char". *Fuel*. 2015, 150. 464-472. <https://doi.org/10.1016/j.fuel.2015.02.062>

De Carvalho, Sidney J., Ralf Metzler and Andrey G. Cherstvy. "Inverted critical adsorption of polyelectrolytes in confinement". *Soft Matter*. 2015, 11(22). 4430-4443. <https://doi.org/10.1039/c5sm00635j>

Dziedziuch, Monika et al. "PEGylated liposomes as carriers of hydrophobic porphyrins". *Journal of Physical Chemistry Part B*. 2015, 119(22). 6646-6657. <https://doi.org/10.1021/acs.jpcc.5b01351>

Manea, Liliana Rozemarie et al. "Equipment for obtaining polymeric nanofibres by electrospinning technology: II. The obtaining of polymeric nanofibers". *Materiale Plastice*. 2015, 52(2). 180-185.

He, Xiaoyan et al. "Polymorph crystal packing effects on charge transfer emission in the solid state". *Chemical Science*. 2015, 6(6). 3525-3532. <https://doi.org/10.1039/c5sc01151e>

Mordon, Serge and Geneviève Bourg-Heckly. "Photodiagnostic et chirurgie guidés par la fluorescence". *ACTUALITE CHIMIQUE*. 2015, (397-398). 41-45.

Borah, Dipu et al. "Soft graphoepitaxy for large area directed self-assembly of polystyrene-block-poly(dimethylsiloxane) block copolymer on nanopatterned POSS substrates fabricated by nanoimprint lithography". *Advanced Functional Materials*. 2015, 25(22). 3425-3432. <https://doi.org/10.1002/adfm.201500100>

Frochot, Céline et al. "La thérapie photodynamique: État de l'art et perspectives". *ACTUALITE CHIMIQUE*. 2015, (397-398). 46-50.

McManamon, Colm et al. "A facile route to synthesis of S-doped TiO₂ nanoparticles for photocatalytic activity". *Journal of Molecular Catalysis A: Chemical*. 2015, 406. 51-57. <https://doi.org/10.1016/j.molcata.2015.05.002>

Hladílková, Jana et al. "Hydration of hydroxyl and amino groups examined by molecular dynamics and neutron scattering". *Journal of Physical Chemistry Part B*. 2015, 119(21). 6357-6365. <https://doi.org/10.1021/jp510528u>

Kuz'min, V. A. et al. "Spectral and kinetic characteristics of indotricarbocyanine complexation with albumin". *DOKLADY PHYSICAL CHEMISTRY*. 2015, 462(1). 107-109. <https://doi.org/10.1134/S0012501615050036>

Song, Xuemei et al. "Effect of melting state on the thermal shock resistance and thermal conductivity of APS ZrO₂-7.5wt.% Y₂O₃ coatings". *Surface and Coatings Technology*. 2015, 270. 132-138. <https://doi.org/10.1016/j.surfcoat.2015.03.011>

Pluhařová, Eva, Petr Slaviček and Pavel Jungwirth. "Modeling photoionization of aqueous DNA and its components". *Accounts of Chemical Research*. 2015, 48(5). 1209-1217. <https://doi.org/10.1021/ar500366z>

Liang, Yanhua et al. "Multistep reactions of water with small Pd_n clusters: A first principles study". *Journal of Theoretical and Computational Chemistry*. 2015. 14(3). <https://doi.org/10.1142/S0219633615500170>

Kuzmin, V. A. et al. "Energy degradation in photoexcited complexes of indocarbocyanine with albumin". *HIGH ENERGY CHEMISTRY*. 2015, 49(3). 211-212. <https://doi.org/10.1134/S0018143915030108>

Cherstvy, Andrey G. and Ralf Metzler. "Ergodicity breaking and particle spreading in noisy heterogeneous diffusion processes". *Journal of Chemical Physics*. 2015. 142(14). <https://doi.org/10.1063/1.4917077>

Koivisto, Antti J. et al. "Workplace performance of a loose-fitting powered air purifying respirator during nanoparticle synthesis". *Journal of Nanoparticle Research*. 2015. 17(4). <https://doi.org/10.1007/s11051-015-2990-9>

Sorvajärvi, Tapio et al. "Rate constant and thermochemistry for K + O₂ + N₂ = KO₂ + N₂". *Journal of Physical Chemistry A*. 2015, 119(14). 3329-3336. <https://doi.org/10.1021/acs.jpca.5b00755>

Karilainen, Topi et al. "Oxidation of cholesterol does not alter significantly its uptake into high-density lipoprotein particles". *Journal of Physical Chemistry Part B*. 2015, 119(13). 4594-4600. <https://doi.org/10.1021/acs.jpcb.5b00240>

Saarikoski, Eve, Marja Rissanen and Jukka Seppälä. "Effect of rheological properties of dissolved cellulose/microfibrillated cellulose blend suspensions on film forming". *Carbohydrate Polymers*. 2015, 119. 62-70. <https://doi.org/10.1016/j.carbpol.2014.11.033>

Pirjola, Liisa et al. "Effects of fresh lubricant oils on particle emissions emitted by a modern gasoline direct injection passenger car". *Environmental Science and Technology*. 2015, 49(6). 3644-3652. <https://doi.org/10.1021/es505109u>

Bolelli, G. et al. "Tribology of HVOF- and HVAF-sprayed WC-10Co4Cr hardmetal coatings: A comparative assessment". *Surface and Coatings Technology*. 2015, 265. 125-144. <https://doi.org/10.1016/j.surfcoat.2015.01.048>

Varis, T. et al. "High temperature corrosion of thermally sprayed NiCr and FeCr coatings covered with a KCl-K₂SO₄ salt mixture". *Surface and Coatings Technology*. 2015, 265. 235-243. <https://doi.org/10.1016/j.surfcoat.2014.11.012>

Tuominen, Marjukka et al. "Oxidation of the GaAs semiconductor at the Al₂O₃/GaAs junction". *Physical Chemistry Chemical Physics*. 2015, 17(10). 7060-7066. <https://doi.org/10.1039/c4cp05972g>

Ma, Li et al. "CO oxidation catalyzed by neutral and anionic Cu₂₀ clusters: Relationship between charge and activity". *Physical Chemistry Chemical Physics*. 2015, 17(10). 7067-7076. <https://doi.org/10.1039/c5cp00365b>

Figueira, João et al. "Synthesis, characterization and solid-state photoluminescence studies of six alkoxy phenylene ethynylene dinuclear palladium(ii) rods". *DALTON TRANSACTIONS*. 2015, 44(9). 4003-4015. <https://doi.org/10.1039/c4dt00493k>

Lolicato, Fabio et al. "Resveratrol interferes with the aggregation of membrane-bound human-IAPP: A molecular dynamics study". *European Journal of Medicinal Chemistry*. 2015, 92. 876-881. <https://doi.org/10.1016/j.ejmech.2015.01.047>

Wecharine, Intissar et al. "Crystal structure of 2-methylpiperazine-1,4-dium bis(hydrogen maleate)". *Acta Crystallographica Section E: Structure Reports Online*. 2015, 71(3). o193-o194. <https://doi.org/10.1107/S2056989015003102>

Eshwaran, Subramani Bhagavatheswaran et al. "Exploring the role of stearic acid in modified zinc aluminum layered double hydroxides and their acrylonitrile butadiene rubber nanocomposites". *Journal of Applied Polymer Science*. 2015. 132(9). <https://doi.org/10.1002/app.41539>

- Shin, Jaeoh, Andrey G. Cherstvy and Ralf Metzler. "Polymer looping is controlled by macromolecular crowding, spatial confinement, and chain stiffness". *ACS Macro Letters*. 2015, 4(2). 202-206. <https://doi.org/10.1021/mz500709w>
- Ray, Santanu et al. "Neutralized chimeric avidin binding at a reference biosensor surface". *Langmuir*. 2015, 31(6). 1921-1930. <https://doi.org/10.1021/la503213f>
- Beyeh, N. K. et al. "Encapsulation of secondary and tertiary ammonium salts by resorcinarenes and pyrogallarenes: The effect of size and charge concentration". *CrystEngComm*. 2015, 17(5). 1182-1188. <https://doi.org/10.1039/c4ce01927j>
- Bautista, Godofredo et al. "Second-harmonic generation imaging of semiconductor nanowires with focused vector beams". *Nano Letters*. 2015, 15(3). 1564-1569. <https://doi.org/10.1021/nl503984b>
- Fatarelle, Enrico et al. "Sulfonated polyetheretherketone/polypropylene polymer blends for the production of photoactive materials". *Journal of Applied Polymer Science*. 2015. 132(8). <https://doi.org/10.1002/app.41509>
- Saccone, Marco et al. "Supramolecular hierarchy among halogen and hydrogen bond donors in light-induced surface patterning". *Journal of Materials Chemistry C*. 2015, 3. 759-768. <https://doi.org/10.1039/c4tc02315c>
- Goh, Jing-Qiang et al. "Silver sulfide nanoclusters and the superatom model". *Journal of Physical Chemistry C*. 2015, 119(3). 1583-1590. <https://doi.org/10.1021/jp511037x>
- Shin, Jaeoh, Andrey G. Cherstvy and Ralf Metzler. "Kinetics of polymer looping with macromolecular crowding: Effects of volume fraction and crowder size". *Soft Matter*. 2015, 11(3). 472-488. <https://doi.org/10.1039/c4sm02007c>
- Ghosh, Surya K., Andrey G. Cherstvy and Ralf Metzler. "Non-universal tracer diffusion in crowded media of non-inert obstacles". *Physical Chemistry Chemical Physics*. 2015, 17(3). 1847-1858. <https://doi.org/10.1039/c4cp03599b>
- Li, Zhuo et al. "Rational design of a printable, highly conductive silicone-based electrically conductive adhesive for stretchable radio-frequency antennas". *Advanced Functional Materials*. 2015, 25(3). 464-470. <https://doi.org/10.1002/adfm.201403275>
- Czaplicki, R. et al. "Second-Harmonic Generation from Metal Nanoparticles: Resonance Enhancement versus Particle Geometry". *Nano Letters*. 2015, 15(1). 530-534. <https://doi.org/10.1021/nl503901e>
- Schroeder, Christi A. et al. "Oxidation half-reaction of aqueous nucleosides and nucleotides via photoelectron spectroscopy augmented by ab initio calculations". *Journal of the American Chemical Society*. 2015, 137(1). 201-209. <https://doi.org/10.1021/ja508149e>
- Khan, Musammir et al. "Manipulation of polycarbonate urethane bulk properties via incorporated zwitterionic polynorbornene for tissue engineering application". *RSC Advances*. 2015, 5(15). 11284-11292. <https://doi.org/10.1039/C4RA14608E>
- Reeta, P. Silviya et al. "Photophysical properties of Sn (IV)tetraphenylporphyrin-pyrene dyad with a β -vinyl linker". *Journal of Porphyrins and Phthalocyanines*. 2015, 19(1-3). 288-300. <https://doi.org/10.1142/S1088424615500108>
- Yi, H. et al. "Perfluoro-1,1'-biphenyl and perfluoronaphthalene and their derivatives as π -acceptors for anions". *New Journal of Chemistry*. 2015, 39(1). 746-749. <https://doi.org/10.1039/c4nj01654h>
- Mettänen, Marja and Ulrich Hirn. "A comparison of five optical surface topography measurement methods". *TAPPI Journal*. 2015, 14(1). 27-38.

Hukka, Jarmo J. and Tapio S. Katko. "Appropriate pricing policy needed worldwide for improving water services infrastructure". *Journal American Water Works Association*. 2015, 107(1). E37-E46. <https://doi.org/10.5942/jawwa.2015.107.0007>

Nazir, Rashid et al. " π -Expanded α,β -unsaturated ketones: Synthesis, optical properties, and two-photon-induced polymerization". *ChemPhysChem*. 2015, 16(3). 682–690. <https://doi.org/10.1002/cphc.201402646>

Pelado, Beatriz et al. "Role of the bridge in photoinduced electron transfer in porphyrin-fullerene dyads". *Chemistry: A European Journal*. 2015, 21(15). 5814-5825. <https://doi.org/10.1002/chem.201406514>

Molnar, W. et al. "Ballistic and numerical simulation of impacting goods on conveyor belt rubber". *Polymer Testing*. 2015, 42. 1-7. <https://doi.org/10.1016/j.polymertesting.2014.12.001>

Stasyuk, Anton J. et al. "Synthesis of fluorescent naphthoquinolizines via intramolecular houben-hoesch reaction". *Chemistry - An Asian Journal*. 2015, 10(3). 553-558. <https://doi.org/10.1002/asia.201403339>

Wacharine, Intissar et al. "Synthesis, crystal structure, spectral, dielectric characteristics and conduction mechanism of two novel carboxylates of 1-benzhydrylpiperazine". *Monatshefte fur Chemie*. 2015, 146(12). 2007-2020. <https://doi.org/10.1007/s00706-015-1553-1>

Di Capua, Francesco et al. "Chemolithotrophic denitrification in biofilm reactors". *Chemical Engineering Journal*. 2015, 280. 643-657. <https://doi.org/10.1016/j.cej.2015.05.131>

Karilainen, Topi et al. "Van der Waals interactions are critical in Car-Parrinello molecular dynamics simulations of porphyrin-fullerene dyads". *Journal of Computational Chemistry*. 2015, 36(9). 612-621. <https://doi.org/10.1002/jcc.23834>

Kamppuri, Taina et al. "Characterisation of novel regenerated cellulosic, viscose, and cotton fibres and the dyeing properties of fabrics". *Coloration Technology*. 2015, 131(5). 396-402. <https://doi.org/10.1111/cote.12163>

Mardoukhi, Yousof, Jae-Hyung Jeon and Ralf Metzler. "Geometry controlled anomalous diffusion in random fractal geometries: Looking beyond the infinite cluster". *Physical Chemistry Chemical Physics*. 2015, 17(44). 30134-30147. <https://doi.org/10.1039/c5cp03548a>

Stumpel, Jelle E. et al. "Stimuli-Responsive Materials Based on Interpenetrating Polymer Liquid Crystal Hydrogels". *Advanced Functional Materials*. 2015, 25(22). 3314–3320. <https://doi.org/10.1002/adfm.201500745>

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

Mason, Philip E. et al. "Coulomb explosion during the early stages of the reaction of alkali metals with water". *Nature Chemistry*. 2015, 7(3). 250-254. <https://doi.org/10.1038/nchem.2161>

Borah, Dipu et al. "Block co-polymers for nanolithography: Rapid microwave annealing for pattern formation on substrates". *Polymers*. 2015, 7(4). 592-609. <https://doi.org/10.3390/polym7040592>

Taskinen, Barbara et al. "Switchavidin: Reversible biotin-avidin-biotin bridges with high affinity and specificity". *Bioconjugate Chemistry*. 2014, 25(12). 2233-2243. <https://doi.org/10.1021/bc500462w>

Palivec, Vladimír et al. "DNA lesion can facilitate base ionization: Vertical ionization energies of aqueous 8-oxoguanine and its nucleoside and nucleotide". *Journal of Physical Chemistry Part B*. 2014, 118(48). 13833-13837. <https://doi.org/10.1021/jp5111086>

Lemmettyinen, Helge et al. "Time-resolved fluorescence methods (IUPAC technical report)". *Pure and Applied Chemistry*. 2014, 86(12). 1969-1998. <https://doi.org/10.1515/pac-2013-0912>

Tawade, Bhausaheb V. et al. "Processable aromatic polyesters based on bisphenol derived from cashew nut shell liquid: synthesis and characterization". *JOURNAL OF POLYMER RESEARCH*. 2014. 21(12). <https://doi.org/10.1007/s10965-014-0617-y>

Mohanty, Aruna Kumar et al. "Electromagnetic interference shielding effectiveness of MWCNT filled poly(ether sulfone) and poly(ether imide) nanocomposites". *Polymer Engineering and Science*. 2014, 54(11). 2560-2570. <https://doi.org/10.1002/pen.23804>

Wang, Xin et al. "A supramolecular approach to photoresponsive thermo/solvoplastic block copolymer elastomers". *Macromolecules*. 2014, 47(20). 7099-7108. <https://doi.org/10.1021/ma501278b>

Amanatidis, Stavros et al. "Impact of selective catalytic reduction on exhaust particle formation over excess ammonia events". *Environmental Science and Technology*. 2014, 48(19). 11527-11534. <https://doi.org/10.1021/es502895v>

Deng, Yang et al. "Global analysis of human nonreceptor tyrosine kinase specificity using high-density peptide microarrays". *Journal of Proteome Research*. 2014, 13(10). 4339-4346. <https://doi.org/10.1021/pr500503q>

Rasappa, Sozaraj et al. "Rapid, Brushless Self-assembly of a PS-b-PDMS Block Copolymer for Nanolithography". *Colloids and Interface Science Communications*. 2014, 2. 1-5. <https://doi.org/10.1016/j.colcom.2014.07.001>

Goulet-Hanssens, Alexis et al. "Effect of head group size on the photoswitching applications of azobenzene Disperse Red 1 analogues". *Journal of Materials Chemistry C*. 2014, 2(36). 7505-7512. <https://doi.org/10.1039/c4tc00996g>

Salunke, Jagadish K. et al. "Pyrene based conjugated materials: Synthesis, characterization and electroluminescent properties". *Physical Chemistry Chemical Physics*. 2014, 16(42). 23320-23328. <https://doi.org/10.1039/c4cp03693j>

Wang, Jianguang et al. "Density functional theory study of transition metals doped B₈₀ fullerene". *Journal of Theoretical and Computational Chemistry*. 2014. 13(6). <https://doi.org/10.1142/S0219633614500503>

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

Uhlig, Frank et al. "Optical spectroscopy of the bulk and interfacial hydrated electron from ab initio calculations". *Journal of Physical Chemistry A*. 2014, 118(35). 7507-7515. <https://doi.org/10.1021/jp5004243>

Le, H. H. et al. "The role of linked phospholipids in the rubber-filler interaction in carbon nanotube (CNT) filled natural rubber (NR) composites". *Polymer*. 2014, 55(18). 4738-4747. <https://doi.org/10.1016/j.polymer.2014.07.043>

Kapgate, Bharat P. et al. "Effect of silane integrated sol-gel derived in situ silica on the properties of nitrile rubber". *Journal of Applied Polymer Science*. 2014. 131(15). <https://doi.org/10.1002/app.40531>

Kurppa, Katri et al. "Molecular engineering of avidin and hydrophobin for functional self-assembling interfaces". *Colloids and Surfaces B: Biointerfaces*. 2014, 120. 102-109. <https://doi.org/10.1016/j.colsurfb.2014.05.010>

Oksa, Maria, Tommi Varis and Kimmo Ruusuvoori. "Performance testing of iron based thermally sprayed HVOF coatings in a biomass-fired fluidised bed boiler". *Surface and Coatings Technology*. 2014, 251. 191-200. <https://doi.org/10.1016/j.surfcoat.2014.04.025>

Kohagen, Miriam, Philip E. Mason and Pavel Jungwirth. "Accurate description of calcium solvation in concentrated aqueous solutions". *Journal of Physical Chemistry Part B*. 2014, 118(28). 7902-7909. <https://doi.org/10.1021/jp5005693>

Werner, Josephina et al. "Surface behavior of hydrated guanidinium and ammonium ions: A comparative study by photoelectron spectroscopy and molecular dynamics". *Journal of Physical Chemistry Part B*. 2014, 118(25). 7119-7127. <https://doi.org/10.1021/jp500867w>

Mahmood, Nasir et al. "Carbon nanotubes-filled thermoplastic polyurethane-urea and carboxylated acrylonitrile butadiene rubber blend nanocomposites". *Journal of Applied Polymer Science*. 2014. 131(11). <https://doi.org/10.1002/app.40341>

Pluhařová, Eva et al. "Hydration of the chloride ion in concentrated aqueous solutions using neutron scattering and molecular dynamics". *Molecular Physics*. 2014, 112(9-10). 1230-1240. <https://doi.org/10.1080/00268976.2013.875231>

Raghuwanshi, Sanjeev et al. "Bioprocessing of enhanced cellulase production from a mutant of *Trichoderma asperellum* RCK2011 and its application in hydrolysis of cellulose". *Fuel*. 2014, 124. 183-189. <https://doi.org/10.1016/j.fuel.2014.01.107>

Koskela, Jenni E. et al. "Light-fuelled transport of large dendrimers and proteins". *Journal of the American Chemical Society*. 2014, 136(19). 6850-6853. <https://doi.org/10.1021/ja502623m>

Kuzmin, Michael G. et al. "Microphase mechanism of "superquenching" of luminescent probes in aqueous solutions of DNA and some other polyelectrolytes". *Journal of Physical Chemistry Part B*. 2014, 118(15). 4245-4252. <https://doi.org/10.1021/jp500713q>

Hytönen, Vesa P. and Bernhard Wehrle-Haller. "Protein conformation as a regulator of cell-matrix adhesion". *Physical Chemistry Chemical Physics*. 2014, 16(14). 6342-6357. <https://doi.org/10.1039/c3cp54884h>

Kulig, Waldemar and Noam Agmon. "Deciphering the infrared spectrum of the protonated water pentamer and the hybrid Eigen-Zundel cation". *Physical Chemistry Chemical Physics*. 2014, 16(10). 4933-4941. <https://doi.org/10.1039/c3cp54029d>

Khan, M. Nuruzzaman and Michael Zharnikov. "Fabrication of ssDNA/oligo(ethylene glycol) monolayers by promoted exchange reaction with thiol and disulfide substituents". *Journal of Physical Chemistry C*. 2014, 118(6). 3093-3101. <https://doi.org/10.1021/jp411353f>

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

Kulig, Waldemar and Noam Agmon. "Both zundel and eigen isomers contribute to the IR spectrum of the gas-phase H₉O₄ + cluster". *Journal of Physical Chemistry Part B*. 2014, 118(1). 278-286. <https://doi.org/10.1021/jp410446d>

Oksala, Niku K J et al. "Natural thermal adaptation increases heat shock protein levels and decreases oxidative stress". *REDOX BIOLOGY*. 2014, 3. 25-28. <https://doi.org/10.1016/j.redox.2014.10.003>

Enkavi, Giray et al. "A microscopic view of the mechanisms of active transport across the cellular membrane". *Annual Reports in Computational Chemistry*. 2014, 10. 77-125. <https://doi.org/10.1016/B978-0-444-63378-1.00004-5>

Savolainen, Janne et al. "Direct observation of the collapse of the delocalized excess electron in water". *Nature Chemistry*. 2014, 6(8). 697-701. <https://doi.org/10.1038/nchem.1995>

Wang, Jianguang and Asok K. Ray. "A full-potential linearized augmented plane wave study of the interaction of CO₂ with α -Pu (020) surface nanolayers". *Journal of Computational and Theoretical Nanoscience*. 2014, 11(7). 1710-1717. <https://doi.org/10.1166/jctn.2014.3555>

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

Airiskallio, E. et al. "Magnetic origin of the chemical balance in alloyed Fe-Cr stainless steels: First-principles and Ising model study". *Computational Materials Science*. 2014, 92. 135-140. <https://doi.org/10.1016/j.commatsci.2014.05.036>

Le, Hai Hong et al. "Effect of non-rubber components of NR on the carbon nanotube (CNT) localization in SBR/NR blends". *Macromolecular Materials and Engineering*. 2014, 299(5). 569-582. <https://doi.org/10.1002/mame.201300254>

Akimova, A. V. et al. "Novel derivatives of bacteriochlorophyll a: Complex formation with albumin and the mechanism of tumor cell photodamage". *DOKLADY BIOCHEMISTRY AND BIOPHYSICS*. 2014, 454(1). 17-20. <https://doi.org/10.1134/S1607672914010062>

Rasappa, Sozaraj et al. "Fabrication of 3-D nanodimensioned electric double layer capacitor structures using block copolymer templates". *Journal Nanoscience and Nanotechnology*. 2014, 14(7). 5221-5227. <https://doi.org/10.1166/jnn.2014.8668>

Mokarian-Tabari, Parvaneh et al. "Study of the kinetics and mechanism of rapid self-assembly in block copolymer thin films during solvo-microwave annealing". *Langmuir*. 2014, 30(35). 10728-10739. <https://doi.org/10.1021/la503137q>

Näreoja, Tuomas et al. "Kinetics of bioconjugate nanoparticle label binding in a sandwich-type immunoassay". *Analytical and Bioanalytical Chemistry*. 2014, 406(2). 493-503. <https://doi.org/10.1007/s00216-013-7474-0>

Cummins, C. et al. "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*. 2013, 1(47). 7941-7951. <https://doi.org/10.1039/c3tc31498g>

Häkkinen, Merja R. et al. "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*. 2013, 941. 81-89. <https://doi.org/10.1016/j.jchromb.2013.10.009>

Le, H. H. et al. "Location of dispersing agent in rubber nanocomposites during mixing process". *Polymer*. 2013, 54(26). 7009-7021. <https://doi.org/10.1016/j.polymer.2013.10.038>

German, Salvador Jimenez et al. "Proliferation and differentiation of adipose stem cells towards smooth muscle cells on poly(trimethylene carbonate) membranes". *Macromolecular symposia*. 2013, 334(1). 133-142. <https://doi.org/10.1002/masy.201300100>

Diban, Nazely et al. "Effect of surface morphology of poly(ϵ -caprolactone) scaffolds on adipose stem cell adhesion and proliferation". *Macromolecular symposia*. 2013, 334(1). 126-132. <https://doi.org/10.1002/masy.201300106>

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

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

Hladilková, Jana et al. "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*. 2013, 117(46). 14329-14335. <https://doi.org/10.1021/jp409040u>

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

Priimagi, Arri et al. "The Halogen Bond in the Design of Functional Supramolecular Materials: Recent Advances". *Accounts of Chemical Research*. 2013, 46(11). 2686-2695. <https://doi.org/10.1021/ar400103r>

Kalimeri, Maria et al. "How conformational flexibility stabilizes the hyperthermophilic elongation factor G-domain". *Journal of Physical Chemistry Part B*. 2013, 117(44). 13775-13785. <https://doi.org/10.1021/jp407078z>

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

Borah, Dipu et al. "Soft-graphoepitaxy using nanoimprinted polyhedral oligomeric silsesquioxane substrates for the directed self-Assembly of PS-b-PDMS". *European Polymer Journal*. 2013, 49(11). 3512-3521. <https://doi.org/10.1016/j.eurpolymj.2013.08.011>

Niskanen, Mika et al. "Porphyrin adsorbed on the (1010) surface of the wurtzite structure of ZnO-conformation induced effects on the electron transfer characteristics". *Physical Chemistry Chemical Physics*. 2013, 15(40). 17408-17418. <https://doi.org/10.1039/c3cp51685g>

Pollheimer, Philipp et al. "Reversible biofunctionalization of surfaces with a switchable mutant of avidin". *Bioconjugate Chemistry*. 2013, 24(10). 1656-1668. <https://doi.org/10.1021/bc400087e>

Sterpone, Fabio et al. "Importance of the ion-pair interactions in the OPEP coarse-grained force field: Parametrization and validation". *Journal of Chemical Theory and Computation*. 2013, 9(10). 4574-4584. <https://doi.org/10.1021/ct4003493>

Laitaoja, Mikko, Jarkko Valjakka and Janne Jänis. "Zinc coordination spheres in protein structures". *Inorganic Chemistry*. 2013, 52(19). 10983-10991. <https://doi.org/10.1021/ic401072d>

Khan, M. Nuruzzaman et al. "Spectroscopic study of a DNA brush synthesized in situ by surface initiated enzymatic polymerization". *Journal of Physical Chemistry Part B*. 2013, 117(34). 9929-9938. <https://doi.org/10.1021/jp404774x>

Stirnemann, Guillaume et al. "Mechanisms of acceleration and retardation of water dynamics by ions". *Journal of the American Chemical Society*. 2013, 135(32). 11824-11831. <https://doi.org/10.1021/ja405201s>

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

Borah, Dipu et al. "Tuning PDMS brush chemistry by UV-O₃ exposure for PS-b-PDMS microphase separation and directed self-assembly". *Langmuir*. 2013, 29(28). 8959-8968. <https://doi.org/10.1021/la401561k>

Paterová, Jana et al. "Reversal of the Hofmeister series: Specific ion effects on peptides". *Journal of Physical Chemistry Part B*. 2013, 117(27). 8150-8158. <https://doi.org/10.1021/jp405683s>

Stumpel, Jelle E. et al. "Photoswitchable hydrogel surface topographies by polymerisation-induced diffusion". *Chemistry: A European Journal*. 2013, 19(33). 10922-10927. <https://doi.org/10.1002/chem.201300852>

Diban, Nazely et al. "Development and characterization of poly(ϵ -caprolactone) hollow fiber membranes for vascular tissue engineering". *Journal of Membrane Science*. 2013, 438. 29-37. <https://doi.org/10.1016/j.memsci.2013.03.024>

Gordon, Thomas R. et al. "Shape-dependent plasmonic response and directed self-assembly in a new semiconductor building block, indium-doped cadmium oxide (ICO)". *Nano Letters*. 2013, 13(6). 2857-2863. <https://doi.org/10.1021/nl4012003>

Gerlofs-Nijland, Miriam E. et al. "Cell toxicity and oxidative potential of engine exhaust particles: Impact of using particulate filter or biodiesel fuel blend". *Environmental Science and Technology*. 2013, 47(11). 5931-5938. <https://doi.org/10.1021/es305330y>

Štěpánková, Veronika et al. "Cation-specific effects on enzymatic catalysis driven by interactions at the tunnel mouth". *Journal of Physical Chemistry Part B*. 2013, 117(21). 6394-6402. <https://doi.org/10.1021/jp401506v>

Pelto, Jani M. et al. "Surface properties and interaction forces of biopolymer-doped conductive polypyrrole surfaces by atomic force microscopy". *Langmuir*. 2013, 29(20). 6099-6108. <https://doi.org/10.1021/la4009366>

McManamon, Colm et al. "Depth profiling of PLGA copolymer in a novel biomedical bilayer using confocal raman spectroscopy". *Langmuir*. 2013, 29(19). 5905-5910. <https://doi.org/10.1021/la400402a>

Bayr, Suvi, Prasad Kaparaju, and Jukka Rintala. "Screening pretreatment methods to enhance thermophilic anaerobic digestion of pulp and paper mill wastewater treatment secondary sludge". *Chemical Engineering Journal*. 2013, 223. 479-486. <https://doi.org/10.1016/j.cej.2013.02.119>

Tan, Mingqi et al. "Immobilized bioactive agents onto polyurethane surface with heparin and phosphorylcholine group". *Macromolecular Research*. 2013, 21(5). 541-549. <https://doi.org/10.1007/s13233-013-1028-3>

Vapaavuori, Jaana et al. "Nanoindentation study of light-induced softening of supramolecular and covalently functionalized azo polymers". *Journal of Materials Chemistry C*. 2013, 1(16). 2806-2810. <https://doi.org/10.1039/c3tc30246f>

Rooj, Sandip et al. "Understanding the reinforcing behavior of expanded clay particles in natural rubber compounds". *Soft Matter*. 2013, 9(14). 3798-3808. <https://doi.org/10.1039/c3sm27519a>

Pale, Ville et al. "Biomimetic zinc chlorin-poly(4-vinylpyridine) assemblies: Doping level dependent emission-absorption regimes". *Journal of Materials Chemistry C*. 2013, 1(11). 2166-2173. <https://doi.org/10.1039/c3tc00499f>

Ma, Li, Jianguang Wang and Guanghou Wang. "Site-specific analysis of dipole polarizabilities of heterogeneous systems: Iron-doped Si_n ($n = 1-14$) clusters". *Journal of Chemical Physics*. 2013. 138(9). <https://doi.org/10.1063/1.4793276>

Borah, Dipu et al. "Molecularly functionalized silicon substrates for orientation control of the microphase separation of PS-b-PMMA and PS-b-PDMS block copolymer systems". *Langmuir*. 2013, 29(9). 2809-2820. <https://doi.org/10.1021/la304140q>

Barboza, R. et al. "Optical vortex generation in nematic liquid crystal light valves". *Molecular Crystals and Liquid Crystals*. 2013, 572(1). 24-30. <https://doi.org/10.1080/15421406.2012.763206>

Rasappa, Sozaraj et al. "Fabrication of a sub-10 nm silicon nanowire based ethanol sensor using block copolymer lithography". *Nanotechnology*. 2013. 24(6). <https://doi.org/10.1088/0957-4484/24/6/065503>

Vazdar, Mario, Pavel Jungwirth and Philip E. Mason. "Aqueous guanidinium-carbonate interactions by molecular dynamics and neutron scattering: Relevance to ion-protein interactions". *Journal of Physical Chemistry Part B*. 2013, 117(6). 1844-1848. <https://doi.org/10.1021/jp310719g>

Fafarman, Aaron T. et al. "Chemically tailored dielectric-to-metal transition for the design of metamaterials from nanoimprinted colloidal nanocrystals". *Nano Letters*. 2013, 13(2). 350-357. <https://doi.org/10.1021/nl303161d>

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

Ma, Li et al. "Density functional theory study of FePd_n (n = 2-14) clusters and interactions with small molecules". *Computational Materials Science*. 2013, 68. 166-173. <https://doi.org/10.1016/j.commatsci.2012.10.014>

Subramaniam, Kalaivani et al. "Networking of ionic liquid modified CNTs in SSBR". *European Polymer Journal*. 2013, 49(2). 345-352. <https://doi.org/10.1016/j.eurpolymj.2012.10.023>

Wang, Heyun et al. "A potential nonthrombogenic small-diameter vascular scaffold with polyurethane/poly(ethylene glycol) hybrid materials by electrospinning technique". *Journal Nanoscience and Nanotechnology*. 2013, 13(2). 1578-1582. <https://doi.org/10.1166/jnn.2013.6051>

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

Ylilauri, Mikko et al. "Molecular mechanism of T-cell protein tyrosine phosphatase (TCPTP) activation by mitoxantrone". *Biochimica et biophysica acta: proteins and proteomics*. 2013, 1834(10). 1988-1997. <https://doi.org/10.1016/j.bbapap.2013.07.001>

Mubarakali, Davoodbasha et al. "New reports on anti-bacterial and anti-candidal activities of fatty acid methyl esters (FAME) obtained from *Scenedesmus bijugatus* var. *bicellularis* biomass". *RSC Advances*. 2012, 2(30). 11552-11556. <https://doi.org/10.1039/c2ra21130k>

Buchholz, Max et al. "Semiclassical hybrid approach to condensed phase molecular dynamics: Application to the I₂Kr₁₇ cluster". *Journal of Physical Chemistry A*. 2012, 116(46). 11199-11210. <https://doi.org/10.1021/jp305084f>

Pluhaová, Eva et al. "Peptide salt bridge stability: From gas phase via microhydration to bulk water simulations". *Journal of Chemical Physics*. 2012. 137(18). <https://doi.org/10.1063/1.4765052>

Ma, Li, Jianguang Wang and Guanghou Wang. "Search for global minimum geometries of medium sized Cd_nTe_n clusters (n = 15, 16, 20, 24 and 28)". *Chemical Physics Letters*. 2012, 552. 73-77. <https://doi.org/10.1016/j.cplett.2012.09.036>

Pluhařová, Eva et al. "Transforming anion instability into stability: Contrasting photoionization of three protonation forms of the phosphate ion upon moving into water". *Journal of Physical Chemistry Part B*. 2012, 116(44). 13254-13264. <https://doi.org/10.1021/jp306348b>

Steinhauser, D. et al. "Influence of ionic liquids on the dielectric relaxation behavior of CNT based elastomer nanocomposites". *Express Polymer Letters*. 2012, 6(11). 927-936. <https://doi.org/10.3144/expresspolymlett.2012.98>

Mahimwalla, Zahid et al. "Azobenzene photomechanics: Prospects and potential applications". *Polymer Bulletin*. 2012, 69(8). 967-1006. <https://doi.org/10.1007/s00289-012-0792-0>

Lisitsyna, E. S. et al. "Superquenching of SYBRGreen dye fluorescence in complex with DNA by gold nanoparticles". *HIGH ENERGY CHEMISTRY*. 2012, 46(6). 363-367. <https://doi.org/10.1134/S0018143912060057>

- Khan, M. Nuruzzaman et al. "Fabrication of ssDNA/oligo(ethylene glycol) monolayers and complex nanostructures by an irradiation-promoted exchange reaction". *Angewandte Chemie (International Edition)*. 2012, 51(41). 10303-10306. <https://doi.org/10.1002/anie.201204245>
- Le, H. H. et al. "Kinetics of filler wetting and dispersion in carbon nanotube/rubber composites". *Carbon*. 2012, 50(12). 4543-4556. <https://doi.org/10.1016/j.carbon.2012.05.039>
- Gao, Wei et al. "Biomimetic surface modification of polycarbonateurethane film via phosphorylcholine-graft for resisting platelet adhesion". *Macromolecular Research*. 2012, 20(10). 1063-1069. <https://doi.org/10.1007/s13233-012-0152-9>
- Bardhan, Jaydeep P., Pavel Jungwirth and Lee Makowski. "Affine-response model of molecular solvation of ions: Accurate predictions of asymmetric charging free energies". *Journal of Chemical Physics*. 2012. 137(12). <https://doi.org/10.1063/1.4752735>
- Kapgate, Bharat P. et al. "Effect of sol-gel derived in situ silica on the morphology and mechanical behavior of natural rubber and acrylonitrile butadiene rubber blends". *JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY*. 2012, 63(3). 501-509. <https://doi.org/10.1007/s10971-012-2812-9>
- Pegado, Luís et al. "Solvation and ion-pairing properties of the aqueous sulfate anion: Explicit versus effective electronic polarization". *Physical Chemistry Chemical Physics*. 2012, 14(29). 10248-10257. <https://doi.org/10.1039/c2cp40711f>
- Kousoulidou, Marina et al. "Impact of biodiesel application at various blending ratios on passenger cars of different fueling technologies". *Fuel*. 2012, 98. 88-94. <https://doi.org/10.1016/j.fuel.2012.03.038>
- Mason, Philip E., Erik Wernersson and Pavel Jungwirth. "Accurate description of aqueous carbonate ions: An effective polarization model verified by neutron scattering". *Journal of Physical Chemistry Part B*. 2012, 116(28). 8145-8153. <https://doi.org/10.1021/jp3008267>
- Serak, Svetlana V., Nelson V. Tabiryan, and Gaetano Assanto. "Nematicons in azobenzene liquid crystals". *Molecular Crystals and Liquid Crystals*. 2012, 559. 202-213. <https://doi.org/10.1080/15421406.2012.658710>
- Rembert, Kelvin B. et al. "Molecular mechanisms of ion-specific effects on proteins". *Journal of the American Chemical Society*. 2012, 134(24). 10039-10046. <https://doi.org/10.1021/ja301297g>
- Primagi, Arri et al. "Halogen bonding versus hydrogen bonding in driving self-assembly and performance of light-responsive supramolecular polymers". *Advanced Functional Materials*. 2012, 22(12). 2572-2579. <https://doi.org/10.1002/adfm.201200135>
- Vazdar, Mario et al. "Behavior of 4-hydroxynonenal in phospholipid membranes". *Journal of Physical Chemistry Part B*. 2012, 116(22). 6411-6415. <https://doi.org/10.1021/jp3044219>
- Ma, Li, Raymond Atta-Fynn and Asok K. Ray. "Elemental and mixed actinide dioxides: An ab initio study". *Journal of Theoretical and Computational Chemistry*. 2012, 11(3). 611-629. <https://doi.org/10.1142/S021963361250040X>
- Wang, De Yi et al. "Structural characteristics and flammability of fire retarding EPDM/layered double hydroxide (LDH) nanocomposites". *RSC Advances*. 2012, 2(9). 3927-3933. <https://doi.org/10.1039/c2ra20189e>
- Roaj, Sandip et al. "Highly exfoliated natural rubber/Clay composites by "propping-open procedure": The influence of fatty acid chain length on exfoliation". *Macromolecular Materials and Engineering*. 2012, 297(4). 369-383. <https://doi.org/10.1002/mame.201100185>
- Stradomska, Anna et al. "Excited-state polarizability in crystalline sexithiophene: Charge-transfer and vibronic effects". *Chemical Physics Letters*. 2012, 529. 27-30. <https://doi.org/10.1016/j.cplett.2012.01.038>

Das, Amit et al. "A novel thermotropic elastomer based on highly-filled LDH-SSB composites". *Macromolecular Rapid Communications*. 2012, 33(4). 337-342. <https://doi.org/10.1002/marc.201100735>

Nandre, Kamalakar P. et al. "Glycerol mediated synthesis of 5-substituted 1H-tetrazole under catalyst free conditions". *Chinese Chemical Letters*. 2012, 23(2). 161-164. <https://doi.org/10.1016/j.ccl.2011.11.019>

Koskela, Jenni E. et al. "Surface-relief gratings and stable birefringence inscribed using light of broad spectral range in supramolecular polymer-bisazobenzene complexes". *Journal of Physical Chemistry C*. 2012, 116(3). 2363-2370. <https://doi.org/10.1021/jp210706n>

Marsalek, Ondrej et al. "Structure, dynamics, and reactivity of hydrated electrons by Ab initio molecular dynamics". *Accounts of Chemical Research*. 2012, 45(1). 23-32. <https://doi.org/10.1021/ar200062m>

Leuteritz, A. et al. "Layered Double Hydroxides (LDH): A multifunctional versatile system for nanocomposites". *Molecular Crystals and Liquid Crystals*. 2012, 556. 107-113. <https://doi.org/10.1080/15421406.2012.635923>

Priimagi, Arri et al. "Location of the Azobenzene moieties within the cross-linked liquid-crystalline polymers can dictate the direction of photoinduced bending". *ACS Macro Letters*. 2012, 1(1). 96-99. <https://doi.org/10.1021/mz200056w>

Marsalek, Ondrej et al. "Chasing charge localization and chemical reactivity following photoionization in liquid water". *Journal of Chemical Physics*. 2011. 135(22). <https://doi.org/10.1063/1.3664746>

Härkönen, Henna H. et al. "The Discovery of Compounds That Stimulate the Activity of Kallikrein-Related Peptidase3 (KLK3)". *CHEMMEDCHEM*. 2011, 6(12). 2170-2178. <https://doi.org/10.1002/cmdc.201100349>

Manna, Moutusi and Chaitali Mukhopadhyay. "Cholesterol driven alteration of the conformation and dynamics of phospholamban in model membranes". *Physical Chemistry Chemical Physics*. 2011, 13(45). 20188-20198. <https://doi.org/10.1039/c1cp21793c>

Subramaniam, Kalaivani et al. "Effect of ionic liquid on dielectric, mechanical and dynamic mechanical properties of multi-walled carbon nanotubes/polychloroprene rubber composites". *European Polymer Journal*. 2011, 47(12). 2234-2243. <https://doi.org/10.1016/j.eurpolymj.2011.09.021>

Gladich, Ivan et al. "Arrhenius analysis of anisotropic surface self-diffusion on the prismatic facet of ice". *Physical Chemistry Chemical Physics*. 2011, 13(44). 19960-19969. <https://doi.org/10.1039/c1cp22238d>