

Donadei V, Koivuluoto H, Sarlin E, Vuoristo P. **Lubricated icephobic coatings prepared by flame spraying with hybrid feedstock injection.** Surface and Coatings Technology. 2020 joulu 15;403. 126396. <https://doi.org/10.1016/j.surfcoat.2020.126396>

Sarlin E, Honkanen M, Lindgren M, Laihonon P, Juutilainen M, Vippola M et al. **The effect of substrate pre-treatment on durability of rubber-stainless steel adhesion.** Surfaces and Interfaces. 2020 joulu 1;21. 100646. <https://doi.org/10.1016/j.surfin.2020.100646>

Baratto C, Golovanova V, Faglia G, Hakola H, Niemi T, Tkachenko N et al. **On the alignment of ZnO nanowires by Langmuir – Blodgett technique for sensing application.** Applied Surface Science. 2020 loka 30;528. 146959. <https://doi.org/10.1016/j.apsusc.2020.146959>

Tan C, Ceballos G, Kasabov N, Subramaniam NP. **Fusionsense: Emotion classification using feature fusion of multimodal data and deep learning in a brain-inspired spiking neural network.** Sensors (Switzerland). 2020 syys 17;20(18). 5328. <https://doi.org/10.3390/s20185328>

Olżyńska A, Kulig W, Mikkolainen H, Czerniak T, Jurkiewicz P, Cwiklik L et al. **Tail-Oxidized Cholesterol Enhances Membrane Permeability for Small Solutes.** Langmuir. 2020 syys 8;36(35):10438-10447. <https://doi.org/10.1021/acs.langmuir.0c01590>

Kaleva A, Tassaing T, Saarimaa V, Le Bourdon G, Väisänen P, Markkula A et al. **Formation of corrosion products on zinc in wet supercritical and subcritical CO₂: In-situ spectroscopic study.** Corrosion Science. 2020 syys 1;174. <https://doi.org/10.1016/j.corsci.2020.108850>

Azemati H, Jam F, Ghorbani M, Dehmer M, Ebrahimpour R, Ghanbaran A et al. **The role of symmetry in the aesthetics of residential building façades using cognitive science methods.** Symmetry. 2020 syys 1;12(9). 1438. <https://doi.org/10.3390/sym12091438>

He H, Chen X, Mehmood A, Raivio L, Huttunen H, Raunonen P et al. **ClothFace: A Batteryless RFID-Based Textile Platform for Handwriting Recognition.** Sensors (Basel, Switzerland). 2020 elo 28;20(17). 4878. <https://doi.org/10.3390/s20174878>

Truong KN, Rautiainen JM, Rissanen K, Puttreddy R. **The C-I...⁻O-N⁺ Halogen Bonds with Tetraiodoethylene and Aromatic N-Oxides.** Crystal Growth and Design. 2020 elo 5;20(8):5330-5337. <https://doi.org/10.1021/acs.cgd.0c00560>

Lahikainen M, Zeng H, Priimagi A. **Design principles for non-reciprocal photomechanical actuation.** Soft Matter. 2020 heinä 7;16(25):5951-5958. <https://doi.org/10.1039/d0sm00624f>

Ojha N, Szczodra A, Boetti NG, Massera J, Petit L. **Nucleation and growth behavior of Er³⁺ doped oxyfluorophosphate glasses.** RSC Advances. 2020 heinä 7;10(43):25703-25716. <https://doi.org/10.1039/d0ra04681g>

Sharma RO, Rantala TT, Hoggan PE. **Selective hydrogen production at Pt(111) investigated by Quantum Monte Carlo methods for metal catalysis.** International Journal of Quantum Chemistry. 2020 kesä 5;120(11). e26198. <https://doi.org/10.1002/qua.26198>

Arvani M, Keskinen J, Railanmaa A, Siljander S, Björkqvist T, Tuukkanen S et al. **Additive manufacturing of monolithic supercapacitors with biopolymer separator.** Journal of Applied Electrochemistry. 2020 kesä 1;50(6):689-697. <https://doi.org/10.1007/s10800-020-01423-2>

Isca VMS, Ferreira RJ, Garcia C, Monteiro CM, Dinic J, Holmstedt S et al. **Molecular Docking Studies of Royleanone Diterpenoids from *Plectranthus* spp. as P-Glycoprotein Inhibitors.** ACS MEDICINAL CHEMISTRY LETTERS. 2020 touko 14;11(5):839-845. <https://doi.org/10.1021/acsmedchemlett.9b00642>

Alanen J, Isotalo M, Kuittinen N, Simonen P, Martikainen S, Kuuluvainen H 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 touko 5;54(9):5376-5384. <https://doi.org/10.1021/acs.est.9b06460>

Javanainen M, Ollila OHS, Martinez-Seara H. **Rotational Diffusion of Membrane Proteins in Crowded Membranes.** Journal of Physical Chemistry B. 2020 huhti 16;124(15):2994-3001. <https://doi.org/10.1021/acs.jpcc.0c00884>

Haavisto JM, Kokko ME, Lakaniemi AM, Sulonen MLK, Puhakka JA. **The effect of start-up on energy recovery and compositional changes in brewery wastewater in bioelectrochemical systems.** BIOELECTROCHEMISTRY. 2020 huhti 1;132. 107402. <https://doi.org/10.1016/j.bioelechem.2019.107402>

Twum K, Rautiainen JM, Yu S, Truong KN, Feder J, Rissanen K et al. **Host-Guest Interactions of Sodiumsulfonatomethylenesorcinarene and Quaternary Ammonium Halides: An Experimental-Computational Analysis of the Guest Inclusion Properties.** Crystal Growth and Design. 2020 huhti 1;20(4):2367-2376. <https://doi.org/10.1021/acs.cgd.9b01540>

Young DC, Tasiar M, Laurent AD, Dobrzycki Ł, Cyrański MK, Tkachenko N et al. **Photostable orange-red fluorescent unsymmetrical diketopyrrolopyrrole-BF₂ hybrids.** Journal of Materials Chemistry C. 2020 huhti;8(23):7708-7717. <https://doi.org/10.1039/d0tc01202e>

Aisala H, Manninen H, Laaksonen T, Linderborg KM, Myoda T, Hopia A et al. **Linking volatile and non-volatile compounds to sensory profiles and consumer liking of wild edible Nordic mushrooms.** Food Chemistry. 2020 tammi 30;304. 125403. <https://doi.org/10.1016/j.foodchem.2019.125403>

Viljanen J, Kalmankoski K, Contreras V, Sarin JK, Sorvajärvi T, Kinnunen H et al. **Sequential Collinear Photofragmentation and Atomic Absorption Spectroscopy for Online Laser Monitoring of Triatomic Metal Species.** Sensors (Basel, Switzerland). 2020 tammi 18;20(2). 533. <https://doi.org/10.3390/s20020533>

Chronopoulos A, Thorpe SD, Cortes E, Lachowski D, Rice AJ, Mykuliak VV 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 HP, Vivo P, Canil L, Hempel H, Unold T, Abate A 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.jpclett.9b03427>

Chakraborty S, Rene ER, Lens PNL, Rintala J, Veiga MC, Kennes C. **Effect of tungsten and selenium on C₁ gas bioconversion by an enriched anaerobic sludge and microbial community analysis.** Chemosphere. 2020;250. 126105. <https://doi.org/10.1016/j.chemosphere.2020.126105>

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

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

Tofanello A, Freitas ALM, Carvalho WM, Salminen T, Niemi T, Souza FL. **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 T, Suhonen T, Jokipii M, Vuoristo P. **Influence of powder properties on residual stresses formed in high-pressure liquid fuel HVOF sprayed WC-CoCr coatings.** Surface and Coatings Technology. 2020;388. 125604. <https://doi.org/10.1016/j.surfcoat.2020.125604>

Sankari A, Strählman C, Sankari R, Partanen L, Laksman J, Kettunen JA 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). 074302. <https://doi.org/10.1063/1.5141414>

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

Bączkiewicz J, Malaska M, Pajunen S, Alanen M, Heinisuo M. **Experimental study on axially loaded square hollow section T-joints under fire conditions.** FIRE SAFETY JOURNAL. 2020;114. 102993. <https://doi.org/10.1016/j.firesaf.2020.102993>

Larnimaa S, Halonen L, Karhu J, Tomberg T, Metsälä M, Genoud G et al. **High-resolution analysis of the ν_3 band of radiocarbon methane $^{14}\text{CH}_4$.** Chemical Physics Letters. 2020;750. 137488. <https://doi.org/10.1016/j.cplett.2020.137488>

Khvorost TA, Beliaev LY, Potalueva E, Laptchenkova AV, Selyutin AA, Bogachev NA et al. **Ultrafast Photochemistry of the $[\text{Cr}(\text{NCS})_6]^{3-}$ Complex in Dimethyl Sulfoxide and Dimethylformamide upon Excitation into Ligand-Field Electronic State.** Journal of Physical Chemistry B. 2020;124(18):3724-3733. <https://doi.org/10.1021/acs.jpcc.0c00088>

Moormann W, Tellkamp T, Stadler E, Röhrich F, Näther C, Puttreddy R 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 LMC, Koivisto H, Iwakiri IGI, Loureiro JM, Ribeiro AM, Nogueira IBR. **Modelling of a pressure swing adsorption unit by deep learning and artificial intelligence tools.** Chemical Engineering Science. 2020;224. 115801. <https://doi.org/10.1016/j.ces.2020.115801>

Eklund A, Zhang H, Zeng H, Priimägi A, Ikkala O. **Fast Switching of Bright Whiteness in Channeled Hydrogel Networks.** Advanced Functional Materials. 2020. 2000754. <https://doi.org/10.1002/adfm.202000754>

Holmstedt S, Candeias NR. **A concise synthesis of carbasugars isolated from Streptomyces lincolnensis.** Tetrahedron. 2020. 131346. <https://doi.org/10.1016/j.tet.2020.131346>

Taimoory SM, Twum K, Dashti M, Pan F, Lahtinen M, Rissanen K 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 OM, Schenning APHJ, Priimägi A. **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 L, Ali-Löyty H, Khan R, Saari J, Tkachenko NV, Valden M. **Modification of Surface States of Hematite-Based Photoanodes by Submonolayer of TiO_2 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, Kontunen A, Mäkelä M, Anttalainen O, Vehkaoja A, Oksala N 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 M, Chen D, Xiao M, Ye Q, Stolzenburg D, Hofbauer V 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 R, Özkaya B, Lakaniemi AM, Puhakka JA. **Kinetics and modelling of thiosulphate biotransformations by haloalkaliphilic Thioalkalivibrio versutus.** Chemical Engineering Journal. 2020;401. 126047. <https://doi.org/10.1016/j.cej.2020.126047>

Shakun A, Sarlin E, Vuorinen J. **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 DM, Holstad TS, Mosberg AB, Småbråten DR, Vullum PE, Dadlani AL 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 A, Mzezewa R, Sukki L, Rynnänen T, Kreutzer J, Hyvärinen T et al. **A modular brain-on-a-chip for modelling epileptic seizures with functionally connected human neuronal networks.** Biosensors and Bioelectronics. 2020;168. 112553. <https://doi.org/10.1016/j.bios.2020.112553>

Jowett GM, Norman MDA, Yu TTL, Rosell Arévalo P, Hoogland D, Lust ST et al. **ILC1 drive intestinal epithelial and matrix remodelling.** Nature Materials. 2020. <https://doi.org/10.1038/s41563-020-0783-8>

Ometov A, Bezzateev S, Voloshina N, Masek P, Komarov M. **Environmental monitoring with distributed mesh networks: An overview and practical implementation perspective for urban scenario.** Sensors (Switzerland). 2019 joulu 2;19(24). 5548. <https://doi.org/10.3390/s19245548>

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

Lowe SJ, Partridge DG, Davies JF, Wilson KR, Topping D, Riipinen I. **Key drivers of cloud response to surface-active organics.** Nature Communications. 2019 joulu 1;10(1). 5214. <https://doi.org/10.1038/s41467-019-12982-0>

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

Shevkunov I, Katkovnik V, Claus D, Pedrini G, Petrov NV, Egiazarian K. **Spectral object recognition in hyperspectral holography with complex-domain denoising.** Sensors (Switzerland). 2019 marras 26;19(23). 5188. <https://doi.org/10.3390/s19235188>

Poikkimäki M, Koljonen V, Leskinen N, Närhi M, Kangasniemi O, Kausiala O et al. **Nanocluster Aerosol Emissions of a 3D Printer.** Environmental Science and Technology. 2019 marras 7;53(23):13618–13628. <https://doi.org/10.1021/acs.est.9b05317>

Ye Q, Wang M, Hofbauer V, Stolzenburg D, Chen D, Schervish M et al. **Molecular Composition and Volatility of Nucleated Particles from α -Pinene Oxidation between -50 °C and $+25$ °C.** Environmental Science and Technology. 2019 marras 5;53(21):12357-12365. <https://doi.org/10.1021/acs.est.9b03265>

Tomkowski R, Sorsa A, Santa-Aho S, Lundin P, Vippola M. **Statistical evaluation of barkhausen noise testing (BNT) for ground samples.** Sensors (Switzerland). 2019 marras 1;19(21). 4716. <https://doi.org/10.3390/s19214716>

Saegusa T, Sakai H, Nagashima H, Kobori Y, Tkachenko NV, Hasobe T. **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 syys 18;141(37):14720-14727. <https://doi.org/10.1021/jacs.9b06567>

Haavisto J, Dessì P, Chatterjee P, Honkanen M, Noori MT, Kokko M 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 syys 15;372:141-150. <https://doi.org/10.1016/j.cej.2019.04.090>

Reshef O, Saad-Bin-Alam M, Huttunen MJ, Carlow G, Sullivan BT, Ménard JM et al. **Multiresonant High-Q Plasmonic Metasurfaces**. *Nano Letters*. 2019 syys 11;19(9):6429-6434. <https://doi.org/10.1021/acs.nanolett.9b02638>

Karjalainen P, Rönkkö T, Simonen P, Ntziachristos L, Juuti P, Timonen H et al. **Strategies To Diminish the Emissions of Particles and Secondary Aerosol Formation from Diesel Engines**. *Environmental science & technology*. 2019 syys 3;53(17):10408-10416. <https://doi.org/10.1021/acs.est.9b04073>

Calejo MT, Haapala A, Skottman H, Kellomäki M. **Porous polybutylene succinate films enabling adhesion of human embryonic stem cell-derived retinal pigment epithelial cells (hESC-RPE)**. *European Polymer Journal*. 2019 syys 1;118:78-87. <https://doi.org/10.1016/j.eurpolymj.2019.05.041>

Poojari C, Wilkosz N, Lira RB, Dimova R, Jurkiewicz P, Petka R et al. **Behavior of the DPH fluorescence probe in membranes perturbed by drugs**. *Chemistry and Physics of Lipids*. 2019 syys 1;223. 104784. <https://doi.org/10.1016/j.chemphyslip.2019.104784>

Wang S, Nawale GN, Oommen OP, Hilborn J, Varghese OP. **Influence of ions to modulate hydrazone and oxime reaction kinetics to obtain dynamically cross-linked hyaluronic acid hydrogels**. *Polymer Chemistry*. 2019 elo 21;10(31):4322-4327. <https://doi.org/10.1039/c9py00862d>

Kiilakoski J, Langlade C, Koivuluoto H, Vuoristo P. **Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings**. *Surface and Coatings Technology*. 2019 elo 15;371:245-254. <https://doi.org/10.1016/j.surfcoat.2018.10.097>

Fantozzi D, Matikainen V, Uusitalo M, Koivuluoto H, Vuoristo P. **Chlorine induced high-temperature corrosion mechanisms in HVOF and HVAF sprayed Cr₃C₂-based hardmetal coatings**. *Corrosion Science*. 2019 elo 14. 108166. <https://doi.org/10.1016/j.corsci.2019.108166>

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

Solovyev AI, Mikheyliis AV, Plyusnin VF, Shubin AA, Grivin VP, Larionov SV et al. **Photochemistry of dithiophosphinate Ni(S₂P(i-Bu)₂)₂ complex in CCl₄. Transient species and TD-DFT calculations**. *Journal of Photochemistry and Photobiology A: Chemistry*. 2019 elo 1;381. 111857. <https://doi.org/10.1016/j.jphotochem.2019.111857>

Matikainen V, Rubio Peregrina S, Ojala N, Koivuluoto H, Schubert J, Houdková et al. **Erosion wear performance of WC-10Co4Cr and Cr₃C₂-25NiCr coatings sprayed with high-velocity thermal spray processes**. *Surface and Coatings Technology*. 2019 heinä 25;370:196-212. <https://doi.org/10.1016/j.surfcoat.2019.04.067>

Kezilebieke S, Žitko R, Dvorak M, Ojanen T, Liljeroth P. **Observation of Coexistence of Yu-Shiba-Rusinov States and Spin-Flip Excitations**. *Nano Letters*. 2019 heinä 10;19(7):4614-4619. <https://doi.org/10.1021/acs.nanolett.9b01583>

Abada A, Abbrescia M, AbdusSalam SS, Abdykhanov I, Abelleira Fernandez J, Abramov A et al. **FCC-hh: The Hadron Collider: Future Circular Collider Conceptual Design Report Volume 3**. *European Physical Journal: Special Topics*. 2019 heinä 1;228(4):755-1107. <https://doi.org/10.1140/epjst/e2019-900087-0>

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

Paananen RO, Javanainen M, Holopainen JM, Vattulainen I. **Crystalline Wax Esters Regulate the Evaporation Resistance of Tear Film Lipid Layers Associated with Dry Eye Syndrome**. *Journal of Physical Chemistry Letters*. 2019 kesä 25;10(14):3893-3898. <https://doi.org/10.1021/acs.jpcllett.9b01187>

Banerjee SS, Hait S, Natarajan TS, Wießner S, Stöckelhuber KW, Jehnichen D et al. **Water-Responsive and Mechanically Adaptive Natural Rubber Composites by in Situ Modification of Mineral Filler Structures.** Journal of Physical Chemistry B. 2019 kesä 20;123(24):5168-5175. <https://doi.org/10.1021/acs.jpcc.9b02125>

Hilka J, Koivusalo E, Puustinen J, Suomalainen S, Guina M. **Epitaxial phases of high Bi content GaSbBi alloys.** Journal of Crystal Growth. 2019 kesä 15;516:67-71. <https://doi.org/10.1016/j.jcrysgro.2019.03.028>

Sautter JD, Xu L, Miroshnichenko AE, Lysevych M, Volkovskaya I, Smirnova DA et al. **Tailoring Second-Harmonic Emission from (111)-GaAs Nanoantennas.** Nano Letters. 2019 kesä 12;19(6):3905-3911. <https://doi.org/10.1021/acs.nanolett.9b01112>

Lolicato F, Joly L, Martinez-Seara H, Fragneto G, Scoppola E, Baldelli Bombelli F et al. **The Role of Temperature and Lipid Charge on Intake/Uptake of Cationic Gold Nanoparticles into Lipid Bilayers.** Small. 2019 kesä 7;15(23). 1805046. <https://doi.org/10.1002/smll.201805046>

Sariola V. **Analytical Expressions for Spring Constants of Capillary Bridges and Snap-in Forces of Hydrophobic Surfaces.** Langmuir. 2019 kesä 4;35(22):7129-7135. <https://doi.org/10.1021/acs.langmuir.9b00152>

Lai Y, Zhang H, Sugano Y, Xie H, Kallio P. **Correlation of Surface Morphology and Interfacial Adhesive Behavior between Cellulose Surfaces: Quantitative Measurements in Peak-Force Mode with the Colloidal Probe Technique.** Langmuir. 2019 kesä 4;35(22):7312-7321. <https://doi.org/10.1021/acs.langmuir.8b03503>

Ali I, Suominen O, Gotchev A, Morales ER. **Methods for simultaneous robot-world-hand-eye calibration: A comparative study.** Sensors (Switzerland). 2019 kesä 2;19(12). 2837. <https://doi.org/10.3390/s19122837>

Kekonen A, Bergelin M, Johansson M, Kumar Joon N, Bobacka J, Viik J. **Bioimpedance Sensor Array for Long-Term Monitoring of Wound Healing from Beneath the Primary Dressings and Controlled Formation of H₂O₂ Using Low-Intensity Direct Current.** Sensors. 2019 touko 31;19(11). <https://doi.org/10.3390/s19112505>

Iyer S, Rissanen MP, Kurtén T. **Reaction between Peroxy and Alkoxy Radicals Can Form Stable Adducts.** Journal of Physical Chemistry Letters. 2019 touko 2;10(9):2051-2057. <https://doi.org/10.1021/acs.jpcclett.9b00405>

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

Trainer DJ, Putilov AV, Wang B, Lane C, Saari T, Chang TR et al. **Moiré superlattices and 2D electronic properties of graphite/MoS₂ heterostructures.** Journal of Physics and Chemistry of Solids. 2019 touko;128:325-330. <https://doi.org/10.1016/j.jpcs.2017.10.034>

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

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

Kulig W, Korolainen H, Zatorska M, Kwolek U, Wydro P, Kepczynski M et al. **Complex Behavior of Phosphatidylcholine-Phosphatidic Acid Bilayers and Monolayers: Effect of Acyl Chain Unsaturation.** Langmuir. 2019 huhti 30;35(17):5944-5956. <https://doi.org/10.1021/acs.langmuir.9b00381>

Puustinen J, Hilka J, Guina M. **Analysis of GaAsBi growth regimes in high resolution with respect to As/Ga ratio using stationary MBE growth.** Journal of Crystal Growth. 2019 huhti 1;511:33-41. <https://doi.org/10.1016/j.jcrysgro.2019.01.010>

Asikainen S, Paakinaho K, Kyhkynen AK, Hannula M, Malin M, Ahola N et al. **Hydrolysis and drug release from poly(ethylene glycol)-modified lactone polymers with open porosity.** European Polymer Journal. 2019 huhti 1;113:165-175. <https://doi.org/10.1016/j.eurpolymj.2019.01.056>

Ometov A, Bezzateev S, Davydov V, Shchesniak A, Masek P, Lohan ES et al. **Positioning information privacy in intelligent transportation systems: An overview and future perspective.** Sensors. 2019 huhti 1;19(7). 1603. <https://doi.org/10.3390/s19071603>

Kerst T, Malmbeck R, Ial Banik NL, Toivonen J. **Alpha radiation-induced luminescence by am-241 in aqueous nitric acid solution.** Sensors (Switzerland). 2019 huhti 1;19(7). 1602. <https://doi.org/10.3390/s19071602>

Gurtovenko AA, Javanainen M, Lolicato F, Vattulainen I. **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 maaliskuu 7;10(5):1005-1011. <https://doi.org/10.1021/acs.jpcllett.9b00065>

Pekkanen TT, Timonen RS, Lendvay G, Rissanen MP, Eskola AJ. **Kinetics and thermochemistry of the reaction of 3-methylpropargyl radical with molecular oxygen.** PROCEEDINGS OF THE COMBUSTION INSTITUTE. 2019 tammi 1;37(1):299-306. <https://doi.org/10.1016/j.proci.2018.05.050>

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

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

Guglielmetti S, Santala V, Mangayil R, Ciranna A, Karp MT. **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, Tian L-Y, Vitos L, Ropo M. **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 M, Kim J, Jung YK, Ruoko T-P, Priimagi A, Walsh A 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 S, Perumbilavil S, Udayabashkar R, Mangalaraja RV, Thomas S, Kalarikkal N 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 S, Tkachenko NV. **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.jpcllett.9b01045>

Lemougna PN, Yliniemi J, Ismailov A, Levänen E, Tanskanen P, Kinnunen P et al. **Spodumene tailings for porcelain and structural materials: Effect of temperature (1050–1200°C) on the sintering and properties.** Minerals Engineering. 2019. 105843. <https://doi.org/10.1016/j.mineng.2019.105843>

Eregowda T, Rene ER, Rintala J, Lens PNL. **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 O, Puton J, Kontunen A, Karjalainen M, Kumpulainen P, Oksala N 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 B, Riihonen V, Vale JR, Valkonen A, Candeias NR. **Synthesis of 6,12-disubstituted methanodibenzo[b,f][1,5]dioxocins: Pyrrolidine catalyzed self-condensation of 2'-Hydroxyacetophenones.** Molecules. 2019;24(13). 2405. <https://doi.org/10.3390/molecules24132405>

Tienaho J, Karonen M, Muilu-Mäkelä R, Wähälä K, Denegri EL, Franzén R 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). 2330. <https://doi.org/10.3390/molecules24122330>

Umeyama T, Hanaoka T, Yamada H, Namura Y, Mizuno S, Ohara T 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 W, Ban J, Feng L, Cheng T, Emmert-Streib F, Dehmer M. **The maximum Hosoya index of unicyclic graphs with diameter at most four.** Symmetry. 2019;11(8). 1034. <https://doi.org/10.3390/sym11081034>

Ghorbani M, Dehmer M, Mowshowitz A, Tao J, Emmert-Streib F. **The Hosoya entropy of graphs revisited.** Symmetry. 2019;11(8). 1013. <https://doi.org/10.3390/sym11081013>

Banerjee SS, Natarajan TS, Subramani B. E, Wießner S, Janke A, Heinrich G et al. **Temperature scanning stress relaxation behavior of water responsive and mechanically adaptive elastomer nanocomposites.** Journal of Applied Polymer Science. 2019. 48344. <https://doi.org/10.1002/app.48344>

Sharma V, Yiannacou K, Karjalainen M, Lahtonen K, Valden M, Sariola V. **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 OB, Cai R, Wang J, Ziouani Y, Liang Z, Spadaro MC 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 M, Zapadinsky E, Zanca T, Kangasluoma J, Myllys N, Rissanen MP 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 U, Sutka A, Oja M, Smits K, Doebelin N, Loot A et al. **Reversible photodoping of TiO₂ nanoparticles.** Chemistry of Materials. 2018 joulu 26;30(24):8968-8974. <https://doi.org/10.1021/acs.chemmater.8b04813>

Czaplicki R, Kiviniemi A, Huttunen MJ, Zang X, Stolt T, Vartiainen I et al. **Less Is More: Enhancement of Second-Harmonic Generation from Metasurfaces by Reduced Nanoparticle Density.** Nano Letters. 2018 joulu 12;18(12):7709-7714. <https://doi.org/10.1021/acs.nanolett.8b03378>

Garifullin M. **Experimental moment resistance of rectangular hollow section T joints.** MATEC Web of Conferences. 2018 joulu 5;245. 08003. <https://doi.org/10.1051/mateconf/201824508003>

Kotila T, Kogan K, Enkavi G, Guo S, Vattulainen I, Goode BL et al. **Structural basis of actin monomer re-charging by cyclase-Associated protein.** Nature Communications. 2018 joulu 1;9(1). 1892. <https://doi.org/10.1038/s41467-018-04231-7>

Perumbilavil S, Piccardi A, Barboza R, Buchnev O, Kauranen M, Strangi G et al. **Beaming random lasers with soliton control.** Nature Communications. 2018 joulu 1;9(1). 3863. <https://doi.org/10.1038/s41467-018-06170-9>

Salmenjoki H, Alava MJ, Laurson L. **Machine learning plastic deformation of crystals**. Nature Communications. 2018 joulu 1;9(1). 5307. <https://doi.org/10.1038/s41467-018-07737-2>

Ferreira SA, Motwani MS, Faull PA, Seymour AJ, Yu TTL, Enayati M et al. **Bi-directional cell-pericellular matrix interactions direct stem cell fate**. Nature Communications. 2018 joulu;9(1). 4049. <https://doi.org/10.1038/s41467-018-06183-4>

Rimpiläinen T, Andrade J, Nunes A, Ntungwe E, Fernandes AS, Vale JR et al. **Aminobenzylated 4-Nitrophenols as Antibacterial Agents Obtained from 5-Nitrosalicylaldehyde through a Petasis Borono-Mannich Reaction**. ACS Omega. 2018 marras 29;3(11):16191-16202. <https://doi.org/10.1021/acsomega.8b02381>

Närhi M, Salmela L, Toivonen J, Billet C, Dudley JM, Genty G. **Machine learning analysis of extreme events in optical fibre modulation instability**. Nature Communications. 2018 marras 22;9(1). <https://doi.org/10.1038/s41467-018-07355-y>

Uusheimo S, Huotari J, Tulonen T, Aalto SL, Rissanen AJ, Arvola L. **High Nitrogen Removal in a Constructed Wetland Receiving Treated Wastewater in a Cold Climate**. Environmental science & technology. 2018 marras 20;52(22):13343-13350. <https://doi.org/10.1021/acs.est.8b03032>

Sakai H, Inaya R, Tkachenko NV, Hasobe T. **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 marras 16;24(64):17062-17071. <https://doi.org/10.1002/chem.201803257>

Rinne J, Keskinen J, Berger PR, Lupo D, Valkama M. **M2M Communication Assessment in Energy-Harvesting and Wake-Up Radio Assisted Scenarios Using Practical Components**. Sensors (Basel, Switzerland). 2018 marras 16;18(11). <https://doi.org/10.3390/s18113992>

Chevrier DM, Raich L, Rovira C, Das A, Luo Z, Yao Q et al. **Molecular-Scale Ligand Effects in Small Gold-Thiolate Nanoclusters**. Journal of the American Chemical Society. 2018 marras 14;140(45):15430-15436. <https://doi.org/10.1021/jacs.8b09440>

Tan LC, Nancharaiyah YV, Lu S, van Hullebusch ED, Gerlach R, Lens PNL. **Biological treatment of selenium-laden wastewater containing nitrate and sulfate in an upflow anaerobic sludge bed reactor at pH 5.0**. Chemosphere. 2018 marras 1;211:684-693. <https://doi.org/10.1016/j.chemosphere.2018.07.079>

Huttunen-Saarivirta E, Isotahdon E, Metsäjoki J, Salminen T, Carpén L, Ronkainen H. **Tribocorrosion behaviour of aluminium bronze in 3.5 wt.% NaCl solution**. Corrosion Science. 2018 marras 1;144:207-223. <https://doi.org/10.1016/j.corsci.2018.08.058>

Tiihonen J, Kylänpää I, Rantala TT. **Computation of Dynamic Polarizabilities and van der Waals Coefficients from Path-Integral Monte Carlo**. Journal of Chemical Theory and Computation. 2018 loka 2;14:5750-5763. <https://doi.org/10.1021/acs.jctc.8b00859>

Heijne AT, Liu D, Sulonen M, Sleutels T, Fabregat-Santiago F. **Quantification of bio-anode capacitance in bioelectrochemical systems using Electrochemical Impedance Spectroscopy**. Journal of Power Sources. 2018 loka 1;400:533-538. <https://doi.org/10.1016/j.jpowsour.2018.08.003>

Rajan R, Rainosalo E, Ramamoorthy SK, Thomas SP, Zavašnik J, Vuorinen J et al. **Mechanical, thermal, and burning properties of viscose fabric composites: Influence of epoxy resin modification**. Journal of Applied Polymer Science. 2018 syys 20;135(36). 46673. <https://doi.org/10.1002/app.46673>

Jermakka J, Thompson Brewster E, Ledezma P, Freguia S. **Electro-concentration for chemical-free nitrogen capture as solid ammonium bicarbonate**. Separation and Purification Technology. 2018 syys 12;203:48-55. <https://doi.org/10.1016/j.seppur.2018.04.023>

Nieminen V, Karjalainen M, Salminen K, Rantala J, Kontunen A, Isokoski P et al. **A compact olfactometer for IMS measurements and testing human perception.** International Journal for Ion Mobility Spectrometry. 2018 syys;21(3):71-80. <https://doi.org/10.1007/s12127-018-0235-1>

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

Mandal S, Garcia Iglesias M, Ince M, Torres T, Tkachenko NV. **Photoinduced Energy Transfer in ZnCdSeS Quantum Dot-Phthalocyanines Hybrids.** ACS Omega. 2018 elo 31;3(8):10048-10057. <https://doi.org/10.1021/acsomega.8b01623>

Tan LC, Espinosa-Ortiz EJ, Nancharaiah YV, van Hullebusch ED, Gerlach R, Lens PN. **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 elo;93(8):2380-2389. <https://doi.org/10.1002/jctb.5586>

Hiltunen A, Ruoko T-P, Iivonen T, Lahtonen K, Ali-Löytty H, Sarlin E et al. **Design aspects of all atomic layer deposited TiO₂-Fe₂O₃ scaffold-absorber photoanodes for water splitting.** Sustainable Energy & Fuels. 2018 heinä 31;2(9):2124-2130. <https://doi.org/10.1039/C8SE00252E>

Rajala S, Schouten M, Krijnen G, Tuukkanen S. **High Bending-Mode Sensitivity of Printed Piezoelectric Poly(vinylidene fluoride-co-trifluoroethylene) Sensors.** ACS Omega. 2018 heinä 23;3(7):8067-8073. <https://doi.org/10.1021/acsomega.8b01185>

Laurén P, Paukkonen H, Lipiäinen T, Dong Y, Oksanen T, Räikkönen H et al. **Pectin and Mucin Enhance the Bioadhesion of Drug Loaded Nanofibrillated Cellulose Films.** Pharmaceutical Research. 2018 heinä 1;35(7). 145. <https://doi.org/10.1007/s11095-018-2428-z>

Siljander S, Keinänen P, Rätty A, Ramakrishnan KR, Tuukkanen S, Kunnari V 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 kesä 20;19(6). 1819. <https://doi.org/10.3390/ijms19061819>

Nair AK, Bhavitha KB, Perumbilavil S, Sankar P, Rouxel D, Kala MS 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 kesä 1;132:380-393. <https://doi.org/10.1016/j.carbon.2018.02.068>

George L, Hiltunen A, Santala V, Efimov A. **Photo-antimicrobial efficacy of zinc complexes of porphyrin and phthalocyanine activated by inexpensive consumer LED lamp.** Journal of Inorganic Biochemistry. 2018 kesä 1;183:94-100. <https://doi.org/10.1016/j.jinorgbio.2018.03.015>

Pirhonen M, Peltokangas M, Vehkaoja A. **Acquiring respiration rate from photoplethysmographic signal by recursive bayesian tracking of intrinsic modes in time-frequency spectra.** Sensors. 2018 kesä 1;18(6). 1693. <https://doi.org/10.3390/s18061693>

Virtanen J, Somppi S, Törnqvist H, Jeyhani V, Fiedler P, Gizatdinova Y et al. **Evaluation of dry electrodes in canine heart rate monitoring.** Sensors. 2018 kesä 1;18(6). 1757. <https://doi.org/10.3390/s18061757>

Virkki K, Tervola E, Medel M, Torres T, Tkachenko NV. **Effect of Co-Adsorbate and Hole Transporting Layer on the Photoinduced Charge Separation at the TiO₂-Phthalocyanine Interface.** ACS Omega. 2018 touko 31;3(5):4947-4958. <https://doi.org/10.1021/acsomega.8b00600>

Zhou K, Dichlberger A, Martinez-Seara H, Nyholm TKM, Li S, Kim YA et al. **A Ceramide-Regulated Element in the Late Endosomal Protein LAPTM4B Controls Amino Acid Transporter Interaction.** ACS Central Science. 2018 touko 23;4(5):548-558. <https://doi.org/10.1021/acscentsci.7b00582>

Raappana M, Polojärvi V, Aho A, Mäkelä J, Aho T, Tukiainen A et al. **Wet etching of dilute nitride GaInNAs, GaInNAsSb, and GaNAsSb alloys lattice-matched to GaAs.** Corrosion Science. 2018 touko 15;136:268-274. <https://doi.org/10.1016/j.corsci.2018.03.018>

Manninen H, Rotola-Pukkila M, Aisala H, Hopia A, Laaksonen T. **Free amino acids and 5'-nucleotides in Finnish forest mushrooms.** Food Chemistry. 2018 touko;247:23-28. <https://doi.org/10.1016/j.foodchem.2017.12.014>

Harra J, Tuominen M, Juuti P, Rissler J, Koivuluoto H, Haapanen J et al. **Characteristics of nFOG, an aerosol-based wet thin film coating technique.** Journal of Coatings Technology Research. 2018 touko;15(3):623-632. <https://doi.org/10.1007/s11998-017-0022-7>

Melcr J, Martinez-Seara H, Nencini R, Kolafa J, Jungwirth P, Ollila OHS. **Accurate Binding of Sodium and Calcium to a POPC Bilayer by Effective Inclusion of Electronic Polarization.** Journal of Physical Chemistry B. 2018 huhti 26;122(16):4546-4557. <https://doi.org/10.1021/acs.jpcc.7b12510>

Khan M, Koivisto J, Hukka T, Hokka M, Kellomäki M. **Composite Hydrogels Using Bioinspired Approach with in Situ Fast Gelation and Self-Healing Ability as Future Injectable Biomaterial.** ACS Applied Materials & Interfaces. 2018 huhti 11;10(14):11950-11960. <https://doi.org/10.1021/acsami.8b01351>

Magarkar A, Parkkila P, Viitala T, Lajunen T, Mobarak E, Licari G et al. **Membrane bound COMT isoform is an interfacial enzyme: General mechanism and new drug design paradigm.** Chemical Communications. 2018 huhti 11;54(28):3440-3443. <https://doi.org/10.1039/c8cc00221e>

Sassatelli P, Bolelli G, Lassinantti Gualtieri M, Heinonen E, Honkanen M, Lusvarghi L et al. **Properties of HVOF-sprayed Stellite-6 coatings.** Surface and Coatings Technology. 2018 maaliskuu 25;338:45-62. <https://doi.org/10.1016/j.surfcoat.2018.01.078>

Poutanen M, Ahmed Z, Rautkari L, Ikkala O, Priimägi A. **Thermal Isomerization of Hydroxyazobenzenes as a Platform for Vapor Sensing.** ACS Macro Letters. 2018 maaliskuu 20;7(3):381-386. <https://doi.org/10.1021/acsmacrolett.8b00093>

Janka L, Berger LM, Norpoth J, Trache R, Thiele S, Tomastik C et al. **Improving the high temperature abrasion resistance of thermally sprayed Cr₃C₂-NiCr coatings by WC addition.** Surface and Coatings Technology. 2018 maaliskuu 15;337:296-305. <https://doi.org/10.1016/j.surfcoat.2018.01.035>

Karvinen J, Joki T, Ylä-Outinen L, Koivisto JT, Narkilahti S, Kellomäki M. **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 maaliskuu 1;124:29-39. <https://doi.org/10.1016/j.reactfunctpolym.2017.12.019>

Hannula M, Ali-Löytty H, Lahtonen K, Sarlin E, Saari J, Valden M. **Improved Stability of Atomic Layer Deposited Amorphous TiO₂ Photoelectrode Coatings by Thermally Induced Oxygen Defects.** Chemistry of Materials. 2018 helmikuu 27;30(4):1199-1208. <https://doi.org/10.1021/acs.chemmater.7b02938>

Mehrang S, Pietilä J, Korhonen I. **An activity recognition framework deploying the random forest classifier and a single optical heart rate monitoring and triaxial accelerometer wrist-band.** Sensors. 2018 helmikuu 22;18(2). 613. <https://doi.org/10.3390/s18020613>

Kainulainen TP, Sirviö JA, Sethi J, Hukka TI, Heiskanen JP. **UV-Blocking Synthetic Biopolymer from Biomass-Based Bifuran Diester and Ethylene Glycol.** Macromolecules. 2018 helmikuu 21;51(5):1822-1829. <https://doi.org/10.1021/acs.macromol.7b02457>

Vale JR, Rimpiläinen T, Sievänen E, Rissanen K, Afonso CAM, Candeias NR. **Pot-economy autooxidative condensation of 2-Aryl-2-lithio-1,3-dithianes.** Journal of Organic Chemistry. 2018 helmikuu 16;83(4):1948-1958. <https://doi.org/10.1021/acs.joc.7b02896>

Vaikuntam SR, Stöckelhuber KW, Subramani Bhagavatheswaran E, Wießner S, Scheler U, Saalwächter K et al. **Entrapped Styrene Butadiene Polymer Chains by Sol-Gel-Derived Silica Nanoparticles with Hierarchical Raspberry Structures**. *Journal of Physical Chemistry B*. 2018 helmi 15;122(6):2010-2022. <https://doi.org/10.1021/acs.jpcc.7b11792>

Iantovics LB, Dehmer M, Emmert-Streib F. **MetrlntSimil-an accurate and robust metric for comparison of similarity in intelligence of any number of cooperative multiagent systems**. *Symmetry*. 2018 helmi 1;10(2). 48. <https://doi.org/10.3390/sym10020048>

Barreca D, Carraro G, Maccato C, Altantzis T, Kaunisto K, Gasparotto A. **Controlled Growth of Supported ZnO Inverted Nanopyramids with Downward Pointing Tips**. *Crystal Growth and Design*. 2018 helmi;18(4):2579-2587. <https://doi.org/10.1021/acs.cgd.8b00198>

Das A, Sallat A, Böhme F, Sarlin E, Vuorinen J, Vennemann N et al. **Temperature scanning stress relaxation of an autonomous self-healing elastomer containing non-covalent reversible network junctions**. *Polymers*. 2018 tammi 19;10(1). 94. <https://doi.org/10.3390/polym10010094>

Kato D, Sakai H, Araki Y, Wada T, Tkachenko NV, Hasobe T. **Concentration-dependent photophysical switching in mixed self-assembled monolayers of pentacene and peryleneimide on gold nanoclusters**. *Physical Chemistry Chemical Physics*. 2018 tammi 1;20(13):8695-8706. <https://doi.org/10.1039/c8cp00174j>

Ojha N, Tuomisto M, Lastusaari M, Petit L. **Upconversion from fluorophosphate glasses prepared with NaYF₄:Er³⁺, Yb³⁺ nanocrystals**. *RSC Advances*. 2018 tammi 1;8(34):19226-19236. <https://doi.org/10.1039/c8ra03298j>

Saccone M, Kuntze K, Ahmed Z, Siiskonen A, Giese M, Priimagi A. **Ortho-Fluorination of azophenols increases the mesophase stability of photoresponsive hydrogen-bonded liquid crystals**. *Journal of Materials Chemistry C*. 2018 tammi 1;6(37):9958-9963. <https://doi.org/10.1039/c8tc02611d>

Shakun A, Poikelispää M, Das A, Vuorinen J. **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 R, Rainosalto E, Thomas SP, Ramamoorthy SK, Zavašnik J, Vuorinen J 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 TRKC, Jain R, Praveenkumar R, Rintala J, Romar H, Konttinen J. **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 M, Wang J, Kärkkäinen M, Huuhtanen M, Jiang H, Kallinen K 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 P, Porca E, Haavisto J, Lakaniemi A-M, Collins G, Lens PNL. **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, Nguyen H, Laihin T, Salminen T, Lastusaari M, Petit L. **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 V, Kaleva A, Paunikallio T, Nikkanen J-P, Heinonen S, Levänen E 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 SS, Joshi KA, Mahajan K, Patil S, Tomar G, Dubal DS et al. **Gloriosa superba Mediated Synthesis of Platinum and Palladium Nanoparticles for Induction of Apoptosis in Breast Cancer.** Bioinorganic Chemistry and Applications. 2018;2018. 4924186. <https://doi.org/10.1155/2018/4924186>

Tienaho J, Poikulainen E, Sarjala T, Muilu-Mäkelä R, Santala V, Karp M. **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 L, Condorelli M, Puglisi O, Tempra C, Lolicato F, Compagnini G 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 H, Mpamah PA, Rissanen AJ. **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 I, Mikkonen T, Vainio M, Toivonen J, Foltynowicz A. **Optical frequency comb photoacoustic spectroscopy.** Physical Chemistry Chemical Physics. 2018;20(44):27849-27855. <https://doi.org/10.1039/c8cp05666h>

Durandin NA, Isokuortti J, Efimov A, Vuorimaa-Laukkanen E, Tkachenko NV, Laaksonen T. **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 M, Maurice A, Forni A, Sironi M, Dichiarante V, Brevet PF 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 V, Kaleva A, Nikkanen J-P, Heinonen S, Levänen E, Väisänen P et al. **Supercritical carbon dioxide treatment of hot dip galvanized steel as a surface treatment before coating.** Surface and Coatings Technology. 2017 joulu 15;331:137-142. <https://doi.org/10.1016/j.surfcoat.2017.10.047>

Lisitsyna ES, Ketola T-M, Morin-Picardat E, Liang H, Hanzlíková M, Urtti A 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 joulu 7;121(48):10782-10792. <https://doi.org/10.1021/acs.jpcc.7b08394>

Liimatainen V, Vuckovac M, Jokinen V, Sariola V, Hokkanen MJ, Zhou Q et al. **Mapping microscale wetting variations on biological and synthetic water-repellent surfaces.** Nature Communications. 2017 joulu 1;8(1). 1798. <https://doi.org/10.1038/s41467-017-01510-7>

Christophliemk H, Johansson C, Ullsten H, Järnström L. **Oxygen and water vapor transmission rates of starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper.** Progress in Organic Coatings. 2017 joulu 1;113:218-224. <https://doi.org/10.1016/j.porgcoat.2017.04.019>

Sippola RJ, Hadipour A, Kastinen T, Vivo P, Hukka TI, Aernouts T et al. **Carbazole-based small molecule electron donors: Syntheses, characterization, and material properties.** Dyes and Pigments. 2017 marras 8;150:79-88. <https://doi.org/10.1016/j.dyepig.2017.11.014>

Danne R, Poojari C, Martinez-Seara H, Rissanen S, Lolicato F, Róg T 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 loka 23;57(10):2401-2406. <https://doi.org/10.1021/acs.jcim.7b00237>

Christophliemk H, Ullsten H, Johansson C, Järnström L. **Starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper and their effects of phase interactions.** Progress in Organic Coatings. 2017 loka 1;111:13-22. <https://doi.org/10.1016/j.porgcoat.2017.04.018>

Isakov M, Matikainen V, Koivuluoto H, May M. **Systematic analysis of coating-substrate interactions in the presence of flow localization.** Surface and Coatings Technology. 2017 syys 15;324:264-280. <https://doi.org/10.1016/j.surfcoat.2017.05.040>

Timr Š, Pleskot R, Kadlec J, Kohagen M, Magarkar A, Jungwirth P. **Membrane Binding of Recoverin: From Mechanistic Understanding to Biological Functionality.** ACS Central Science. 2017 elo 23;3(8):868-874. <https://doi.org/10.1021/acscentsci.7b00210>

Pirjola L, Rönkkö T, Saukko E, Parviainen H, Malinen A, Alanen J et al. **Exhaust emissions of non-road mobile machine: Real-world and laboratory studies with diesel and HVO fuels.** Fuel. 2017 elo 15;202:154-164. <https://doi.org/10.1016/j.fuel.2017.04.029>

Itävuori P, Hulthén E, Vilkkonen M. **Feed-hopper level estimation and control in cone crushers.** Minerals Engineering. 2017 elo 15;110:82-95. <https://doi.org/10.1016/j.mineng.2017.04.010>

Rahaman O, Kalimeri M, Katava M, Paciaroni A, Sterpone F. **Configurational Disorder of Water Hydrogen-Bond Network at the Protein Dynamical Transition.** Journal of Physical Chemistry Part B. 2017 heinä 20;121(28):6792-6798. <https://doi.org/10.1021/acs.jpcc.7b03888>

Poikelispää M, Shakun A, Sarlin E, Das A, Vuorinen J. **Vegetable fillers for electric stimuli responsive elastomers.** Journal of Applied Polymer Science. 2017 heinä 20;134(28). 45081. <https://doi.org/10.1002/app.45081>

Suominen M, Lehtimäki S, Yewale R, Damlin P, Tuukkanen S, Kvarnström C. **Electropolymerized polyazulene as active material in flexible supercapacitors.** Journal of Power Sources. 2017 heinä 15;356:181-190. <https://doi.org/10.1016/j.jpowsour.2017.04.082>

Nogueira IBR, Ribeiro AM, Martins MAF, Rodrigues AE, Koivisto H, Loureiro JM. **Dynamics of a True Moving Bed separation process: Linear model identification and advanced process control.** Journal of Chromatography A. 2017 kesä 30;1504. <https://doi.org/10.1016/j.chroma.2017.04.060>

Baek J, Umeyama T, Stranius K, Yamada H, Tkachenko NV, Imahori H. **Long-Range Observation of Exciplex Formation and Decay Mediated by One-Dimensional Bridges.** Journal of Physical Chemistry C. 2017 kesä 29;121(25):13952-13961. <https://doi.org/10.1021/acs.jpcc.7b04483>

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

Ma L, Laasonen K, Akola J. **Catalytic Activity of AuCu Clusters on MgO(100): Effect of Alloy Composition for CO Oxidation.** Journal of Physical Chemistry C. 2017 touko 25;121(20):10876-10886. <https://doi.org/10.1021/acs.jpcc.6b12054>

Goh J-Q, Akola J, Ferrando R. **Geometric Structure and Chemical Ordering of Large AuCu Clusters: A Computational Study.** Journal of Physical Chemistry C. 2017 touko 25;121(20):10809-10816. <https://doi.org/10.1021/acs.jpcc.6b11958>

Piccardi A, Alberucci A, Kravets N, Buchnev O, Assanto G. **Nematicon-enhanced spontaneous symmetry breaking.** Molecular Crystals and Liquid Crystals. 2017 touko 24;649(1):59-65. <https://doi.org/10.1080/15421406.2017.1303916>

Jones RO, Ahlstedt O, Akola J, Ropo M. **Density functional study of structure and dynamics in liquid antimony and Sb_n clusters.** Journal of Chemical Physics. 2017 touko 21;146(19). 194502. <https://doi.org/10.1063/1.4983219>

Kramb J, Gómez-Barea A, DeMartini N, Romar H, Doddapaneni TRKC, Konttinen J. **The effects of calcium and potassium on CO₂ gasification of birch wood in a fluidized bed.** Fuel. 2017 touko 15;196:398-407. <https://doi.org/10.1016/j.fuel.2017.01.101>

- Virkki K, Hakola H, Urbani M, Tejerina L, Ince M, Martínez-Díaz MV et al. **Photoinduced Electron Injection from Zinc Phthalocyanines into Zinc Oxide Nanorods: Aggregation Effects.** *Journal of Physical Chemistry C.* 2017 touko 4;121(17):9594-9605. <https://doi.org/10.1021/acs.jpcc.7b01562>
- Honkanen M, Hansen TW, Jiang H, Kärkkäinen M, Huuhtanen M, Heikkinen O et al. **Electron microscopic studies of natural gas oxidation catalyst – Effects of thermally accelerated aging on catalyst microstructure.** *Journal of Catalysis.* 2017 touko 1;349:19-29. <https://doi.org/10.1016/j.jcat.2017.03.003>
- Mah PT, Novakovic D, Saarinen J, van Landeghem S, Peltonen L, Laaksonen T et al. **Elucidation of Compression-Induced Surface Crystallization in Amorphous Tablets Using Sum Frequency Generation (SFG) Microscopy.** *Pharmaceutical Research.* 2017 touko;34(5):957-970. <https://doi.org/10.1007/s11095-016-2046-6>
- Higashino T, Nakatsuji H, Fukuda R, Okamoto H, Imai H, Matsuda T et al. **Hexaphyrin as a Potential Theranostic Dye for Photothermal Therapy and ^{19}F Magnetic Resonance Imaging.** *ChemBioChem.* 2017 maaliskuu 24;18(10):951-959. <https://doi.org/10.1002/cbic.201700071>
- Bilkova E, Pleskot R, Rissanen S, Sun S, Czogalla A, Cwiklik L et al. **Calcium Directly Regulates Phosphatidylinositol 4,5-Bisphosphate Headgroup Conformation and Recognition.** *Journal of the American Chemical Society.* 2017 maaliskuu 22;139(11):4019-4024. <https://doi.org/10.1021/jacs.6b11760>
- Milani R, Houbenov N, Fernandez-Palacio F, Cavallo G, Luzio A, Haataja J et al. **Hierarchical Self-Assembly of Halogen-Bonded Block Copolymer Complexes into Upright Cylindrical Domains.** *CheM.* 2017 maaliskuu 9;2(3):417-426. <https://doi.org/10.1016/j.chempr.2017.02.003>
- Guixà-González R, Albasanz JL, Rodríguez-Espigares I, Pastor M, Sanz F, Martí-Solano M et al. **Membrane cholesterol access into a G-protein-coupled receptor.** *Nature Communications.* 2017 helmikuu 21;8: 14505. <https://doi.org/10.1038/ncomms14505>
- Izdebskaya Y, Shvedov V, Assanto G, Krolikowski W. **Magnetic routing of light-induced waveguides.** *Nature Communications.* 2017 helmikuu 15;8: 14452. <https://doi.org/10.1038/ncomms14452>
- Siiskonen A, Priimägi A. **Benchmarking DFT methods with small basis sets for the calculation of halogen-bond strengths.** *Journal of Molecular Modeling.* 2017 helmikuu 1;23(2). 50. <https://doi.org/10.1007/s00894-017-3212-4>
- Balanta MAG, Orsi Gordo V, Carvalho ARH, Puustinen J, Alghamdi HM, Henini M et al. **Polarization resolved photoluminescence in GaAs_{1-y}Bi_y/GaAs quantum wells.** *Journal of Luminescence.* 2017 helmikuu;182:49-52. <https://doi.org/10.1016/j.jlumin.2016.10.008>
- Kovács PT, Zare A, Balogh T, Bregovic R, Gotchev A. **Architectures and codecs for real-time light field streaming.** *Journal of Imaging Science and Technology.* 2017 tammi 1;61(1). 010403. <https://doi.org/10.2352/J.ImagingSci.Technol.2017.61.1.010403>
- Vuori L, Ali-Löytty H, Lahtonen K, Hannula M, Lehtonen E, Niu Y 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 I, Valkonen A, Rzaigui M, Smirani W. **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 VV, Nazarchuk BV, Golovanova VV, Tkachenko NV, Rantala TT. **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 E, Pertuz S, Arguello H. **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, Ojha N, Erasmus E, Hannula M, Hokka M, Hyttinen J 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 M, Melcrova A, Magarkar A, Jurkiewicz P, Hof M, Jungwirth P 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 J, Siiskonen A, Dichiarante V, Forni A, Saccone M, Pilati T 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 M, Palacio FF, Cavallo G, Dichiarante V, Virkki M, Terraneo G 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 J, Umeyama T, Mizuno S, Tkachenko NV, Imahori H. **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 AA, Naghashzadegan M, Javaherdeh K, Khoshgoftar M. **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. 4210184. <https://doi.org/10.1155/2017/4210184>
- Ntziachristos L, Saukko E, Lehtoranta K, Rönkkö T, Timonen H, Simonen P et al. **Particle emissions characterization from a medium-speed marine diesel engine with two fuels at different sampling conditions.** *Fuel.* 2016 joulu 15;186:456-465. <https://doi.org/10.1016/j.fuel.2016.08.091>
- Varis T, Suhonen T, Caloniuss O, Čuban J, Pietola M. **Optimization of HVOF Cr₃C₂-NiCr coating for increased fatigue performance.** *Surface and Coatings Technology.* 2016 marras 15;305:123-131. <https://doi.org/10.1016/j.surfcoat.2016.08.012>
- Ropo M, Akola J, Jones RO. **Collective excitations and viscosity in liquid Bi.** *Journal of Chemical Physics.* 2016 marras 14;145(18). 184502. <https://doi.org/10.1063/1.4965429>
- Poikelispää M, Shakun A, Das A, Vuorinen J. **Improvement of actuation performance of dielectric elastomers by barium titanate and carbon black fillers.** *Journal of Applied Polymer Science.* 2016 marras 10;133(42). 44116. <https://doi.org/10.1002/app.44116>
- Smith JD, Mitsakou C, Kitwiroon N, Barratt BM, Walton HA, Taylor JG 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 marras 1;50(21):11760-11768. <https://doi.org/10.1021/acs.est.6b01817>
- Ali-Löytty H, Hannula M, Honkanen M, Östman K, Lahtonen K, Valden M. **Grain orientation dependent Nb-Ti microalloying mediated surface segregation on ferritic stainless steel.** *Corrosion Science.* 2016 marras;112:204-213. <https://doi.org/10.1016/j.corsci.2016.07.024>
- Reisberg L, Pärna R, Kikas A, Kuusik I, Kisand V, Hirsimäki M et al. **UPS and DFT investigation of the electronic structure of gas-phase trimesic acid.** *Journal of Electron Spectroscopy and Related Phenomena.* 2016 marras;213:11-16. <https://doi.org/10.1016/j.elspec.2016.10.004>

Will OM, Purcz N, Chalaris A, Heneweer C, Boretius S, Purcz L et al. **Increased survival rate by local release of diclofenac in a murine model of recurrent oral carcinoma.** International Journal of Nanomedicine. 2016 loka 12;11:5311-5321. <https://doi.org/10.2147/IJN.S109199>

Kramb J, Konttinen J, Backman R, Salo K, Roberts M. **Elimination of arsenic-containing emissions from gasification of chromated copper arsenate wood.** Fuel. 2016 loka 1;181:319-324. <https://doi.org/10.1016/j.fuel.2016.04.109>

Zhou Q, Sariola V, Latifi K, Liimatainen V. **Controlling the motion of multiple objects on a Chladni plate.** Nature Communications. 2016 syys 9;7: 12764. <https://doi.org/10.1038/ncomms12764>

Robison AD, Sun S, Poyton MF, Johnson GA, Pellois JP, Jungwirth P et al. **Polyarginine Interacts More Strongly and Cooperatively than Polylysine with Phospholipid Bilayers.** Journal of Physical Chemistry Part B. 2016 syys 8;120(35):9287-9296. <https://doi.org/10.1021/acs.jpcc.6b05604>

Pilehrood MK, Atashi A, Sadeghi-Aliabadi H, Nousiainen P, Harlin A. **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 syys 1;16(9):9000-9007. <https://doi.org/10.1166/jnn.2016.12740>

Mylläri V, Hartikainen S, Poliakova V, Anderson R, Jönkkäri I, Pasanen P et al. **Detergent impurity effect on recycled HDPE: Properties after repetitive processing.** Journal of Applied Polymer Science. 2016 elo 15;133(31). 43766. <https://doi.org/10.1002/app.43766>

Garifullin M, Sinelnikov A, Bronzova M, Kovacic B, Kamnik R. **Buckling Behavior of Cold-Formed Studs with Thermal Perforations.** MATEC Web of Conferences. 2016 elo 11;73: 04011. <https://doi.org/10.1051/mateconf/20167304011>

Kapgate BP, Das C, Das A, Basu D, Wiessner S, Reuter U 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 elo 10;133(30). 43717. <https://doi.org/10.1002/app.43717>

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

Kärkkäinen M, Kolli T, Honkanen M, Heikkinen O, Väliheikki A, Huuhtanen M et al. **The Influence of Phosphorus Exposure on a Natural-Gas-Oxidation Catalyst.** Topics in Catalysis. 2016 heinä 1;59(10-12):1044-1048. <https://doi.org/10.1007/s11244-016-0587-x>

Poutanen M, Ikkala O, Priimägi A. **Structurally Controlled Dynamics in Azobenzene-Based Supramolecular Self-Assemblies in Solid State.** Macromolecules. 2016 kesä 14;49(11):4095-4101. <https://doi.org/10.1021/acs.macromol.6b00562>

Isotahdon E, Huttunen-Saarivirta E, Kuokkala V-T. **Development of Magnetic Losses During Accelerated Corrosion Tests for Nd-Fe-B Magnets Used in Permanent Magnet Generators.** Corrosion. 2016 kesä 1;72(6):732-741. <https://doi.org/10.5006/2037>

Razavi A, Valkama M, Lohan ES. **Robust statistical approaches for RSS-based floor detection in indoor localization.** Sensors. 2016 kesä 1;16(6). 793. <https://doi.org/10.3390/s16060793>

Sharma R, Bhalerao S, Gupta D. **Effect of incorporation of CdS NPs on performance of PTB7: PCBM organic solar cells.** Organic Electronics: physics, materials, applications. 2016 kesä 1;33:274-280. <https://doi.org/10.1016/j.orgel.2016.03.030>

Soto AM, Koivisto JT, Parraga JE, Silva-Correia J, Oliveira JM, Reis RL et al. **Optical Projection Tomography Technique for Image Texture and Mass Transport Studies in Hydrogels Based on Gellan Gum**. *Langmuir*. 2016 touko 24;32(20):5173-5182. <https://doi.org/10.1021/acs.langmuir.6b00554>

La Rosa C, Scalisi S, Lolicato F, Pannuzzo M, Raudino A. **Lipid-assisted protein transport: A diffusion-reaction model supported by kinetic experiments and molecular dynamics simulations**. *Journal of Chemical Physics*. 2016 touko 14;144(18). 184901. <https://doi.org/10.1063/1.4948323>

Hakola H, Sariola-Leikas E, Efimov A, Tkachenko NV. **Effect of Hole Transporting Material on Charge Transfer Processes in Zinc Phthalocyanine Sensitized ZnO Nanorods**. *Journal of Physical Chemistry C*. 2016 huhti 21;120(13):7044-7051. <https://doi.org/10.1021/acs.jpcc.6b01583>

Janka L, Norpoth J, Trache R, Berger LM. **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 huhti 15;291:444-451. <https://doi.org/10.1016/j.surfcoat.2016.02.066>

Fernandez-Palacio F, Saccone M, Priimägi A, Terraneo G, Pilati T, Metrangolo P et al. **Coordination networks incorporating halogen-bond donor sites and azobenzene groups**. *CrystEngComm*. 2016 huhti 7;18(13):2251-2257. <https://doi.org/10.1039/c6ce00059b>

Isakov M, Kokkonen J, Östman K, Kuokkala V-T. **Strain rate change tests with the Split Hopkinson Bar method**. *European Physical Journal. Special Topics*. 2016 huhti 1;225(2):231-242. <https://doi.org/10.1140/epjst/e2015-99999-x>

Ma L, Melander M, Weckman T, Lipasti S, Laasonen K, Akola J. **DFT simulations and microkinetic modelling of 1-pentyne hydrogenation on Cu₂₀ model catalysts**. *Journal of Molecular Graphics and Modelling*. 2016 huhti 1;65:61-70. <https://doi.org/10.1016/j.jmgs.2016.02.007>

Viljanen J, Sun Z, Alwahabi ZT. **Microwave assisted laser-induced breakdown spectroscopy at ambient conditions**. *Spectrochimica Acta Part B: Atomic Spectroscopy*. 2016 huhti 1;118:29-36. <https://doi.org/10.1016/j.sab.2016.02.002>

Mal J, Nancharaiyah YV, Van Hullebusch ED, Lens PNL. **Metal chalcogenide quantum dots: Biotechnological synthesis and applications**. *RSC Advances*. 2016 huhti;6(47):41477-41495. <https://doi.org/10.1039/c6ra08447h>

Sakuma T, Sakai H, Araki Y, Mori T, Wada T, Tkachenko NV et al. **Long-Lived Triplet Excited States of Bent-Shaped Pentacene Dimers by Intramolecular Singlet Fission**. *Journal of Physical Chemistry A*. 2016 maaliskuu 31;120(11):1867-1875. <https://doi.org/10.1021/acs.jpca.6b00988>

Katava M, Kalimeri M, Stirnemann G, Sterpone F. **Stability and Function at High Temperature. What Makes a Thermophilic GTPase Different from Its Mesophilic Homologue**. *Journal of Physical Chemistry Part B*. 2016 maaliskuu 17;120(10):2721-2730. <https://doi.org/10.1021/acs.jpcc.6b00306>

Szabo HM, Lepistö R, Tuhkanen T. **HPLC-SEC: a new approach to characterise complex wastewater effluents**. *International Journal of Environmental Analytical Chemistry*. 2016 helmikuu 19;96(3):257-270. <https://doi.org/10.1080/03067319.2016.1150463>

Salunke JK, Wong FL, Feron K, Manzhos S, Lo MF, Shinde D et al. **Phenothiazine and carbazole substituted pyrene based electroluminescent organic semiconductors for OLED devices**. *Journal of Materials Chemistry C*. 2016 helmikuu 7;4(5):1009-1018. <https://doi.org/10.1039/c5tc03690a>

Ali-Löytty H, Louie MW, Singh MR, Li L, Sanchez Casalongue HG, Ogasawara H et al. **Ambient-Pressure XPS Study of a Ni-Fe Electrocatalyst for the Oxygen Evolution Reaction**. *Journal of Physical Chemistry C*. 2016 helmikuu 4;120(4):2247-2253. <https://doi.org/10.1021/acs.jpcc.5b10931>

- Allolio C, Baxova K, Vazdar M, Jungwirth P. **Guanidinium Pairing Facilitates Membrane Translocation**. *Journal of Physical Chemistry Part B*. 2016 tammi 14;120(1):143-153. <https://doi.org/10.1021/acs.jpcc.5b10404>
- Pirjola L, Dittrich A, Niemi JV, Saarikoski S, Timonen H, Kuuluvainen H et al. **Physical and Chemical Characterization of Real-World Particle Number and Mass Emissions from City Buses in Finland**. *Environmental Science and Technology*. 2016 tammi 5;50(1):294-304. <https://doi.org/10.1021/acs.est.5b04105>
- Rocherullé J, Massera J, Oudadesse H, Calvez L, Trolès J, Zhang XH. **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 V, Golovanova V, Rantala TT. **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.jpcs.2015.10.010>
- Higashino T, Yamada T, Yamamoto M, Furube A, Tkachenko NV, Miura T 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 R, Dominic D, Jordan N, Rene ER, Weiss S, van Hullebusch ED 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 FMF, Rosa JN, Candeias NR, Carvalho CP, Matos AI, Ventura AE 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 S, Yamazoe S, Goh J-Q, Akola J, Tsukuda T. **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 W, Cwiklik L, Jurkiewicz P, Rog T, Vattulainen I. **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 D, Sakai H, Tkachenko NV, Hasobe T. **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 G, Terraneo G, Monfredini A, Saccone M, Priimägi A, Pilati T 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 ND, Kapgate BP, Das C, Das A, Basu D, Debnath SC. **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 H, Sakai H, Araki Y, Sakanoue T, Takenobu T, Wada T 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 D, Das A, Wang DY, George JJ, Stöckelhuber KW, Boldt R 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 TY, Ramasamy P, Oh YK, Lee K, Kim SH. **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 A, Kandambeth S, Biswal BP, Kaur G, Roy NC, Addicoat M 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 N, Aizawa M, Tatsumi R, Hisano K, Priimägi A, Shishido A. **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 D, Patrikoski M, Verho J, Sivula J, Ihalainen H, Miettinen S 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, Niskanen M, Risko C, Cramariuc O, Hukka TI. **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 A, Jain R, Chung JW, Gerner G, Krebs R, Lens PNL. **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 S, Sridharan K, Abraham AR, Janardhanan HP, Kalarikkal N, Philip R. **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 AC, Valkonen A, Rzaigui M, Smirani W. **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 joulu 15;1102:50-56. <https://doi.org/10.1016/j.molstruc.2015.08.044>

Alanen J, Saukko E, Lehtoranta K, Murtonen T, Timonen H, Hillamo R et al. **The formation and physical properties of the particle emissions from a natural gas engine.** Fuel. 2015 joulu 15;162:155-161. <https://doi.org/10.1016/j.fuel.2015.09.003>

Mäki AJ, Peltokangas M, Kreutzer J, Auvinen S, Kallio P. **Modeling carbon dioxide transport in PDMS-based microfluidic cell culture devices.** Chemical Engineering Science. 2015 joulu 1;137:515-524. <https://doi.org/10.1016/j.ces.2015.06.065>

Ihalainen TO, Aires L, Herzog FA, Schwartlander R, Moeller J, Vogel V. **Differential basal-to-apical accessibility of lamin A/C epitopes in the nuclear lamina regulated by changes in cytoskeletal tension.** Nature Materials. 2015 joulu 1;14(12):1252-1261. <https://doi.org/10.1038/nmat4389>

Kaouk A, Ruoko TP, Gönüllü Y, Kaunisto K, Mettenböcker A, Gurevich E et al. **Graphene-intercalated Fe₂O₃/TiO₂ heterojunctions for efficient photoelectrolysis of water.** RSC Advances. 2015 marras 13;5(123):101401-101407. <https://doi.org/10.1039/c5ra18330h>

Seo JY, Lee K, Ramasamy P, Kim B, Lee SY, Oh YK et al. **Tri-functionality of Fe₃O₄-embedded carbon microparticles in microalgae harvesting.** Chemical Engineering Journal. 2015 marras 5;280:206-214. <https://doi.org/10.1016/j.cej.2015.05.122>

Le HH, Parsaker M, Sriharish MN, Henning S, Menzel M, Wießner S et al. **Effect of rubber polarity on selective wetting of carbon nanotubes in ternary blends.** Express Polymer Letters. 2015 marras 1;9(11):960-971. <https://doi.org/10.3144/expresspolymlett.2015.87>

Zorzi GK, Párraga JE, Seijo B, Sanchez A. **Comparison of different cationized proteins as biomaterials for nanoparticle-based ocular gene delivery.** *Colloids and Surfaces B: Biointerfaces*. 2015 marras 1;135:533-541. <https://doi.org/10.1016/j.colsurfb.2015.08.008>

Vapaavuori J, Laventure A, Bazuin CG, Lebel O, Pellerin C. **Submolecular Plasticization Induced by Photons in Azobenzene Materials.** *Journal of the American Chemical Society*. 2015 loka 28;137(42):13510-13517. <https://doi.org/10.1021/jacs.5b06611>

Vapaavuori J, Heikkinen ITS, Dichiarante V, Resnati G, Metrangolo P, Sabat RG et al. **Photomechanical Energy Transfer to Photopassive Polymers through Hydrogen and Halogen Bonds.** *Macromolecules*. 2015 loka 27;48(20):7535-7542. <https://doi.org/10.1021/acs.macromol.5b01813>

Vapaavuori J, Grosrenaud J, Pellerin C, Bazuin CG. **In Situ Photocontrol of Block Copolymer Morphology during Dip-Coating of Thin Films.** *ACS Macro Letters*. 2015 loka 20;4(10):1158-1162. <https://doi.org/10.1021/acsmacrolett.5b00483>

Mylläri V, Fatarella E, Ruzzante M, Pogni R, Baratto MC, Skrifvars M et al. **Production of sulfonated polyetheretherketone/polypropylene fibers for photoactive textiles.** *Journal of Applied Polymer Science*. 2015 loka 1;132(39). 42595. <https://doi.org/10.1002/app.42595>

Moradi M, Enkavi G, Tajkhorshid E. **Atomic-level characterization of transport cycle thermodynamics in the glycerol-3-phosphate: Phosphate antiporter.** *Nature Communications*. 2015 syys 29;6. 8393. <https://doi.org/10.1038/ncomms9393>

Orlowski A, Kukkurainen S, Pöyry A, Rissanen S, Vattulainen I, Hytönen VP et al. **PIP2 and Talin Join Forces to Activate Integrin.** *Journal of Physical Chemistry Part B*. 2015 syys 24;119(38):12381-12389. <https://doi.org/10.1021/acs.jpcc.5b06457>

Bhagavatheswaran ES, Parsekar M, Das A, Le HH, Wiessner S, Stöckelhuber KW et al. **Construction of an Interconnected Nanostructured Carbon Black Network: Development of Highly Stretchable and Robust Elastomeric Conductors.** *Journal of Physical Chemistry C*. 2015 syys 17;119(37):21723-21731. <https://doi.org/10.1021/acs.jpcc.5b06629>

Milanti A, Matikainen V, Koivuluoto H, Bolelli G, Lusvarghi L, Vuoristo P. **Effect of spraying parameters on the microstructural and corrosion properties of HVAF-sprayed Fe-Cr-Ni-B-C coatings.** *Surface and Coatings Technology*. 2015 syys 15;277:81-90. <https://doi.org/10.1016/j.surfcoat.2015.07.018>

Goh JQ, Akola J. **Superatom Model for Ag-S Nanocluster with Delocalized Electrons.** *Journal of Physical Chemistry C*. 2015 syys 10;119(36):21165-21172. <https://doi.org/10.1021/acs.jpcc.5b05824>

Ter Schiphorst J, Coleman S, Stumpel JE, Ben Azouz A, Diamond D, Schenning APHJ. **Molecular Design of Light-Responsive Hydrogels, for in Situ Generation of Fast and Reversible Valves for Microfluidic Applications.** *Chemistry of Materials*. 2015 syys 8;27(17):5925-5931. <https://doi.org/10.1021/acs.chemmater.5b01860>

Frankberg EJ, George L, Efimov A, Honkanen M, Pessi J, Levänen E. **Measuring synthesis yield in graphene oxide synthesis by modified hummers method.** *Fullerenes Nanotubes and Carbon Nanostructures*. 2015 syys 2;23(9):755-759. <https://doi.org/10.1080/1536383X.2014.993754>

Tukiainen A, Likonen J, Toikkanen L, Leinonen T. **Unintentional boron contamination of MBE-grown GaInP/AlGaInP quantum wells.** *Journal of Crystal Growth*. 2015 syys 1;425:60-63. <https://doi.org/10.1016/j.jcrysgro.2015.02.048>

Bajamundi CJE, Vainikka P, Hedman M, Silvennoinen J, Heinanen T, Taipale R 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 syys 1;155:25-36. <https://doi.org/10.1016/j.fuel.2015.03.087>

Yang Y, Kylänpää I, Tubman NM, Krogel JT, Hammes-Schiffer S, Ceperley DM. **How large are nonadiabatic effects in atomic and diatomic systems?** Journal of Chemical Physics. 2015 syys;143(12). 124308. <https://doi.org/10.1063/1.4931667>

Barreca D, Carraro G, Warwick MEA, Kaunisto K, Gasparotto A, Gombac V et al. **Fe₂O₃-TiO₂ nanosystems by a hybrid PE-CVD/ALD approach: controllable synthesis, growth mechanism, and photocatalytic properties.** CrystEngComm. 2015 elo 28;17(32):6219-6226. <https://doi.org/10.1039/c5ce00883b>

Mäkelä J, Tuominen M, Yasir M, Polojärvi V, Aho A, Tukiainen A et al. **Effects of thinning and heating for TiO₂/AlInP junctions.** Journal of Electron Spectroscopy and Related Phenomena. 2015 elo 24;205:6-9. <https://doi.org/10.1016/j.elspec.2015.08.004>

Lepcha A, Maccato C, Mettenböcker A, Andreu T, Mayrhofer L, Walter M 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 elo 20;119(33):18835-18842. <https://doi.org/10.1021/acs.jpcc.5b02767>

Levin M, Rojas E, Vanhala E, Vippola M, Liguori B, Kling KI 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 elo 14;17(8). 337. <https://doi.org/10.1007/s11051-015-3139-6>

Kwolek U, Kulig W, Wydro P, Nowakowska M, Róg T, Kepczynski M. **Effect of Phosphatidic Acid on Biomembrane: Experimental and Molecular Dynamics Simulations Study.** Journal of Physical Chemistry Part B. 2015 elo 6;119(31):10042-10051. <https://doi.org/10.1021/acs.jpcc.5b03604>

Le HH, Pham T, Henning S, Klehm J, Wießner S, Stöckelhuber KW et al. **Formation and stability of carbon nanotube network in natural rubber: Effect of non-rubber components.** Polymer. 2015 elo 5;73:111-121. 18004. <https://doi.org/10.1016/j.polymer.2015.07.044>

Stumpel JE. **Responsive Polymer Photonics.** Chemistryopen. 2015 elo 1;4(4):533-535. <https://doi.org/10.1002/open.201500104>

Timr Š, Brabec J, Bondar A, Ryba T, Železný M, Lazar J 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 heinä 30;119(30):9706-9716. <https://doi.org/10.1021/acs.jpcc.5b05123>

Rasappa S, Caridad JM, Schulte L, Cagliani A, Borah D, Morris MA et al. **High quality sub-10 nm graphene nanoribbons by on-chip PS-b-PDMS block copolymer lithography.** RSC Advances. 2015 heinä 29;5(82):66711-66717. <https://doi.org/10.1039/c5ra11735f>

Bodrova A, Chechkin AV, Cherstvy AG, Metzler R. **Quantifying non-ergodic dynamics of force-free granular gases.** Physical Chemistry Chemical Physics. 2015 heinä 27;17(34):21791-21798. <https://doi.org/10.1039/c5cp02824h>

Virkki K, Demir S, Lemmetyinen H, Tkachenko NV. **Photoinduced Electron Transfer in CdSe/ZnS Quantum Dot-Fullerene Hybrids.** Journal of Physical Chemistry C. 2015 heinä 23;119(31):17561-17572. <https://doi.org/10.1021/acs.jpcc.5b04251>

Rahaman O, Kalimeri M, Melchionna S, Hénin J, Sterpone F. **Role of Internal Water on Protein Thermal Stability: The Case of Homologous G Domains.** Journal of Physical Chemistry Part B. 2015 heinä 23;119(29):8939-8949. <https://doi.org/10.1021/jp507571u>

Çetinkaya AY, Köroğlu EO, Demir NM, Baysoy DY, Özkaya B, Çakmakçı M. **Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration.** Chinese Journal of Catalysis. 2015 heinä 20;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 TV, Schramm A, Mäkelä J, Laukkanen P, Guina M. **Lithography-free oxide patterns as templates for self-catalyzed growth of highly uniform GaAs nanowires on Si(111)**. *Nanotechnology*. 2015 heinä 18;26(27). 275301. <https://doi.org/10.1088/0957-4484/26/27/275301>

Isoniemi T, Tuukkanen S, Cameron DC, Simonen J, Toppari JJ. **Measuring optical anisotropy in poly(3,4-ethylene dioxythiophene): poly(styrene sulfonate) films with added graphene**. *Organic Electronics*. 2015 heinä 9;25:317-323. <https://doi.org/10.1016/j.orgel.2015.06.037>, <https://doi.org/10.1016/j.orgel.2015.06.037>

Ahmed Z, George L, Hiltunen A, Lemmetyinen H, Hukka T, Efimov A. **Synthesis and study of electrochemical and optical properties of substituted perylenemonoimides in solutions and on solid surfaces**. *Journal of Materials Chemistry A*. 2015 heinä 7;3(25):13332-13339. <https://doi.org/10.1039/c5ta02241j>

Sanginés R, Contreras V, Sobral H, Robledo-Martinez A. **Optimal emission enhancement in orthogonal double-pulse laser-induced breakdown spectroscopy**. *Spectrochimica Acta Part B: Atomic Spectroscopy*. 2015 heinä 6;110:139-145. 4935. <https://doi.org/10.1016/j.sab.2015.06.012>

Mylläri V, Ruoko T-P, Syrjälä S. **A comparison of rheology and FTIR in the study of polypropylene and polystyrene photodegradation**. *Journal of Applied Polymer Science*. 2015 heinä 1;132(28). 42246. <https://doi.org/10.1002/app.42246>

Zorzi GK, Párraga JE, Seijo B, Sánchez A. **On the biomaterials for nanostructured ocular therapeutics**. *Current Organic Chemistry*. 2015 heinä 1;19(15):1443-1459.

Abou-Chahine F, Fujii D, Imahori H, Nakano H, Tkachenko NV, Matano Y et al. **Synthesis and Photophysical Properties of Two Diazaporphyrin-Porphyrin Hetero Dimers in Polar and Nonpolar Solutions**. *Journal of Physical Chemistry Part B*. 2015 kesä 18;119(24):7328-7337. <https://doi.org/10.1021/jp510903a>

Perander M, DeMartini N, Brink A, Kramb J, Karlström O, Hemming J et al. **Catalytic effect of Ca and K on CO₂ gasification of spruce wood char**. *Fuel*. 2015 kesä 15;150:464-472. <https://doi.org/10.1016/j.fuel.2015.02.062>

De Carvalho SJ, Metzler R, Cherstvy AG. **Inverted critical adsorption of polyelectrolytes in confinement**. *Soft Matter*. 2015 kesä 14;11(22):4430-4443. <https://doi.org/10.1039/c5sm00635j>

Dzieciuch M, Rissanen S, Szydłowska N, Bunker A, Kumorek M, Jamróz D et al. **PEGylated liposomes as carriers of hydrophobic porphyrins**. *Journal of Physical Chemistry Part B*. 2015 kesä 4;119(22):6646-6657. <https://doi.org/10.1021/acs.jpcc.5b01351>

Manea LR, Cramariuc B, Popescu V, Cramariuc R, Sandu I, Cramariuc O. **Equipment for obtaining polymeric nanofibres by electrospinning technology: II. The obtaining of polymeric nanofibers**. *Materiale Plastice*. 2015 kesä 1;52(2):180-185.

He X, Benniston AC, Saarenpää H, Lemmetyinen H, Tkachenko NV, Baisch U. **Polymorph crystal packing effects on charge transfer emission in the solid state**. *Chemical Science*. 2015 kesä 1;6(6):3525-3532. <https://doi.org/10.1039/c5sc01151e>

Mordon S, Bourg-Heckly G. **Photodiagnostic et chirurgie guidés par la fluorescence**. *ACTUALITE CHIMIQUE*. 2015 kesä 1;(397-398):41-45.

Borah D, Rasappa S, Salaun M, Zellsman M, Lorret O, Liontos G et al. **Soft graphoeptaxy 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 kesä 1;25(22):3425-3432. <https://doi.org/10.1002/adfm.201500100>

Frochot C, Barberi-Heyob M, Blanchard-Desce M, Bolotine L, Bonneau S, Jimenez CM et al. **La thérapie photodynamique: État de l'art et perspectives**. ACTUALITE CHIMIQUE. 2015 kesä 1;(397-398):46-50.

McManamon C, O'Connell J, Delaney P, Rasappa S, Holmes JD, Morris MA. **A facile route to synthesis of S-doped TiO₂ nanoparticles for photocatalytic activity**. Journal of Molecular Catalysis A: Chemical. 2015 touko 30;406:51-57!. <https://doi.org/10.1016/j.molcata.2015.05.002>

Hladílková J, Fischer HE, Jungwirth P, Mason PE. **Hydration of hydroxyl and amino groups examined by molecular dynamics and neutron scattering**. Journal of Physical Chemistry Part B. 2015 touko 28;119(21):6357-6365. <https://doi.org/10.1021/jp510528u>

Kuz'min VA, Durandin NA, Lisitsyna ES, Nekipelova TD, Podrugina TA, Matveeva ED et al. **Spectral and kinetic characteristics of indotricarbocyanine complexation with albumin**. DOKLADY PHYSICAL CHEMISTRY. 2015 touko 28;462(1):107-109. <https://doi.org/10.1134/S0012501615050036>

Song X, Liu Z, Suhonen T, Varis T, Huang L, Zheng X 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 touko 25;270:132-138. <https://doi.org/10.1016/j.surfcoat.2015.03.011>

Pluhařová E, Slavíček P, Jungwirth P. **Modeling photoionization of aqueous DNA and its components**. Accounts of Chemical Research. 2015 touko 19;48(5):1209-1217. <https://doi.org/10.1021/ar500366z>

Liang Y, Ma L, Wang J, Wang G. **Multistep reactions of water with small Pd_n clusters: A first principles study**. Journal of Theoretical and Computational Chemistry. 2015 touko 1;14(3). 1550017. <https://doi.org/10.1142/S0219633615500170>

Kuzmin VA, Durandin NA, Lisitsyna ES, Litvinkova LV, Nekipelova TD, Podrugina TA et al. **Energy degradation in photoexcited complexes of indocarbocyanine with albumin**. HIGH ENERGY CHEMISTRY. 2015 touko 1;49(3):211-212. <https://doi.org/10.1134/S0018143915030108>

Cherstvy AG, Metzler R. **Ergodicity breaking and particle spreading in noisy heterogeneous diffusion processes**. Journal of Chemical Physics. 2015 huhti 14;142(14). 144105. <https://doi.org/10.1063/1.4917077>

Koivisto AJ, Aromaa M, Koponen IK, Fransman W, Jensen KA, Mäkelä JM et al. **Workplace performance of a loose-fitting powered air purifying respirator during nanoparticle synthesis**. Journal of Nanoparticle Research. 2015 huhti 9;17(4). <https://doi.org/10.1007/s11051-015-2990-9>

Sorvajärvi T, Viljanen J, Toivonen J, Marshall P, Glarborg P. **Rate constant and thermochemistry for K + O₂ + N₂ = KO₂ + N₂**. Journal of Physical Chemistry A. 2015 huhti 9;119(14):3329-3336. <https://doi.org/10.1021/acs.jpca.5b00755>

Karilainen T, Timr Š, Vattulainen I, Jungwirth P. **Oxidation of cholesterol does not alter significantly its uptake into high-density lipoprotein particles**. Journal of Physical Chemistry Part B. 2015 huhti 2;119(13):4594-4600. <https://doi.org/10.1021/acs.jpbc.5b00240>

Saarikoski E, Rissanen M, Seppälä J. **Effect of rheological properties of dissolved cellulose/microfibrillated cellulose blend suspensions on film forming**. Carbohydrate Polymers. 2015 maaliskuu 30;119:62-70. <https://doi.org/10.1016/j.carbpol.2014.11.033>

Pirjola L, Karjalainen P, Heikkilä J, Saari S, Tzamkiozis T, Ntziachristos L et al. **Effects of fresh lubricant oils on particle emissions emitted by a modern gasoline direct injection passenger car**. Environmental Science and Technology. 2015 maaliskuu 17;49(6):3644-3652. <https://doi.org/10.1021/es505109u>

Bolelli G, Berger LM, Börner T, Koivuluoto H, Lusvarghi L, Lyphout C et al. **Tribology of HVOF- and HVAF-sprayed WC-10Co4Cr hardmetal coatings: A comparative assessment**. Surface and Coatings Technology. 2015 maaliskuu 15;265:125-144. <https://doi.org/10.1016/j.surfcoat.2015.01.048>

Varis T, Bankiewicz D, Yrjas P, Oksa M, Suhonen T, Tuurna S et al. **High temperature corrosion of thermally sprayed NiCr and FeCr coatings covered with a KCl-K₂SO₄ salt mixture.** Surface and Coatings Technology. 2015 maaliskuu 15;265:235-243. <https://doi.org/10.1016/j.surfcoat.2014.11.012>

Tuominen M, Yasir M, Lång J, Dahl J, Kuzmin M, Mäkelä J et al. **Oxidation of the GaAs semiconductor at the Al₂O₃/GaAs junction.** Physical Chemistry Chemical Physics. 2015 maaliskuu 14;17(10):7060-7066. <https://doi.org/10.1039/c4cp05972g>

Ma L, Melander M, Laasonen K, Akola J. **CO oxidation catalyzed by neutral and anionic Cu₂₀ clusters: Relationship between charge and activity.** Physical Chemistry Chemical Physics. 2015 maaliskuu 14;17(10):7067-7076. <https://doi.org/10.1039/c5cp00365b>

Figueira J, Czardybon W, Mesquita JC, Rodrigues J, Lahoz F, Russo L et al. **Synthesis, characterization and solid-state photoluminescence studies of six alkoxy phenylene ethynylene dinuclear palladium(II) rods.** DALTON TRANSACTIONS. 2015 maaliskuu 7;44(9):4003-4015. <https://doi.org/10.1039/c4dt00493k>

Lolicato F, Raudino A, Milardi D, La Rosa C. **Resveratrol interferes with the aggregation of membrane-bound human-IAPP: A molecular dynamics study.** European Journal of Medicinal Chemistry. 2015 maaliskuu 6;92:876-881. <https://doi.org/10.1016/j.ejmech.2015.01.047>

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

Eshwaran SB, Basu D, Vaikuntam SR, Kutlu B, Wiessner S, Das A 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 maaliskuu 1;132(9). 41539. <https://doi.org/10.1002/app.41539>

Shin J, Cherstvy AG, Metzler R. **Polymer looping is controlled by macromolecular crowding, spatial confinement, and chain stiffness.** ACS Macro Letters. 2015 helmikuu 17;4(2):202-206. <https://doi.org/10.1021/mz500709w>

Ray S, Steven RT, Green FM, Höök F, Taskinen B, Hytönen VP et al. **Neutralized chimeric avidin binding at a reference biosensor surface.** Langmuir. 2015 helmikuu 17;31(6):1921-1930. <https://doi.org/10.1021/la503213f>

Beyeh NK, Pan F, Valkonen A, Rissanen K. **Encapsulation of secondary and tertiary ammonium salts by resorcinarenes and pyrogallarenes: The effect of size and charge concentration.** CrystEngComm. 2015 helmikuu 7;17(5):1182-1188. <https://doi.org/10.1039/c4ce01927j>

Bautista G, Mäkitalo J, Chen Y, Dhaka V, Grasso M, Karvonen L et al. **Second-harmonic generation imaging of semiconductor nanowires with focused vector beams.** Nano Letters. 2015 helmikuu 6;15(3):1564-1569. <https://doi.org/10.1021/nl503984b>

Fatarelle E, Mylläri V, Ruzzante M, Pogni R, Baratto MC, Skrifvars M et al. **Sulfonated polyetheretherketone/polypropylene polymer blends for the production of photoactive materials.** Journal of Applied Polymer Science. 2015 helmikuu 1;132(8). 41509. <https://doi.org/10.1002/app.41509>

Saccone M, Dichiarante V, Forni A, Goulet-Hanssens A, Cavallo G, Vapaavuori J et al. **Supramolecular hierarchy among halogen and hydrogen bond donors in light-induced surface patterning.** Journal of Materials Chemistry C. 2015 tammi 28;3:759-768. <https://doi.org/10.1039/c4tc02315c>

Goh J-Q, Malola S, Häkkinen H, Akola J. **Silver sulfide nanoclusters and the superatom model.** Journal of Physical Chemistry C. 2015 tammi 22;119(3):1583-1590. <https://doi.org/10.1021/jp511037x>

Shin J, Cherstvy AG, Metzler R. **Kinetics of polymer looping with macromolecular crowding: Effects of volume fraction and crowder size.** *Soft Matter*. 2015 tammi 21;11(3):472-488. <https://doi.org/10.1039/c4sm02007c>

Ghosh SK, Cherstvy AG, Metzler R. **Non-universal tracer diffusion in crowded media of non-inert obstacles.** *Physical Chemistry Chemical Physics*. 2015 tammi 21;17(3):1847-1858. <https://doi.org/10.1039/c4cp03599b>

Li Z, Le T, Wu Z, Yao Y, Li L, Tentzeris M et al. **Rational design of a printable, highly conductive silicone-based electrically conductive adhesive for stretchable radio-frequency antennas.** *Advanced Functional Materials*. 2015 tammi 21;25(3):464-470. <https://doi.org/10.1002/adfm.201403275>

Czaplicki R, Mäkitalo J, Siikanen R, Husu H, Lehtolahti J, Kuittinen M et al. **Second-Harmonic Generation from Metal Nanoparticles: Resonance Enhancement versus Particle Geometry.** *Nano Letters*. 2015 tammi 14;15(1):530-534. <https://doi.org/10.1021/nl503901e>

Schroeder CA, Pluharová E, Seidel R, Schroeder WP, Faubel M, Slaviček P 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 tammi 14;137(1):201-209. <https://doi.org/10.1021/ja508149e>

Khan M, Yang J, Shi C, Feng Y, Zhang W, Gibney K et al. **Manipulation of polycarbonate urethane bulk properties via incorporated zwitterionic polynorborene for tissue engineering application.** *RSC Advances*. 2015 tammi 6;5(15):11284-11292. <https://doi.org/10.1039/C4RA14608E>

Reeta PS, Khetubol A, Jella T, Chukharev V, Abou-Chahine F, Tkachenko NV et al. **Photophysical properties of Sn(IV)tetraphenylporphyrin-pyrene dyad with a β -vinyl linker.** *Journal of Porphyrins and Phthalocyanines*. 2015 tammi 1;19(1-3):288-300. <https://doi.org/10.1142/S1088424615500108>

Yi H, Albrecht M, Valkonen A, Rissanen K. **Perfluoro-1,1'-biphenyl and perfluoronaphthalene and their derivatives as π -acceptors for anions.** *New Journal of Chemistry*. 2015 tammi 1;39(1):746-749. <https://doi.org/10.1039/c4nj01654h>

Mettänen M, Hirn U. **A comparison of five optical surface topography measurement methods.** *TAPPI Journal*. 2015 tammi 1;14(1):27-38.

Hukka JJ, Katko TS. **Appropriate pricing policy needed worldwide for improving water services infrastructure.** *Journal American Water Works Association*. 2015 tammi 1;107(1):E37-E46. <https://doi.org/10.5942/jawwa.2015.107.0007>

Nazir R, Bourquard F, Balčiūnas E, Smoleń S, Gray D, Tkachenko NV 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 B, Abou-Chahine F, Calbo J, Caballero R, delaCruz P, Junquera-Hernández JM 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, Nugent S, Lindroos M, Apostol M, Varga M. **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 AJ, Smoleń S, Glodkowska-Mrowka E, Brutkowski W, Cyrański MK, Tkachenko N 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 I, Valkonen A, Rzaigui M, Smirani W. **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 F, Papirio S, Lens PNL, Esposito G. **Chemolithotrophic denitrification in biofilm reactors**. Chemical Engineering Journal. 2015;280:643-657. <https://doi.org/10.1016/j.cej.2015.05.131>

Karilainen T, Cramariuc O, Kuisma M, Tappura K, Hukka TI. **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 T, Vehviläinen M, Puolakka A, Honkanen M, Vippola M, Rissanen M. **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 Y, Jeon J-H, Metzler R. **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 JE, Gil ER, Spoelstra AB, Bastiaansen CWM, Broer DJ, Schenning APHJ. **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 JE, Broer DJ, Schenning APHJ. **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 PE, Uhlig F, Vaněk V, Buttersack T, Bauerecker S, Jungwirth P. **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 D, Rasappa S, Senthamaraiannan R, Holmes JD, Morris MA. **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 B, Zauner D, Lehtonen SI, Koskinen M, Thomson C, Kähkönen N et al. **Switchavidin: Reversible biotin-avidin-biotin bridges with high affinity and specificity**. Bioconjugate Chemistry. 2014 joulu 17;25(12):2233-2243. <https://doi.org/10.1021/bc500462w>

Palivec V, Pluharová E, Unger I, Winter B, Jungwirth P. **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 joulu 4;118(48):13833-13837. <https://doi.org/10.1021/jp5111086>

Lemmetyinen H, Tkachenko NV, Valeur B, Hotta JI, Ameloot M, Ernsting NP et al. **Time-resolved fluorescence methods (IUPAC technical report)**. Pure and Applied Chemistry. 2014 joulu 1;86(12):1969-1998. <https://doi.org/10.1515/pac-2013-0912>

Tawade BV, Salunke JK, Sane PS, Wadgaonkar PP. **Processable aromatic polyesters based on bisphenol derived from cashew nut shell liquid: synthesis and characterization**. JOURNAL OF POLYMER RESEARCH. 2014 marras 18;21(12). <https://doi.org/10.1007/s10965-014-0617-y>

Mohanty AK, Ghosh A, Sawai P, Pareek K, Banerjee S, Das A et al. **Electromagnetic interference shielding effectiveness of MWCNT filled poly(ether sulfone) and poly(ether imide) nanocomposites**. Polymer Engineering and Science. 2014 marras 1;54(11):2560-2570. <https://doi.org/10.1002/pen.23804>

Wang X, Vapaavuori J, Zhao Y, Bazuin CG. **A supramolecular approach to photoresponsive thermo/solvoplastic block copolymer elastomers**. Macromolecules. 2014 loka 28;47(20):7099-7108. <https://doi.org/10.1021/ma501278b>

Amanatidis S, Ntziachristos L, Giechaskiel B, Bergmann A, Samaras Z. **Impact of selective catalytic reduction on exhaust particle formation over excess ammonia events.** Environmental Science and Technology. 2014 loka 7;48(19):11527-11534. <https://doi.org/10.1021/es502895v>

Deng Y, Alicea-Velázquez NL, Bannwarth L, Lehtonen SI, Boggon TJ, Cheng HC et al. **Global analysis of human nonreceptor tyrosine kinase specificity using high-density peptide microarrays.** Journal of Proteome Research. 2014 loka 3;13(10):4339-4346. <https://doi.org/10.1021/pr500503q>

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

Goulet-Hanssens A, Corkery TC, Priimagi A, Barrett CJ. **Effect of head group size on the photoswitching applications of azobenzene Disperse Red 1 analogues.** Journal of Materials Chemistry C. 2014 syys 28;2(36):7505-7512. <https://doi.org/10.1039/c4tc00996g>

Salunke JK, Sonar P, Wong FL, Roy VAL, Lee CS, Wadgaonkar PP. **Pyrene based conjugated materials: Synthesis, characterization and electroluminescent properties.** Physical Chemistry Chemical Physics. 2014 syys 26;16(42):23320-23328. <https://doi.org/10.1039/c4cp03693j>

Wang J, Ma L, Liang Y, Gao M, Wang G. **Density functional theory study of transition metals doped B₈₀ fullerene.** Journal of Theoretical and Computational Chemistry. 2014 syys 22;13(6). 1450050. <https://doi.org/10.1142/S0219633614500503>

Priimagi A, Barrett CJ, Shishido A. **Recent twists in photoactuation and photoalignment control.** Journal of Materials Chemistry C. 2014 syys 21;2(35):7155-7162. <https://doi.org/10.1039/c4tc01236d>

Uhlig F, Herbert JM, Coons MP, Jungwirth P. **Optical spectroscopy of the bulk and interfacial hydrated electron from ab initio calculations.** Journal of Physical Chemistry A. 2014 syys 4;118(35):7507-7515. <https://doi.org/10.1021/jp5004243>

Le HH, Abhijeet S, Ilisch S, Klehm J, Henning S, Beiner M et al. **The role of linked phospholipids in the rubber-filler interaction in carbon nanotube (CNT) filled natural rubber (NR) composites.** Polymer. 2014 syys 2;55(18):4738-4747. <https://doi.org/10.1016/j.polymer.2014.07.043>

Kapgate BP, Das C, Basu D, Das A, Heinrich G, Reuter U. **Effect of silane integrated sol-gel derived in situ silica on the properties of nitrile rubber.** Journal of Applied Polymer Science. 2014 elo 5;131(15). 40531. <https://doi.org/10.1002/app.40531>

Kurppa K, Hytönen VP, Nakari-Setälä T, Kulomaa MS, Linder MB. **Molecular engineering of avidin and hydrophobin for functional self-assembling interfaces.** Colloids and Surfaces B: Biointerfaces. 2014 elo 1;120:102-109. <https://doi.org/10.1016/j.colsurfb.2014.05.010>

Oksa M, Varis T, Ruusuvoori K. **Performance testing of iron based thermally sprayed HVOF coatings in a biomass-fired fluidised bed boiler.** Surface and Coatings Technology. 2014 heinä 25;251:191-200. <https://doi.org/10.1016/j.surfcoat.2014.04.025>

Kohagen M, Mason PE, Jungwirth P. **Accurate description of calcium solvation in concentrated aqueous solutions.** Journal of Physical Chemistry Part B. 2014 heinä 17;118(28):7902-7909. <https://doi.org/10.1021/jp5005693>

Werner J, Wernersson E, Ekholm V, Ottosson N, Öhrwall G, Heyda J 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 kesä 26;118(25):7119-7127. <https://doi.org/10.1021/jp500867w>

Mahmood N, Khan AU, Stöckelhuber KW, Das A, Jehnichen D, Heinrich G. **Carbon nanotubes-filled thermoplastic polyurethane-urea and carboxylated acrylonitrile butadiene rubber blend nanocomposites**. Journal of Applied Polymer Science. 2014 kesä 5;131(11). <https://doi.org/10.1002/app.40341>

Pluhařová E, Fischer HE, Mason PE, Jungwirth P. **Hydration of the chloride ion in concentrated aqueous solutions using neutron scattering and molecular dynamics**. Molecular Physics. 2014 touko 19;112(9-10):1230-1240. <https://doi.org/10.1080/00268976.2013.875231>

Raghuwanshi S, Deswal D, Karp M, Kuhad RC. **Bioprocessing of enhanced cellulase production from a mutant of Trichoderma asperellum RCK2011 and its application in hydrolysis of cellulose**. Fuel. 2014 touko 15;124:183-189. <https://doi.org/10.1016/j.fuel.2014.01.107>

Koskela JE, Liljeström V, Lim J, Simanek EE, Ras RHA, Priimagi A et al. **Light-fuelled transport of large dendrimers and proteins**. Journal of the American Chemical Society. 2014 touko 14;136(19):6850-6853. <https://doi.org/10.1021/ja502623m>

Kuzmin MG, Soboleva IV, Durandin NA, Lisitsyna ES, Kuzmin VA. **Microphase mechanism of "superquenching" of luminescent probes in aqueous solutions of DNA and some other polyelectrolytes**. Journal of Physical Chemistry Part B. 2014 huhti 17;118(15):4245-4252. <https://doi.org/10.1021/jp500713q>

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

Kulig W, Agmon N. **Deciphering the infrared spectrum of the protonated water pentamer and the hybrid Eigen-Zundel cation**. Physical Chemistry Chemical Physics. 2014 maaliskuu 14;16(10):4933-4941. <https://doi.org/10.1039/c3cp54029d>

Khan MN, Zharnikov M. **Fabrication of ssDNA/oligo(ethylene glycol) monolayers by promoted exchange reaction with thiol and disulfide substituents**. Journal of Physical Chemistry C. 2014 helmi 13;118(6):3093-3101. <https://doi.org/10.1021/jp411353f>

Priimagi A, Shevchenko A. **Azopolymer-based micro- and nanopatterning for photonic applications**. Journal of Polymer Science. Part B, Polymer Physics. 2014 helmi 1;52(3):163-182. <https://doi.org/10.1002/polb.23390>

Kulig W, Agmon N. **Both zundel and eigen isomers contribute to the IR spectrum of the gas-phase H9O4 + cluster**. Journal of Physical Chemistry Part B. 2014 tammi 9;118(1):278-286. <https://doi.org/10.1021/jp410446d>

Oksala NKJ, Ekmekçi FG, Özsoy E, Kirankaya Ş, Kokkola T, Emecen G et al. **Natural thermal adaptation increases heat shock protein levels and decreases oxidative stress**. REDOX BIOLOGY. 2014 tammi 1;3:25-28. <https://doi.org/10.1016/j.redox.2014.10.003>

Enkavi G, Li J, Wen P, Thangapandian S, Moradi M, Jiang T 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 J, Uhlig F, Ahmed S, Hamm P, Jungwirth P. **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 J, Ray AK. **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 P. **Molekuly a ionty v pohybu: Počítačové simulace biochemických a biofyzikálních procesů**. Chemické Listy. 2014;108(4):278-284.

Airiskallio E, Nurmi E, Väyrynen IJ, Kokko K, Ropo M, Punkkinen MPJ 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 HH, Parsekar M, Ilisch S, Henning S, Das A, Stöckelhuber KW 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 AV, Grin MA, Golovina GV, Kokrashvili TA, Vinogradov AM, Mironov AF 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 S, Borah D, Senthamaraiannan R, Faulkner CC, Holmes JD, Morris MA. **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 P, Cummins C, Rasappa S, Simao C, Torres CMS, Holmes JD 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 T, Ebner A, Gruber HJ, Taskinen B, Kienberger F, Hänninen PE 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, Borah D, Rasappa S, Chaudhari A, Ghoshal T, O'Driscoll BMD 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 joulu 21;1(47):7941-7951. <https://doi.org/10.1039/c3tc31498g>

Häkkinen MR, Roine A, Auriola S, Tuokko A, Veskimäe E, Keinänen TA 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 joulu 15;941:81-89. <https://doi.org/10.1016/j.jchromb.2013.10.009>

Le HH, Oßwald K, Wießner S, Das A, Stöckelhuber KW, Boldt R et al. **Location of dispersing agent in rubber nanocomposites during mixing process.** Polymer. 2013 joulu 13;54(26):7009-7021. <https://doi.org/10.1016/j.polymer.2013.10.038>

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

Diban N, Haimi SP, Bolhuis-Versteeg L, Teixeira S, Miettinen S, Poot AA et al. **Effect of surface morphology of poly(ϵ -caprolactone) scaffolds on adipose stem cell adhesion and proliferation.** Macromolecular symposia. 2013 joulu;334(1):126-132. <https://doi.org/10.1002/masy.201300106>

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

Khan MN, Zharnikov M. **Fabrication of ssDNA/Oligo(ethylene glycol) monolayers and patterns by exchange reaction promoted by ultraviolet light irradiation.** Journal of Physical Chemistry C. 2013 marras 27;117(47):24883-24893. <https://doi.org/10.1021/jp408819k>

Hladilkova J, Prokop Z, Chaloupkova R, Damborsky J, Jungwirth P. **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 marras 21;117(46):14329-14335. <https://doi.org/10.1021/jp409040u>

Pluhařová E, Mason PE, Jungwirth P. **Ion pairing in aqueous lithium salt solutions with monovalent and divalent counter-ions.** Journal of Physical Chemistry A. 2013 marras 21;117(46):11766-11773. <https://doi.org/10.1021/jp402532e>

Priimagi A, Cavallo G, Metrangolo P, Resnati G. **The Halogen Bond in the Design of Functional Supramolecular Materials: Recent Advances.** Accounts of Chemical Research. 2013 marras 19;46(11):2686-2695. <https://doi.org/10.1021/ar400103r>

Kalimeri M, Rahaman O, Melchionna S, Sterpone F. **How conformational flexibility stabilizes the hyperthermophilic elongation factor G-domain.** Journal of Physical Chemistry Part B. 2013 marras 7;117(44):13775-13785. <https://doi.org/10.1021/jp407078z>

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

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

Niskanen M, Kuisma M, Cramariuc O, Golovanov V, Hukka TI, Tkachenko N 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 loka 28;15(40):17408-17418. <https://doi.org/10.1039/c3cp51685g>

Pollheimer P, Taskinen B, Scherfler A, Gusenkov S, Creus M, Wiesauer P et al. **Reversible biofunctionalization of surfaces with a switchable mutant of avidin.** Bioconjugate Chemistry. 2013 loka 16;24(10):1656-1668. <https://doi.org/10.1021/bc400087e>

Sterpone F, Nguyen PH, Kalimeri M, Derreumaux P. **Importance of the ion-pair interactions in the OPEP coarse-grained force field: Parametrization and validation.** Journal of Chemical Theory and Computation. 2013 loka 8;9(10):4574-4584. <https://doi.org/10.1021/ct4003493>

Laitaoja M, Valjakka J, Jänis J. **Zinc coordination spheres in protein structures.** Inorganic Chemistry. 2013 loka 7;52(19):10983-10991. <https://doi.org/10.1021/ic401072d>

Khan MN, Tjong V, Chilkoti A, Zharnikov M. **Spectroscopic study of a DNA brush synthesized in situ by surface initiated enzymatic polymerization.** Journal of Physical Chemistry Part B. 2013 elo 29;117(34):9929-9938. <https://doi.org/10.1021/jp404774x>

Stirnemann G, Wernersson E, Jungwirth P, Laage D. **Mechanisms of acceleration and retardation of water dynamics by ions.** Journal of the American Chemical Society. 2013 elo 14;135(32):11824-11831. <https://doi.org/10.1021/ja405201s>

Khan MN, Zharnikov M. **Irradiation promoted exchange reaction with disulfide substituents.** Journal of Physical Chemistry C. 2013 heinä 18;117(28):14534-14543. <https://doi.org/10.1021/jp4006026>

Borah D, Rasappa S, Sentharamaikannan R, Holmes JD, Morris MA. **Tuning PDMS brush chemistry by UV-O3 exposure for PS-b-PDMS microphase separation and directed self-assembly.** Langmuir. 2013 heinä 16;29(28):8959-8968. <https://doi.org/10.1021/la401561k>

Paterová J, Rembert KB, Heyda J, Kurra Y, Okur HI, Liu WR et al. **Reversal of the Hofmeister series: Specific ion effects on peptides.** *Journal of Physical Chemistry Part B.* 2013 heinä 11;117(27):8150-8158. <https://doi.org/10.1021/jp405683s>

Stumpel JE, Liu D, Broer DJ, Schenning APHJ. **Photoswitchable hydrogel surface topographies by polymerisation-induced diffusion.** *Chemistry: A European Journal.* 2013 heinä 2;19(33):10922-10927. <https://doi.org/10.1002/chem.201300852>

Diban N, Haimi S, Bolhuis-Versteeg L, Teixeira S, Miettinen S, Poot A et al. **Development and characterization of poly(ϵ -caprolactone) hollow fiber membranes for vascular tissue engineering.** *Journal of Membrane Science.* 2013 heinä 1;438:29-37. <https://doi.org/10.1016/j.memsci.2013.03.024>

Gordon TR, Paik T, Klein DR, Naik GV, Caglayan H, Boltasseva A et al. **Shape-dependent plasmonic response and directed self-assembly in a new semiconductor building block, indium-doped cadmium oxide (ICO).** *Nano Letters.* 2013 kesä 12;13(6):2857-2863. <https://doi.org/10.1021/nl4012003>

Gerlofs-Nijland ME, Totlandsdal AI, Tzamkiozis T, Leseman DLAC, Samaras Z, Låg M 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 kesä 4;47(11):5931-5938. <https://doi.org/10.1021/es305330y>

Štěpánková V, Paterová J, Damborský J, Jungwirth P, Chaloupková R, Heyda J. **Cation-specific effects on enzymatic catalysis driven by interactions at the tunnel mouth.** *Journal of Physical Chemistry Part B.* 2013 touko 30;117(21):6394-6402. <https://doi.org/10.1021/jp401506v>

Pelto JM, Haimi SP, Siljander AS, Miettinen SS, Tappura KM, Higgins MJ et al. **Surface properties and interaction forces of biopolymer-doped conductive polypyrrole surfaces by atomic force microscopy.** *Langmuir.* 2013 touko 21;29(20):6099-6108. <https://doi.org/10.1021/la4009366>

McManamon C, Delaney P, Kavanagh C, Wang JJ, Rasappa S, Morris MA. **Depth profiling of PLGA copolymer in a novel biomedical bilayer using confocal raman spectroscopy.** *Langmuir.* 2013 touko 14;29(19):5905-5910. <https://doi.org/10.1021/la400402a>

Bayr S, Kaparaju P, Rintala J. **Screening pretreatment methods to enhance thermophilic anaerobic digestion of pulp and paper mill wastewater treatment secondary sludge.** *Chemical Engineering Journal.* 2013 touko 1;223:479-486. <https://doi.org/10.1016/j.cej.2013.02.119>

Tan M, Feng Y, Wang H, Zhang L, Khan M, Guo J et al. **Immobilized bioactive agents onto polyurethane surface with heparin and phosphorylcholine group.** *Macromolecular Research.* 2013 touko;21(5):541-549. <https://doi.org/10.1007/s13233-013-1028-3>

Vapaavuori J, Mahimwalla Z, Chromik RR, Kaivola M, Priimagi A, Barrett CJ. **Nanoindentation study of light-induced softening of supramolecular and covalently functionalized azo polymers.** *Journal of Materials Chemistry C.* 2013 huhti 28;1(16):2806-2810. <https://doi.org/10.1039/c3tc30246f>

Rooj S, Das A, Stöckelhuber KW, Wang DY, Galiatsatos V, Heinrich G. **Understanding the reinforcing behavior of expanded clay particles in natural rubber compounds.** *Soft Matter.* 2013 huhti 14;9(14):3798-3808. <https://doi.org/10.1039/c3sm27519a>

Pale V, Nikkonen T, Vapaavuori J, Kostianen M, Kavakka J, Selin J et al. **Biomimetic zinc chlorin-poly(4-vinylpyridine) assemblies: Doping level dependent emission-absorption regimes.** *Journal of Materials Chemistry C.* 2013 maaliskuu 21;1(11):2166-2173. <https://doi.org/10.1039/c3tc00499f>

Ma L, Wang J, Wang G. **Site-specific analysis of dipole polarizabilities of heterogeneous systems: Iron-doped Si_n (n = 1-14) clusters.** *Journal of Chemical Physics.* 2013 maaliskuu 7;138(9). 094304. <https://doi.org/10.1063/1.4793276>

- Borah D, Ozmen M, Rasappa S, Shaw MT, Holmes JD, Morris MA. **Molecularly functionalized silicon substrates for orientation control of the microphase separation of PS-b-PMMA and PS-b-PDMS block copolymer systems.** *Langmuir*. 2013 maalis 5;29(9):2809-2820. <https://doi.org/10.1021/la304140q>
- Barboza R, Bortolozzo U, Assanto G, Residori S. **Optical vortex generation in nematic liquid crystal light valves.** *Molecular Crystals and Liquid Crystals*. 2013 maalis 1;572(1):24-30. <https://doi.org/10.1080/15421406.2012.763206>
- Rasappa S, Borah D, Faulkner CC, Lutz T, Shaw MT, Holmes JD et al. **Fabrication of a sub-10 nm silicon nanowire based ethanol sensor using block copolymer lithography.** *Nanotechnology*. 2013 helmi 15;24(6). 065503. <https://doi.org/10.1088/0957-4484/24/6/065503>
- Vazdar M, Jungwirth P, Mason PE. **Aqueous guanidinium-carbonate interactions by molecular dynamics and neutron scattering: Relevance to ion-protein interactions.** *Journal of Physical Chemistry Part B*. 2013 helmi 14;117(6):1844-1848. <https://doi.org/10.1021/jp310719g>
- Farman AT, Hong SH, Caglayan H, Ye X, Diroll BT, Paik T et al. **Chemically tailored dielectric-to-metal transition for the design of metamaterials from nanoimprinted colloidal nanocrystals.** *Nano Letters*. 2013 helmi 13;13(2):350-357. <https://doi.org/10.1021/nl303161d>
- Ma L, Ray AK. **Growth behavior and magnetic properties of spherical uranium oxide nanoclusters.** *Journal of Computational and Theoretical Nanoscience*. 2013 helmi;10(2):334-340. <https://doi.org/10.1166/jctn.2013.2701>
- Ma L, Wang J, Hao Y, Wang G. **Density functional theory study of FePd_n (n = 2-14) clusters and interactions with small molecules.** *Computational Materials Science*. 2013 helmi;68:166-173. <https://doi.org/10.1016/j.commatsci.2012.10.014>
- Subramaniam K, Das A, Simon F, Heinrich G. **Networking of ionic liquid modified CNTs in SSBR.** *European Polymer Journal*. 2013 helmi;49(2):345-352. <https://doi.org/10.1016/j.eurpolymj.2012.10.023>
- Wang H, Feng Y, Zhao H, Fang Z, Khan M, Guo J. **A potential nonthrombogenic small-diameter vascular scaffold with polyurethane/poly(ethylene glycol) hybrid materials by electrospinning technique.** *Journal Nanoscience and Nanotechnology*. 2013 helmi;13(2):1578-1582. <https://doi.org/10.1166/jnn.2013.6051>
- Kulig W, Agmon N. **A 'clusters-in-liquid' method for calculating infrared spectra identifies the proton-transfer mode in acidic aqueous solutions.** *Nature Chemistry*. 2013 tammi;5(1):29-35. <https://doi.org/10.1038/nchem.1503>
- Ylilauri M, Mattila E, Nurminen EM, Käpylä J, Niinivehmas SP, Määttä JA 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 D, Praveenkumar R, Shenbagavalli T, Mari Nivetha T, Parveez Ahamed A, Al-Dhabi NA 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 marras 28;2(30):11552-11556. <https://doi.org/10.1039/c2ra21130k>
- Buchholz M, Goletz CM, Grossmann F, Schmidt B, Heyda J, Jungwirth P. **Semiclassical hybrid approach to condensed phase molecular dynamics: Application to the I₂Kr₁₇ cluster.** *Journal of Physical Chemistry A*. 2012 marras 26;116(46):11199-11210. <https://doi.org/10.1021/jp305084f>
- Pluhaová E, Marsalek O, Schmidt B, Jungwirth P. **Peptide salt bridge stability: From gas phase via microhydration to bulk water simulations.** *Journal of Chemical Physics*. 2012 marras 14;137(18). 185101. <https://doi.org/10.1063/1.4765052>
- Ma L, Wang J, Wang G. **Search for global minimum geometries of medium sized Cd_nTe_n clusters (n = 15, 16, 20, 24 and 28).** *Chemical Physics Letters*. 2012 marras 12;552:73-77. <https://doi.org/10.1016/j.cplett.2012.09.036>

Pluhařová E, Ončák M, Seidel R, Schroeder C, Schroeder W, Winter B 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 marras 8;116(44):13254-13264. <https://doi.org/10.1021/jp306348b>

Steinhauser D, Subramaniam K, Das A, Heinrich G, Klüppel M. **Influence of ionic liquids on the dielectric relaxation behavior of CNT based elastomer nanocomposites.** *Express Polymer Letters*. 2012 marras;6(11):927-936. <https://doi.org/10.3144/expresspolymlett.2012.98>

Mahimwalla Z, Yager KG, Mamiya JI, Shishido A, Priimagi A, Barrett CJ. **Azobenzene photomechanics: Prospects and potential applications.** *Polymer Bulletin*. 2012 marras;69(8):967-1006. <https://doi.org/10.1007/s00289-012-0792-0>

Lisitsyna ES, Lygo ON, Durandin NA, Dement'eva OV, Rudoi VM, Kuzmin VA. **Superquenching of SYBRGreen dye fluorescence in complex with DNA by gold nanoparticles.** *HIGH ENERGY CHEMISTRY*. 2012 marras;46(6):363-367. <https://doi.org/10.1134/S0018143912060057>

Khan MN, Tjong V, Chilkoti A, Zharnikov M. **Fabrication of ssDNA/oligo(ethylene glycol) monolayers and complex nanostructures by an irradiation-promoted exchange reaction.** *Angewandte Chemie (International Edition)*. 2012 loka 8;51(41):10303-10306. <https://doi.org/10.1002/anie.201204245>

Le HH, Hoang XT, Das A, Gohs U, Stoeckelhuber KW, Boldt R et al. **Kinetics of filler wetting and dispersion in carbon nanotube/rubber composites.** *Carbon*. 2012 loka;50(12):4543-4556. <https://doi.org/10.1016/j.carbon.2012.05.039>

Gao W, Feng Y, Lu J, Khan M, Guo J. **Biomimetic surface modification of polycarbonateurethane film via phosphorylcholine-graft for resisting platelet adhesion.** *Macromolecular Research*. 2012 loka;20(10):1063-1069. <https://doi.org/10.1007/s13233-012-0152-9>

Bardhan JP, Jungwirth P, Makowski L. **Affine-response model of molecular solvation of ions: Accurate predictions of asymmetric charging free energies.** *Journal of Chemical Physics*. 2012 syys 28;137(12). 124101. <https://doi.org/10.1063/1.4752735>

Kapgate BP, Das C, Das A, Basu D, Reuter U, Heinrich G. **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 syys;63(3):501-509. <https://doi.org/10.1007/s10971-012-2812-9>

Pegado L, Marsalek O, Jungwirth P, Wernersson E. **Solvation and ion-pairing properties of the aqueous sulfate anion: Explicit versus effective electronic polarization.** *Physical Chemistry Chemical Physics*. 2012 elo 7;14(29):10248-10257. <https://doi.org/10.1039/c2cp40711f>

Kousoulidou M, Ntziachristos L, Fontaras G, Martini G, Dilara P, Samaras Z. **Impact of biodiesel application at various blending ratios on passenger cars of different fueling technologies.** *Fuel*. 2012 elo;98:88-94. <https://doi.org/10.1016/j.fuel.2012.03.038>

Mason PE, Wernersson E, Jungwirth P. **Accurate description of aqueous carbonate ions: An effective polarization model verified by neutron scattering.** *Journal of Physical Chemistry Part B*. 2012 heinä 19;116(28):8145-8153. <https://doi.org/10.1021/jp3008267>

Serak SV, Tabiryann NV, Assanto G. **Nematicons in azobenzene liquid crystals.** *Molecular Crystals and Liquid Crystals*. 2012 heinä 19;559:202-213. <https://doi.org/10.1080/15421406.2012.658710>

Rembert KB, Paterová J, Heyda J, Hilty C, Jungwirth P, Cremer PS. **Molecular mechanisms of ion-specific effects on proteins.** *Journal of the American Chemical Society*. 2012 kesä 20;134(24):10039-10046. <https://doi.org/10.1021/ja301297g>

Priimagi A, Cavallo G, Forni A, Gorynsztejn-Leben M, Kaivola M, Metrangolo P et al. **Halogen bonding versus hydrogen bonding in driving self-assembly and performance of light-responsive supramolecular polymers.** *Advanced Functional Materials*. 2012 kesä 20;22(12):2572-2579. <https://doi.org/10.1002/adfm.201200135>

Vazdar M, Jurkiewicz P, Hof M, Jungwirth P, Cwiklik L. **Behavior of 4-hydroxynonenal in phospholipid membranes.** *Journal of Physical Chemistry Part B*. 2012 kesä 7;116(22):6411-6415. <https://doi.org/10.1021/jp3044219>

Ma L, Atta-Fynn R, Ray AK. **Elemental and mixed actinide dioxides: An ab initio study.** *Journal of Theoretical and Computational Chemistry*. 2012 kesä;11(3):611-629. <https://doi.org/10.1142/S021963361250040X>

Wang DY, Das A, Leuteritz A, Mahaling RN, Jehnichen D, Wagenknecht U et al. **Structural characteristics and flammability of fire retarding EPDM/layered double hydroxide (LDH) nanocomposites.** *RSC Advances*. 2012 huhti 21;2(9):3927-3933. <https://doi.org/10.1039/c2ra20189e>

Rooj S, Das A, Stöckelhuber KW, Reuter U, Heinrich G. **Highly exfoliated natural rubber/Clay composites by "propping-open procedure": The influence of fatty-acid chain length on exfoliation.** *Macromolecular Materials and Engineering*. 2012 huhti;297(4):369-383. <https://doi.org/10.1002/mame.201100185>

Stradomska A, Kulig W, Slawik M, Petelenz P. **Excited-state polarizability in crystalline sexithiophene: Charge-transfer and vibronic effects.** *Chemical Physics Letters*. 2012 maaliskuu 9;529:27-30. <https://doi.org/10.1016/j.cplett.2012.01.038>

Das A, George JJ, Kutlu B, Leuteritz A, Wang DY, Rooj S et al. **A novel thermotropic elastomer based on highly-filled LDH-SSB composites.** *Macromolecular Rapid Communications*. 2012 helmikku 27;33(4):337-342. <https://doi.org/10.1002/marc.201100735>

Nandre KP, Salunke JK, Nandre JP, Patil VS, Borse AU, Bhosale SV. **Glycerol mediated synthesis of 5-substituted 1H-tetrazole under catalyst free conditions.** *Chinese Chemical Letters*. 2012 helmikku;23(2):161-164. <https://doi.org/10.1016/j.ccl.2011.11.019>

Koskela JE, Vapaavuori J, Hautala J, Priimagi A, Faul CFJ, Kaivola M 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 tammi 26;116(3):2363-2370. <https://doi.org/10.1021/jp210706n>

Marsalek O, Uhlig F, Vandevonede J, Jungwirth P. **Structure, dynamics, and reactivity of hydrated electrons by Ab initio molecular dynamics.** *Accounts of Chemical Research*. 2012 tammi 17;45(1):23-32. <https://doi.org/10.1021/ar200062m>

Leuteritz A, Kutlu B, Meini J, Wang D, Das A, Wagenknecht U 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 A, Shimamura A, Kondo M, Hiraoka T, Kubo S, Mamiya JI 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 O, Elles CG, Pieniazek PA, Pluhaov E, Vandevonede J, Bradforth SE et al. **Chasing charge localization and chemical reactivity following photoionization in liquid water.** *Journal of Chemical Physics*. 2011 joulu 14;135(22): 224510. <https://doi.org/10.1063/1.3664746>

Härkönen HH, Mattsson JM, Määttä JAE, Stenman UH, Koistinen H, Matero S et al. **The Discovery of Compounds That Stimulate the Activity of Kallikrein-Related Peptidase3 (KLK3).** *CHEMMEDCHEM*. 2011 joulu 9;6(12):2170-2178. <https://doi.org/10.1002/cmdc.201100349>

Manna M, Mukhopadhyay C. **Cholesterol driven alteration of the conformation and dynamics of phospholamban in model membranes.** Physical Chemistry Chemical Physics. 2011 joulu 7;13(45):20188-20198. <https://doi.org/10.1039/c1cp21793c>

Subramaniam K, Das A, Steinhauser D, Klüppel M, Heinrich G. **Effect of ionic liquid on dielectric, mechanical and dynamic mechanical properties of multi-walled carbon nanotubes/polychloroprene rubber composites.** European Polymer Journal. 2011 joulu;47(12):2234-2243. <https://doi.org/10.1016/j.eurpolymj.2011.09.021>

Gladich I, Pfalzgraff W, Maršálek O, Jungwirth P, Roeselová M, Neshyba S. **Arrhenius analysis of anisotropic surface self-diffusion on the prismatic facet of ice.** Physical Chemistry Chemical Physics. 2011 marras 28;13(44):19960-19969. <https://doi.org/10.1039/c1cp22238d>