

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

Abdallah, Zeina et al. "Frequency Comb Generation in a Continuous-Wave Pumped Second-Order Nonlinear Waveguide Resonator". *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings*. IEEE. 2019. <https://doi.org/10.23919/CLEO.2019.8750403>

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

Ahmed, Zafar et al. "Synthesis and study of electrochemical and optical properties of substituted perylenemonoimides in solutions and on solid surfaces". *Journal of Materials Chemistry A*. 2015, 3(25). 13332-13339. <https://doi.org/10.1039/c5ta02241j>

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

Aisala, Heikki et al. "Linking volatile and non-volatile compounds to sensory profiles and consumer liking of wild edible Nordic mushrooms". *Food Chemistry*. 2020. 304. <https://doi.org/10.1016/j.foodchem.2019.125403>

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

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

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

Alanen, Jenni et al. "Physical Characteristics of Particle Emissions from a Medium Speed Ship Engine Fueled with Natural Gas and Low-Sulfur Liquid Fuels". *Environmental Science and Technology*. 2020, 54(9). 5376-5384. <https://doi.org/10.1021/acs.est.9b06460>

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

Ali-Löyty, Harri et al. "Ambient-Pressure XPS Study of a Ni-Fe Electrocatalyst for the Oxygen Evolution Reaction". *Journal of Physical Chemistry C*. 2016, 120(4). 2247-2253. <https://doi.org/10.1021/acs.jpcc.5b10931>

Ali-Löyty, Harri et al. "Grain orientation dependent Nb-Ti microalloying mediated surface segregation on ferritic stainless steel". *Corrosion Science*. 2016, 112. 204-213. <https://doi.org/10.1016/j.corsci.2016.07.024>

Allolio, Christoph et al. "Guanidinium Pairing Facilitates Membrane Translocation". *Journal of Physical Chemistry Part B*. 2016, 120(1). 143-153. <https://doi.org/10.1021/acs.jpcc.5b10404>

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

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

Arvani, Maedeh et al. "Additive manufacturing of monolithic supercapacitors with biopolymer separator". *Journal of Applied Electrochemistry*. 2020, 50(6). 689-697. <https://doi.org/10.1007/s10800-020-01423-2>

Asikainen, Sanja et al. "Hydrolysis and drug release from poly(ethylene glycol)-modified lactone polymers with open porosity". *European Polymer Journal*. 2019, 113. 165-175. <https://doi.org/10.1016/j.eurpolymj.2019.01.056>

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

Auer, Sanna et al. "Detection of DNA hybridisation in a diluted serum matrix by surface plasmon resonance and film bulk acoustic resonators". *Analytical and Bioanalytical Chemistry*. 2011, 400(5). 1387-1396. <https://doi.org/10.1007/s00216-011-4871-0>

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

Azemati, Hamidreza et al. "The role of symmetry in the aesthetics of residential building façades using cognitive science methods". *Symmetry*. 2020. 12(9). <https://doi.org/10.3390/sym12091438>

Bączkiewicz, Jolanta et al. "Experimental study on axially loaded square hollow section T-joints under fire conditions". *FIRE SAFETY JOURNAL*. 2020. 114. <https://doi.org/10.1016/j.firesaf.2020.102993>

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

Baek, Jinseok et al. "Photophysical properties of porphyrin dimer-single-walled carbon nanotube linked systems". *Journal of Physical Chemistry C*. 2017. 121(39). <https://doi.org/10.1021/acs.jpcc.7b08594>

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

Balanta, M. A G et al. "Polarization resolved photoluminescence in GaAs<sub>1-x</sub>Bi<sub>x</sub>/GaAs quantum wells". *Journal of Luminescence*. 2017, 182. 49-52. <https://doi.org/10.1016/j.jlumin.2016.10.008>

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

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

Bansod, Naresh D. et al. "Compatibilization of natural rubber/nitrile rubber blends by sol-gel nano-silica generated by in situ method". *JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY*. 2016, 80(2). 548-559. <https://doi.org/10.1007/s10971-016-4114-0>

Baratto, Camilla et al. "On the alignment of ZnO nanowires by Langmuir – Blodgett technique for sensing application". *Applied Surface Science*. 2020. 528. <https://doi.org/10.1016/j.apsusc.2020.146959>

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

Bardhan, Jaydeep P., Pavel Jungwirth and Lee Makowski. "Affine-response model of molecular solvation of ions: Accurate predictions of asymmetric charging free energies". *Journal of Chemical Physics*. 2012, 137(12). <https://doi.org/10.1063/1.4752735>

Barreca, Davide et al. "Fe<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> nanosystems by a hybrid PE-CVD/ALD approach: controllable synthesis, growth mechanism, and photocatalytic properties". *CrystEngComm*. 2015, 17(32). 6219-6226. <https://doi.org/10.1039/c5ce00883b>

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

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

Basu, Debdipta et al. "Nanostructured Ionomeric Elastomers"., Stöckelhuber, Klaus Werner Das, Amit Klüppel, Manfred (editors). *Designing of Elastomer Nanocomposites: From Theory to Applications*. Advances in Polymer Science. Springer International Publishing. 2016, 235-266. [https://doi.org/10.1007/12\\_2016\\_8](https://doi.org/10.1007/12_2016_8)

Bautista, Godofredo et al. "Second-harmonic generation imaging of semiconductor nanowires with focused vector beams". *Nano Letters*. 2015, 15(3). 1564-1569. <https://doi.org/10.1021/nl503984b>

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

Beter, Julia et al. "Comparison and impact of different fiber debond techniques on fiber reinforced flexible composites". *Polymers*. 2020, 12(2). <https://doi.org/10.3390/polym12020472>

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

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

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

Bianchi, Federico et al. "Highly Oxygenated Organic Molecules (HOM) from Gas-Phase Autoxidation Involving Peroxy Radicals: A Key Contributor to Atmospheric Aerosol". *Chemical Reviews*. 2019, 119(6). 3472-3509. <https://doi.org/10.1021/acs.chemrev.8b00395>

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

Boardman, A. D. et al. "Waves in hyperbolic and double negative metamaterials including rogues and solitons". *Nanotechnology*. 2017, 28(44). <https://doi.org/10.1088/1361-6528/aa6792>

Bodrova, Anna et al. "Quantifying non-ergodic dynamics of force-free granular gases". *Physical Chemistry Chemical Physics*. 2015, 17(34). 21791-21798. <https://doi.org/10.1039/c5cp02824h>

- Bolelli, G. et al. "Tribology of HVOF- and HVOF-sprayed WC-10Co4Cr hardmetal coatings: A comparative assessment". *Surface and Coatings Technology*. 2015, 265. 125-144. <https://doi.org/10.1016/j.surfcoat.2015.01.048>
- Borah, Dipu et al. "Soft graphoepitaxy for large area directed self-assembly of polystyrene-block-poly(dimethylsiloxane) block copolymer on nanopatterned poss substrates fabricated by nanoimprint lithography". *Advanced Functional Materials* . 2015, 25(22). 3425-3432. <https://doi.org/10.1002/adfm.201500100>
- Borah, Dipu et al. "Block co-polymers for nanolithography: Rapid microwave annealing for pattern formation on substrates" . *Polymers*. 2015, 7(4). 592-609. <https://doi.org/10.3390/polym7040592>
- Borah, Dipu et al. "Soft-graphoepitaxy using nanoimprinted polyhedral oligomeric silsesquioxane substrates for the directed self-Assembly of PS-b-PDMS". *European Polymer Journal*. 2013, 49(11). 3512-3521. <https://doi.org/10.1016/j.eurpolymj.2013.08.011>
- Borah, Dipu et al. "Tuning PDMS brush chemistry by UV-O3 exposure for PS-b-PDMS microphase separation and directed self-assembly". *Langmuir*. 2013, 29(28). 8959-8968. <https://doi.org/10.1021/la401561k>
- Borah, Dipu et al. "Molecularly functionalized silicon substrates for orientation control of the microphase separation of PS-b-PMMA and PS-b-PDMS block copolymer systems". *Langmuir*. 2013, 29(9). 2809-2820. <https://doi.org/10.1021/la304140q>
- Buchholz, Max et al. "Semiclassical hybrid approach to condensed phase molecular dynamics: Application to the  $I_2Kr_{17}$  cluster". *Journal of Physical Chemistry A*. 2012, 116(46). 11199-11210. <https://doi.org/10.1021/jp305084f>
- Calejo, M. Teresa et al. "Porous polybutylene succinate films enabling adhesion of human embryonic stem cell-derived retinal pigment epithelial cells (hESC-RPE)". *European Polymer Journal*. 2019, 118. 78-87. <https://doi.org/10.1016/j.eurpolymj.2019.05.041>
- Cavallo, Gabriella et al. "Superfluorinated Ionic Liquid Crystals Based on Supramolecular, Halogen-Bonded Anions". *Angewandte Chemie (International Edition)*. 2016, 55(21). 6300-6304. <https://doi.org/10.1002/anie.201601278>
- Çetinkaya, Afşin Y. et al. "Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration". *Chinese Journal of Catalysis*. 2015, 36(7). 1068-1076. [https://doi.org/10.1016/S1872-2067\(15\)60833-6](https://doi.org/10.1016/S1872-2067(15)60833-6)
- Chakraborty, Samayita et al. "Effect of tungsten and selenium on  $C_1$  gas bioconversion by an enriched anaerobic sludge and microbial community analysis". *Chemosphere*. 2020. 250. <https://doi.org/10.1016/j.chemosphere.2020.126105>
- Cherstvy, Andrey G. and Ralf Metzler. "Ergodicity breaking and particle spreading in noisy heterogeneous diffusion processes". *Journal of Chemical Physics*. 2015. 142(14). <https://doi.org/10.1063/1.4917077>
- Chevrier, Daniel M. et al. "Molecular-Scale Ligand Effects in Small Gold-Thiolate Nanoclusters". *Journal of the American Chemical Society*. 2018, 140(45). 15430-15436. <https://doi.org/10.1021/jacs.8b09440>
- Christophliemk, Hanna et al. "Starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper and their effects of phase interactions". *Progress in Organic Coatings*. 2017, 111. 13-22. <https://doi.org/10.1016/j.porgcoat.2017.04.018>
- Christophliemk, Hanna et al. "Oxygen and water vapor transmission rates of starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper". *Progress in Organic Coatings*. 2017, 113. 218-224. <https://doi.org/10.1016/j.porgcoat.2017.04.019>

- Chronopoulos, Antonios et al. "Syndecan-4 tunes cell mechanics by activating the kindlin-integrin-RhoA pathway". *Nature Materials*. 2020. <https://doi.org/10.1038/s41563-019-0567-1>
- Cummins, C. et al. "Self-assembly of polystyrene-block-poly(4-vinylpyridine) block copolymer on molecularly functionalized silicon substrates: Fabrication of inorganic nanostructured etchmask for lithographic use". *Journal of Materials Chemistry C*. 2013, 1(47). 7941-7951. <https://doi.org/10.1039/c3tc31498g>
- Czaplicki, R. et al. "Second-Harmonic Generation from Metal Nanoparticles: Resonance Enhancement versus Particle Geometry". *Nano Letters*. 2015, 15(1). 530-534. <https://doi.org/10.1021/nl503901e>
- Czaplicki, Robert et al. "Less Is More: Enhancement of Second-Harmonic Generation from Metasurfaces by Reduced Nanoparticle Density". *Nano Letters*. 2018, 18(12). 7709-7714. <https://doi.org/10.1021/acs.nanolett.8b03378>
- Danne, Reinis et al. "DoGlycans-Tools for Preparing Carbohydrate Structures for Atomistic Simulations of Glycoproteins, Glycolipids, and Carbohydrate Polymers for GROMACS". *Journal of Chemical Information and Modeling*. 2017, 57(10). 2401-2406. <https://doi.org/10.1021/acs.jcim.7b00237>
- Dantelle, G. et al. "Efficient production of NV colour centres in nanodiamonds using high-energy electron irradiation". *Journal of Luminescence*. 2010, 130(9). 1655-1658. <https://doi.org/10.1016/j.jlumin.2009.12.003>
- Das, Amit et al. "A novel thermotropic elastomer based on highly-filled LDH-SSB composites". *Macromolecular Rapid Communications*. 2012, 33(4). 337-342. <https://doi.org/10.1002/marc.201100735>
- Das, Amit et al. "Preparation of zinc oxide free, transparent rubber nanocomposites using a layered double hydroxide filler". *Journal of Materials Chemistry*. 2011, 21(20). 7194-7200. <https://doi.org/10.1039/c0jm03784b>
- Das, Amit et al. "Temperature scanning stress relaxation of an autonomous self-healing elastomer containing non-covalent reversible network junctions". *Polymers*. 2018. 10(1). <https://doi.org/10.3390/polym10010094>
- De Carvalho, Sidney J., Ralf Metzler and Andrey G. Cherstvy. "Inverted critical adsorption of polyelectrolytes in confinement". *Soft Matter*. 2015, 11(22). 4430-4443. <https://doi.org/10.1039/c5sm00635j>
- Dehmer, Matthias and Frank Emmert-Streib. "Structural information content of networks: Graph entropy based on local vertex functionals". *Computational Biology and Chemistry*. 2008, 32(2). 131-138. <https://doi.org/10.1016/j.compbiolchem.2007.09.007>
- Dehmer, Matthias et al. "Quantifying structural complexity of graphs: Information measures in mathematical chemistry". Putz, Mihai V. (ed.). *Quantum Frontiers of Atoms and Molecules*. Nova Science Publishers, Inc. 2011, 479-497.
- Dehmer, Matthias et al. "On entropy-based molecular descriptors: Statistical analysis of real and synthetic chemical structures". *Journal of Chemical Information and Modeling*. 2009, 49(7). 1655-1663. <https://doi.org/10.1021/ci900060x>
- Dehmer, Matthias and Frank Emmert-Streib. "The structural information content of chemical networks". *Zeitschrift fur Naturforschung Section A: A Journal of Physical Sciences*. 2008, 63(3-4). 155-158.
- Deng, Yang et al. "Global analysis of human nonreceptor tyrosine kinase specificity using high-density peptide microarrays". *Journal of Proteome Research*. 2014, 13(10). 4339-4346. <https://doi.org/10.1021/pr500503q>
- Dessi, Paolo et al. "Composition and role of the attached and planktonic microbial communities in mesophilic and thermophilic xylose-fed microbial fuel cells". *RSC Advances*. 2018, 8(6). 3069-3080. <https://doi.org/10.1039/c7ra12316g>

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

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

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

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

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

Donadei, Valentina et al. "Lubricated icephobic coatings prepared by flame spraying with hybrid feedstock injection". *Surface and Coatings Technology*. 2020. 403. <https://doi.org/10.1016/j.surfcoat.2020.126396>

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

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

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

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

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

Enkavi, Giray et al. "Multiscale Simulations of Biological Membranes: The Challenge To Understand Biological Phenomena in a Living Substance". *Chemical Reviews*. 2019, 119(9). 5607-5774. <https://doi.org/10.1021/acs.chemrev.8b00538>

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

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

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

Fabert, M. et al. "Crystallization and sintering of borosilicate bioactive glasses for application in tissue engineering". *Journal of Materials Chemistry B*. 2017, 5(23). 4514-4525. <https://doi.org/10.1039/c7tb00106a>

- Fafarman, Aaron T. et al. "Chemically tailored dielectric-to-metal transition for the design of metamaterials from nanoimprinted colloidal nanocrystals". *Nano Letters*. 2013, 13(2). 350-357. <https://doi.org/10.1021/nl303161d>
- Fantozzi, Davide et al. "Chlorine induced high-temperature corrosion mechanisms in HVOF and HVOF sprayed Cr<sub>3</sub>C<sub>2</sub>-based hardmetal coatings". *Corrosion Science*. 2019. <https://doi.org/10.1016/j.corsci.2019.108166>
- Farooq, A. et al. "Evaluating transparent liquid screen overlay as a haptic conductor: Method of enhancing touchscreen based user interaction by a transparent deformable liquid screen overlay". *2015 IEEE SENSORS - Proceedings*. Institute of Electrical and Electronics Engineers Inc. 2015. <https://doi.org/10.1109/ICSENS.2015.7370186>
- Fatarelle, Enrico et al. "Sulfonated polyetheretherketone/polypropylene polymer blends for the production of photoactive materials". *Journal of Applied Polymer Science*. 2015. 132(8). <https://doi.org/10.1002/app.41509>
- Fernandez-Palacio, Francisco et al. "Coordination networks incorporating halogen-bond donor sites and azobenzene groups". *CrystEngComm*. 2016, 18(13). 2251-2257. <https://doi.org/10.1039/c6ce00059b>
- Ferreira, Silvia A. et al. "Bi-directional cell-pericellular matrix interactions direct stem cell fate". *Nature Communications*. 2018. 9(1). <https://doi.org/10.1038/s41467-018-06183-4>
- Figueira, João et al. "Synthesis, characterization and solid-state photoluminescence studies of six alkoxy phenylene ethynylene dinuclear palladium(ii) rods". *DALTON TRANSACTIONS*. 2015, 44(9). 4003-4015. <https://doi.org/10.1039/c4dt00493k>
- Frankberg, Erka J. et al. "Measuring synthesis yield in graphene oxide synthesis by modified hummers method". *Fullerenes Nanotubes and Carbon Nanostructures*. 2015, 23(9). 755-759. <https://doi.org/10.1080/1536383X.2014.993754>
- Franzén, R. "The Suzuki, the Heck, and the Stille reaction - Three versatile methods, for the introduction of new C-C bonds on solid support". *Canadian Journal of Chemistry - Revue Canadienne de Chimie*. 2000, 78(7). 957-962. <https://doi.org/10.1139/v00-089>
- Franzén, Robert G. "Recent advances in the preparation of heterocycles on solid support: A review of the literature". *Journal of Combinatorial Chemistry*. 2000, 2(3). 195-214. <https://doi.org/10.1021/cc000002f>
- Franzén, Robert G. "Utilization of Grignard reagents in solid-phase synthesis: A review of the literature". *Tetrahedron*. 2000, 56(5). 685-691. [https://doi.org/10.1016/S0040-4020\(99\)00963-1](https://doi.org/10.1016/S0040-4020(99)00963-1)
- Franzén, Robert et al. "Investigation of the adducts formed by reaction of butenedioic acids with adenosine". *Chemical Research in Toxicology*. 1997, 10(10). 1186-1191. <https://doi.org/10.1021/tx970036d>
- Franzén, Robert and Leif Kronberg. "Synthesis of chlorinated 5-hydroxy 4-methyl-2(5H)-furanones and mucochloric acid". *Tetrahedron Letters*. 1995, 36(22). 3905-3908. [https://doi.org/10.1016/0040-4039\(95\)00638-S](https://doi.org/10.1016/0040-4039(95)00638-S)
- Frochot, Céline et al. "La thérapie photodynamique: État de l'art et perspectives". *ACTUALITE CHIMIQUE*. 2015, (397-398). 46-50.
- Gao, Wei et al. "Biomimetic surface modification of polycarbonateurethane film via phosphorylcholine-graft for resisting platelet adhesion". *Macromolecular Research*. 2012, 20(10). 1063-1069. <https://doi.org/10.1007/s13233-012-0152-9>
- Garifullin, Marsel et al. "Buckling Behavior of Cold-Formed Studs with Thermal Perforations". *MATEC Web of Conferences*. 2016. 73. <https://doi.org/10.1051/mateconf/20167304011>

- Garifullin, Marsel. "Experimental moment resistance of rectangular hollow section T joints". *MATEC Web of Conferences*. 2018. 245. <https://doi.org/10.1051/mateconf/201824508003>
- Gebraad, A. W H et al. "Human adipose stem cells in chondrogenic differentiation medium without growth factors differentiate towards annulus fibrosus phenotype in vitro". *Macromolecular symposia*. 2013, 334(1). 49-56. <https://doi.org/10.1002/masy.201300104>
- George, Lijo et al. "Photo-antimicrobial efficacy of zinc complexes of porphyrin and phthalocyanine activated by inexpensive consumer LED lamp". *Journal of Inorganic Biochemistry*. 2018, 183. 94-100. <https://doi.org/10.1016/j.jinorgbio.2018.03.015>
- Gerlofs-Nijland, Miriam E. et al. "Cell toxicity and oxidative potential of engine exhaust particles: Impact of using particulate filter or biodiesel fuel blend". *Environmental Science and Technology*. 2013, 47(11). 5931-5938. <https://doi.org/10.1021/es305330y>
- German, Salvador Jimenez et al. "Proliferation and differentiation of adipose stem cells towards smooth muscle cells on poly(trimethylene carbonate) membranes". *Macromolecular symposia*. 2013, 334(1). 133-142. <https://doi.org/10.1002/masy.201300100>
- Ghalibaf, Maryam, Tharaka Rama Krishna C. Doddapaneni and Raimo Alén. "Pyrolytic behavior of lignocellulosic-based polysaccharides". *Journal of Thermal Analysis and Calorimetry*. 2019, 137(1). 121-131. <https://doi.org/10.1007/s10973-018-7919-y>
- Ghorbani, Modjtaba et al. "The Hosoya entropy of graphs revisited". *Symmetry*. 2019. 11(8). <https://doi.org/10.3390/sym11081013>
- Ghosh, Surya K., Andrey G. Cherstvy and Ralf Metzler. "Non-universal tracer diffusion in crowded media of non-inert obstacles". *Physical Chemistry Chemical Physics*. 2015, 17(3). 1847-1858. <https://doi.org/10.1039/c4cp03599b>
- Giammarco, James et al. "Towards universal enrichment nanocoating for IR-ATR waveguides". *Chemical Communications*. 2011, 47(32). 9104-9106. <https://doi.org/10.1039/c1cc12780b>
- Giammarco, James M. et al. "Enrichment polymer layers for detection of volatile vapors by ATR FT-IR". *ACS National Meeting Book of Abstracts*. 2011.
- Gilardi, G. et al. "An electro-optically tunable Bragg reflector based on liquid crystals". *Molecular Crystals and Liquid Crystals*. 2011, 549. 62-68. <https://doi.org/10.1080/15421406.2011.581137>
- Gil-Gallegos, S. et al. "Energy-dependent diffusion in a soft periodic Lorentz gas". *European Physical Journal: Special Topics*. 2019, 228(1). 143-160. <https://doi.org/10.1140/epjst/e2019-800136-8>
- Gladich, Ivan et al. "Arrhenius analysis of anisotropic surface self-diffusion on the prismatic facet of ice". *Physical Chemistry Chemical Physics*. 2011, 13(44). 19960-19969. <https://doi.org/10.1039/c1cp22238d>
- Goh, Jing-Qiang et al. "Silver sulfide nanoclusters and the superatom model". *Journal of Physical Chemistry C*. 2015, 119(3). 1583-1590. <https://doi.org/10.1021/jp511037x>
- Goh, Jing Qiang and Jaakko Akola. "Superatom Model for Ag-S Nanocluster with Delocalized Electrons". *Journal of Physical Chemistry C*. 2015, 119(36). 21165-21172. <https://doi.org/10.1021/acs.jpcc.5b05824>
- Goh, Jing-Qiang, Jaakko Akola and Riccardo Ferrando. "Geometric Structure and Chemical Ordering of Large AuCu Clusters: A Computational Study". *Journal of Physical Chemistry C*. 2017, 121(20). 10809-10816. <https://doi.org/10.1021/acs.jpcc.6b11958>



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

Golovanov, V. V. et al. "Effects of orientation at the phthalocyanine-CdSe interface on the electron transfer characteristics". *Physical Chemistry Chemical Physics*. 2017, 19(16). 10511-10517. <https://doi.org/10.1039/c7cp00833c>

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

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

Guglielmetti, Simone et al. "O<sub>2</sub>-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>

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

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

Haavisto, Johanna et al. "Effects of anode materials on electricity production from xylose and treatability of TMP wastewater in an up-flow microbial fuel cell". *Chemical Engineering Journal*. 2019, 372. 141-150. <https://doi.org/10.1016/j.cej.2019.04.090>

Haavisto, Johanna M. et al. "The effect of start-up on energy recovery and compositional changes in brewery wastewater in bioelectrochemical systems". *BIOELECTROCHEMISTRY*. 2020. 132. <https://doi.org/10.1016/j.bioelechem.2019.107402>

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

Hakkarainen, T. V. et al. "Lithography-free oxide patterns as templates for self-catalyzed growth of highly uniform GaAs nanowires on Si(111)". *Nanotechnology*. 2015. 26(27). <https://doi.org/10.1088/0957-4484/26/27/275301>

Häkkinen, Merja R. et al. "Analysis of free, mono- and diacetylated polyamines from human urine by LC-MS/MS". *JOURNAL OF CHROMATOGRAPHY B: ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES*. 2013, 941. 81-89. <https://doi.org/10.1016/j.jchromb.2013.10.009>

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

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

Hannula, Markku et al. "Improved Stability of Atomic Layer Deposited Amorphous TiO<sub>2</sub> Photoelectrode Coatings by Thermally Induced Oxygen Defects". *Chemistry of Materials*. 2018, 30(4). 1199-1208. <https://doi.org/10.1021/acs.chemmater.7b02938>

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

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

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

He, Han et al. "ClothFace: A Batteryless RFID-Based Textile Platform for Handwriting Recognition". *Sensors (Basel, Switzerland)*. 2020. 20(17). <https://doi.org/10.3390/s20174878>

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

Heikkinen, Jarkko J. et al. "Versatile bio-ink for covalent immobilization of chimeric avidin on sol-gel substrates". *Colloids and Surfaces B: Biointerfaces*. 2011, 87(2). 409-414. <https://doi.org/10.1016/j.colsurfb.2011.05.052>

Heyda, Jan et al. "Urea and guanidinium induced denaturation of a Trp-cage miniprotein". *Journal of Physical Chemistry Part B*. 2011, 115(28). 8910-8924. <https://doi.org/10.1021/jp200790h>

Higashino, Tomohiro et al. "Remarkable Dependence of the Final Charge Separation Efficiency on the Donor-Acceptor Interaction in Photoinduced Electron Transfer". *Angewandte Chemie (International Edition)*. 2016, 55(2). 629-633. <https://doi.org/10.1002/anie.201509067>

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

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

Hiltunen, Arto et al. "Design aspects of all atomic layer deposited TiO<sub>2</sub>-Fe<sub>2</sub>O<sub>3</sub> scaffold-absorber photoanodes for water splitting". *Sustainable Energy & Fuels*. 2018, 2(9). 2124-2130. <https://doi.org/10.1039/C8SE00252E>

Hladilková, Jana et al. "Release of halide ions from the buried active site of the haloalkane dehalogenase LinB revealed by stopped-flow fluorescence analysis and free energy calculations". *Journal of Physical Chemistry Part B*. 2013, 117(46). 14329-14335. <https://doi.org/10.1021/jp409040u>

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

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

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

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

- Horinouchi, Haruki et al. "Controllable Electronic Structures and Photoinduced Processes of Bay-Linked Perylene-dimide Dimers and a Ferrocene-Linked Triad". *Chemistry: A European Journal*. 2016, 22(28). 9631-9641. <https://doi.org/10.1002/chem.201601058>
- Hukka, Jarmo J. and Tapio S. Katko. "Appropriate pricing policy needed worldwide for improving water services infrastructure". *Journal American Water Works Association*. 2015, 107(1). E37-E46. <https://doi.org/10.5942/jawwa.2015.107.0007>
- Huttunen-Saarivirta, E. et al. "Tribocorrosion behaviour of aluminium bronze in 3.5 wt.% NaCl solution". *Corrosion Science*. 2018, 144. 207-223. <https://doi.org/10.1016/j.corsci.2018.08.058>
- Hytönen, Vesa P. and Bernhard Wehrle-Haller. "Protein conformation as a regulator of cell-matrix adhesion". *Physical Chemistry Chemical Physics*. 2014, 16(14). 6342-6357. <https://doi.org/10.1039/c3cp54884h>
- Hyväluoma, Jari et al. "Effects of pyrolysis temperature on the hydrologically relevant porosity of willow biochar". *Journal of Analytical and Applied Pyrolysis*. 2018. 134. <https://doi.org/10.1016/j.jaap.2018.07.011>
- Hyvönen, Marja et al. "Inequivalence of single CH<sub>a</sub> and CH<sub>b</sub> methylene bonds in the interior of a diunsaturated lipid bilayer from a molecular dynamics simulation". *Chemical Physics Letters*. 1997, 268(1-2). 55-60. [https://doi.org/10.1016/S0009-2614\(97\)00171-1](https://doi.org/10.1016/S0009-2614(97)00171-1)
- Hyvönen, Marja et al. "Effects of two double bonds on the hydrocarbon interior of a phospholipid bilayer". *Chemical Physics Letters*. 1995, 246(3). 300-306. [https://doi.org/10.1016/0009-2614\(95\)01113-N](https://doi.org/10.1016/0009-2614(95)01113-N)
- Iantovics, Laszlo Barna, Matthias Dehmer, and Frank Emmert-Streib. "MetriIntSimil-an accurate and robust metric for comparison of similarity in intelligence of any number of cooperative multiagent systems". *Symmetry*. 2018. 10(2). <https://doi.org/10.3390/sym10020048>
- Ihalainen, Teemu O. et al. "Differential basal-to-apical accessibility of lamin A/C epitopes in the nuclear lamina regulated by changes in cytoskeletal tension". *Nature Materials*. 2015, 14(12). 1252-1261. <https://doi.org/10.1038/nmat4389>
- Isakov, M. et al. "Strain rate change tests with the Split Hopkinson Bar method". *European Physical Journal. Special Topics*. 2016, 225(2). 231-242. <https://doi.org/10.1140/epjst/e2015-99999-x>
- Isakov, M. et al. "Systematic analysis of coating-substrate interactions in the presence of flow localization". *Surface and Coatings Technology*. 2017, 324. 264-280. <https://doi.org/10.1016/j.surfcoat.2017.05.040>
- Isca, Vera M.S. et al. "Molecular Docking Studies of Royleanone Diterpenoids from *Plectranthus* spp. as P-Glycoprotein Inhibitors". *ACS MEDICINAL CHEMISTRY LETTERS*. 2020, 11(5). 839-845. <https://doi.org/10.1021/acsmchemlett.9b00642>
- Isoniemi, Tommi et al. "Measuring optical anisotropy in poly(3,4-ethylene dioxythiophene): poly(styrene sulfonate) films with added graphene". *Organic Electronics*. 2015, 25. 317-323. <https://doi.org/10.1016/j.orgel.2015.06.037>, <https://doi.org/10.1016/j.orgel.2015.06.037>
- Isotahdon, Elisa, Elina Huttunen-Saarivirta, and Veli-Tapani Kuukkala. "Development of Magnetic Losses During Accelerated Corrosion Tests for Nd-Fe-B Magnets Used in Permanent Magnet Generators". *Corrosion*. 2016, 72(6). 732-741. <https://doi.org/10.5006/2037>
- Itävuo, Pekka, Erik Hulthén, and Matti Vilkkö. "Feed-hopper level estimation and control in cone crushers". *Minerals Engineering*. 2017, 110. 82-95. <https://doi.org/10.1016/j.mineng.2017.04.010>

- Itävuori, Pekka et al. "Mass balance control of crushing circuits". *Minerals Engineering*. 2019, 135. 37-47. <https://doi.org/10.1016/j.mineng.2019.02.033>
- Iyer, Siddharth, Matti P. Rissanen and Theo Kurtén. "Reaction between Peroxy and Alkoxy Radicals Can Form Stable Adducts". *Journal of Physical Chemistry Letters*. 2019, 10(9). 2051-2057. <https://doi.org/10.1021/acs.jpcclett.9b00405>
- Izdebskaya, Yana et al. "Magnetic routing of light-induced waveguides". *Nature Communications*. 2017. 8. <https://doi.org/10.1038/ncomms14452>
- Jagoda-Cwiklik, Barbara, Lukasz Cwiklik and Pavel Jungwirth. "Behavior of the eigen form of hydronium at the air/water interface". *Journal of Physical Chemistry A*. 2011, 115(23). 5881-5886. <https://doi.org/10.1021/jp110078s>
- Jain, Rohan et al. "Preferential adsorption of Cu in a multi-metal mixture onto biogenic elemental selenium nanoparticles". *Chemical Engineering Journal*. 2016, 284. 917-925. <https://doi.org/10.1016/j.cej.2015.08.144>
- Jain, Rohan et al. "Understanding selenium biogeochemistry in engineered ecosystems: Transformation and analytical methods". *Bioremediation of Selenium Contaminated Wastewater*. Springer International Publishing. 2017, 33-56. [https://doi.org/10.1007/978-3-319-57831-6\\_2](https://doi.org/10.1007/978-3-319-57831-6_2)
- Janka, Leo et al. "Influence of heat treatment on the abrasive wear resistance of a Cr<sub>3</sub>C<sub>2</sub>-NiCr coating deposited by an ethene-fuelled HVOF spray process". *Surface and Coatings Technology*. 2016, 291. 444-451. <https://doi.org/10.1016/j.surfcoat.2016.02.066>
- Janka, Leo et al. "Improving the high temperature abrasion resistance of thermally sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr coatings by WC addition". *Surface and Coatings Technology*. 2018, 337. 296-305. <https://doi.org/10.1016/j.surfcoat.2018.01.035>
- Javanainen, Matti et al. "Two cations, two mechanisms: Interactions of sodium and calcium with zwitterionic lipid membranes". *Chemical Communications*. 2017, 53(39). 5380-5383. <https://doi.org/10.1039/c7cc02208e>
- Javanainen, Matti, O. H. Samuli Ollila and Hector Martinez-Seara. "Rotational Diffusion of Membrane Proteins in Crowded Membranes". *Journal of Physical Chemistry B*. 2020, 124(15). 2994-3001. <https://doi.org/10.1021/acs.jpcc.0c00884>
- Jermakka, Johannes et al. "Electro-concentration for chemical-free nitrogen capture as solid ammonium bicarbonate". *Separation and Purification Technology*. 2018, 203. 48-55. <https://doi.org/10.1016/j.seppur.2018.04.023>
- Jones, R. O. et al. "Density functional study of structure and dynamics in liquid antimony and Sb<sub>n</sub> clusters". *Journal of Chemical Physics*. 2017. 146(19). <https://doi.org/10.1063/1.4983219>
- Jönkkäri, Ilari et al. "Compounding and characterization of recycled multilayer plastic films". *Journal of Applied Polymer Science*. 2020. <https://doi.org/10.1002/app.49101>
- Joost, Urmas et al. "Reversible photodoping of TiO<sub>2</sub> nanoparticles". *Chemistry of Materials*. 2018, 30(24). 8968-8974. <https://doi.org/10.1021/acs.chemmater.8b04813>
- Jowett, Geraldine M. et al. "ILC1 drive intestinal epithelial and matrix remodelling". *Nature Materials*. 2020. <https://doi.org/10.1038/s41563-020-0783-8>
- Jungwirth, Pavel. "Molekuly a ionty v pohybu: Počítačové simulace biochemických a biofyzikálních procesů". *Chemické Listy*. 2014, 108(4). 278-284.
- Kahle, Hermann et al. "Double-side pumped membrane external-cavity surface-emitting laser (MECSEL) with increased efficiency emitting > 3 W in the 780 nm region". *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings*. IEEE. 2019. <https://doi.org/10.23919/CLEO.2019.8749958>

- Kainulainen, Tuomo P. et al. "UV-Blocking Synthetic Biopolymer from Biomass-Based Bifuran Diester and Ethylene Glycol". *Macromolecules*. 2018, 51(5). 1822-1829. <https://doi.org/10.1021/acs.macromol.7b02457>
- Kaleva, A. et al. "Formation of corrosion products on zinc in wet supercritical and subcritical CO<sub>2</sub>: In-situ spectroscopic study". *Corrosion Science*. 2020. 174. <https://doi.org/10.1016/j.corsci.2020.108850>
- Kalimeri, Maria et al. "How conformational flexibility stabilizes the hyperthermophilic elongation factor G-domain". *Journal of Physical Chemistry Part B*. 2013, 117(44). 13775-13785. <https://doi.org/10.1021/jp407078z>
- Kamppuri, Taina et al. "Characterisation of novel regenerated cellulosic, viscose, and cotton fibres and the dyeing properties of fabrics". *Coloration Technology*. 2015, 131(5). 396-402. <https://doi.org/10.1111/cote.12163>
- Kangas, Heli et al. "Effect of nitro groups and alkyl chain length on the negative ion tandem mass spectra of alkyl 3-hydroxy-5-(4'-nitrophenoxy) and alkyl 3-hydroxy-5-(2', 4'-dinitrophenoxy) benzoates". *Rapid Communications in Mass Spectrometry*. 1999, 13(16). 1680-1684. [https://doi.org/10.1002/\(SICI\)1097-0231\(19990830\)13:16<1680::AID-RCM698>3.0.CO;2-R](https://doi.org/10.1002/(SICI)1097-0231(19990830)13:16<1680::AID-RCM698>3.0.CO;2-R)
- Kaouk, A. et al. "Graphene-intercalated Fe<sub>2</sub>O<sub>3</sub>/TiO<sub>2</sub> heterojunctions for efficient photoelectrolysis of water". *RSC Advances*. 2015, 5(123). 101401-101407. <https://doi.org/10.1039/c5ra18330h>
- Kapgate, Bharat P. et al. "Reinforced chloroprene rubber by in situ generated silica particles: Evidence of bound rubber on the silica surface". *Journal of Applied Polymer Science*. 2016. 133(30). <https://doi.org/10.1002/app.43717>
- Kapgate, Bharat P. et al. "Effect of silane integrated sol-gel derived in situ silica on the properties of nitrile rubber". *Journal of Applied Polymer Science*. 2014. 131(15). <https://doi.org/10.1002/app.40531>
- Kapgate, Bharat P. et al. "Effect of sol-gel derived in situ silica on the morphology and mechanical behavior of natural rubber and acrylonitrile butadiene rubber blends". *JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY*. 2012, 63(3). 501-509. <https://doi.org/10.1007/s10971-012-2812-9>
- Karilainen, Topi et al. "Oxidation of cholesterol does not alter significantly its uptake into high-density lipoprotein particles". *Journal of Physical Chemistry Part B*. 2015, 119(13). 4594-4600. <https://doi.org/10.1021/acs.jpcc.5b00240>
- Karilainen, Topi et al. "Van der Waals interactions are critical in Car-Parrinello molecular dynamics simulations of porphyrin-fullerene dyads". *Journal of Computational Chemistry*. 2015, 36(9). 612-621. <https://doi.org/10.1002/jcc.23834>
- Karjalainen, Panu et al. "Strategies To Diminish the Emissions of Particles and Secondary Aerosol Formation from Diesel Engines". *Environmental science & technology*. 2019, 53(17). 10408-10416. <https://doi.org/10.1021/acs.est.9b04073>
- Karjalainen, M. et al. "Recovery characteristics of different tube materials in relation to combustion products". *International Journal for Ion Mobility Spectrometry*. 2020. <https://doi.org/10.1007/s12127-020-00266-z>
- Kärkkäinen, M. et al. "The Influence of Phosphorus Exposure on a Natural-Gas-Oxidation Catalyst". *Topics in Catalysis*. 2016, 59(10-12). 1044-1048. <https://doi.org/10.1007/s11244-016-0587-x>
- Karvinen, Jennika et al. "Soft hydrazone crosslinked hyaluronan- and alginate-based hydrogels as 3D supportive matrices for human pluripotent stem cell-derived neuronal cells". *Reactive and Functional Polymers*. 2018, 124. 29-39. <https://doi.org/10.1016/j.reactfunctpolym.2017.12.019>
- Kaski, Jaakko et al. "Experimental and theoretical study of the spin-spin coupling tensors in methylsilane". *Journal of Physical Chemistry A*. 1999, 103(48). 9669-9677. <https://doi.org/10.1021/jp9920491>

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

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

Kato, Daiki et al. "High-Yield Excited Triplet States in Pentacene Self-Assembled Monolayers on Gold Nanoparticles through Singlet Exciton Fission". *Angewandte Chemie (International Edition)*. 2016, 55(17). 5230-5234. <https://doi.org/10.1002/anie.201601421>

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

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

Kekonen, Atte et al. "Bioimpedance Sensor Array for Long-Term Monitoring of Wound Healing from Beneath the Primary Dressings and Controlled Formation of H<sub>2</sub>O<sub>2</sub> Using Low-Intensity Direct Current". *Sensors*. 2019. 19(11). <https://doi.org/10.3390/s19112505>

Kellomäki, Aarre, Pirjo Kuula-Väisänen and Pertti Nieminen. "Sorption and retention of ethylene glycol monoethyl ether (EGME) on silicas". *Journal of Colloid and Interface Science*. 1989, 129(2). 373-378. [https://doi.org/10.1016/0021-9797\(89\)90450-5](https://doi.org/10.1016/0021-9797(89)90450-5)

Kerst, Thomas et al. "Alpha radiation-induced luminescence by am-241 in aqueous nitric acid solution". *Sensors (Switzerland)*. 2019. 19(7). <https://doi.org/10.3390/s19071602>

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

Khan, Musammir et al. "Manipulation of polycarbonate urethane bulk properties via incorporated zwitterionic polynorbornene for tissue engineering application". *RSC Advances*. 2015, 5(15). 11284-11292. <https://doi.org/10.1039/C4RA14608E>

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

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

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

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

Khan, M. Nuruzzaman et al. "Fabrication of ssDNA/oligo(ethylene glycol) monolayers and complex nanostructures by an irradiation-promoted exchange reaction". *Angewandte Chemie (International Edition)*. 2012, 51(41). 10303-10306. <https://doi.org/10.1002/anie.201204245>

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

Khvorost, Taras A. 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>

Kiilakoski, J. et al. "Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings". *Surface and Coatings Technology*. 2019, 371. 245-254. <https://doi.org/10.1016/j.surfcoat.2018.10.097>

Knasmüller, Siegfried et al. "Mutational spectra of Salmonella typhimurium revertants induced by chlorohydroxyfuranones, byproducts of chlorine disinfection of drinking water". *Chemical Research in Toxicology*. 1996, 9(2). 374-381. <https://doi.org/10.1021/tx9500686>

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

Köhler, Melanie et al. "pH-dependent deformations of the energy landscape of avidin-like proteins investigated by single molecule force spectroscopy". *Molecules*. 2014, 19(8). 12531-12546. <https://doi.org/10.3390/molecules190812531>

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

Kordmahaleh, Aidin Alinezhad et al. "Design of a 25 MWe Solar Thermal Power Plant in Iran with Using Parabolic Trough Collectors and a Two-Tank Molten Salt Storage System". *International Journal of Photoenergy*. 2017. 2017. <https://doi.org/10.1155/2017/4210184>

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

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

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

Kousoulidou, Marina et al. "Impact of biodiesel application at various blending ratios on passenger cars of different fueling technologies". *Fuel*. 2012, 98. 88-94. <https://doi.org/10.1016/j.fuel.2012.03.038>

Kovács, Péter Tamás et al. "Architectures and codecs for real-time light field streaming". *Journal of Imaging Science and Technology*. 2017. 61(1). <https://doi.org/10.2352/J.ImagingSci.Technol.2017.61.1.010403>

Kramb, Jason et al. "Elimination of arsenic-containing emissions from gasification of chromated copper arsenate wood". *Fuel*. 2016, 181. 319-324. <https://doi.org/10.1016/j.fuel.2016.04.109>

Kramb, Jason et al. "The effects of calcium and potassium on CO<sub>2</sub> gasification of birch wood in a fluidized bed". *Fuel*. 2017, 196. 398-407. <https://doi.org/10.1016/j.fuel.2017.01.101>

Kulig, Waldemar et al. "Cholesterol oxidation products and their biological importance". *Chemistry and Physics of Lipids*. 2016, 199. 144-160. <https://doi.org/10.1016/j.chemphyslip.2016.03.001>

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

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

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

Kulig, Waldemar, Piotr Kubisiak and Lukasz Cwiklik. "Steric and electronic effects in the host-guest hydrogen bonding in clathrate hydrates". *Journal of Physical Chemistry A*. 2011, 115(23). 6149-6154. <https://doi.org/10.1021/jp111245z>

Kulig, Waldemar et al. "Complex Behavior of Phosphatidylcholine-Phosphatidic Acid Bilayers and Monolayers: Effect of Acyl Chain Unsaturation". *Langmuir*. 2019, 35(17). 5944-5956. <https://doi.org/10.1021/acs.langmuir.9b00381>

Kuroda, Kiyonori et al. "A Pentacene-based Nanotube Displaying Enriched Electrochemical and Photochemical Activities". *Angewandte Chemie - International Edition*. 2019, 58(4). 1115-1119. <https://doi.org/10.1002/anie.201812976>

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

Kuusipalo, Jurkka and Johanna Lahti "Tampere University of Technology, laboratory of materials science, paper converting and packaging technology Tampere, Finland". *16th TAPPI European PLACE Conference 2017: Basel; Switzerland; 22 May 2017 through 24 May 2017*. TAPPI Press. 2017.

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

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

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

Kwolek, Urszula et al. "Effect of Phosphatidic Acid on Biomembrane: Experimental and Molecular Dynamics Simulations Study". *Journal of Physical Chemistry Part B*. 2015, 119(31). 10042-10051. <https://doi.org/10.1021/acs.jpccb.5b03604>

Lahbib, Ikram et al. "Synthesis, Structural Characterization, Hirshfeld Surface and Antioxidant Activity Analysis of a Novel Organic Cation Antimonate Complex". *Journal of Cluster Science*. 2017, 28(4). 2239-2252. <https://doi.org/10.1007/s10876-017-1217-x>

Lahikainen, Markus, Hao Zeng, and Arri Priimagi. "Design principles for non-reciprocal photomechanical actuation". *Soft Matter*. 2020, 16(25). 5951-5958. <https://doi.org/10.1039/d0sm00624f>

Lahti, Johanna et al. "Improving the effect of nanoscale barrier coating on BOPP film properties: Influence of substrate contamination, web handling and pretreatments". *TAPPI PLACE Conference 2014*. TAPPI Press. 2014, 1039-1061.



Lahti, Johanna "Nanoscale barrier coating on BOPP packaging film by ALD". *TAPPI PLACE Conference 2016: Exploring New Frontiers*. TAPPI Press. 2016, 493-505.

Lahti, Johanna et al. "The effects of corona and flame treatment: Part 2. PE-HD and PP coated papers". *TAPPI Press - 12th European PLACE Conference 2009*. 2009, 278-314.

Lahti, Johanna, Jurkka Kuusipalo, and Sanna Auvinen "Novel equipment to simulate hot air heat sealability of packaging materials". *16th TAPPI European PLACE Conference 2017*. TAPPI Press. 2017, 237-248.

Lahti, Johanna, Taina Kamppuri, and Jurkka Kuusipalo "Novel bio-based materials for active and intelligent packaging". *16th TAPPI European PLACE Conference 2017*. TAPPI Press. 2017.

Lahti, Johanna "Nanocellulose and Polylactic Acid Based Multilayer Coatings for Barrier Applications". *17th Biennial TAPPI European PLACE Conference 2019*. TAPPI Press. 2019, 446-455.

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

Lahtinen, Kimmo and Jurkka Kuusipalo "Statistical modeling of water vapor transmission rates for extrusion-coated papers". *TAPPI 2008 PLACE Conference: Innovations in Flexible Consumer Packaging*. 2008.

Lahtinen, Kimmo et al. "Improving the effect of a nanoscale barrier coating on BOPP film properties by surface pretreatments". *14th European PLACE Conference 2013*. TAPPI Press. 2013, 469-493.

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

Lai, Ka Man, Zaheer Ahmad Nasir, and Jonathon Taylor "Bioaerosols and Hospital Infections". *Aerosol Science: Technology and Applications*. Wiley-Blackwell. 2014, 271-289. <https://doi.org/10.1002/9781118682555.ch11>

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

Larnimaa, Santeri et al. "High-resolution analysis of the  $\nu_3$  band of radiocarbon methane  $^{14}\text{CH}_4$ ". *Chemical Physics Letters*. 2020. 750. <https://doi.org/10.1016/j.cplett.2020.137488>

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

Laurén, Patrick et al. "Pectin and Mucin Enhance the Bioadhesion of Drug Loaded Nanofibrillated Cellulose Films". *Pharmaceutical Research*. 2018. 35(7). <https://doi.org/10.1007/s11095-018-2428-z>

Le, H. H. et al. "Formation and stability of carbon nanotube network in natural rubber: Effect of non-rubber components". *Polymer*. 2015, 73. 111-121. <https://doi.org/10.1016/j.polymer.2015.07.044>

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

- Le, H. H. et al. "The role of linked phospholipids in the rubber-filler interaction in carbon nanotube (CNT) filled natural rubber (NR) composites". *Polymer*. 2014, 55(18). 4738-4747. <https://doi.org/10.1016/j.polymer.2014.07.043>
- Le, Hai Hong et al. "Effect of non-rubber components of NR on the carbon nanotube (CNT) localization in SBR/NR blends". *Macromolecular Materials and Engineering*. 2014, 299(5). 569-582. <https://doi.org/10.1002/mame.201300254>
- Le, H. H. et al. "Location of dispersing agent in rubber nanocomposites during mixing process". *Polymer*. 2013, 54(26). 7009-7021. <https://doi.org/10.1016/j.polymer.2013.10.038>
- Le, H. H. et al. "Kinetics of filler wetting and dispersion in carbon nanotube/rubber composites". *Carbon*. 2012, 50(12). 4543-4556. <https://doi.org/10.1016/j.carbon.2012.05.039>
- Lee, Tae Yong et al. "Alginate microgels created by selective coalescence between core drops paired with an ultrathin shell". *Journal of Materials Chemistry B*. 2016, 4(19). 3232-3238. <https://doi.org/10.1039/c6tb00580b>
- Lemmetyinen, Helge et al. "Time-resolved fluorescence methods (IUPAC technical report)". *Pure and Applied Chemistry*. 2014, 86(12). 1969-1998. <https://doi.org/10.1515/pac-2013-0912>
- Lemouagna, Patrick N. et al. "Spodumene tailings for porcelain and structural materials: Effect of temperature (1050–1200°C) on the sintering and properties". *Minerals Engineering*. 2019. <https://doi.org/10.1016/j.mineng.2019.105843>
- Lepcha, A. et al. "Electrospun Black Titania Nanofibers: Influence of Hydrogen Plasma-Induced Disorder on the Electronic Structure and Photoelectrochemical Performance". *Journal of Physical Chemistry C*. 2015, 119(33). 18835-18842. <https://doi.org/10.1021/acs.jpcc.5b02767>
- Lepistö, Satu S. and Jukka A. Rintala. "Start-up and Operation of Laboratory-Scale Thermophilic Upflow Anaerobic Sludge Blanket Reactors Treating Vegetable Processing Wastewaters". *Journal of Chemical Technology and Biotechnology*. 1997, 68(3). 331-339. [https://doi.org/10.1002/\(SICI\)1097-4660\(199703\)68:3<331::AID-JCTB657>3.0.CO;2-Z](https://doi.org/10.1002/(SICI)1097-4660(199703)68:3<331::AID-JCTB657>3.0.CO;2-Z)
- Lesot, Philippe et al. "Calculation of the molecular ordering parameters of ( $\pm$ )-3-butyn-2-ol dissolved in an organic solution of poly( $\gamma$ -benzyl-L-glutamate)". *Journal of Physical Chemistry A*. 1997, 101(31). 5719-5724. <https://doi.org/10.1021/jp9709262>
- Leuteritz, A. et al. "Layered Double Hydroxides (LDH): A multifunctional versatile system for nanocomposites". *Molecular Crystals and Liquid Crystals*. 2012, 556. 107-113. <https://doi.org/10.1080/15421406.2012.635923>
- Levämäki, H. et al. "An automated algorithm for reliable equation of state fitting of magnetic systems". *Computational Materials Science*. 2019, 156. 121-128. <https://doi.org/10.1016/j.commatsci.2018.09.026>
- Levin, Marcus et al. "Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials: implications for testing and risk assessment". *Journal of Nanoparticle Research*. 2015, 17(8). <https://doi.org/10.1007/s11051-015-3139-6>
- Levoska, J., T. T. Rantala and J. Lenkkeri. "Numerical simulation of temperature distributions in layered structures during laser processing". *Applied Surface Science*. 1989, 36(1-4). 12-22. [https://doi.org/10.1016/0169-4332\(89\)90895-7](https://doi.org/10.1016/0169-4332(89)90895-7)
- Li, Zhuo et al. "Rational design of a printable, highly conductive silicone-based electrically conductive adhesive for stretchable radio-frequency antennas". *Advanced Functional Materials*. 2015, 25(3). 464-470. <https://doi.org/10.1002/adfm.201403275>
- Li, Yan et al. "Detection and verification of glycosylation patterns of glycoproteins from clinical specimens using lectin microarrays and lectin-based immunosorbent assays". *Analytical Chemistry*. 2011, 83(22). 8509-8516. <https://doi.org/10.1021/ac201452f>

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

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

Linko, Veikko et al. "Defined-size DNA triple crossover construct for molecular electronics: Modification, positioning and conductance properties". *Nanotechnology*. 2011. 22(27). <https://doi.org/10.1088/0957-4484/22/27/275610>

Lis, Mateusz et al. "The effect of lipid oxidation on the water permeability of phospholipids bilayers". *Physical Chemistry Chemical Physics*. 2011, 13(39). 17555-17563. <https://doi.org/10.1039/c1cp21009b>

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

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

Liu, Y. et al. "Internal structure, hygroscopic and reactive properties of mixed sodium methanesulfonate-sodium chloride particles". *Physical Chemistry Chemical Physics*. 2011, 13(25). 11846-11857. <https://doi.org/10.1039/c1cp20444k>

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

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

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

Lowe, S. J. et al. "Key drivers of cloud response to surface-active organics". *Nature Communications*. 2019. 10(1). <https://doi.org/10.1038/s41467-019-12982-0>

Luna, E. et al. "Spontaneous formation of three-dimensionally ordered Bi-rich nanostructures within GaAs<sub>1-x</sub>Bi<sub>x</sub>/GaAs quantum wells". *Nanotechnology*. 2016. 27(32). <https://doi.org/10.1088/0957-4484/27/32/325603>

Ma, Li et al. "CO oxidation catalyzed by neutral and anionic Cu<sub>20</sub> clusters: Relationship between charge and activity". *Physical Chemistry Chemical Physics*. 2015, 17(10). 7067-7076. <https://doi.org/10.1039/c5cp00365b>

Ma, Li et al. "DFT simulations and microkinetic modelling of 1-pentyne hydrogenation on Cu<sub>20</sub> model catalysts". *Journal of Molecular Graphics and Modelling*. 2016, 65. 61-70. <https://doi.org/10.1016/j.jmgm.2016.02.007>

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

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

- Ma, Li et al. "Density functional theory study of FePd<sub>n</sub> (n = 2-14) clusters and interactions with small molecules". *Computational Materials Science*. 2013, 68. 166-173. <https://doi.org/10.1016/j.commat.2012.10.014>
- Ma, Li, Jianguang Wang and Guanghou Wang. "Search for global minimum geometries of medium sized Cd<sub>n</sub>Te<sub>n</sub> clusters (n = 15, 16, 20, 24 and 28)". *Chemical Physics Letters*. 2012, 552. 73-77. <https://doi.org/10.1016/j.cplett.2012.09.036>
- Ma, Li, Raymond Atta-Fynn and Asok K. Ray. "Elemental and mixed actinide dioxides: An ab initio study". *Journal of Theoretical and Computational Chemistry*. 2012, 11(3). 611-629. <https://doi.org/10.1142/S021963361250040X>
- Ma, Li, Koblar Alan Jackson and Julius Jellinek. "Site-specific polarizabilities as predictors of favorable adsorption sites on Nan clusters". *Chemical Physics Letters*. 2011, 503(1-3). 80-85. <https://doi.org/10.1016/j.cplett.2010.12.049>
- Ma, Li, Kari Laasonen, and Jaakko Akola. "Catalytic Activity of AuCu Clusters on MgO(100): Effect of Alloy Composition for CO Oxidation". *Journal of Physical Chemistry C*. 2017, 121(20). 10876-10886. <https://doi.org/10.1021/acs.jpcc.6b12054>
- Magarkar, Aniket et al. "Membrane bound COMT isoform is an interfacial enzyme: General mechanism and new drug design paradigm". *Chemical Communications*. 2018, 54(28). 3440-3443. <https://doi.org/10.1039/c8cc00221e>
- Mah, Pei T. et al. "Elucidation of Compression-Induced Surface Crystallization in Amorphous Tablets Using Sum Frequency Generation (SFG) Microscopy". *Pharmaceutical Research*. 2017, 34(5). 957-970. <https://doi.org/10.1007/s11095-016-2046-6>
- Mahimwalla, Zahid et al. "Azobenzene photomechanics: Prospects and potential applications". *Polymer Bulletin*. 2012, 69(8). 967-1006. <https://doi.org/10.1007/s00289-012-0792-0>
- Mahmood, Nasir et al. "Carbon nanotubes-filled thermoplastic polyurethane-urea and carboxylated acrylonitrile butadiene rubber blend nanocomposites". *Journal of Applied Polymer Science*. 2014. 131(11). <https://doi.org/10.1002/app.40341>
- Mäkelä, J. et al. "Effects of thinning and heating for TiO<sub>2</sub>/AlInP junctions". *Journal of Electron Spectroscopy and Related Phenomena*. 2015, 205. 6-9. <https://doi.org/10.1016/j.elspec.2015.08.004>
- Mäkelä, Jyrki M. et al. "Liquid flame spray—a hydrogen-oxygen flame based method for nanoparticle synthesis and functional nanocoatings". *KONA POWDER AND PARTICLE JOURNAL*. 2017, 2017(34). 141-154. <https://doi.org/10.14356/kona.2017020>
- Mäki, A. J. et al. "Modeling carbon dioxide transport in PDMS-based microfluidic cell culture devices". *Chemical Engineering Science*. 2015, 137. 515-524. <https://doi.org/10.1016/j.ces.2015.06.065>
- Mal, J. et al. "Metal chalcogenide quantum dots: Biotechnological synthesis and applications". *RSC Advances*. 2016, 6(47). 41477-41495. <https://doi.org/10.1039/c6ra08447h>
- Mandal, Sadananda et al. "Photoinduced Energy Transfer in ZnCdSeS Quantum Dot-Phthalocyanines Hybrids". *ACS Omega*. 2018, 3(8). 10048-10057. <https://doi.org/10.1021/acsomega.8b01623>
- Mandal, Sadananda and Nikolai V. Tkachenko. "Multiphoton Excitation of CsPbBr<sub>3</sub> Perovskite Quantum Dots (PQDs): How Many Electrons Can One PQD Donate to Multiple Molecular Acceptors?". *Journal of Physical Chemistry Letters*. 2019, 2775-2781. <https://doi.org/10.1021/acs.jpcc.9b01045>
- Manea, Liliana Rozemarie et al. "Equipment for obtaining polymeric nanofibres by electrospinning technology: II. The obtaining of polymeric nanofibers". *Materiale Plastice*. 2015, 52(2). 180-185.

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

Manna, Moutusi and Chaitali Mukhopadhyay. "Molecular dynamics simulations of the interactions of kinin peptides with an anionic POPG bilayer". *Langmuir*. 2011, 27(7). 3713-3722. <https://doi.org/10.1021/la104046z>

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

Manninen, Hanna et al. "Taste compound – Nanocellulose interaction assessment by fluorescence indicator displacement assay". *Food Chemistry*. 2020. 318. <https://doi.org/10.1016/j.foodchem.2020.126511>

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

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

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

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

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

Matikainen, V. et al. "Erosion wear performance of WC-10Co4Cr and Cr<sub>3</sub>C<sub>2</sub>-25NiCr coatings sprayed with high-velocity thermal spray processes". *Surface and Coatings Technology*. 2019, 370. 196-212. <https://doi.org/10.1016/j.surfcoat.2019.04.067>

Matsuo, Shota et al. "The electrooxidation-induced structural changes of gold di-superatomic molecules: Au<sub>23</sub> vs. Au<sub>25</sub>". *Physical Chemistry Chemical Physics*. 2016, 18(6). 4822-4827. <https://doi.org/10.1039/c5cp06969f>

McManamon, Colm et al. "A facile route to synthesis of S-doped TiO<sub>2</sub> nanoparticles for photocatalytic activity". *Journal of Molecular Catalysis A: Chemical*. 2015, 406. 51-57. <https://doi.org/10.1016/j.molcata.2015.05.002>

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

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

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

- Mettänen, Marja and Ulrich Hirn. "A comparison of five optical surface topography measurement methods". *TAPPI Journal*. 2015, 14(1). 27-38.
- Milani, Roberto et al. "Hierarchical Self-Assembly of Halogen-Bonded Block Copolymer Complexes into Upright Cylindrical Domains". *Chem*. 2017, 2(3). 417-426. <https://doi.org/10.1016/j.chempr.2017.02.003>
- Milanti, A. et al. "Effect of spraying parameters on the microstructural and corrosion properties of HVOF-sprayed Fe-Cr-Ni-B-C coatings". *Surface and Coatings Technology*. 2015, 277. 81-90. <https://doi.org/10.1016/j.surfcoat.2015.07.018>
- Miller, Abigail E. et al. "Behavior of  $\beta$ -amyloid 1-16 at the air-water interface at varying pH by nonlinear spectroscopy and molecular dynamics simulations". *Journal of Physical Chemistry A*. 2011, 115(23). 5873-5880. <https://doi.org/10.1021/jp110103j>
- Milne, D. et al. "Morphological and structural changes in laser CVD of silicon: comparison of theoretical temperature calculations with experimental results". *Applied Surface Science*. 1989, 43(1-4). 81-86. [https://doi.org/10.1016/0169-4332\(89\)90194-3](https://doi.org/10.1016/0169-4332(89)90194-3)
- Mohanty, Aruna Kumar et al. "Electromagnetic interference shielding effectiveness of MWCNT filled poly(ether sulfone) and poly(ether imide) nanocomposites". *Polymer Engineering and Science*. 2014, 54(11). 2560-2570. <https://doi.org/10.1002/pen.23804>
- Mojica, Edson, Said Pertuz and Henry Arguello. "High-resolution coded-aperture design for compressive X-ray tomography using low resolution detectors". *Optics Communications*. 2017, 404. 103-109. <https://doi.org/10.1016/j.optcom.2017.06.053>
- Mokarian-Tabari, Parvaneh et al. "Study of the kinetics and mechanism of rapid self-assembly in block copolymer thin films during solvo-microwave annealing". *Langmuir*. 2014, 30(35). 10728-10739. <https://doi.org/10.1021/la503137q>
- Molnar, W. et al. "Ballistic and numerical simulation of impacting goods on conveyor belt rubber". *Polymer Testing*. 2015, 42. 1-7. <https://doi.org/10.1016/j.polymertesting.2014.12.001>
- Moormann, Widukind et al. "Efficient Conversion of Light to Chemical Energy: Directional, Chiral Photoswitches with Very High Quantum Yields". *Angewandte Chemie - International Edition*. 2020, 59(35). 15081-15086. <https://doi.org/10.1002/anie.202005361>
- Moradi, Mahmoud, Giray Enkavi and Emad Tajkhorshid. "Atomic-level characterization of transport cycle thermodynamics in the glycerol-3-phosphate: Phosphate antiporter". *Nature Communications*. 2015. 6. <https://doi.org/10.1038/ncomms9393>
- Mordon, Serge and Geneviève Bourg-Heckly. "Photodiagnostic et chirurgie guidés par la fluorescence". *ACTUALITE CHIMIQUE*. 2015, (397-398). 41-45.
- Mubarakali, Davoodbasha et al. "New reports on anti-bacterial and anti-candidal activities of fatty acid methyl esters (FAME) obtained from *Scenedesmus bijugatus* var. *bicellularis* biomass". *RSC Advances*. 2012, 2(30). 11552-11556. <https://doi.org/10.1039/c2ra21130k>
- Mylläri, Ville et al. "Production of sulfonated polyetheretherketone/polypropylene fibers for photoactive textiles". *Journal of Applied Polymer Science*. 2015. 132(39). <https://doi.org/10.1002/app.42595>
- Mylläri, Ville, Tero-Petri Ruoko, and Seppo Syrjälä. "A comparison of rheology and FTIR in the study of polypropylene and polystyrene photodegradation". *Journal of Applied Polymer Science*. 2015. 132(28). <https://doi.org/10.1002/app.42246>

- Mylläri, Ville et al. "Detergent impurity effect on recycled HDPE: Properties after repetitive processing". *Journal of Applied Polymer Science*. 2016. 133(31). <https://doi.org/10.1002/app.43766>
- Nair, Anju K. et al. "Multifunctional nitrogen sulfur co-doped reduced graphene oxide – Ag nano hybrids (sphere, cube and wire) for nonlinear optical and SERS applications". *Carbon*. 2018, 132. 380-393. <https://doi.org/10.1016/j.carbon.2018.02.068>
- Nandre, Kamalakar P. et al. "Glycerol mediated synthesis of 5-substituted 1H-tetrazole under catalyst free conditions". *Chinese Chemical Letters*. 2012, 23(2). 161-164. <https://doi.org/10.1016/j.ccl.2011.11.019>
- Näreoja, Tuomas et al. "Kinetics of bioconjugate nanoparticle label binding in a sandwich-type immunoassay". *Analytical and Bioanalytical Chemistry*. 2014, 406(2). 493-503. <https://doi.org/10.1007/s00216-013-7474-0>
- Närhi, Mikko et al. "Machine learning analysis of extreme events in optical fibre modulation instability". *Nature Communications*. 2018. 9(1). <https://doi.org/10.1038/s41467-018-07355-y>
- Nazir, Rashid et al. " $\pi$ -Expanded  $\alpha,\beta$ -unsaturated ketones: Synthesis, optical properties, and two-photon-induced polymerization". *ChemPhysChem*. 2015, 16(3). 682–690. <https://doi.org/10.1002/cphc.201402646>
- Nieminen, Ville et al. "A compact olfactometer for IMS measurements and testing human perception". *International Journal for Ion Mobility Spectrometry*. 2018, 21(3). 71-80. <https://doi.org/10.1007/s12127-018-0235-1>
- Nisato, Giovanni , Donald Lupo and Simone Ganz, ed. *Organic and Printed Electronics: Fundamentals and Applications 1* udg. Singapore: PAN STANFORD PUBLISHING. 2016. <https://doi.org/10.1201/b20043>
- Niskanen, Mika et al. "Porphyrin adsorbed on the (1010) surface of the wurtzite structure of ZnO-conformation induced effects on the electron transfer characteristics". *Physical Chemistry Chemical Physics*. 2013, 15(40). 17408-17418. <https://doi.org/10.1039/c3cp51685g>
- Nogueira, Idelfonso B.R. et al. "Dynamics of a True Moving Bed separation process: Linear model identification and advanced process control". *Journal of Chromatography A*. 2017. 1504. <https://doi.org/10.1016/j.chroma.2017.04.060>
- Ntziachristos, L. et al. "Particle emissions characterization from a medium-speed marine diesel engine with two fuels at different sampling conditions". *Fuel*. 2016, 186. 456-465. <https://doi.org/10.1016/j.fuel.2016.08.091>
- Nykänen, Hannu, Promise A. Mpamah, and Antti J. Rissanen. "Stable carbon isotopic composition of peat columns, subsoil and vegetation on natural and forestry-drained boreal peatlands". *Isotopes in Environmental and Health Studies*. 2018. 54(6). <https://doi.org/10.1080/10256016.2018.1523158>
- Nymark, Penny et al. "Toward Rigorous Materials Production: New Approach Methodologies Have Extensive Potential to Improve Current Safety Assessment Practices". *Small*. 2020. 16(6). <https://doi.org/10.1002/smll.201904749>
- Ojha, N. et al. "Decomposition of persistent luminescent microparticles in corrosive phosphate glass melt". *Corrosion Science*. 2018, 135. 207-214. <https://doi.org/10.1016/j.corsci.2018.02.050>
- Ojha, N. et al. "Upconversion from fluorophosphate glasses prepared with NaYF<sub>4</sub>:Er<sup>3+</sup>, Yb<sup>3+</sup> nanocrystals". *RSC Advances*. 2018, 8(34). 19226-19236. <https://doi.org/10.1039/c8ra03298j>
- Ojha, N. et al. "Nucleation and growth behavior of Er<sup>3+</sup> doped oxyfluorophosphate glasses". *RSC Advances*. 2020, 10(43). 25703-25716. <https://doi.org/10.1039/d0ra04681g>

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

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

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

Olżyńska, Agnieszka et al. "Tail-Oxidized Cholesterol Enhances Membrane Permeability for Small Solutes". *Langmuir*. 2020, 36(35). 10438-10447. <https://doi.org/10.1021/acs.langmuir.0c01590>

Ometov, Aleksandr et al. "Positioning information privacy in intelligent transportation systems: An overview and future perspective". *Sensors*. 2019. 19(7). <https://doi.org/10.3390/s19071603>

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

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

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

Pakarinen, Outi, Annamari Lehtomäki, and Jukka Rintala. "Batch dark fermentative hydrogen production from grass silage: The effect of inoculum, pH, temperature and VS ratio". *International Journal of Hydrogen Energy*. 2008, 33(2). 594-601. <https://doi.org/10.1016/j.ijhydene.2007.10.008>

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

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

Palmolahti, Lauri et al. "Modification of Surface States of Hematite-Based Photoanodes by Submonolayer of TiO<sub>2</sub> for Enhanced Solar Water Splitting". *Journal of Physical Chemistry C*. 2020, 124(24). 13094-13101. <https://doi.org/10.1021/acs.jpcc.0c00798>

Pasanen, Hannu P. et al. "Monitoring Charge Carrier Diffusion across a Perovskite Film with Transient Absorption Spectroscopy". *The journal of physical chemistry letters*. 2020, 11(2). 445-450. <https://doi.org/10.1021/acs.jpcclett.9b03427>

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

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

Pegado, Luís et al. "Solvation and ion-pairing properties of the aqueous sulfate anion: Explicit versus effective electronic polarization". *Physical Chemistry Chemical Physics*. 2012, 14(29). 10248-10257. <https://doi.org/10.1039/c2cp40711f>



- Pekkanen, Timo T. et al. "Kinetics and thermochemistry of the reaction of 3-methylpropargyl radical with molecular oxygen". *PROCEEDINGS OF THE COMBUSTION INSTITUTE*. 2019, 37(1). 299-306. <https://doi.org/10.1016/j.proci.2018.05.050>
- Pelado, Beatriz et al. "Role of the bridge in photoinduced electron transfer in porphyrin-fullerene dyads". *Chemistry: A European Journal*. 2015, 21(15). 5814-5825. <https://doi.org/10.1002/chem.201406514>
- Pelkonen, Anssi et al. "A modular brain-on-a-chip for modelling epileptic seizures with functionally connected human neuronal networks". *Biosensors and Bioelectronics*. 2020. 168. <https://doi.org/10.1016/j.bios.2020.112553>
- Pelto, Jani M. et al. "Surface properties and interaction forces of biopolymer-doped conductive polypyrrole surfaces by atomic force microscopy". *Langmuir*. 2013, 29(20). 6099-6108. <https://doi.org/10.1021/la4009366>
- Perander, M. et al. "Catalytic effect of Ca and K on CO<sub>2</sub> gasification of spruce wood char". *Fuel*. 2015, 150. 464-472. <https://doi.org/10.1016/j.fuel.2015.02.062>
- Perumbilavil, Sreekanth et al. "Nonlinear transmittance and optical power limiting in magnesium ferrite nanoparticles: effects of laser pulsewidth and particle size". *RSC Advances*. 2016, 6(108). 106754-106761. <https://doi.org/10.1039/c6ra15788b>
- Perumbilavil, Sreekanth et al. "Beaming random lasers with soliton control". *Nature Communications*. 2018. 9(1). <https://doi.org/10.1038/s41467-018-06170-9>
- Petrov, Michal, Lukasz Cwiklik and Pavel Jungwirth. "Interactions of molecular ions with model phospholipid membranes". *Collection of Czechoslovak Chemical Communications*. 2011, 76(6). 695-711. <https://doi.org/10.1135/cccc2011026>
- Piccardi, A. et al. "Nematicon-enhanced spontaneous symmetry breaking". *Molecular Crystals and Liquid Crystals*. 2017, 649(1). 59-65. <https://doi.org/10.1080/15421406.2017.1303916>
- Pilehrood, Mohammad Kazemi et al. "3D micro-nano structured hybrid scaffolds: An investigation into the role of nanofiber coating on viability, proliferation and differentiation of seeded mesenchymal stem cells". *Journal Nanoscience and Nanotechnology*. 2016, 16(9). 9000-9007. <https://doi.org/10.1166/jnn.2016.12740>
- Pirhonen, Mikko, Mikko Peltokangas, and Antti Vehkaoja. "Acquiring respiration rate from photoplethysmographic signal by recursive bayesian tracking of intrinsic modes in time-frequency spectra". *Sensors*. 2018. 18(6). <https://doi.org/10.3390/s18061693>
- Pirjola, Liisa et al. "Effects of fresh lubricant oils on particle emissions emitted by a modern gasoline direct injection passenger car". *Environmental Science and Technology*. 2015, 49(6). 3644-3652. <https://doi.org/10.1021/es505109u>
- Pirjola, Liisa et al. "Physical and Chemical Characterization of Real-World Particle Number and Mass Emissions from City Buses in Finland". *Environmental Science and Technology*. 2016, 50(1). 294-304. <https://doi.org/10.1021/acs.est.5b04105>
- Pirjola, L. et al. "Exhaust emissions of non-road mobile machine: Real-world and laboratory studies with diesel and HVO fuels". *Fuel*. 2017, 202. 154-164. <https://doi.org/10.1016/j.fuel.2017.04.029>
- Pluhařová, Eva et al. "Peptide salt bridge stability: From gas phase via microhydration to bulk water simulations". *Journal of Chemical Physics*. 2012. 137(18). <https://doi.org/10.1063/1.4765052>
- Pluhařová, Eva, Petr Slavíček and Pavel Jungwirth. "Modeling photoionization of aqueous DNA and its components". *Accounts of Chemical Research*. 2015, 48(5). 1209-1217. <https://doi.org/10.1021/ar500366z>

- Pluhařová, Eva et al. "Hydration of the chloride ion in concentrated aqueous solutions using neutron scattering and molecular dynamics". *Molecular Physics*. 2014, 112(9-10). 1230-1240. <https://doi.org/10.1080/00268976.2013.875231>
- Pluhařová, Eva, Philip E. Mason and Pavel Jungwirth. "Ion pairing in aqueous lithium salt solutions with monovalent and divalent counter-anions". *Journal of Physical Chemistry A*. 2013, 117(46). 11766-11773. <https://doi.org/10.1021/jp402532e>
- Pluhařová, Eva et al. "Transforming anion instability into stability: Contrasting photoionization of three protonation forms of the phosphate ion upon moving into water". *Journal of Physical Chemistry Part B*. 2012, 116(44). 13254-13264. <https://doi.org/10.1021/jp306348b>
- Pluhařová, Eva et al. "Ionization of purine tautomers in nucleobases, nucleosides, and nucleotides: From the gas phase to the aqueous environment". *Journal of Physical Chemistry Part B*. 2011, 115(5). 1294-1305. <https://doi.org/10.1021/jp110388v>
- Poikelispää, Minna et al. "Improvement of actuation performance of dielectric elastomers by barium titanate and carbon black fillers". *Journal of Applied Polymer Science*. 2016. 133(42). <https://doi.org/10.1002/app.44116>
- Poikelispää, Minna et al. "Vegetable fillers for electric stimuli responsive elastomers". *Journal of Applied Polymer Science*. 2017. 134(28). <https://doi.org/10.1002/app.45081>
- Poikkimäki, Mikko et al. "Nanocluster Aerosol Emissions of a 3D Printer". *Environmental Science and Technology*. 2019, 53(23). 13618–13628. <https://doi.org/10.1021/acs.est.9b05317>
- Pollheimer, Philipp et al. "Reversible biofunctionalization of surfaces with a switchable mutant of avidin". *Bioconjugate Chemistry*. 2013, 24(10). 1656-1668. <https://doi.org/10.1021/bc400087e>
- Poojari, Chetan et al. "Behavior of the DPH fluorescence probe in membranes perturbed by drugs". *Chemistry and Physics of Lipids*. 2019. 223. <https://doi.org/10.1016/j.chemphyslip.2019.104784>
- Poutanen, Mikko, Olli Ikkala, and Arri Priimägi. "Structurally Controlled Dynamics in Azobenzene-Based Supramolecular Self-Assemblies in Solid State". *Macromolecules*. 2016, 49(11). 4095-4101. <https://doi.org/10.1021/acs.macromol.6b00562>
- Poutanen, Mikko et al. "Thermal Isomerization of Hydroxyazobenzenes as a Platform for Vapor Sensing". *ACS Macro Letters*. 2018, 7(3). 381-386. <https://doi.org/10.1021/acsmacrolett.8b00093>
- Priimägi, Arri, Christopher J. Barrett and Atsushi Shishido. "Recent twists in photoactuation and photoalignment control". *Journal of Materials Chemistry C*. 2014, 2(35). 7155-7162. <https://doi.org/10.1039/c4tc01236d>
- Priimägi, Arri and Andriy Shevchenko. "Azopolymer-based micro- and nanopatterning for photonic applications". *Journal of Polymer Science. Part B, Polymer Physics*. 2014, 52(3). 163-182. <https://doi.org/10.1002/polb.23390>
- Priimägi, Arri et al. "The Halogen Bond in the Design of Functional Supramolecular Materials: Recent Advances". *Accounts of Chemical Research*. 2013, 46(11). 2686-2695. <https://doi.org/10.1021/ar400103r>
- Priimägi, Arri et al. "Location of the Azobenzene moieties within the cross-linked liquid-crystalline polymers can dictate the direction of photoinduced bending". *ACS Macro Letters*. 2012, 1(1). 96-99. <https://doi.org/10.1021/mz200056w>
- Priimägi, Arri et al. "Halogen bonding versus hydrogen bonding in driving self-assembly and performance of light-responsive supramolecular polymers". *Advanced Functional Materials*. 2012, 22(12). 2572-2579. <https://doi.org/10.1002/adfm.201200135>

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

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

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

Rahaman, Obaidur et al. "Role of Internal Water on Protein Thermal Stability: The Case of Homologous G Domains". *Journal of Physical Chemistry Part B*. 2015, 119(29). 8939-8949. <https://doi.org/10.1021/jp507571u>

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

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

Rajala, Satu et al. "High Bending-Mode Sensitivity of Printed Piezoelectric Poly(vinylidene fluoride- co-trifluoroethylene) Sensors". *ACS Omega*. 2018, 3(7). 8067-8073. <https://doi.org/10.1021/acsomega.8b01185>

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

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

Rantala, Tuomo S., Tapio T. Rantala and Vilho Lantto. "Computational studies for the interpretation of gas response of SnO<sub>2</sub>(110) surface". *Sensors and Actuators B: Chemical*. 2000, 65(1). 375-378. [https://doi.org/10.1016/S0925-4005\(99\)00292-0](https://doi.org/10.1016/S0925-4005(99)00292-0)

Rantala, Tapio T., Tuomo S. Rantala and Vilho Lantto. "Surface relaxation of the (110) face of rutile SnO<sub>2</sub>". *Surface Science*. 1999, 420(1). 103-109. [https://doi.org/10.1016/S0039-6028\(98\)00833-4](https://doi.org/10.1016/S0039-6028(98)00833-4)

Rantala, Tuomo, Vilho Lantto, and Tapio Rantala. "Computational approaches to the chemical sensitivity of semiconducting tin dioxide". *Sensors and Actuators B: Chemical*. 1998, 47(1-3). 59-64. [https://doi.org/10.1016/S0925-4005\(98\)00007-0](https://doi.org/10.1016/S0925-4005(98)00007-0)

Rantala, Tapio T. et al. "Surface relaxation of the (1010) face of wurtzite CdS". *Surface Science*. 1996, 352-354. 77-82. [https://doi.org/10.1016/0039-6028\(95\)01094-7](https://doi.org/10.1016/0039-6028(95)01094-7)

Rantala, Tapio T., Daniel A. Jelski and Thomas F. George. "Si<sub>10</sub> and photoabsorption spectra of mid-sized silicon clusters". *Chemical Physics Letters*. 1995, 232(3). 215-220. [https://doi.org/10.1016/0009-2614\(94\)01342-S](https://doi.org/10.1016/0009-2614(94)01342-S)

Rantala, T. S., V. Lantto, and T. T. Rantala. "A cluster approach for the SnO<sub>2</sub> (110) face". *Sensors and Actuators B: Chemical*. 1994, 19(1-3). 716-719. [https://doi.org/10.1016/0925-4005\(93\)01220-X](https://doi.org/10.1016/0925-4005(93)01220-X)

Rantala, T. S., V. Lantto, and T. T. Rantala. "Rate equation simulation of the height of Schottky barriers at the surface of oxidic semiconductors". *Sensors and Actuators B: Chemical*. 1993, 13(1-3). 234-237. [https://doi.org/10.1016/0925-4005\(93\)85369-L](https://doi.org/10.1016/0925-4005(93)85369-L)

Rantala, Tapio T., Daniel A. Jelski and Thomas F. George. "Electronic and structural properties of Si<sub>10</sub> cluster". *Journal of Cluster Science*. 1990, 1(2). 189-200. <https://doi.org/10.1007/BF00702719>

Rantala, T. T., A. Rosén and B. Helsing. "A finite cluster approach to the electron-hole pair damping of the adsorbate vibration: CO adsorbed on Cu(100)". *Journal of Electron Spectroscopy and Related Phenomena*. 1986, 39(C). 173-181. [https://doi.org/10.1016/0368-2048\(86\)85045-9](https://doi.org/10.1016/0368-2048(86)85045-9)

Rantala, Tapio T., Bo Wästberg and Arne Rosén. "Potential energy curves for diatomic molecules calculated with numerical basis functions". *Chemical Physics*. 1986, 109(2-3). 261-268. [https://doi.org/10.1016/0301-0104\(86\)87056-2](https://doi.org/10.1016/0301-0104(86)87056-2)

Rantala, T. T., A. Rosén and B. Helsing. "A Finite Cluster Approach to the Electron-Hole Pair Damping of the Adsorbate Vibration: CO Adsorbed on Cu(100)". *Studies in Surface Science and Catalysis*. 1986, 26(C). 173-181. [https://doi.org/10.1016/S0167-2991\(09\)61238-6](https://doi.org/10.1016/S0167-2991(09)61238-6)

Rantala, T. et al. "Direct measurement of the kinetic energy shift between the molecular and atomic M<sub>4,5</sub>N<sub>4,5</sub>N<sub>4,5</sub> Auger spectra of iodine". *Chemical Physics Letters*. 1979, 66(2). 384-386. [https://doi.org/10.1016/0009-2614\(79\)85040-X](https://doi.org/10.1016/0009-2614(79)85040-X)

Rasappa, Sozaraj et al. "High quality sub-10 nm graphene nanoribbons by on-chip PS-b-PDMS block copolymer lithography". *RSC Advances*. 2015, 5(82). 66711-66717. <https://doi.org/10.1039/c5ra11735f>

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

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

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

Ray, Santanu et al. "Neutralized chimeric avidin binding at a reference biosensor surface". *Langmuir*. 2015, 31(6). 1921-1930. <https://doi.org/10.1021/la503213f>

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

Reeta, P. Silviya et al. "Photophysical properties of Sn (IV)tetraphenylporphyrin-pyrene dyad with a  $\beta$ -vinyl linker". *Journal of Porphyrins and Phthalocyanines*. 2015, 19(1-3). 288-300. <https://doi.org/10.1142/S1088424615500108>

Reisberg, L. et al. "UPS and DFT investigation of the electronic structure of gas-phase trimesic acid". *Journal of Electron Spectroscopy and Related Phenomena*. 2016, 213. 11-16. <https://doi.org/10.1016/j.elspec.2016.10.004>

Rembert, Kelvin B. et al. "Molecular mechanisms of ion-specific effects on proteins". *Journal of the American Chemical Society*. 2012, 134(24). 10039-10046. <https://doi.org/10.1021/ja301297g>

Reshef, Orad et al. "Multiresonant High-Q Plasmonic Metasurfaces". *Nano Letters*. 2019, 19(9). 6429-6434. <https://doi.org/10.1021/acs.nanolett.9b02638>

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

- Rinne, Jukka et al. "M2M Communication Assessment in Energy-Harvesting and Wake-Up Radio Assisted Scenarios Using Practical Components". *Sensors (Basel, Switzerland)*. 2018. 18(11). <https://doi.org/10.3390/s18113992>
- Robison, Aaron D. et al. "Polyarginine Interacts More Strongly and Cooperatively than Polylysine with Phospholipid Bilayers". *Journal of Physical Chemistry Part B*. 2016, 120(35). 9287-9296. <https://doi.org/10.1021/acs.jpcc.6b05604>
- Rocherullé, J. et al. "Heat capacities of crystalline and glassy lithium metaphosphate up to the transition region". *Journal of Thermal Analysis and Calorimetry*. 2016, 123(1). 401-407. <https://doi.org/10.1007/s10973-015-4938-9>
- Rokade, Shalaka S. et al. "Gloriosa superba Mediated Synthesis of Platinum and Palladium Nanoparticles for Induction of Apoptosis in Breast Cancer". *Bioinorganic Chemistry and Applications*. 2018. 2018. <https://doi.org/10.1155/2018/4924186>
- Roldin, Pontus et al. "The role of highly oxygenated organic molecules in the Boreal aerosol-cloud-climate system". *Nature Communications*. 2019. 10(1). <https://doi.org/10.1038/s41467-019-12338-8>
- Roop, Sandip et al. "Understanding the reinforcing behavior of expanded clay particles in natural rubber compounds". *Soft Matter*. 2013, 9(14). 3798-3808. <https://doi.org/10.1039/c3sm27519a>
- Roop, Sandip et al. "Highly exfoliated natural rubber/Clay composites by "propping-open procedure": The influence of fatty-acid chain length on exfoliation". *Macromolecular Materials and Engineering*. 2012, 297(4). 369-383. <https://doi.org/10.1002/mame.201100185>
- Roop, Sandip, Amit Das and Gert Heinrich. "Tube-like natural halloysite/fluoroelastomer nanocomposites with simultaneous enhanced mechanical, dynamic mechanical and thermal properties". *European Polymer Journal*. 2011, 47(9). 1746-1755. <https://doi.org/10.1016/j.eurpolymj.2011.06.007>
- Ropo, Matti, Jaakko Akola and Robert O. Jones. "Collective excitations and viscosity in liquid Bi". *Journal of Chemical Physics*. 2016. 145(18). <https://doi.org/10.1063/1.4965429>
- Ruoko, Tero-Petri et al. "Charge carrier dynamics in tantalum oxide overlayers and tantalum doped hematite photoanodes". *Journal of Materials Chemistry A*. 2019, 7(7). 3206-3215. <https://doi.org/10.1039/C8TA09501A>
- Rytkönen, A., S. Valkealahti and M. Manninen. "Phase diagram of argon clusters". *Journal of Chemical Physics*. 1998, 108(14). 5826-5833. <https://doi.org/10.1063/1.475993>
- Rytkönen, A., S. Valkealahti and M. Manninen. "Melting and evaporation of argon clusters". *Journal of Chemical Physics*. 1997, 106(5). 1888-1892. <https://doi.org/10.1063/1.473327>
- Saad-Bin-Alam, Md et al. "High-Q resonance train in a plasmonic metasurface". *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings*. IEEE. 2019. <https://doi.org/10.23919/CLEO.2019.8750206>
- Saari, Timo and Jouko Nieminen. "Spin filtering in silicene by edges and chemically or electrically induced interfaces". *Journal of Physics and Chemistry of Solids*. 2019, 128. 316-324. <https://doi.org/10.1016/j.jpcs.2017.12.037>
- Saarikoski, Eve, Marja Rissanen and Jukka Seppälä. "Effect of rheological properties of dissolved cellulose/microfibrillated cellulose blend suspensions on film forming". *Carbohydrate Polymers*. 2015, 119. 62-70. <https://doi.org/10.1016/j.carbpol.2014.11.033>
- Saarimaa, Ville et al. "Supercritical carbon dioxide treatment of hot dip galvanized steel as a surface treatment before coating". *Surface and Coatings Technology*. 2017, 331. 137-142. <https://doi.org/10.1016/j.surfcoat.2017.10.047>

- Saarimaa, Ville et al. "Convenient extraction method for quantification of thin zinc patina layers". *Surface and Interface Analysis*. 2018, 50(5). 564-570. <https://doi.org/10.1002/sia.6429>
- Saccone, Marco et al. "Halogen-bonded photoresponsive materials". *Halogen Bonding II: Impact on Materials Chemistry and Life Sciences*. Topics in Current Chemistry. Springer International Publishing. 2015, 147-166. [https://doi.org/10.1007/128\\_2014\\_615](https://doi.org/10.1007/128_2014_615)
- Saccone, Marco et al. "Supramolecular hierarchy among halogen and hydrogen bond donors in light-induced surface patterning". *Journal of Materials Chemistry C*. 2015, 3. 759-768. <https://doi.org/10.1039/c4tc02315c>
- Saccone, Marco et al. "Photoresponsive ionic liquid crystals assembled: Via halogen bond: En route towards light-controllable ion transporters". *Faraday Discussions*. 2017, 203. 407-422. <https://doi.org/10.1039/c7fd00120g>
- Saccone, Marco et al. "Ortho-Fluorination of azophenols increases the mesophase stability of photoresponsive hydrogen-bonded liquid crystals". *Journal of Materials Chemistry C*. 2018, 6(37). 9958-9963. <https://doi.org/10.1039/c8tc02611d>
- Sadiek, Ibrahim et al. "Optical frequency comb photoacoustic spectroscopy". *Physical Chemistry Chemical Physics*. 2018, 20(44). 27849-27855. <https://doi.org/10.1039/c8cp05666h>
- Sadiek, Ibrahim et al. "Optical Frequency Comb Photoacoustic Spectroscopy". *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings*. IEEE. 2019. <https://doi.org/10.23919/CLEO.2019.8749688>
- Saegusa, Toshiyuki et al. "Controlled Orientations of Neighboring Tetracene Units by Mixed Self-Assembled Monolayers on Gold Nanoclusters for High-Yield and Long-Lived Triplet Excited States through Singlet Fission". *Journal of the American Chemical Society*. 2019, 141(37). 14720-14727. <https://doi.org/10.1021/jacs.9b06567>
- Sakai, Hayato et al. "High-Yield Generation of Triplet Excited States by an Efficient Sequential Photoinduced Process from Energy Transfer to Singlet Fission in Pentacene-Modified CdSe/ZnS Quantum Dots". *Chemistry - A European Journal*. 2018, 24(64). 17062-17071. <https://doi.org/10.1002/chem.201803257>
- Sakuma, Takao et al. "Long-Lived Triplet Excited States of Bent-Shaped Pentacene Dimers by Intramolecular Singlet Fission". *Journal of Physical Chemistry A*. 2016, 120(11). 1867-1875. <https://doi.org/10.1021/acs.jpca.6b00988>
- Salmenjoki, Henri, Mikko J. Alava, and Lasse Laurson. "Machine learning plastic deformation of crystals". *Nature Communications*. 2018. 9(1). <https://doi.org/10.1038/s41467-018-07737-2>
- Salunke, Jagadish K. et al. "Phenothiazine and carbazole substituted pyrene based electroluminescent organic semiconductors for OLED devices". *Journal of Materials Chemistry C*. 2016, 4(5). 1009-1018. <https://doi.org/10.1039/c5tc03690a>
- Salunke, Jagadish K. et al. "Pyrene based conjugated materials: Synthesis, characterization and electroluminescent properties". *Physical Chemistry Chemical Physics*. 2014, 16(42). 23320-23328. <https://doi.org/10.1039/c4cp03693j>
- Sanginés, R. et al. "Optimal emission enhancement in orthogonal double-pulse laser-induced breakdown spectroscopy". *Spectrochimica Acta Part B: Atomic Spectroscopy*. 2015, 110. 139-145. <https://doi.org/10.1016/j.sab.2015.06.012>
- Sankari, Anna et al. "Non-radiative decay and fragmentation in water molecules after 1 a 1-1 4 a 1 excitation and core ionization studied by electron-energy-resolved electron-ion coincidence spectroscopy". *Journal of Chemical Physics*. 2020. 152(7). <https://doi.org/10.1063/1.5141414>

- Santos, Fábio M F et al. "A Three-Component Assembly Promoted by Boronic Acids Delivers a Modular Fluorophore Platform (BASHY Dyes)". *Chemistry: A European Journal*. 2016, 22(5). 1631-1637. <https://doi.org/10.1002/chem.201503943>
- Sariola, Veikko. "Analytical Expressions for Spring Constants of Capillary Bridges and Snap-in Forces of Hydrophobic Surfaces". *Langmuir*. 2019, 35(22). 7129-7135. <https://doi.org/10.1021/acs.langmuir.9b00152>
- Sarlin, E. et al. "The effect of substrate pre-treatment on durability of rubber-stainless steel adhesion". *Surfaces and Interfaces*. 2020. 21. <https://doi.org/10.1016/j.surfin.2020.100646>
- Sassatelli, Paolo et al. "Properties of HVOF-sprayed Stellite-6 coatings". *Surface and Coatings Technology*. 2018, 338. 45-62. <https://doi.org/10.1016/j.surfcoat.2018.01.078>
- Sautter, Jürgen D. et al. "Tailoring Second-Harmonic Emission from (111)-GaAs Nanoantennas". *Nano Letters*. 2019, 19(6). 3905-3911. <https://doi.org/10.1021/acs.nanolett.9b01112>
- Savolainen, Janne et al. "Direct observation of the collapse of the delocalized excess electron in water". *Nature Chemistry*. 2014, 6(8). 697-701. <https://doi.org/10.1038/nchem.1995>
- Schraik, Daniel et al. "Bayesian inversion of a forest reflectance model using Sentinel-2 and Landsat 8 satellite images". *JOURNAL OF QUANTITATIVE SPECTROSCOPY AND RADIATIVE TRANSFER*. 2019, 233. 1-12. <https://doi.org/10.1016/j.jqsrt.2019.05.013>
- Schroeder, Christi A. et al. "Oxidation half-reaction of aqueous nucleosides and nucleotides via photoelectron spectroscopy augmented by ab initio calculations". *Journal of the American Chemical Society*. 2015, 137(1). 201-209. <https://doi.org/10.1021/ja508149e>
- Seo, Jung Yoon et al. "Tri-functionality of Fe<sub>3</sub>O<sub>4</sub>-embedded carbon microparticles in microalgae harvesting". *Chemical Engineering Journal*. 2015, 280. 206-214. <https://doi.org/10.1016/j.cej.2015.05.122>
- Serak, Svetlana V., Nelson V. Tabiryán, and Gaetano Assanto. "Nematicons in azobenzene liquid crystals". *Molecular Crystals and Liquid Crystals*. 2012, 559. 202-213. <https://doi.org/10.1080/15421406.2012.658710>
- Shakun, Alexandra et al. "Improved electromechanical response in acrylic rubber by different carbon-based fillers". *Polymer Engineering and Science*. 2018, 58(3). 395-404. <https://doi.org/10.1002/pen.24586>
- Shakun, Alexandra, Essi Sarlin, and Jyrki Vuorinen. "Energy dissipation in natural rubber latex films: The effect of stabilizers, leaching and acetone-treatment". *Journal of Applied Polymer Science*. 2020. <https://doi.org/10.1002/app.49609>
- Sharma, Ramakant, Sagar Bhalerao and Dipti Gupta. "Effect of incorporation of CdS NPs on performance of PTB7: PCBM organic solar cells". *Organic Electronics: physics, materials, applications*. 2016, 33. 274-280. <https://doi.org/10.1016/j.orgel.2016.03.030>
- Sharma, Vipul et al. "Large-scale efficient water harvesting using bioinspired micro-patterned copper oxide nanoneedle surfaces and guided droplet transport". *Nanoscale Advances*. 2019, 1(10). 4025-4040. <https://doi.org/10.1039/c9na00405j>
- Sharma, Rajesh O., Tapio T. Rantala and Philip E. Hoggan. "Selective hydrogen production at Pt(111) investigated by Quantum Monte Carlo methods for metal catalysis". *International Journal of Quantum Chemistry*. 2020. 120(11). <https://doi.org/10.1002/qua.26198>
- Shevkunov, Igor et al. "Spectral object recognition in hyperspectral holography with complex-domain denoising". *Sensors (Switzerland)*. 2019. 19(23). <https://doi.org/10.3390/s19235188>

Shin, Jaeoh, Andrey G. Cherstvy and Ralf Metzler. "Kinetics of polymer looping with macromolecular crowding: Effects of volume fraction and crowder size". *Soft Matter*. 2015, 11(3). 472-488. <https://doi.org/10.1039/c4sm02007c>

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

Shin, Mingue et al. "Low-dimensional formamidinium lead perovskite architectures via controllable solvent intercalation". *Journal of Materials Chemistry C*. 2019, 7(13). 3945-3951. <https://doi.org/10.1039/c9tc00379g>

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

Siljander, Sanna et al. "Effect of surfactant type and sonication energy on the electrical conductivity properties of nanocellulose-CNT nanocomposite films". *International Journal of Molecular Sciences*. 2018. 19(6). <https://doi.org/10.3390/ijms19061819>

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

Smith, James David et al. "London Hybrid Exposure Model: Improving Human Exposure Estimates to NO<sub>2</sub> and PM<sub>2.5</sub> in an Urban Setting". *Environmental Science and Technology*. 2016, 50(21). 11760-11768. <https://doi.org/10.1021/acs.est.6b01817>

Solovyev, Aleksey I. et al. "Photochemistry of dithiophosphinate Ni(S<sub>2</sub>P(i-Bu)<sub>2</sub>)<sub>2</sub> complex in CCl<sub>4</sub>. Transient species and TD-DFT calculations". *Journal of Photochemistry and Photobiology A: Chemistry*. 2019. 381. <https://doi.org/10.1016/j.jphotochem.2019.111857>

Song, Xuemei et al. "Effect of melting state on the thermal shock resistance and thermal conductivity of APS ZrO<sub>2</sub>-7.5wt.% Y<sub>2</sub>O<sub>3</sub> coatings". *Surface and Coatings Technology*. 2015, 270. 132-138. <https://doi.org/10.1016/j.surfcoat.2015.03.011>

Sorvajärvi, Tapio et al. "Rate constant and thermochemistry for K + O<sub>2</sub> + N<sub>2</sub> = KO<sub>2</sub> + N<sub>2</sub>". *Journal of Physical Chemistry A*. 2015, 119(14). 3329-3336. <https://doi.org/10.1021/acs.jpca.5b00755>

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

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