

Abada A, Abbrescia M, AbdusSalam SS, Abdyukhanov I, Abelleira Fernandez J, Abramov A, Aburaia M, Acar AO, Adzic PR, Agrawal P, Aguilar-Saavedra JA, Aguilera-Verdugo JJ, Aiba M, Aichinger I, Aielli G, Akay A, Akhundov A, Aksakal H, Albacete JL, Albergo S, Alekou A, Aleksa M, Aleksan R, Alemany Fernandez RM, Alexahin Y, Alía RG, Alioli S, Alipour Tehrani N, Allanach BC, Allport PP, Altınlı M, Altmannshofer W, Ambrosio G, Amorim D, Amstutz O, Anderlini L, Andreazza A, Andreini M, Andriatis A, Andris C, Andronic A, Angelucci M, Antinori F, Antipov SA, Antonelli M, Antonello M, Lehtinen T, Penttinen JP, Salmi T, Stenvall A. 2019. FCC-hh: The Hadron Collider: Future Circular Collider Conceptual Design Report Volume 3. *European Physical Journal: Special Topics*. 228(4):755-1107. <https://doi.org/10.1140/epjst/e2019-900087-0>

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

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

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

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

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

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

Akimova AV, Grin MA, Golovina GV, Kokrashvili TA, Vinogradov AM, Mironov AF, Rychkov GN, Shtil AA, Kuzmin VA, Durandin NA. 2014. Novel derivatives of bacteriochlorophyll a: Complex formation with albumin and the mechanism of tumor cell photodamage. *DOKLADY BIOCHEMISTRY AND BIOPHYSICS*. 454(1):17-20. <https://doi.org/10.1134/S1607672914010062>

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

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

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

Ali-Löytty H, Louie MW, Singh MR, Li L, Sanchez Casalongue HG, Ogasawara H, Crumlin EJ, Liu Z, Bell AT, Nilsson A, Friebel D. 2016. Ambient-Pressure XPS Study of a Ni-Fe Electrocatalyst for the Oxygen Evolution Reaction. *Journal of Physical Chemistry C*. 120(4):2247-2253. <https://doi.org/10.1021/acs.jpcc.5b10931>

- Ali-Löyty H, Hannula M, Honkanen M, Östman K, Lahtonen K, Valden M. 2016. Grain orientation dependent Nb-Ti microalloying mediated surface segregation on ferritic stainless steel. *Corrosion Science*. 112:204-213. <https://doi.org/10.1016/j.corsci.2016.07.024>
- Allolio C, Baxova K, Vazdar M, Jungwirth P. 2016. Guanidinium Pairing Facilitates Membrane Translocation. *Journal of Physical Chemistry Part B*. 120(1):143-153. <https://doi.org/10.1021/acs.jpcc.5b10404>
- Amanatidis S, Ntziachristos L, Giechaskiel B, Bergmann A, Samaras Z. 2014. Impact of selective catalytic reduction on exhaust particle formation over excess ammonia events. *Environmental Science and Technology*. 48(19):11527-11534. <https://doi.org/10.1021/es502895v>
- Anttalainen O, Puton J, Kontunen A, Karjalainen M, Kumpulainen P, Oksala N, Safaei Z, Roine A. 2019. Possible strategy to use differential mobility spectrometry in real time applications. *International Journal for Ion Mobility Spectrometry*. <https://doi.org/10.1007/s12127-019-00251-1>
- Arvani M, Keskinen J, Railanmaa A, Siljander S, Björkqvist T, Tuukkanen S, Lupo D. 2020. Additive manufacturing of monolithic supercapacitors with biopolymer separator. *Journal of Applied Electrochemistry*. 50(6):689-697. <https://doi.org/10.1007/s10800-020-01423-2>
- Asikainen S, Paakinaho K, Kyhkynen AK, Hannula M, Malin M, Ahola N, Kellomäki M, Seppälä J. 2019. Hydrolysis and drug release from poly(ethylene glycol)-modified lactone polymers with open porosity. *European Polymer Journal*. 113:165-175. <https://doi.org/10.1016/j.eurpolymj.2019.01.056>
- Assoah B, Riihonen V, Vale JR, Valkonen A, Candeias NR. 2019. Synthesis of 6,12-disubstituted methanodibenzo[b,f][1,5]dioxocins: Pyrrolidine catalyzed self-condensation of 2'-Hydroxyacetophenones. *Molecules*. 24(13). <https://doi.org/10.3390/molecules24132405>
- Auer S, Nirschl M, Schreiter M, Vikholm-Lundin I. 2011. Detection of DNA hybridisation in a diluted serum matrix by surface plasmon resonance and film bulk acoustic resonators. *Analytical and Bioanalytical Chemistry*. 400(5):1387-1396. <https://doi.org/10.1007/s00216-011-4871-0>
- Ayodele OB, Cai R, Wang J, Ziouani Y, Liang Z, Spadaro MC, Kovnir K, Arbiol J, Akola J, Palmer RE, Kolen'Ko YV. 2019. Synergistic Computational-Experimental Discovery of Highly Selective PtCu Nanocluster Catalysts for Acetylene Semihydrogenation. *ACS CATALYSIS*. 451-457. <https://doi.org/10.1021/acscatal.9b03539>
- Bączkiewicz J, Malaska M, Pajunen S, Alanen M, Heinisuo M. 2020. Experimental study on axially loaded square hollow section T-joints under fire conditions. *FIRE SAFETY JOURNAL*. 114. <https://doi.org/10.1016/j.firesaf.2020.102993>
- Baek J, Umeyama T, Stranius K, Yamada H, Tkachenko NV, Imahori H. 2017. Long-Range Observation of Exciplex Formation and Decay Mediated by One-Dimensional Bridges. *Journal of Physical Chemistry C*. 121(25):13952-13961. <https://doi.org/10.1021/acs.jpcc.7b04483>
- Baek J, Umeyama T, Mizuno S, Tkachenko NV, Imahori H. 2017. Photophysical properties of porphyrin dimer-single-walled carbon nanotube linked systems. *Journal of Physical Chemistry C*. 121(39). <https://doi.org/10.1021/acs.jpcc.7b08594>
- Bajamundi CJE, Vainikka P, Hedman M, Silvennoinen J, Heinanen T, Taipale R, Kontinen J. 2015. Searching for a robust strategy for minimizing alkali chlorides in fluidized bed boilers during burning of high SRF-energy-share fuel. *Fuel*. 155:25-36. <https://doi.org/10.1016/j.fuel.2015.03.087>
- Balanta MAG, Orsi Gordo V, Carvalho ARH, Puustinen J, Alghamdi HM, Henini M, Galeti HVA, Guina M, Galvão Gobato Y. 2017. Polarization resolved photoluminescence in GaAs<sub>1-x</sub>Bi<sub>x</sub>/GaAs quantum wells. *Journal of Luminescence*. 182:49-52. <https://doi.org/10.1016/j.jlumin.2016.10.008>

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

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

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

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

Barboza R, Bortolozzo U, Assanto G, Residori S. 2013. Optical vortex generation in nematic liquid crystal light valves. *Molecular Crystals and Liquid Crystals*. 572(1):24-30. <https://doi.org/10.1080/15421406.2012.763206>

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

Barreca D, Carraro G, Warwick MEA, Kaunisto K, Gasparotto A, Gombac V, Sada C, Turner S, Van Tendeloo G, Maccato C, Fornasiero P. 2015. Fe<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> nanosystems by a hybrid PE-CVD/ALD approach: controllable synthesis, growth mechanism, and photocatalytic properties. *CrystEngComm*. 17(32):6219-6226. <https://doi.org/10.1039/c5ce00883b>

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

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

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

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

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

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

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

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

Bhagyaraj S, Perumbilavil S, Udayabashkar R, Mangalaraja RV, Thomas S, Kalarikkal N, Oluwafemi OS. 2019. Tuning of nonlinear absorption in highly luminescent CdSe based quantum dots with core-shell and core/multi-shell architectures. *Physical Chemistry Chemical Physics*. 21(21):11424-11434. <https://doi.org/10.1039/c9cp00476a>

Bianchi F, Kurtén T, Riva M, Mohr C, Rissanen MP, Roldin P, Berndt T, Crouse JD, Wennberg PO, Mentel TF, Wildt J, Junninen H, Jokinen T, Kulmala M, Worsnop DR, Thornton JA, Donahue N, Kjaergaard HG, Ehn M. 2019. Highly Oxygenated Organic Molecules (HOM) from Gas-Phase Autoxidation Involving Peroxy Radicals: A Key Contributor to Atmospheric Aerosol. *Chemical Reviews*. 119(6):3472-3509. <https://doi.org/10.1021/acs.chemrev.8b00395>

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

Boardman AD, Alberucci A, Assanto G, Grimalsky VV, Kibler B, McNiff J, Nefedov IS, Rapoport YG, Valagiannopoulos CA. 2017. Waves in hyperbolic and double negative metamaterials including rogues and solitons. *Nanotechnology*. 28(44). <https://doi.org/10.1088/1361-6528/aa6792>

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

Bolelli G, Berger LM, Börner T, Koivuluoto H, Lusvarghi L, Lyphout C, Markocsan N, Matikainen V, Nylén P, Sassatelli P, Trache R, Vuoristo P. 2015. Tribology of HVOF- and HVOF-sprayed WC-10Co4Cr hardmetal coatings: A comparative assessment. *Surface and Coatings Technology*. 265:125-144. <https://doi.org/10.1016/j.surfcoat.2015.01.048>

Borah D, Rasappa S, Salaun M, Zellsman M, Lorret O, Liontos G, Ntetsikas K, Avgeropoulos A, Morris MA. 2015. 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*. 25(22):3425-3432. <https://doi.org/10.1002/adfm.201500100>

Borah D, Rasappa S, Senthamaraiannan R, Holmes JD, Morris MA. 2015. Block co-polymers for nanolithography: Rapid microwave annealing for pattern formation on substrates. *Polymers*. 7(4):592-609. <https://doi.org/10.3390/polym7040592>

Borah D, Simao CD, Senthamaraiannan R, Rasappa S, Francone A, Lorret O, Salaun M, Kosmala B, Kehagias N, Zelsmann M, Sotomayor-Torres CM, Morris MA. 2013. Soft-graphoepitaxy using nanoimprinted polyhedral oligomeric silsesquioxane substrates for the directed self-Assembly of PS-b-PDMS. *European Polymer Journal*. 49(11):3512-3521. <https://doi.org/10.1016/j.eurpolymj.2013.08.011>

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

Borah D, Ozmen M, Rasappa S, Shaw MT, Holmes JD, Morris MA. 2013. Molecularly functionalized silicon substrates for orientation control of the microphase separation of PS-b-PMMA and PS-b-PDMS block copolymer systems. *Langmuir*. 29(9):2809-2820. <https://doi.org/10.1021/la304140q>

Buchholz M, Goletz CM, Grossmann F, Schmidt B, Heyda J, Jungwirth P. 2012. Semiclassical hybrid approach to condensed phase molecular dynamics: Application to the  $I_2Kr_{17}$  cluster. *Journal of Physical Chemistry A*. 116(46):11199-11210. <https://doi.org/10.1021/jp305084f>

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

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

Çetinkaya AY, Köroğlu EO, Demir NM, Baysoy DY, Özkaya B, Çakmakçı M. 2015. Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration. *Chinese Journal of Catalysis*. 36(7):1068-1076. [https://doi.org/10.1016/S1872-2067\(15\)60833-6](https://doi.org/10.1016/S1872-2067(15)60833-6)

Chakraborty S, Rene ER, Lens PNL, Rintala J, Veiga MC, Kennes C. 2020. Effect of tungsten and selenium on C<sub>1</sub> gas bioconversion by an enriched anaerobic sludge and microbial community analysis. *Chemosphere*. 250. <https://doi.org/10.1016/j.chemosphere.2020.126105>

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

Chevrier DM, Raich L, Rovira C, Das A, Luo Z, Yao Q, Chatt A, Xie J, Jin R, Akola J, Zhang P. 2018. Molecular-Scale Ligand Effects in Small Gold-Thiolate Nanoclusters. *Journal of the American Chemical Society*. 140(45):15430-15436. <https://doi.org/10.1021/jacs.8b09440>

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

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

Chronopoulos A, Thorpe SD, Cortes E, Lachowski D, Rice AJ, Mykuliak VV, Rog T, Lee DA, Hytönen VP, del Río Hernández AE. 2020. Syndecan-4 tunes cell mechanics by activating the kindlin-integrin-RhoA pathway. *Nature Materials*. <https://doi.org/10.1038/s41563-019-0567-1>

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

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

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

Danne R, Poojari C, Martinez-Seara H, Rissanen S, Lolicato F, Róg T, Vattulainen I. 2017. DoGlycans-Tools for Preparing Carbohydrate Structures for Atomistic Simulations of Glycoproteins, Glycolipids, and Carbohydrate Polymers for GROMACS. *Journal of Chemical Information and Modeling*. 57(10):2401-2406. <https://doi.org/10.1021/acs.jcim.7b00237>

Dantelle G, Slablab A, Rondin L, Lainé F, Carrel F, Bergonzo P, Perruchas S, Gacoin T, Treussart F, Roch JF. 2010. Efficient production of NV colour centres in nanodiamonds using high-energy electron irradiation. *Journal of Luminescence*. 130(9):1655-1658. <https://doi.org/10.1016/j.jlumin.2009.12.003>

Das A, George JJ, Kutlu B, Leuteritz A, Wang DY, Rooj S, Jurk R, Rajeshbabu R, Stöckelhuber KW, Galiatsatos V, Heinrich G. 2012. A novel thermotropic elastomer based on highly-filled LDH-SSB composites. *Macromolecular Rapid Communications*. 33(4):337-342. <https://doi.org/10.1002/marc.201100735>

Das A, Wang DY, Leuteritz A, Subramaniam K, Greenwell HC, Wagenknecht U, Heinrich G. 2011. Preparation of zinc oxide free, transparent rubber nanocomposites using a layered double hydroxide filler. *Journal of Materials Chemistry*. 21(20):7194-7200. <https://doi.org/10.1039/c0jm03784b>

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

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

Dehmer M, Emmert-Streib F. 2008. Structural information content of networks: Graph entropy based on local vertex functionals. *Computational Biology and Chemistry*. 32(2):131-138. <https://doi.org/10.1016/j.compbiolchem.2007.09.007>

Dehmer M, Emmert-Streib F, Tsoy YR, Varmuza K. 2011. Quantifying structural complexity of graphs: Information measures in mathematical chemistry. Putz MV, Toimittaja. teoksessa *Quantum Frontiers of Atoms and Molecules*. Nova Science Publishers, Inc. Sivut 479-497.

Dehmer M, Varmuza K, Borgert S, Emmert-Streib F. 2009. On entropy-based molecular descriptors: Statistical analysis of real and synthetic chemical structures. *Journal of Chemical Information and Modeling*. 49(7):1655-1663. <https://doi.org/10.1021/ci900060x>

Dehmer M, Emmert-Streib F. 2008. The structural information content of chemical networks. *Zeitschrift für Naturforschung Section A: A Journal of Physical Sciences*. 63(3-4):155-158.

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

Dessi P, Porca E, Haavisto J, Lakaniemi A-M, Collins G, Lens PNL. 2018. Composition and role of the attached and planktonic microbial communities in mesophilic and thermophilic xylose-fed microbial fuel cells. *RSC Advances*. 8(6):3069-3080. <https://doi.org/10.1039/c7ra12316g>

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

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

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

- Di Capua F, Papirio S, Lens PNL, Esposito G. 2015. Chemolithotrophic denitrification in biofilm reactors. *Chemical Engineering Journal*. 280:643-657. <https://doi.org/10.1016/j.cej.2015.05.131>
- Doddapaneni TRKC, Jain R, Praveenkumar R, Rintala J, Romar H, Konttinen J. 2018. Adsorption of furfural from torrefaction condensate using torrefied biomass. *Chemical Engineering Journal*. 334:558-568. <https://doi.org/10.1016/j.cej.2017.10.053>
- Donadei V, Koivuluoto H, Sarlin E, Vuoristo P. 2020. Lubricated icephobic coatings prepared by flame spraying with hybrid feedstock injection. *Surface and Coatings Technology*. 403. <https://doi.org/10.1016/j.surfcoat.2020.126396>
- Durandin NA, Isokuortti J, Efimov A, Vuorimaa-Laukkanen E, Tkachenko NV, Laaksonen T. 2018. Efficient photon upconversion at remarkably low annihilator concentrations in a liquid polymer matrix: when less is more. *Chemical Communications*. 54(99):14029-14032. <https://doi.org/10.1039/c8cc07592a>
- D'Urso L, Condorelli M, Puglisi O, Tempa C, Lolicato F, Compagnini G, La Rosa C. 2018. Detection and characterization at nM concentration of oligomers formed by hIAPP, A $\beta$ (1-40) and their equimolar mixture using SERS and MD simulations. *Physical Chemistry Chemical Physics*. 20(31):20588-20596. <https://doi.org/10.1039/c7cp08552d>
- Dzieciuch M, Rissanen S, Szydłowska N, Bunker A, Kumorek M, Jamróz D, Vattulainen I, Nowakowska M, Róg T, Kepczynski M. 2015. PEGylated liposomes as carriers of hydrophobic porphyrins. *Journal of Physical Chemistry Part B*. 119(22):6646-6657. <https://doi.org/10.1021/acs.jpcc.5b01351>
- Eklund A, Zhang H, Zeng H, Priimägi A, Ikkala O. 2020. Fast Switching of Bright Whiteness in Channeled Hydrogel Networks. *Advanced Functional Materials*. <https://doi.org/10.1002/adfm.202000754>
- Enkavi G, Li J, Wen P, Thangapandian S, Moradi M, Jiang T, Han W, Tajkhorshid E. 2014. A microscopic view of the mechanisms of active transport across the cellular membrane. *Annual Reports in Computational Chemistry*. 10:77-125. <https://doi.org/10.1016/B978-0-444-63378-1.00004-5>
- Enkavi G, Javanainen M, Kulig W, Róg T, Vattulainen I. 2019. Multiscale Simulations of Biological Membranes: The Challenge To Understand Biological Phenomena in a Living Substance. *Chemical Reviews*. 119(9):5607-5774. <https://doi.org/10.1021/acs.chemrev.8b00538>
- Eregowda T, Rene ER, Rintala J, Lens PNL. 2019. Volatile fatty acid adsorption on anion exchange resins: kinetics and selective recovery of acetic acid. *Separation Science and Technology (Philadelphia)*. <https://doi.org/10.1080/01496395.2019.1600553>
- Eshwaran SB, Basu D, Vaikuntam SR, Kutlu B, Wiessner S, Das A, Naskar K, Heinrich G. 2015. Exploring the role of stearic acid in modified zinc aluminum layered double hydroxides and their acrylonitrile butadiene rubber nanocomposites. *Journal of Applied Polymer Science*. 132(9). <https://doi.org/10.1002/app.41539>
- Evans DM, Holstad TS, Mosberg AB, Småbråten DR, Vullum PE, Dadlani AL, Shapovalov K, Yan Z, Bourret E, Gao D, Akola J, Torgersen J, van Helvoort ATJ, Selbach SM, Meier D. 2020. Conductivity control via minimally invasive anti-Frenkel defects in a functional oxide. *Nature Materials*. <https://doi.org/10.1038/s41563-020-0765-x>
- Fabert M, Ojha N, Erasmus E, Hannula M, Hokka M, Hyttinen J, Rocherullé J, Sigalas I, Massera J. 2017. Crystallization and sintering of borosilicate bioactive glasses for application in tissue engineering. *Journal of Materials Chemistry B*. 5(23):4514-4525. <https://doi.org/10.1039/c7tb00106a>
- Farman AT, Hong SH, Caglayan H, Ye X, Diroll BT, Paik T, Engheta N, Murray CB, Kagan CR. 2013. Chemically tailored dielectric-to-metal transition for the design of metamaterials from nanoimprinted colloidal nanocrystals. *Nano Letters*. 13(2):350-357. <https://doi.org/10.1021/nl303161d>

- Fantozzi D, Matikainen V, Uusitalo M, Koivuluoto H, Vuoristo P. 2019. Chlorine induced high-temperature corrosion mechanisms in HVOF and HVAF sprayed Cr<sub>3</sub>C<sub>2</sub>-based hardmetal coatings. *Corrosion Science*.  
<https://doi.org/10.1016/j.corsci.2019.108166>
- Farooq A, Evreinov G, Raisamo R, Takahata D. 2015. Evaluating transparent liquid screen overlay as a haptic conductor: Method of enhancing touchscreen based user interaction by a transparent deformable liquid screen overlay. *teoksessa 2015 IEEE SENSORS - Proceedings*. Institute of Electrical and Electronics Engineers Inc.  
<https://doi.org/10.1109/ICSENS.2015.7370186>
- Fatarelle E, Mylläri V, Ruzzante M, Pogni R, Baratto MC, Skrifvars M, Syrjälä S, Järvelä P. 2015. Sulfonated polyetheretherketone/polypropylene polymer blends for the production of photoactive materials. *Journal of Applied Polymer Science*. 132(8). <https://doi.org/10.1002/app.41509>
- Fernandez-Palacio F, Saccone M, Priimägi A, Terraneo G, Pilati T, Metrangolo P, Resnati G. 2016. Coordination networks incorporating halogen-bond donor sites and azobenzene groups. *CrystEngComm*. 18(13):2251-2257.  
<https://doi.org/10.1039/c6ce00059b>
- Ferreira SA, Motwani MS, Faull PA, Seymour AJ, Yu TTL, Enayati M, Taheem DK, Salzlechner C, Haghighi T, Kania EM, Oommen OP, Ahmed T, Loaiza S, Parzych K, Dazzi F, Varghese OP, Festy F, Grigoriadis AE, Auner HW, Snijders AP, Bozec L, Gentleman E. 2018. Bi-directional cell-pericellular matrix interactions direct stem cell fate. *Nature Communications*. 9(1). <https://doi.org/10.1038/s41467-018-06183-4>
- Figueira J, Czardybon W, Mesquita JC, Rodrigues J, Lahoz F, Russo L, Valkonen A, Rissanen K. 2015. Synthesis, characterization and solid-state photoluminescence studies of six alkoxy phenylene ethynylene dinuclear palladium(ii) rods. *DALTON TRANSACTIONS*. 44(9):4003-4015. <https://doi.org/10.1039/c4dt00493k>
- Frankberg EJ, George L, Efimov A, Honkanen M, Pessi J, Levänen E. 2015. Measuring synthesis yield in graphene oxide synthesis by modified hummers method. *Fullerenes Nanotubes and Carbon Nanostructures*. 23(9):755-759.  
<https://doi.org/10.1080/1536383X.2014.993754>
- Franzén R. 2000. 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*. 78(7):957-962.  
<https://doi.org/10.1139/v00-089>
- Franzén RG. 2000. Recent advances in the preparation of heterocycles on solid support: A review of the literature. *Journal of Combinatorial Chemistry*. 2(3):195-214. <https://doi.org/10.1021/cc000002f>
- Franzén RG. 2000. Utilization of Grignard reagents in solid-phase synthesis: A review of the literature. *Tetrahedron*. 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 R, Morita M, Tanabe K, Takagi H, Shibata Y. 1997. Investigation of the adducts formed by reaction of butenedioic acids with adenosine. *Chemical Research in Toxicology*. 10(10):1186-1191. <https://doi.org/10.1021/tx970036d>
- Franzén R, Kronberg L. 1995. Synthesis of chlorinated 5-hydroxy 4-methyl-2(5H)-furanones and mucochloric acid. *Tetrahedron Letters*. 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 C, Barberi-Heyob M, Blanchard-Desce M, Bolotine L, Bonneau S, Jimenez CM, Durand JO, Lassalle HP, Lemercier G, Mordon S, Maillard P, Sol V, Vever-Bizet C, Vicendo P. 2015. La thérapie photodynamique: État de l'art et perspectives. *ACTUALITE CHIMIQUE*. (397-398):46-50.
- Gao W, Feng Y, Lu J, Khan M, Guo J. 2012. Biomimetic surface modification of polycarbonateurethane film via phosphorylcholine-graft for resisting platelet adhesion. *Macromolecular Research*. 20(10):1063-1069.  
<https://doi.org/10.1007/s13233-012-0152-9>



- Garifullin M, Sinelnikov A, Bronzova M, Kovacic B, Kamnik R. 2016. Buckling Behavior of Cold-Formed Studs with Thermal Perforations. MATEC Web of Conferences. 73. <https://doi.org/10.1051/mateconf/20167304011>
- Garifullin M. 2018. Experimental moment resistance of rectangular hollow section T joints. MATEC Web of Conferences. 245. <https://doi.org/10.1051/mateconf/201824508003>
- Gebraad AWH, Miettinen S, Grijpma DW, Haimi SP. 2013. Human adipose stem cells in chondrogenic differentiation medium without growth factors differentiate towards annulus fibrosus phenotype in vitro. Macromolecular symposia. 334(1):49-56. <https://doi.org/10.1002/masy.201300104>
- George L, Hiltunen A, Santala V, Efimov A. 2018. Photo-antimicrobial efficacy of zinc complexes of porphyrin and phthalocyanine activated by inexpensive consumer LED lamp. Journal of Inorganic Biochemistry. 183:94-100. <https://doi.org/10.1016/j.jinorgbio.2018.03.015>
- Gerlofs-Nijland ME, Totlandsdal AI, Tzamkiozis T, Leseman DLAC, Samaras Z, Låg M, Schwarze P, Ntziachristos L, Cassee FR. 2013. Cell toxicity and oxidative potential of engine exhaust particles: Impact of using particulate filter or biodiesel fuel blend. Environmental Science and Technology. 47(11):5931-5938. <https://doi.org/10.1021/es305330y>
- German SJ, Behbahani M, Miettinen S, Grijpma DW, Haimi SP. 2013. Proliferation and differentiation of adipose stem cells towards smooth muscle cells on poly(trimethylene carbonate) membranes. Macromolecular symposia. 334(1):133-142. <https://doi.org/10.1002/masy.201300100>
- Ghalibaf M, Doddapaneni TRKC, Alén R. 2019. Pyrolytic behavior of lignocellulosic-based polysaccharides. Journal of Thermal Analysis and Calorimetry. 137(1):121-131. <https://doi.org/10.1007/s10973-018-7919-y>
- Ghorbani M, Dehmer M, Mowshowitz A, Tao J, Emmert-Streib F. 2019. The Hosoya entropy of graphs revisited. Symmetry. 11(8). <https://doi.org/10.3390/sym11081013>
- Ghosh SK, Cherstvy AG, Metzler R. 2015. Non-universal tracer diffusion in crowded media of non-inert obstacles. Physical Chemistry Chemical Physics. 17(3):1847-1858. <https://doi.org/10.1039/c4cp03599b>
- Giammarco J, Zdyrko B, Petit L, Musgraves JD, Hu J, Agarwal A, Kimerling L, Richardson K, Luzinov I. 2011. Towards universal enrichment nanocoating for IR-ATR waveguides. Chemical Communications. 47(32):9104-9106. <https://doi.org/10.1039/c1cc12780b>
- Giammarco JM, Zdyrko B, Hu J, Agarwal A, Kimerling L, Carlie N, Petit L, Richardson K, Luzinov I. 2011. Enrichment polymer layers for detection of volatile vapors by ATR FT-IR. ACS National Meeting Book of Abstracts.
- Gilardi G, Asquini R, D'Alessandro A, Assanto G. 2011. An electro-optically tunable Bragg reflector based on liquid crystals. Molecular Crystals and Liquid Crystals. 549:62-68. <https://doi.org/10.1080/15421406.2011.581137>
- Gil-Gallegos S, Klages R, Solanpää J, Räsänen E. 2019. Energy-dependent diffusion in a soft periodic Lorentz gas. European Physical Journal: Special Topics. 228(1):143-160. <https://doi.org/10.1140/epjst/e2019-800136-8>
- Gladich I, Pfalzgraff W, Maršálek O, Jungwirth P, Roeselová M, Neshyba S. 2011. Arrhenius analysis of anisotropic surface self-diffusion on the prismatic facet of ice. Physical Chemistry Chemical Physics. 13(44):19960-19969. <https://doi.org/10.1039/c1cp22238d>
- Goh J-Q, Malola S, Häkkinen H, Akola J. 2015. Silver sulfide nanoclusters and the superatom model. Journal of Physical Chemistry C. 119(3):1583-1590. <https://doi.org/10.1021/jp511037x>

- Goh JQ, Akola J. 2015. Superatom Model for Ag-S Nanocluster with Delocalized Electrons. *Journal of Physical Chemistry C*. 119(36):21165-21172. <https://doi.org/10.1021/acs.jpcc.5b05824>
- Goh J-Q, Akola J, Ferrando R. 2017. Geometric Structure and Chemical Ordering of Large AuCu Clusters: A Computational Study. *Journal of Physical Chemistry C*. 121(20):10809-10816. <https://doi.org/10.1021/acs.jpcc.6b11958>
- Golovanov V, Golovanova V, Rantala TT. 2016. Thermal desorption of molecular oxygen from SnO<sub>2</sub> (110) surface: Insights from first-principles calculations. *Journal of Physics and Chemistry of Solids*. 89:15-22. <https://doi.org/10.1016/j.jpcs.2015.10.010>
- Golovanov VV, Nazarchuk BV, Golovanova VV, Tkachenko NV, Rantala TT. 2017. Effects of orientation at the phthalocyanine-CdSe interface on the electron transfer characteristics. *Physical Chemistry Chemical Physics*. 19(16):10511-10517. <https://doi.org/10.1039/c7cp00833c>
- Gordon TR, Paik T, Klein DR, Naik GV, Caglayan H, Boltasseva A, Murray CB. 2013. Shape-dependent plasmonic response and directed self-assembly in a new semiconductor building block, indium-doped cadmium oxide (ICO). *Nano Letters*. 13(6):2857-2863. <https://doi.org/10.1021/nl4012003>
- Goulet-Hanssens A, Corkery TC, Priimagi A, Barrett CJ. 2014. Effect of head group size on the photoswitching applications of azobenzene Disperse Red 1 analogues. *Journal of Materials Chemistry C*. 2(36):7505-7512. <https://doi.org/10.1039/c4tc00996g>
- Guglielmetti S, Santala V, Mangayil R, Ciranna A, Karp MT. 2019. O<sub>2</sub>-requiring molecular reporters of gene expression for anaerobic microorganisms. *Biosensors and Bioelectronics*. 123:1-6. <https://doi.org/10.1016/j.bios.2018.09.066>
- Guixà-González R, Albasanz JL, Rodríguez-Espigares I, Pastor M, Sanz F, Martí-Solano M, Manna M, Martínez-Seara H, Hildebrand PW, Martín M, Selent J. 2017. Membrane cholesterol access into a G-protein-coupled receptor. *Nature Communications*. 8. <https://doi.org/10.1038/ncomms14505>
- Gurtovenko AA, Javanainen M, Lolicato F, Vattulainen I. 2019. The Devil Is in the Details: What Do We Really Track in Single-Particle Tracking Experiments of Diffusion in Biological Membranes?. *Journal of Physical Chemistry Letters*. 10(5):1005-1011. <https://doi.org/10.1021/acs.jpcclett.9b00065>
- Haavisto J, Dessì P, Chatterjee P, Honkanen M, Noori MT, Kokko M, Lakaniemi AM, Lens PNL, Puhakka JA. 2019. Effects of anode materials on electricity production from xylose and treatability of TMP wastewater in an up-flow microbial fuel cell. *Chemical Engineering Journal*. 372:141-150. <https://doi.org/10.1016/j.cej.2019.04.090>
- Haavisto JM, Kokko ME, Lakaniemi AM, Sulonen MLK, Puhakka JA. 2020. The effect of start-up on energy recovery and compositional changes in brewery wastewater in bioelectrochemical systems. *BIOELECTROCHEMISTRY*. 132. <https://doi.org/10.1016/j.bioelechem.2019.107402>
- Hajdu-Rahkama R, Özkaya B, Lakaniemi AM, Puhakka JA. 2020. Kinetics and modelling of thiosulphate biotransformations by haloalkaliphilic Thioalkalivibrio versutus. *Chemical Engineering Journal*. 401. <https://doi.org/10.1016/j.cej.2020.126047>
- Hakkarainen TV, Schramm A, Mäkelä J, Laukkanen P, Guina M. 2015. Lithography-free oxide patterns as templates for self-catalyzed growth of highly uniform GaAs nanowires on Si(111). *Nanotechnology*. 26(27). <https://doi.org/10.1088/0957-4484/26/27/275301>
- Häkkinen MR, Roine A, Auriola S, Tuokko A, Veskimäe E, Keinänen TA, Lehtimäki T, Oksala N, Vepsäläinen J. 2013. Analysis of free, mono- and diacetylated polyamines from human urine by LC-MS/MS. *JOURNAL OF CHROMATOGRAPHY B: ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES*. 941:81-89. <https://doi.org/10.1016/j.jchromb.2013.10.009>

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

Halder A, Kandambeth S, Biswal BP, Kaur G, Roy NC, Addicoat M, Salunke JK, Banerjee S, Vanka K, Heine T, Verma S, Banerjee R. 2016. Decoding the Morphological Diversity in Two Dimensional Crystalline Porous Polymers by Core Planarity Modulation. *Angewandte Chemie (International Edition)*. 55(27):7806-7810. <https://doi.org/10.1002/anie.201600087>

Hannula M, Ali-Löytty H, Lahtonen K, Sarlin E, Saari J, Valden M. 2018. Improved Stability of Atomic Layer Deposited Amorphous TiO<sub>2</sub> Photoelectrode Coatings by Thermally Induced Oxygen Defects. *Chemistry of Materials*. 30(4):1199-1208. <https://doi.org/10.1021/acs.chemmater.7b02938>

Härkönen HH, Mattsson JM, Määttä JAE, Stenman UH, Koistinen H, Matero S, Windshügel B, Poso A, Lahtela-Kakkonen M. 2011. The Discovery of Compounds That Stimulate the Activity of Kallikrein-Related Peptidase3 (KLK3). *CHEMMEDCHEM*. 6(12):2170-2178. <https://doi.org/10.1002/cmdc.201100349>

Harra J, Tuominen M, Juuti P, Rissler J, Koivuluoto H, Haapanen J, Niemelä-Anttonen H, Stenroos C, Teisala H, Lahti J, Kuusipalo J, Vuoristo P, Mäkelä JM. 2018. Characteristics of nFOG, an aerosol-based wet thin film coating technique. *Journal of Coatings Technology Research*. 15(3):623-632. <https://doi.org/10.1007/s11998-017-0022-7>

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

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

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

Heikkinen JJ, Kivimäki L, Määttä JAE, Mäkelä I, Hakalahti L, Takkinen K, Kulomaa MS, Hytönen VP, Hormi OEO. 2011. Versatile bio-ink for covalent immobilization of chimeric avidin on sol-gel substrates. *Colloids and Surfaces B: Biointerfaces*. 87(2):409-414. <https://doi.org/10.1016/j.colsurfb.2011.05.052>

Heyda J, Kožíšek M, Bednárova L, Thompson G, Konvalinka J, Vondrášek J, Jungwirth P. 2011. Urea and guanidinium induced denaturation of a Trp-cage miniprotein. *Journal of Physical Chemistry Part B*. 115(28):8910-8924. <https://doi.org/10.1021/jp200790h>

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

Higashino T, Nakatsuji H, Fukuda R, Okamoto H, Imai H, Matsuda T, Tochio H, Shirakawa M, Tkachenko NV, Hashida M, Murakami T, Imahori H. 2017. Hexaphyrin as a Potential Theranostic Dye for Photothermal Therapy and <sup>19</sup>F Magnetic Resonance Imaging. *ChemBioChem*. 18(10):951-959. <https://doi.org/10.1002/cbic.201700071>

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

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

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

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

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

Honkanen M, Hansen TW, Jiang H, Kärkkäinen M, Huuhtanen M, Heikkinen O, Kallinen K, Lahtinen J, Keiski RL, Wagner JB, Vippola M. 2017. Electron microscopic studies of natural gas oxidation catalyst – Effects of thermally accelerated aging on catalyst microstructure. *Journal of Catalysis*. 349:19-29. <https://doi.org/10.1016/j.jcat.2017.03.003>

Honkanen M, Wang J, Kärkkäinen M, Huuhtanen M, Jiang H, Kallinen K, Keiski RL, Akola J, Vippola M. 2018. Regeneration of sulfur-poisoned Pd-based catalyst for natural gas oxidation. *Journal of Catalysis*. 358:253-265. <https://doi.org/10.1016/j.jcat.2017.12.021>

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

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

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

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

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

Hyvönen M, Ala-Korpela M, Vaara J, Rantala TT, Jokisaari J. 1997. 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*. 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 M, Ala-Korpela M, Vaara J, Rantala TT, Jokisaari J. 1995. Effects of two double bonds on the hydrocarbon interior of a phospholipid bilayer. *Chemical Physics Letters*. 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 LB, Dehmer M, Emmert-Streib F. 2018. MetriIntSimil-an accurate and robust metric for comparison of similarity in intelligence of any number of cooperative multiagent systems. *Symmetry*. 10(2). <https://doi.org/10.3390/sym10020048>

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

- Isakov M, Kokkonen J, Östman K, Kuokkala V-T. 2016. Strain rate change tests with the Split Hopkinson Bar method. *European Physical Journal. Special Topics*. 225(2):231-242. <https://doi.org/10.1140/epjst/e2015-99999-x>
- Isakov M, Matikainen V, Koivuluoto H, May M. 2017. Systematic analysis of coating-substrate interactions in the presence of flow localization. *Surface and Coatings Technology*. 324:264-280. <https://doi.org/10.1016/j.surfcoat.2017.05.040>
- Isca VMS, Ferreira RJ, Garcia C, Monteiro CM, Dinic J, Holmstedt S, André V, Pesic M, Dos Santos DJVA, Candeias NR, Afonso CAM, Rijo P. 2020. Molecular Docking Studies of Royleanone Diterpenoids from *Plectranthus* spp. as P-Glycoprotein Inhibitors. *ACS MEDICINAL CHEMISTRY LETTERS*. 11(5):839-845. <https://doi.org/10.1021/acsmchemlett.9b00642>
- Isoniemi T, Tuukkanen S, Cameron DC, Simonen J, Toppari JJ. 2015. Measuring optical anisotropy in poly(3,4-ethylene dioxythiophene): poly(styrene sulfonate) films with added graphene. *Organic Electronics*. 25:317-323. <https://doi.org/10.1016/j.orgel.2015.06.037>, <https://doi.org/10.1016/j.orgel.2015.06.037>
- Isotahdon E, Huttunen-Saarivirta E, Kuokkala V-T. 2016. Development of Magnetic Losses During Accelerated Corrosion Tests for Nd-Fe-B Magnets Used in Permanent Magnet Generators. *Corrosion*. 72(6):732-741. <https://doi.org/10.5006/2037>
- Itävuo P, Hulthén E, Vilkkö M. 2017. Feed-hopper level estimation and control in cone crushers. *Minerals Engineering*. 110:82-95. <https://doi.org/10.1016/j.mineng.2017.04.010>
- Itävuo P, Hulthén E, Yahyaei M, Vilkkö M. 2019. Mass balance control of crushing circuits. *Minerals Engineering*. 135:37-47. <https://doi.org/10.1016/j.mineng.2019.02.033>
- Iyer S, Rissanen MP, Kurtén T. 2019. Reaction between Peroxy and Alkoxy Radicals Can Form Stable Adducts. *Journal of Physical Chemistry Letters*. 10(9):2051-2057. <https://doi.org/10.1021/acs.jpcclett.9b00405>
- Izdebskaya Y, Shvedov V, Assanto G, Krolkowski W. 2017. Magnetic routing of light-induced waveguides. *Nature Communications*. 8. <https://doi.org/10.1038/ncomms14452>
- Jagoda-Cwiklik B, Cwiklik L, Jungwirth P. 2011. Behavior of the eigen form of hydronium at the air/water interface. *Journal of Physical Chemistry A*. 115(23):5881-5886. <https://doi.org/10.1021/jp110078s>
- Jain R, Dominic D, Jordan N, Rene ER, Weiss S, van Hullebusch ED, Hübner R, Lens PNL. 2016. Preferential adsorption of Cu in a multi-metal mixture onto biogenic elemental selenium nanoparticles. *Chemical Engineering Journal*. 284:917-925. <https://doi.org/10.1016/j.cej.2015.08.144>
- Jain R, Van Hullebusch ED, Lenz M, Farges F. 2017. Understanding selenium biogeochemistry in engineered ecosystems: Transformation and analytical methods. *teoksessa Bioremediation of Selenium Contaminated Wastewater*. Springer International Publishing. Sivut 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 L, Norpoth J, Trache R, Berger LM. 2016. Influence of heat treatment on the abrasive wear resistance of a Cr<sub>3</sub>C<sub>2</sub> NiCr coating deposited by an ethene-fuelled HVOF spray process. *Surface and Coatings Technology*. 291:444-451. <https://doi.org/10.1016/j.surfcoat.2016.02.066>
- Janka L, Berger LM, Norpoth J, Trache R, Thiele S, Tomastik C, Matikainen V, Vuoristo P. 2018. Improving the high temperature abrasion resistance of thermally sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr coatings by WC addition. *Surface and Coatings Technology*. 337:296-305. <https://doi.org/10.1016/j.surfcoat.2018.01.035>
- Javanainen M, Melcrová A, Magarkar A, Jurkiewicz P, Hof M, Jungwirth P, Martinez-Seara H. 2017. Two cations, two mechanisms: Interactions of sodium and calcium with zwitterionic lipid membranes. *Chemical Communications*. 53(39):5380-5383. <https://doi.org/10.1039/c7cc02208e>

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

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

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

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

Joost U, Sutka A, Oja M, Smits K, Doebelin N, Loot A, Järvekülg M, Hirsimäki M, Valden M, Nommiste E. 2018. Reversible photodoping of TiO<sub>2</sub> nanoparticles. *Chemistry of Materials*. 30(24):8968-8974. <https://doi.org/10.1021/acs.chemmater.8b04813>

Jowett GM, Norman MDA, Yu TTL, Rosell Arévalo P, Hoogland D, Lust ST, Read E, Hamrud E, Walters NJ, Niazi U, Chung MWH, Marciano D, Omer OS, Zabinski T, Danovi D, Lord GM, Hilborn J, Evans ND, Dreiss CA, Bozec L, Oommen OP, Lorenz CD, da Silva RMP, Neves JF, Gentleman E. 2020. ILC1 drive intestinal epithelial and matrix remodelling. *Nature Materials*. <https://doi.org/10.1038/s41563-020-0783-8>

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

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

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

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

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

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

Kangas H, Franzén R, Tois J, Taskinen J, Kostianen R. 1999. 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*. 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, Ruoko TP, Gönüllü Y, Kaunisto K, Mettenböcker A, Gurevich E, Lemmetyinen H, Ostendorf A, Mathur S. 2015. Graphene-intercalated Fe<sub>2</sub>O<sub>3</sub>/TiO<sub>2</sub> heterojunctions for efficient photoelectrolysis of water. *RSC Advances*. 5(123):101401-101407. <https://doi.org/10.1039/c5ra18330h>

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

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

Kapgate BP, Das C, Das A, Basu D, Reuter U, Heinrich G. 2012. 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*. 63(3):501-509. <https://doi.org/10.1007/s10971-012-2812-9>

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

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

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

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

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

Karvinen J, Joki T, Ylä-Outinen L, Koivisto JT, Narkilahti S, Kellomäki M. 2018. Soft hydrazone crosslinked hyaluronan- and alginate-based hydrogels as 3D supportive matrices for human pluripotent stem cell-derived neuronal cells. *Reactive and Functional Polymers*. 124:29-39. <https://doi.org/10.1016/j.reactfunctpolym.2017.12.019>

Kaski J, Lantto P, Rantala TT, Schroderus J, Vaara J, Jokisaari J. 1999. Experimental and theoretical study of the spin-spin coupling tensors in methylsilane. *Journal of Physical Chemistry A*. 103(48):9669-9677. <https://doi.org/10.1021/jp9920491>

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

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

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

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

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

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

Kellomäki A, Kuula-Väisänen P, Nieminen P. 1989. Sorption and retention of ethylene glycol monoethyl ether (EGME) on silicas. *Journal of Colloid and Interface Science*. 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 T, Malmbeck R, Ial Banik NL, Toivonen J. 2019. Alpha radiation-induced luminescence by am-241 in aqueous nitric acid solution. *Sensors (Switzerland)*. 19(7). <https://doi.org/10.3390/s19071602>

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

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

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

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

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

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

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

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

Khvorost TA, Beliaev LY, Potalueva E, Laptenkova AV, Selyutin AA, Bogachev NA, Skripkin MY, Ryazantsev MN, Tkachenko N, Mereshchenko AS. 2020. Ultrafast Photochemistry of the [Cr(NCS)<sub>6</sub>]<sup>3-</sup> Complex in Dimethyl Sulfoxide and Dimethylformamide upon Excitation into Ligand-Field Electronic State. *Journal of Physical Chemistry B*. 124(18):3724-3733. <https://doi.org/10.1021/acs.jpcc.0c00088>

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



- Knasmüller S, Zöhrer E, Kronberg L, Kundi M, Franzen R, Schulte-Hermann R. 1996. Mutational spectra of *Salmonella typhimurium* revertants induced by chlorohydroxyfuranones, byproducts of chlorine disinfection of drinking water. *Chemical Research in Toxicology*. 9(2):374-381. <https://doi.org/10.1021/tx9500686>
- Kohagen M, Mason PE, Jungwirth P. 2014. Accurate description of calcium solvation in concentrated aqueous solutions. *Journal of Physical Chemistry Part B*. 118(28):7902-7909. <https://doi.org/10.1021/jp5005693>
- Köhler M, Karner A, Leitner M, Hytönen VP, Kulomaa M, Hinterdorfer P, Ebner A. 2014. pH-dependent deformations of the energy landscape of avidin-like proteins investigated by single molecule force spectroscopy. *Molecules*. 19(8):12531-12546. <https://doi.org/10.3390/molecules190812531>
- Koivisto AJ, Aromaa M, Koponen IK, Fransman W, Jensen KA, Mäkelä JM, Hämeri KJ. 2015. Workplace performance of a loose-fitting powered air purifying respirator during nanoparticle synthesis. *Journal of Nanoparticle Research*. 17(4). <https://doi.org/10.1007/s11051-015-2990-9>
- Kordmahaleh AA, Naghashzadegan M, Javaherdeh K, Khoshgoftar M. 2017. Design of a 25 MWe Solar Thermal Power Plant in Iran with Using Parabolic Trough Collectors and a Two-Tank Molten Salt Storage System. *International Journal of Photoenergy*. 2017. <https://doi.org/10.1155/2017/4210184>
- Koskela JE, Liljeström V, Lim J, Simanek EE, Ras RHA, Priimagi A, Kostianen MA. 2014. Light-fuelled transport of large dendrimers and proteins. *Journal of the American Chemical Society*. 136(19):6850-6853. <https://doi.org/10.1021/ja502623m>
- Koskela JE, Vapaavuori J, Hautala J, Priimagi A, Faul CFJ, Kaivola M, Ras RHA. 2012. Surface-relief gratings and stable birefringence inscribed using light of broad spectral range in supramolecular polymer-bisazobenzene complexes. *Journal of Physical Chemistry C*. 116(3):2363-2370. <https://doi.org/10.1021/jp210706n>
- Kotila T, Kogan K, Enkavi G, Guo S, Vattulainen I, Goode BL, Lappalainen P. 2018. Structural basis of actin monomer recharging by cyclase-Associated protein. *Nature Communications*. 9(1). <https://doi.org/10.1038/s41467-018-04231-7>
- Kousoulidou M, Ntziachristos L, Fontaras G, Martini G, Dilara P, Samaras Z. 2012. Impact of biodiesel application at various blending ratios on passenger cars of different fueling technologies. *Fuel*. 98:88-94. <https://doi.org/10.1016/j.fuel.2012.03.038>
- Kovács PT, Zare A, Balogh T, Bregovic R, Gotchev A. 2017. Architectures and codecs for real-time light field streaming. *Journal of Imaging Science and Technology*. 61(1). <https://doi.org/10.2352/J.ImagingSci.Technol.2017.61.1.010403>
- Kramb J, Konttinen J, Backman R, Salo K, Roberts M. 2016. Elimination of arsenic-containing emissions from gasification of chromated copper arsenate wood. *Fuel*. 181:319-324. <https://doi.org/10.1016/j.fuel.2016.04.109>
- Kramb J, Gómez-Barea A, DeMartini N, Romar H, Doddapaneni TRKC, Konttinen J. 2017. The effects of calcium and potassium on CO<sub>2</sub> gasification of birch wood in a fluidized bed. *Fuel*. 196:398-407. <https://doi.org/10.1016/j.fuel.2017.01.101>
- Kulig W, Cwiklik L, Jurkiewicz P, Rog T, Vattulainen I. 2016. Cholesterol oxidation products and their biological importance. *Chemistry and Physics of Lipids*. 199:144-160. <https://doi.org/10.1016/j.chemphyslip.2016.03.001>
- Kulig W, Agmon N. 2014. Deciphering the infrared spectrum of the protonated water pentamer and the hybrid Eigen-Zundel cation. *Physical Chemistry Chemical Physics*. 16(10):4933-4941. <https://doi.org/10.1039/c3cp54029d>
- Kulig W, Agmon N. 2014. Both zundel and eigen isomers contribute to the IR spectrum of the gas-phase H<sub>9</sub>O<sub>4</sub> + cluster. *Journal of Physical Chemistry Part B*. 118(1):278-286. <https://doi.org/10.1021/jp410446d>

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

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

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

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

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

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

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

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

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

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

Lahbib I, Valkonen A, Rzaigui M, Smirani W. 2017. Synthesis, Structural Characterization, Hirshfeld Surface and Antioxidant Activity Analysis of a Novel Organic Cation Antimonate Complex. *Journal of Cluster Science*. 28(4):2239-2252. <https://doi.org/10.1007/s10876-017-1217-x>

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

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

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

Lahti J, Tuominen M, Penttinen T, Räsänen JP, Kuusipalo J. 2009. The effects of corona and flame treatment: Part 2. PE-HD and PP coated papers. teoksessa TAPPI Press - 12th European PLACE Conference 2009. Sivut 278-314.

Lahti J, Kuusipalo J, Auvinen S. 2017. Novel equipment to simulate hot air heat sealability of packaging materials. teoksessa 16th TAPPI European PLACE Conference 2017. TAPPI Press. Sivut 237-248.

Lahti J, Kampuri T, Kuusipalo J. 2017. Novel bio-based materials for active and intelligent packaging. teoksessa 16th TAPPI European PLACE Conference 2017. TAPPI Press.

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

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

Lahtinen K, Kuusipalo J. 2008. Statistical modeling of water vapor transmission rates for extrusion-coated papers. teoksessa TAPPI 2008 PLACE Conference: Innovations in Flexible Consumer Packaging.

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

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

Lai KM, Nasir ZA, Taylor J. 2014. Bioaerosols and Hospital Infections. teoksessa *Aerosol Science: Technology and Applications*. Wiley-Blackwell. Sivut 271-289. <https://doi.org/10.1002/9781118682555.ch11>

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

Larnimaa S, Halonen L, Karhu J, Tomberg T, Metsälä M, Genoud G, Hieta T, Bell S, Vainio M. 2020. High-resolution analysis of the  $\nu_3$  band of radiocarbon methane  $^{14}\text{CH}_4$ . *Chemical Physics Letters*. 750. <https://doi.org/10.1016/j.cplett.2020.137488>

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

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

Le HH, Pham T, Henning S, Klehm J, Weißner S, Stöckelhuber KW, Das A, Hoang XT, Do QK, Wu M, Vennemann N, Heinrich G, Radosch HJ. 2015. Formation and stability of carbon nanotube network in natural rubber: Effect of non-rubber components. *Polymer*. 73:111-121. <https://doi.org/10.1016/j.polymer.2015.07.044>

Le HH, Parsaker M, Sriharish MN, Henning S, Menzel M, Weißner S, Das A, Do QK, Heinrich G, Radosch HJ. 2015. Effect of rubber polarity on selective wetting of carbon nanotubes in ternary blends. *Express Polymer Letters*. 9(11):960-971. <https://doi.org/10.3144/expresspolymlett.2015.87>

Le HH, Abhijeet S, Ilisch S, Klehm J, Henning S, Beiner M, Sarkawi SS, Dierkes W, Das A, Fischer D, Stöckelhuber KW, Wiessner S, Khatiwada SP, Adhikari R, Pham T, Heinrich G, Radosch HJ. 2014. The role of linked phospholipids in the rubber-filler interaction in carbon nanotube (CNT) filled natural rubber (NR) composites. *Polymer*. 55(18):4738-4747. <https://doi.org/10.1016/j.polymer.2014.07.043>

Le HH, Parsekar M, Ilisch S, Henning S, Das A, Stöckelhuber KW, Beiner M, Ho CA, Adhikari R, Wießner S, Heinrich G, Radosch HJ. 2014. Effect of non-rubber components of NR on the carbon nanotube (CNT) localization in SBR/NR blends. *Macromolecular Materials and Engineering*. 299(5):569-582. <https://doi.org/10.1002/mame.201300254>

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

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

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

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

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

Lepcha A, Maccato C, Mettenbörger A, Andreu T, Mayrhofer L, Walter M, Olthof S, Ruoko TP, Klein A, Moseler M, Meerholz K, Morante JR, Barreca D, Mathur S. 2015. Electrospun Black Titania Nanofibers: Influence of Hydrogen Plasma-Induced Disorder on the Electronic Structure and Photoelectrochemical Performance. *Journal of Physical Chemistry C*. 119(33):18835-18842. <https://doi.org/10.1021/acs.jpcc.5b02767>

Lepistö SS, Rintala JA. 1997. Start-up and Operation of Laboratory-Scale Thermophilic Upflow Anaerobic Sludge Blanket Reactors Treating Vegetable Processing Wastewaters. *Journal of Chemical Technology and Biotechnology*. 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 P, Merlet D, Courtieu J, Emsley JW, Rantala TT, Jokisaari J. 1997. 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*. 101(31):5719-5724. <https://doi.org/10.1021/jp9709262>

Leuteritz A, Kutlu B, Meinel J, Wang D, Das A, Wagenknecht U, Heinrich G. 2012. Layered Double Hydroxides (LDH): A multifunctional versatile system for nanocomposites. *Molecular Crystals and Liquid Crystals*. 556:107-113. <https://doi.org/10.1080/15421406.2012.635923>

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

Levin M, Rojas E, Vanhala E, Vippola M, Liguori B, Kling KI, Koponen IK, Mølhav K, Tuomi T, Gregurec D, Moya S, Jensen KA. 2015. Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials: implications for testing and risk assessment. *Journal of Nanoparticle Research*. 17(8). <https://doi.org/10.1007/s11051-015-3139-6>

- Levoska J, Rantala TT, Lenkkeri J. 1989. Numerical simulation of temperature distributions in layered structures during laser processing. *Applied Surface Science*. 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 Z, Le T, Wu Z, Yao Y, Li L, Tentzeris M, Moon KS, Wong CP. 2015. Rational design of a printable, highly conductive silicone-based electrically conductive adhesive for stretchable radio-frequency antennas. *Advanced Functional Materials*. 25(3):464-470. <https://doi.org/10.1002/adfm.201403275>
- Li Y, Tao SC, Bova GS, Liu AY, Chan DW, Zhu H, Zhang H. 2011. Detection and verification of glycosylation patterns of glycoproteins from clinical specimens using lectin microarrays and lectin-based immunosorbent assays. *Analytical Chemistry*. 83(22):8509-8516. <https://doi.org/10.1021/ac201452f>
- Liang Y, Ma L, Wang J, Wang G. 2015. Multistep reactions of water with small Pd<sub>n</sub> clusters: A first principles study. *Journal of Theoretical and Computational Chemistry*. 14(3). <https://doi.org/10.1142/S0219633615500170>
- Liimatainen V, Vuckovac M, Jokinen V, Sariola V, Hokkanen MJ, Zhou Q, Ras RHA. 2017. Mapping microscale wetting variations on biological and synthetic water-repellent surfaces. *Nature Communications*. 8(1). <https://doi.org/10.1038/s41467-017-01510-7>
- Linko V, Leppiniemi J, Paasonen ST, Hytönen VP, Jussi Toppari J. 2011. Defined-size DNA triple crossover construct for molecular electronics: Modification, positioning and conductance properties. *Nanotechnology*. 22(27). <https://doi.org/10.1088/0957-4484/22/27/275610>
- Lis M, Wizert A, Przybylo M, Langner M, Swiatek J, Jungwirth P, Cwiklik L. 2011. The effect of lipid oxidation on the water permeability of phospholipids bilayers. *Physical Chemistry Chemical Physics*. 13(39):17555-17563. <https://doi.org/10.1039/c1cp21009b>
- Lisitsyna ES, Lygo ON, Durandin NA, Dement'eva OV, Rudoi VM, Kuzmin VA. 2012. Superquenching of SYBRGreen dye fluorescence in complex with DNA by gold nanoparticles. *HIGH ENERGY CHEMISTRY*. 46(6):363-367. <https://doi.org/10.1134/S0018143912060057>
- Lisitsyna ES, Ketola T-M, Morin-Picardat E, Liang H, Hanzlíková M, Urtti A, Yliperttula M, Vuorimaa-Laukkanen E. 2017. Time-Resolved Fluorescence Spectroscopy Reveals Fine Structure and Dynamics of Poly(L-lysine) and Polyethylenimine Based DNA Polyplexes. *Journal of Physical Chemistry B*. 121(48):10782-10792. <https://doi.org/10.1021/acs.jpcc.7b08394>
- Liu Y, Minofar B, Desyaterik Y, Dames E, Zhu Z, Cain JP, Hopkins RJ, Gilles MK, Wang H, Jungwirth P, Laskin A. 2011. Internal structure, hygroscopic and reactive properties of mixed sodium methanesulfonate-sodium chloride particles. *Physical Chemistry Chemical Physics*. 13(25):11846-11857. <https://doi.org/10.1039/c1cp20444k>
- Liu W, Ban J, Feng L, Cheng T, Emmert-Streib F, Dehmer M. 2019. The maximum Hosoya index of unicyclic graphs with diameter at most four. *Symmetry*. 11(8). <https://doi.org/10.3390/sym11081034>
- Lolicato F, Raudino A, Milardi D, La Rosa C. 2015. Resveratrol interferes with the aggregation of membrane-bound human-IAPP: A molecular dynamics study. *European Journal of Medicinal Chemistry*. 92:876-881. <https://doi.org/10.1016/j.ejmech.2015.01.047>
- Lolicato F, Joly L, Martinez-Seara H, Fragneto G, Scoppola E, Baldelli Bombelli F, Vattulainen I, Akola J, Maccarini M. 2019. The Role of Temperature and Lipid Charge on Intake/Uptake of Cationic Gold Nanoparticles into Lipid Bilayers. *Small*. 15(23). <https://doi.org/10.1002/smll.201805046>
- Lowe SJ, Partridge DG, Davies JF, Wilson KR, Topping D, Riipinen I. 2019. Key drivers of cloud response to surface-active organics. *Nature Communications*. 10(1). <https://doi.org/10.1038/s41467-019-12982-0>

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

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

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

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

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

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

Ma L, Wang J, Wang G. 2012. 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*. 552:73-77. <https://doi.org/10.1016/j.cplett.2012.09.036>

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

Ma L, Jackson KA, Jellinek J. 2011. Site-specific polarizabilities as predictors of favorable adsorption sites on Nan clusters. *Chemical Physics Letters*. 503(1-3):80-85. <https://doi.org/10.1016/j.cplett.2010.12.049>

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

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

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

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

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

Mäkelä J, Tuominen M, Yasir M, Polojärvi V, Aho A, Tukiainen A, Kuzmin M, Punkkinen MPJ, Laukkanen P, Kokko K, Guina M. 2015. Effects of thinning and heating for TiO<sub>2</sub>/AlInP junctions. *Journal of Electron Spectroscopy and Related Phenomena*. 205:6-9. <https://doi.org/10.1016/j.elspec.2015.08.004>

- Mäkelä JM, Haapanen J, Harra J, Juuti P, Kujanpää S. 2017. Liquid flame spray—a hydrogen-oxygen flame based method for nanoparticle synthesis and functional nano-coatings. *KONA POWDER AND PARTICLE JOURNAL*. 2017(34):141-154. <https://doi.org/10.14356/kona.2017020>
- Mäki AJ, Peltokangas M, Kreutzer J, Auvinen S, Kallio P. 2015. Modeling carbon dioxide transport in PDMS-based microfluidic cell culture devices. *Chemical Engineering Science*. 137:515-524. <https://doi.org/10.1016/j.ces.2015.06.065>
- Mal J, Nancharaiyah YV, Van Hullebusch ED, Lens PNL. 2016. Metal chalcogenide quantum dots: Biotechnological synthesis and applications. *RSC Advances*. 6(47):41477-41495. <https://doi.org/10.1039/c6ra08447h>
- Mandal S, Garcia Iglesias M, Ince M, Torres T, Tkachenko NV. 2018. Photoinduced Energy Transfer in ZnCdSeS Quantum Dot-Phthalocyanines Hybrids. *ACS Omega*. 3(8):10048-10057. <https://doi.org/10.1021/acsomega.8b01623>
- Mandal S, Tkachenko NV. 2019. Multiphoton Excitation of CsPbBr<sub>3</sub> Perovskite Quantum Dots (PQDs): How Many Electrons Can One PQD Donate to Multiple Molecular Acceptors?. *Journal of Physical Chemistry Letters*. 2775-2781. <https://doi.org/10.1021/acs.jpcclett.9b01045>
- Manea LR, Cramariuc B, Popescu V, Cramariuc R, Sandu I, Cramariuc O. 2015. Equipment for obtaining polymeric nanofibres by electrospinning technology: II. The obtaining of polymeric nanofibers. *Materiale Plastice*. 52(2):180-185.
- Manna M, Mukhopadhyay C. 2011. Cholesterol driven alteration of the conformation and dynamics of phospholamban in model membranes. *Physical Chemistry Chemical Physics*. 13(45):20188-20198. <https://doi.org/10.1039/c1cp21793c>
- Manna M, Mukhopadhyay C. 2011. Molecular dynamics simulations of the interactions of kinin peptides with an anionic POPG bilayer. *Langmuir*. 27(7):3713-3722. <https://doi.org/10.1021/la104046z>
- Manninen H, Rotola-Pukkila M, Aisala H, Hopia A, Laaksonen T. 2018. Free amino acids and 5'-nucleotides in Finnish forest mushrooms. *Food Chemistry*. 247:23-28. <https://doi.org/10.1016/j.foodchem.2017.12.014>
- Manninen H, Durandin N, Hopia A, Vuorimaa-Laukkanen E, Laaksonen T. 2020. Taste compound – Nanocellulose interaction assessment by fluorescence indicator displacement assay. *Food Chemistry*. 318. <https://doi.org/10.1016/j.foodchem.2020.126511>
- Mardoukhi Y, Jeon J-H, Metzler R. 2015. Geometry controlled anomalous diffusion in random fractal geometries: Looking beyond the infinite cluster. *Physical Chemistry Chemical Physics*. 17(44):30134-30147. <https://doi.org/10.1039/c5cp03548a>
- Marsalek O, Uhlig F, Vandevondele J, Jungwirth P. 2012. Structure, dynamics, and reactivity of hydrated electrons by Ab initio molecular dynamics. *Accounts of Chemical Research*. 45(1):23-32. <https://doi.org/10.1021/ar200062m>
- Marsalek O, Elles CG, Pieniazek PA, Pluhaov E, Vandevondele J, Bradforth SE, Jungwirth P. 2011. Chasing charge localization and chemical reactivity following photoionization in liquid water. *Journal of Chemical Physics*. 135(22). <https://doi.org/10.1063/1.3664746>
- Mason PE, Uhlig F, Vaněk V, Buttersack T, Bauerecker S, Jungwirth P. 2015. Coulomb explosion during the early stages of the reaction of alkali metals with water. *Nature Chemistry*. 7(3):250-254. <https://doi.org/10.1038/nchem.2161>
- Mason PE, Wernersson E, Jungwirth P. 2012. Accurate description of aqueous carbonate ions: An effective polarization model verified by neutron scattering. *Journal of Physical Chemistry Part B*. 116(28):8145-8153. <https://doi.org/10.1021/jp3008267>

- Matikainen V, Rubio Peregrina S, Ojala N, Koivuluoto H, Schubert J, Houdková , Vuoristo P. 2019. Erosion wear performance of WC-10Co4Cr and Cr<sub>3</sub>C<sub>2</sub>-25NiCr coatings sprayed with high-velocity thermal spray processes. *Surface and Coatings Technology*. 370:196-212. <https://doi.org/10.1016/j.surfcoat.2019.04.067>
- Matsuo S, Yamazoe S, Goh J-Q, Akola J, Tsukuda T. 2016. The electrooxidation-induced structural changes of gold di-superatomic molecules: Au<sub>23</sub> vs. Au<sub>25</sub>. *Physical Chemistry Chemical Physics*. 18(6):4822-4827. <https://doi.org/10.1039/c5cp06969f>
- McManamon C, O'Connell J, Delaney P, Rasappa S, Holmes JD, Morris MA. 2015. A facile route to synthesis of S-doped TiO<sub>2</sub> nanoparticles for photocatalytic activity. *Journal of Molecular Catalysis A: Chemical*. 406:51-57!. <https://doi.org/10.1016/j.molcata.2015.05.002>
- McManamon C, Delaney P, Kavanagh C, Wang JJ, Rasappa S, Morris MA. 2013. Depth profiling of PLGA copolymer in a novel biomedical bilayer using confocal raman spectroscopy. *Langmuir*. 29(19):5905-5910. <https://doi.org/10.1021/la400402a>
- Mehrang S, Pietilä J, Korhonen I. 2018. An activity recognition framework deploying the random forest classifier and a single optical heart rate monitoring and triaxial accelerometer wrist-band. *Sensors*. 18(2). <https://doi.org/10.3390/s18020613>
- Melcr J, Martinez-Seara H, Nencini R, Kolafa J, Jungwirth P, Ollila OHS. 2018. Accurate Binding of Sodium and Calcium to a POPC Bilayer by Effective Inclusion of Electronic Polarization. *Journal of Physical Chemistry B*. 122(16):4546-4557. <https://doi.org/10.1021/acs.jpcc.7b12510>
- Mettänen M, Hirn U. 2015. A comparison of five optical surface topography measurement methods. *TAPPI Journal*. 14(1):27-38.
- Milani R, Houbenov N, Fernandez-Palacio F, Cavallo G, Luzio A, Haataja J, Giancane G, Saccone M, Priimägi A, Metrangolo P, Ikkala O. 2017. Hierarchical Self-Assembly of Halogen-Bonded Block Copolymer Complexes into Upright Cylindrical Domains. *CheM*. 2(3):417-426. <https://doi.org/10.1016/j.chempr.2017.02.003>
- Milanti A, Matikainen V, Koivuluoto H, Bolelli G, Lusvarghi L, Vuoristo P. 2015. Effect of spraying parameters on the microstructural and corrosion properties of HVAF-sprayed Fe-Cr-Ni-B-C coatings. *Surface and Coatings Technology*. 277:81-90. <https://doi.org/10.1016/j.surfcoat.2015.07.018>
- Miller AE, Petersen PB, Hollars CW, Saykally RJ, Heyda J, Jungwirth P. 2011. Behavior of β-amyloid 1-16 at the air-water interface at varying ph by nonlinear spectroscopy and molecular dynamics simulations. *Journal of Physical Chemistry A*. 115(23):5873-5880. <https://doi.org/10.1021/jp110103j>
- Milne D, Wilson JIB, Rantala TT, Lenkkeri J. 1989. Morphological and structural changes in laser CVD of silicon: comparison of theoretical temperature calculations with experimental results. *Applied Surface Science*. 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 AK, Ghosh A, Sawai P, Pareek K, Banerjee S, Das A, Pötschke P, Heinrich G, Voit B. 2014. Electromagnetic interference shielding effectiveness of MWCNT filled poly(ether sulfone) and poly(ether imide) nanocomposites. *Polymer Engineering and Science*. 54(11):2560-2570. <https://doi.org/10.1002/pen.23804>
- Mojica E, Pertuz S, Arguello H. 2017. High-resolution coded-aperture design for compressive X-ray tomography using low resolution detectors. *Optics Communications*. 404:103-109. <https://doi.org/10.1016/j.optcom.2017.06.053>
- Mokarian-Tabari P, Cummins C, Rasappa S, Simao C, Torres CMS, Holmes JD, Morris MA. 2014. Study of the kinetics and mechanism of rapid self-assembly in block copolymer thin films during solvo-microwave annealing. *Langmuir*. 30(35):10728-10739. <https://doi.org/10.1021/la503137q>



- Molnar W, Nugent S, Lindroos M, Apostol M, Varga M. 2015. Ballistic and numerical simulation of impacting goods on conveyor belt rubber. *Polymer Testing*. 42:1-7. <https://doi.org/10.1016/j.polymertesting.2014.12.001>
- Moormann W, Tellkamp T, Stadler E, Röhricht F, Näther C, Puttreddy R, Rissanen K, Gescheidt G, Herges R. 2020. Efficient Conversion of Light to Chemical Energy: Directional, Chiral Photoswitches with Very High Quantum Yields. *Angewandte Chemie - International Edition*. 59(35):15081-15086. <https://doi.org/10.1002/anie.202005361>
- Moradi M, Enkavi G, Tajkhorshid E. 2015. Atomic-level characterization of transport cycle thermodynamics in the glycerol-3-phosphate: Phosphate antiporter. *Nature Communications*. 6. <https://doi.org/10.1038/ncomms9393>
- Mordon S, Bourg-Heckly G. 2015. Photodiagnostic et chirurgie guidés par la fluorescence. *ACTUALITE CHIMIQUE*. (397-398):41-45.
- Mubarakali D, Praveenkumar R, Shenbagavalli T, Mari Nivetha T, Parveez Ahamed A, Al-Dhabi NA, Thajuddin N. 2012. New reports on anti-bacterial and anti-candidal activities of fatty acid methyl esters (FAME) obtained from *Scenedesmus bijugatus* var. *bicellularis* biomass. *RSC Advances*. 2(30):11552-11556. <https://doi.org/10.1039/c2ra21130k>
- Mylläri V, Fatarella E, Ruzzante M, Pogni R, Baratto MC, Skrifvars M, Syrjälä S, Järvelä P. 2015. Production of sulfonated polyetheretherketone/polypropylene fibers for photoactive textiles. *Journal of Applied Polymer Science*. 132(39). <https://doi.org/10.1002/app.42595>
- Mylläri V, Ruoko T-P, Syrjälä S. 2015. A comparison of rheology and FTIR in the study of polypropylene and polystyrene photodegradation. *Journal of Applied Polymer Science*. 132(28). <https://doi.org/10.1002/app.42246>
- Mylläri V, Hartikainen S, Poliakova V, Anderson R, Jönkkäri I, Pasanen P, Andersson M, Vuorinen J. 2016. Detergent impurity effect on recycled HDPE: Properties after repetitive processing. *Journal of Applied Polymer Science*. 133(31). <https://doi.org/10.1002/app.43766>
- Nair AK, Bhavitha KB, Perumbilavil S, Sankar P, Rouxel D, Kala MS, Thomas S, Kalarikkal N. 2018. Multifunctional nitrogen sulfur co-doped reduced graphene oxide – Ag nano hybrids (sphere, cube and wire) for nonlinear optical and SERS applications. *Carbon*. 132:380-393. <https://doi.org/10.1016/j.carbon.2018.02.068>
- Nandre KP, Salunke JK, Nandre JP, Patil VS, Borse AU, Bhosale SV. 2012. Glycerol mediated synthesis of 5-substituted 1H-tetrazole under catalyst free conditions. *Chinese Chemical Letters*. 23(2):161-164. <https://doi.org/10.1016/j.ccllet.2011.11.019>
- Näreoja T, Ebner A, Gruber HJ, Taskinen B, Kienberger F, Hänninen PE, Hytönen VP, Hinterdorfer P, Härmä H. 2014. Kinetics of bioconjugate nanoparticle label binding in a sandwich-type immunoassay. *Analytical and Bioanalytical Chemistry*. 406(2):493-503. <https://doi.org/10.1007/s00216-013-7474-0>
- Närhi M, Salmela L, Toivonen J, Billet C, Dudley JM, Genty G. 2018. Machine learning analysis of extreme events in optical fibre modulation instability. *Nature Communications*. 9(1). <https://doi.org/10.1038/s41467-018-07355-y>
- Nazir R, Bourquard F, Balčiūnas E, Smoleń S, Gray D, Tkachenko NV, Farsari M, Gryko DT. 2015.  $\pi$ -Expanded  $\alpha,\beta$ -unsaturated ketones: Synthesis, optical properties, and two-photon-induced polymerization. *ChemPhysChem*. 16(3):682–690. <https://doi.org/10.1002/cphc.201402646>
- Nieminen V, Karjalainen M, Salminen K, Rantala J, Kontunen A, Isokoski P, Müller P, Kallio P, Surakka V, Lekkala J. 2018. A compact olfactometer for IMS measurements and testing human perception. *International Journal for Ion Mobility Spectrometry*. 21(3):71-80. <https://doi.org/10.1007/s12127-018-0235-1>

- Nisato G, Lupo D, Ganz S, Toimittaja 2016. Organic and Printed Electronics: Fundamentals and Applications. 1 toim. Singapore: PAN STANFORD PUBLISHING. 580 Sivumäärä <https://doi.org/10.1201/b20043>
- Niskanen M, Kuisma M, Cramariuc O, Golovanov V, Hukka TI, Tkachenko N, Rantala TT. 2013. Porphyrin adsorbed on the (1010) surface of the wurtzite structure of ZnO-conformation induced effects on the electron transfer characteristics. *Physical Chemistry Chemical Physics*. 15(40):17408-17418. <https://doi.org/10.1039/c3cp51685g>
- Nogueira IBR, Ribeiro AM, Martins MAF, Rodrigues AE, Koivisto H, Loureiro JM. 2017. Dynamics of a True Moving Bed separation process: Linear model identification and advanced process control. *Journal of Chromatography A*. 1504. <https://doi.org/10.1016/j.chroma.2017.04.060>
- Ntziachristos L, Saukko E, Lehtoranta K, Rönkkö T, Timonen H, Simonen P, Karjalainen P, Keskinen J. 2016. Particle emissions characterization from a medium-speed marine diesel engine with two fuels at different sampling conditions. *Fuel*. 186:456-465. <https://doi.org/10.1016/j.fuel.2016.08.091>
- Nykänen H, Mpamah PA, Rissanen AJ. 2018. Stable carbon isotopic composition of peat columns, subsoil and vegetation on natural and forestry-drained boreal peatlands. *Isotopes in Environmental and Health Studies*. 54(6). <https://doi.org/10.1080/10256016.2018.1523158>
- Nymark P, Bakker M, Dekkers S, Franken R, Fransman W, García-Bilbao A, Greco D, Gulumian M, Hadrup N, Halappanavar S, Hongisto V, Hougaard KS, Jensen KA, Kohonen P, Koivisto AJ, Dal Maso M, Oosterwijk T, Poikkimäki M, Rodriguez-Llopis I, Stierum R, Sørli JB, Grafström R. 2020. Toward Rigorous Materials Production: New Approach Methodologies Have Extensive Potential to Improve Current Safety Assessment Practices. *Small*. 16(6). <https://doi.org/10.1002/smll.201904749>
- Ojha N, Nguyen H, Laihininen T, Salminen T, Lastusaari M, Petit L. 2018. Decomposition of persistent luminescent microparticles in corrosive phosphate glass melt. *Corrosion Science*. 135:207-214. <https://doi.org/10.1016/j.corsci.2018.02.050>
- Ojha N, Tuomisto M, Lastusaari M, Petit L. 2018. Upconversion from fluorophosphate glasses prepared with NaYF<sub>4</sub>:Er<sup>3+</sup>, Yb<sup>3+</sup> nanocrystals. *RSC Advances*. 8(34):19226-19236. <https://doi.org/10.1039/c8ra03298j>
- Oksa M, Varis T, Ruusuvoori K. 2014. Performance testing of iron based thermally sprayed HVOF coatings in a biomass-fired fluidised bed boiler. *Surface and Coatings Technology*. 251:191-200. <https://doi.org/10.1016/j.surfcoat.2014.04.025>
- Oksala NKJ, Ekmekçi FG, Özsoy E, Kirankaya Ş, Kokkola T, Emecen G, Lappalainen J, Kaarniranta K, Atalay M. 2014. Natural thermal adaptation increases heat shock protein levels and decreases oxidative stress. *REDOX BIOLOGY*. 3:25-28. <https://doi.org/10.1016/j.redox.2014.10.003>
- Oliveira LMC, Koivisto H, Iwakiri IGI, Loureiro JM, Ribeiro AM, Nogueira IBR. 2020. Modelling of a pressure swing adsorption unit by deep learning and artificial Intelligence tools. *Chemical Engineering Science*. 224. <https://doi.org/10.1016/j.ces.2020.115801>
- Olżyńska A, Kulig W, Mikkolainen H, Czerniak T, Jurkiewicz P, Cwiklik L, Rog T, Hof M, Jungwirth P, Vattulainen I. 2020. Tail-Oxidized Cholesterol Enhances Membrane Permeability for Small Solutes. *Langmuir*. 36(35):10438-10447. <https://doi.org/10.1021/acs.langmuir.0c01590>
- Ometov A, Bezzateev S, Davydov V, Shchesniak A, Masek P, Lohan ES, Koucheryavy Y. 2019. Positioning information privacy in intelligent transportation systems: An overview and future perspective. *Sensors*. 19(7). <https://doi.org/10.3390/s19071603>
- Ometov A, Bezzateev S, Voloshina N, Masek P, Komarov M. 2019. Environmental monitoring with distributed mesh networks: An overview and practical implementation perspective for urban scenario. *Sensors (Switzerland)*. 19(24). <https://doi.org/10.3390/s19245548>

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

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

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

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

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

Palmolahti L, Ali-Löyty H, Khan R, Saari J, Tkachenko NV, Valden M. 2020. 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*. 124(24):13094-13101. <https://doi.org/10.1021/acs.jpcc.0c00798>

Pasanen HP, Vivo P, Canil L, Hempel H, Unold T, Abate A, Tkachenko NV. 2020. Monitoring Charge Carrier Diffusion across a Perovskite Film with Transient Absorption Spectroscopy. *The journal of physical chemistry letters*. 11(2):445-450. <https://doi.org/10.1021/acs.jpcclett.9b03427>

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

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

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

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

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

Pelkonen A, Mzezewa R, Sukki L, Ryyänen T, Kreutzer J, Hyvärinen T, Vinogradov A, Aarnos L, Lekkala J, Kallio P, Narkilahti S. 2020. A modular brain-on-a-chip for modelling epileptic seizures with functionally connected human neuronal networks. *Biosensors and Bioelectronics*. 168. <https://doi.org/10.1016/j.bios.2020.112553>

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

Perander M, DeMartini N, Brink A, Kramb J, Karlström O, Hemming J, Moilanen A, Konttinen J, Hupa M. 2015. Catalytic effect of Ca and K on CO<sub>2</sub> gasification of spruce wood char. *Fuel*. 150:464-472. <https://doi.org/10.1016/j.fuel.2015.02.062>

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

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

Petrov M, Cwiklik L, Jungwirth P. 2011. Interactions of molecular ions with model phospholipid membranes. *Collection of Czechoslovak Chemical Communications*. 76(6):695-711. <https://doi.org/10.1135/cccc2011026>

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

Pilehrood MK, Atashi A, Sadeghi-Aliabadi H, Nousiainen P, Harlin A. 2016. 3D micro-nano structured hybrid scaffolds: An investigation into the role of nanofiber coating on viability, proliferation and differentiation of seeded mesenchymal stem cells. *Journal Nanoscience and Nanotechnology*. 16(9):9000-9007. <https://doi.org/10.1166/jnn.2016.12740>

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

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

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

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

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

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

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

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

Pluhařová E, Ončák M, Seidel R, Schroeder C, Schroeder W, Winter B, Bradforth SE, Jungwirth P, Slavíček P. 2012. 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*. 116(44):13254-13264. <https://doi.org/10.1021/jp306348b>

- Pluhařová E, Jungwirth P, Bradforth SE, Slavíček P. 2011. Ionization of purine tautomers in nucleobases, nucleosides, and nucleotides: From the gas phase to the aqueous environment. *Journal of Physical Chemistry Part B*. 115(5):1294-1305. <https://doi.org/10.1021/jp110388v>
- Poikelispää M, Shakun A, Das A, Vuorinen J. 2016. Improvement of actuation performance of dielectric elastomers by barium titanate and carbon black fillers. *Journal of Applied Polymer Science*. 133(42). <https://doi.org/10.1002/app.44116>
- Poikelispää M, Shakun A, Sarlin E, Das A, Vuorinen J. 2017. Vegetable fillers for electric stimuli responsive elastomers. *Journal of Applied Polymer Science*. 134(28). <https://doi.org/10.1002/app.45081>
- Poikkimäki M, Koljonen V, Leskinen N, Närhi M, Kangasniemi O, Kausiala O, Dal Maso M. 2019. Nanocluster Aerosol Emissions of a 3D Printer. *Environmental Science and Technology*. 53(23):13618–13628. <https://doi.org/10.1021/acs.est.9b05317>
- Pollheimer P, Taskinen B, Scherfler A, Gusenkov S, Creus M, Wiesauer P, Zauner D, Schöffberger W, Schwarzinger C, Ebner A, Tampé R, Stutz H, Hytönen VP, Gruber HJ. 2013. Reversible biofunctionalization of surfaces with a switchable mutant of avidin. *Bioconjugate Chemistry*. 24(10):1656-1668. <https://doi.org/10.1021/bc400087e>
- Poojari C, Wilkosz N, Lira RB, Dimova R, Jurkiewicz P, Petka R, Kepczynski M, Róg T. 2019. Behavior of the DPH fluorescence probe in membranes perturbed by drugs. *Chemistry and Physics of Lipids*. 223. <https://doi.org/10.1016/j.chemphyslip.2019.104784>
- Poutanen M, Ikkala O, Priimägi A. 2016. Structurally Controlled Dynamics in Azobenzene-Based Supramolecular Self-Assemblies in Solid State. *Macromolecules*. 49(11):4095-4101. <https://doi.org/10.1021/acs.macromol.6b00562>
- Poutanen M, Ahmed Z, Rautkari L, Ikkala O, Priimägi A. 2018. Thermal Isomerization of Hydroxyazobenzenes as a Platform for Vapor Sensing. *ACS Macro Letters*. 7(3):381-386. <https://doi.org/10.1021/acsmacrolett.8b00093>
- Priimägi A, Barrett CJ, Shishido A. 2014. Recent twists in photoactuation and photoalignment control. *Journal of Materials Chemistry C*. 2(35):7155-7162. <https://doi.org/10.1039/c4tc01236d>
- Priimägi A, Shevchenko A. 2014. Azopolymer-based micro- and nanopatterning for photonic applications. *Journal of Polymer Science. Part B, Polymer Physics*. 52(3):163-182. <https://doi.org/10.1002/polb.23390>
- Priimägi A, Cavallo G, Metrangolo P, Resnati G. 2013. The Halogen Bond in the Design of Functional Supramolecular Materials: Recent Advances. *Accounts of Chemical Research*. 46(11):2686-2695. <https://doi.org/10.1021/ar400103r>
- Priimägi A, Shimamura A, Kondo M, Hiraoka T, Kubo S, Mamiya JI, Kinoshita M, Ikeda T, Shishido A. 2012. Location of the Azobenzene moieties within the cross-linked liquid-crystalline polymers can dictate the direction of photoinduced bending. *ACS Macro Letters*. 1(1):96-99. <https://doi.org/10.1021/mz200056w>
- Priimägi A, Cavallo G, Forni A, Gorynsztejn-Leben M, Kaivola M, Metrangolo P, Milani R, Shishido A, Pilati T, Resnati G, Terraneo G. 2012. Halogen bonding versus hydrogen bonding in driving self-assembly and performance of light-responsive supramolecular polymers. *Advanced Functional Materials*. 22(12):2572-2579. <https://doi.org/10.1002/adfm.201200135>
- Puustinen J, Hilska J, Guina M. 2019. Analysis of GaAsBi growth regimes in high resolution with respect to As/Ga ratio using stationary MBE growth. *Journal of Crystal Growth*. 511:33-41. <https://doi.org/10.1016/j.jcrysgro.2019.01.010>
- Raappana M, Polojärvi V, Aho A, Mäkelä J, Aho T, Tukiainen A, Laukkanen P, Guina M. 2018. Wet etching of dilute nitride GaInNAs, GaInNAsSb, and GaNAsSb alloys lattice-matched to GaAs. *Corrosion Science*. 136:268-274. <https://doi.org/10.1016/j.corsci.2018.03.018>

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

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

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

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

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

Rajan R, Rainosalo E, Thomas SP, Ramamoorthy SK, Zavašnik J, Vuorinen J, Skrifvars M. 2018. Modification of epoxy resin by silane-coupling agent to improve tensile properties of viscose fabric composites. *Polymer Bulletin*. 75(1):167–195. <https://doi.org/10.1007/s00289-017-2022-2>

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

Rantala TS, Rantala TT, Lantto V. 2000. Computational studies for the interpretation of gas response of SnO<sub>2</sub>(110) surface. *Sensors and Actuators B: Chemical*. 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 TT, Rantala TS, Lantto V. 1999. Surface relaxation of the (110) face of rutile SnO<sub>2</sub>. *Surface Science*. 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 T, Lantto V, Rantala T. 1998. Computational approaches to the chemical sensitivity of semiconducting tin dioxide. *Sensors and Actuators B: Chemical*. 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 TT, Rantala TS, Lantto V, Vaara J. 1996. Surface relaxation of the (1010) face of wurtzite CdS. *Surface Science*. 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 TT, Jelski DA, George TF. 1995. Si<sub>10</sub> and photoabsorption spectra of mid-sized silicon clusters. *Chemical Physics Letters*. 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 TS, Lantto V, Rantala TT. 1994. A cluster approach for the SnO<sub>2</sub> (110) face. *Sensors and Actuators B: Chemical*. 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 TS, Lantto V, Rantala TT. 1993. Rate equation simulation of the height of Schottky barriers at the surface of oxidic semiconductors. *Sensors and Actuators B: Chemical*. 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 TT, Jelski DA, George TF. 1990. Electronic and structural properties of Si<sub>10</sub> cluster. *Journal of Cluster Science*. 1(2):189-200. <https://doi.org/10.1007/BF00702719>

- Rantala TT, Rosén A, Hellsing B. 1986. 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*. 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 TT, Wästberg B, Rosén A. 1986. Potential energy curves for diatomic molecules calculated with numerical basis functions. *Chemical Physics*. 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 TT, Rosén A, Hellsing B. 1986. 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*. 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, Väyrynen J, Kumpula R, Aksela S. 1979. Direct measurement of the kinetic energy shift between the molecular and atomic M4.5N4.5N4.5 Auger spectra of iodine. *Chemical Physics Letters*. 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 S, Caridad JM, Schulte L, Cagliani A, Borah D, Morris MA, Bøggild P, Ndoni S. 2015. High quality sub-10 nm graphene nanoribbons by on-chip PS-b-PDMS block copolymer lithography. *RSC Advances*. 5(82):66711-66717. <https://doi.org/10.1039/c5ra11735f>
- Rasappa S, Borah D, Senthamaraiannan R, Faulkner CC, Holmes JD, Morris MA. 2014. Fabrication of 3-D nanodimensioned electric double layer capacitor structures using block copolymer templates. *Journal Nanoscience and Nanotechnology*. 14(7):5221-5227. <https://doi.org/10.1166/jnn.2014.8668>
- Rasappa S, Schulte L, Borah D, Morris MA, Ndoni S. 2014. Rapid, Brushless Self-assembly of a PS-b-PDMS Block Copolymer for Nanolithography. *Colloids and Interface Science Communications*. 2:1-5. <https://doi.org/10.1016/j.colcom.2014.07.001>
- Rasappa S, Borah D, Faulkner CC, Lutz T, Shaw MT, Holmes JD, Morris MA. 2013. Fabrication of a sub-10 nm silicon nanowire based ethanol sensor using block copolymer lithography. *Nanotechnology*. 24(6). <https://doi.org/10.1088/0957-4484/24/6/065503>
- Ray S, Steven RT, Green FM, Höök F, Taskinen B, Hytönen VP, Shard AG. 2015. Neutralized chimeric avidin binding at a reference biosensor surface. *Langmuir*. 31(6):1921-1930. <https://doi.org/10.1021/la503213f>
- Razavi A, Valkama M, Lohan ES. 2016. Robust statistical approaches for RSS-based floor detection in indoor localization. *Sensors*. 16(6). <https://doi.org/10.3390/s16060793>
- Reeta PS, Khetubol A, Jella T, Chukharev V, Abou-Chahine F, Tkachenko NV, Giribabu L, Lemmetyinen H. 2015. Photophysical properties of Sn (IV)tetraphenylporphyrin-pyrene dyad with a  $\beta$ -vinyl linker. *Journal of Porphyrins and Phthalocyanines*. 19(1-3):288-300. <https://doi.org/10.1142/S1088424615500108>
- Reisberg L, Pärna R, Kikas A, Kuusik I, Kisand V, Hirsimäki M, Valden M, Nömmiste E. 2016. UPS and DFT investigation of the electronic structure of gas-phase trimesic acid. *Journal of Electron Spectroscopy and Related Phenomena*. 213:11-16. <https://doi.org/10.1016/j.elspec.2016.10.004>
- Rembert KB, Paterová J, Heyda J, Hilty C, Jungwirth P, Cremer PS. 2012. Molecular mechanisms of ion-specific effects on proteins. *Journal of the American Chemical Society*. 134(24):10039-10046. <https://doi.org/10.1021/ja301297g>
- Reshef O, Saad-Bin-Alam M, Huttunen MJ, Carlow G, Sullivan BT, Ménard JM, Dolgaleva K, Boyd RW. 2019. Multiresonant High-Q Plasmonic Metasurfaces. *Nano Letters*. 19(9):6429-6434. <https://doi.org/10.1021/acs.nanolett.9b02638>
- Rimpiläinen T, Andrade J, Nunes A, Ntungwe E, Fernandes AS, Vale JR, Rodrigues J, Gomes JP, Rijo P, Candeias NR. 2018. Aminobenzylated 4-Nitrophenols as Antibacterial Agents Obtained from 5-Nitrosalicylaldehyde through a Petasis Borono-Mannich Reaction. *ACS Omega*. 3(11):16191-16202. <https://doi.org/10.1021/acsomega.8b02381>

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

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

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

Rokade SS, Joshi KA, Mahajan K, Patil S, Tomar G, Dubal DS, Parihar VS, Kitture R, Bellare JR, Ghosh S. 2018. Gloriosa superba Mediated Synthesis of Platinum and Palladium Nanoparticles for Induction of Apoptosis in Breast Cancer. *Bioinorganic Chemistry and Applications*. 2018. <https://doi.org/10.1155/2018/4924186>

Roldin P, Ehn M, Kurtén T, Olenius T, Rissanen MP, Sarnela N, Elm J, Rantala P, Hao L, Hyttinen N, Heikkinen L, Worsnop DR, Pichelstorfer L, Xavier C, Clusius P, Öström E, Petäjä T, Kulmala M, Vehkamäki H, Virtanen A, Riipinen I, Boy M. 2019. The role of highly oxygenated organic molecules in the Boreal aerosol-cloud-climate system. *Nature Communications*. 10(1). <https://doi.org/10.1038/s41467-019-12338-8>

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

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

Rooj S, Das A, Heinrich G. 2011. Tube-like natural halloysite/fluoroelastomer nanocomposites with simultaneous enhanced mechanical, dynamic mechanical and thermal properties. *European Polymer Journal*. 47(9):1746-1755. <https://doi.org/10.1016/j.eurpolymj.2011.06.007>

Ropo M, Akola J, Jones RO. 2016. Collective excitations and viscosity in liquid Bi. *Journal of Chemical Physics*. 145(18). <https://doi.org/10.1063/1.4965429>

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

Rytkönen A, Valkealahti S, Manninen M. 1998. Phase diagram of argon clusters. *Journal of Chemical Physics*. 108(14):5826-5833. <https://doi.org/10.1063/1.475993>

Rytkönen A, Valkealahti S, Manninen M. 1997. Melting and evaporation of argon clusters. *Journal of Chemical Physics*. 106(5):1888-1892. <https://doi.org/10.1063/1.473327>

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

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



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

Saarimaa V, Kaleva A, Nikkanen J-P, Heinonen S, Levänen E, Väisänen P, Markkula A, Juhanoja J. 2017. Supercritical carbon dioxide treatment of hot dip galvanized steel as a surface treatment before coating. *Surface and Coatings Technology*. 331:137-142. <https://doi.org/10.1016/j.surfcoat.2017.10.047>

Saarimaa V, Kaleva A, Paunikallio T, Nikkanen J-P, Heinonen S, Levänen E, Väisänen P, Markkula A. 2018. Convenient extraction method for quantification of thin zinc patina layers. *Surface and Interface Analysis*. 50(5):564-570. <https://doi.org/10.1002/sia.6429>

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

Saccone M, Dichiarante V, Forni A, Goulet-Hanssens A, Cavallo G, Vapaavuori J, Terraneo G, Barrett CJ, Resnati G, Metrangolo P, Priimägi A. 2015. Supramolecular hierarchy among halogen and hydrogen bond donors in light-induced surface patterning. *Journal of Materials Chemistry C*. 3:759-768. <https://doi.org/10.1039/c4tc02315c>

Saccone M, Palacio FF, Cavallo G, Dichiarante V, Virkki M, Terraneo G, Priimägi A, Metrangolo P. 2017. Photoresponsive ionic liquid crystals assembled: Via halogen bond: En route towards light-controllable ion transporters. *Faraday Discussions*. 203:407-422. <https://doi.org/10.1039/c7fd00120g>

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

Sadiek I, Mikkonen T, Vainio M, Toivonen J, Foltynowicz A. 2018. Optical frequency comb photoacoustic spectroscopy. *Physical Chemistry Chemical Physics*. 20(44):27849-27855. <https://doi.org/10.1039/c8cp05666h>

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

Saegusa T, Sakai H, Nagashima H, Kobori Y, Tkachenko NV, Hasobe T. 2019. Controlled Orientations of Neighboring Tetracene Units by Mixed Self-Assembled Monolayers on Gold Nanoclusters for High-Yield and Long-Lived Triplet Excited States through Singlet Fission. *Journal of the American Chemical Society*. 141(37):14720-14727. <https://doi.org/10.1021/jacs.9b06567>

Sakai H, Inaya R, Tkachenko NV, Hasobe T. 2018. High-Yield Generation of Triplet Excited States by an Efficient Sequential Photoinduced Process from Energy Transfer to Singlet Fission in Pentacene-Modified CdSe/ZnS Quantum Dots. *Chemistry - A European Journal*. 24(64):17062-17071. <https://doi.org/10.1002/chem.201803257>

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

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

Salunke JK, Wong FL, Feron K, Manzhos S, Lo MF, Shinde D, Patil A, Lee CS, Roy VAL, Sonar P, Wadgaonkar PP. 2016. Phenothiazine and carbazole substituted pyrene based electroluminescent organic semiconductors for OLED devices. *Journal of Materials Chemistry C*. 4(5):1009-1018. <https://doi.org/10.1039/c5tc03690a>

- Salunke JK, Sonar P, Wong FL, Roy VAL, Lee CS, Wadgaonkar PP. 2014. Pyrene based conjugated materials: Synthesis, characterization and electroluminescent properties. *Physical Chemistry Chemical Physics*. 16(42):23320-23328. <https://doi.org/10.1039/c4cp03693j>
- Sanginés R, Contreras V, Sobral H, Robledo-Martinez A. 2015. Optimal emission enhancement in orthogonal double-pulse laser-induced breakdown spectroscopy. *Spectrochimica Acta Part B: Atomic Spectroscopy*. 110:139-145. <https://doi.org/10.1016/j.sab.2015.06.012>
- Sankari A, Stråhlman C, Sankari R, Partanen L, Laksman J, Kettunen JA, Galván IF, Lindh R, Malmqvist PÅ, Sorensen SL. 2020. Non-radiative decay and fragmentation in water molecules after 1 a 1-1 4 a 1 excitation and core ionization studied by electron-energy-resolved electron-ion coincidence spectroscopy. *Journal of Chemical Physics*. 152(7). <https://doi.org/10.1063/1.5141414>
- Santos FMF, Rosa JN, Candeias NR, Carvalho CP, Matos AI, Ventura AE, Florindo HF, Silva LC, Pischel U, Gois PMP. 2016. A Three-Component Assembly Promoted by Boronic Acids Delivers a Modular Fluorophore Platform (BASHY Dyes) . *Chemistry: A European Journal*. 22(5):1631-1637. <https://doi.org/10.1002/chem.201503943>
- Sariola V. 2019. Analytical Expressions for Spring Constants of Capillary Bridges and Snap-in Forces of Hydrophobic Surfaces. *Langmuir*. 35(22):7129-7135. <https://doi.org/10.1021/acs.langmuir.9b00152>
- Sarlin E, Honkanen M, Lindgren M, Laihonon P, Juutilainen M, Vippola M, Vuorinen J. 2020. The effect of substrate pre-treatment on durability of rubber-stainless steel adhesion. *Surfaces and Interfaces*. 21. <https://doi.org/10.1016/j.surfin.2020.100646>
- Sassatelli P, Bolelli G, Lassinantti Gualtieri M, Heinonen E, Honkanen M, Luvvarghi L, Manfredini T, Rigon R, Vippola M. 2018. Properties of HVOF-sprayed Stellite-6 coatings. *Surface and Coatings Technology*. 338:45-62. <https://doi.org/10.1016/j.surfcoat.2018.01.078>
- Sautter JD, Xu L, Miroshnichenko AE, Lysevych M, Volkovskaya I, Smirnova DA, Camacho-Morales R, Zangeneh Kamali K, Karouta F, Vora K, Tan HH, Kauranen M, Staude I, Jagadish C, Neshev DN, Rahmani M. 2019. Tailoring Second-Harmonic Emission from (111)-GaAs Nanoantennas. *Nano Letters*. 19(6):3905-3911. <https://doi.org/10.1021/acs.nanolett.9b01112>
- Savolainen J, Uhlig F, Ahmed S, Hamm P, Jungwirth P. 2014. Direct observation of the collapse of the delocalized excess electron in water. *Nature Chemistry*. 6(8):697-701. <https://doi.org/10.1038/nchem.1995>
- Schraik D, Varvia P, Korhonen L, Rautiainen M. 2019. Bayesian inversion of a forest reflectance model using Sentinel-2 and Landsat 8 satellite images. *JOURNAL OF QUANTITATIVE SPECTROSCOPY AND RADIATIVE TRANSFER*. 233:1-12. <https://doi.org/10.1016/j.jqsrt.2019.05.013>
- Schroeder CA, Pluharová E, Seidel R, Schroeder WP, Faubel M, Slaviček P, Winter B, Jungwirth P, Bradforth SE. 2015. Oxidation half-reaction of aqueous nucleosides and nucleotides via photoelectron spectroscopy augmented by ab initio calculations. *Journal of the American Chemical Society*. 137(1):201-209. <https://doi.org/10.1021/ja508149e>
- Seo JY, Lee K, Ramasamy P, Kim B, Lee SY, Oh YK, Park SB. 2015. Tri-functionality of Fe<sub>3</sub>O<sub>4</sub>-embedded carbon microparticles in microalgae harvesting. *Chemical Engineering Journal*. 280:206-214. <https://doi.org/10.1016/j.cej.2015.05.122>
- Serak SV, Tabiryann NV, Assanto G. 2012. Nematicons in azobenzene liquid crystals. *Molecular Crystals and Liquid Crystals*. 559:202-213. <https://doi.org/10.1080/15421406.2012.658710>
- Shakun A, Poikelispää M, Das A, Vuorinen J. 2018. Improved electromechanical response in acrylic rubber by different carbon-based fillers. *Polymer Engineering and Science*. 58(3):395-404. <https://doi.org/10.1002/pen.24586>

- Shakun A, Sarlin E, Vuorinen J. 2020. Energy dissipation in natural rubber latex films: The effect of stabilizers, leaching and acetone-treatment. *Journal of Applied Polymer Science*. <https://doi.org/10.1002/app.49609>
- Sharma R, Bhalariao S, Gupta D. 2016. Effect of incorporation of CdS NPs on performance of PTB7: PCBM organic solar cells. *Organic Electronics: physics, materials, applications*. 33:274-280. <https://doi.org/10.1016/j.orgel.2016.03.030>
- Sharma V, Yiannacou K, Karjalainen M, Lahtonen K, Valden M, Sariola V. 2019. Large-scale efficient water harvesting using bioinspired micro-patterned copper oxide nanoneedle surfaces and guided droplet transport. *Nanoscale Advances*. 1(10):4025-4040. <https://doi.org/10.1039/c9na00405j>
- Sharma RO, Rantala TT, Hoggan PE. 2020. Selective hydrogen production at Pt(111) investigated by Quantum Monte Carlo methods for metal catalysis. *International Journal of Quantum Chemistry*. 120(11). <https://doi.org/10.1002/qua.26198>
- Shevkunov I, Katkovnik V, Claus D, Pedrini G, Petrov NV, Egiazarian K. 2019. Spectral object recognition in hyperspectral holography with complex-domain denoising. *Sensors (Switzerland)*. 19(23). <https://doi.org/10.3390/s19235188>
- Shin J, Cherstvy AG, Metzler R. 2015. Kinetics of polymer looping with macromolecular crowding: Effects of volume fraction and crowder size. *Soft Matter*. 11(3):472-488. <https://doi.org/10.1039/c4sm02007c>
- Shin J, Cherstvy AG, Metzler R. 2015. Polymer looping is controlled by macromolecular crowding, spatial confinement, and chain stiffness. *ACS Macro Letters*. 4(2):202-206. <https://doi.org/10.1021/mz500709w>
- Shin M, Kim J, Jung YK, Ruoko T-P, Priimagi A, Walsh A, Shin B. 2019. Low-dimensional formamidinium lead perovskite architectures via controllable solvent intercalation. *Journal of Materials Chemistry C*. 7(13):3945-3951. <https://doi.org/10.1039/c9tc00379g>
- Siiskonen A, Priimägi A. 2017. Benchmarking DFT methods with small basis sets for the calculation of halogen-bond strengths. *Journal of Molecular Modeling*. 23(2). <https://doi.org/10.1007/s00894-017-3212-4>
- Siljander S, Keinänen P, Rätty A, Ramakrishnan KR, Tuukkanen S, Kunnari V, Harlin A, Vuorinen J, Kanerva M. 2018. Effect of surfactant type and sonication energy on the electrical conductivity properties of nanocellulose-CNT nanocomposite films. *International Journal of Molecular Sciences*. 19(6). <https://doi.org/10.3390/ijms19061819>
- Sippola RJ, Hadipour A, Kastinen T, Vivo P, Hukka TI, Aernouts T, Heiskanen JP. 2017. Carbazole-based small molecule electron donors: Syntheses, characterization, and material properties. *Dyes and Pigments*. 150:79-88. <https://doi.org/10.1016/j.dyepig.2017.11.014>
- Smith JD, Mitsakou C, Kitwiroon N, Barratt BM, Walton HA, Taylor JG, Anderson HR, Kelly FJ, Beevers SD. 2016. London Hybrid Exposure Model: Improving Human Exposure Estimates to NO<sub>2</sub> and PM<sub>2.5</sub> in an Urban Setting. *Environmental Science and Technology*. 50(21):11760-11768. <https://doi.org/10.1021/acs.est.6b01817>
- Solovyev AI, Mikheylyis AV, Plyusnin VF, Shubin AA, Grivin VP, Larionov SV, Tkachenko NV, Lemmetyinen H. 2019. 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*. 381. <https://doi.org/10.1016/j.jphotochem.2019.111857>
- Song X, Liu Z, Suhonen T, Varis T, Huang L, Zheng X, Zeng Y. 2015. Effect of melting state on the thermal shock resistance and thermal conductivity of APS ZrO<sub>2</sub>-7.5wt.% Y<sub>2</sub>O<sub>3</sub> coatings. *Surface and Coatings Technology*. 270:132-138. <https://doi.org/10.1016/j.surfcoat.2015.03.011>
- Sorvajärvi T, Viljanen J, Toivonen J, Marshall P, Glarborg P. 2015. Rate constant and thermochemistry for K + O<sub>2</sub> + N<sub>2</sub> = KO<sub>2</sub> + N<sub>2</sub>. *Journal of Physical Chemistry A*. 119(14):3329-3336. <https://doi.org/10.1021/acs.jpca.5b00755>

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

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

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

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