

- Nazir, R., Bourquard, F., Balčiūnas, E., Smoleń, S., Gray, D., Tkachenko, N. V., ... Gryko, D. T. (2015).  $\pi$ -Expanded  $\alpha,\beta$ -unsaturated ketones: Synthesis, optical properties, and two-photon-induced polymerization. *ChemPhysChem*, *16*(3), 682–690. <https://doi.org/10.1002/cphc.201402646>
- 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>
- Koivisto, A. J., Aromaa, M., Koponen, I. K., Fransman, W., Jensen, K. A., Mäkelä, J. M., & Hämeri, K. J. (2015). Workplace performance of a loose-fitting powered air purifying respirator during nanoparticle synthesis. *Journal of Nanoparticle Research*, *17*(4). <https://doi.org/10.1007/s11051-015-2990-9>
- Raappana, M., Polojärvi, V., Aho, A., Mäkelä, J., Aho, T., Tukiainen, A., ... Guina, M. (2018). Wet etching of dilute nitride GaInNAs, GaInNAsSb, and GaNAsSb alloys lattice-matched to GaAs. *Corrosion Science*, *136*, 268-274. <https://doi.org/10.1016/j.corsci.2018.03.018>
- Boardman, A. D., Alberucci, A., Assanto, G., Grimalsky, V. V., Kibler, B., McNiff, J., ... Valagiannopoulos, C. A. (2017). Waves in hyperbolic and double negative metamaterials including rogues and solitons. *Nanotechnology*, *28*(44), [444001]. <https://doi.org/10.1088/1361-6528/aa6792>
- Stumpel, J. E., Broer, D. J., & Schenning, A. P. H. J. (2015). Water-responsive dual-coloured photonic polymer coatings based on cholesteric liquid crystals. *RSC Advances*, *5*(115), 94650-94653. <https://doi.org/10.1039/c5ra18017a>
- Banerjee, S. S., Hait, S., Natarajan, T. S., Wießner, S., Stöckelhuber, K. W., Jehnichen, D., ... Das, A. (2019). Water-Responsive and Mechanically Adaptive Natural Rubber Composites by in Situ Modification of Mineral Filler Structures. *Journal of Physical Chemistry B*, *123*(24), 5168-5175. <https://doi.org/10.1021/acs.jpcc.9b02125>
- Eregowda, T., Rene, E. R., Rintala, J., & Lens, P. N. L. (2019). Volatile fatty acid adsorption on anion exchange resins: kinetics and selective recovery of acetic acid. *Separation Science and Technology (Philadelphia)*. <https://doi.org/10.1080/01496395.2019.1600553>
- Tois, J., Franzèn, R., Aitio, O., Laakso, I., & Kylänlahti, I. (2001). Vilsmeier formylation of 2-carboxyindoles and preparation of O-benzylhydroxyureas on solid phase. *Journal of Combinatorial Chemistry*, *3*(6), 542-545. <https://doi.org/10.1021/cc010004f>
- Heikkinen, J. J., Kivimäki, L., Määttä, J. A. E., Mäkelä, I., Hakalahti, L., Takkinen, K., ... Hormi, O. E. O. (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>
- Poikelispää, M., Shakun, A., Sarlin, E., Das, A., & Vuorinen, J. (2017). Vegetable fillers for electric stimuli responsive elastomers. *Journal of Applied Polymer Science*, *134*(28), [45081]. <https://doi.org/10.1002/app.45081>
- Karilainen, T., Cramariuc, O., Kuisma, M., Tappura, K., & Hukka, T. I. (2015). Van der Waals interactions are critical in Car-Parrinello molecular dynamics simulations of porphyrin-fullerene dyads. *Journal of Computational Chemistry*, *36*(9), 612-621. <https://doi.org/10.1002/jcc.23834>
- Kainulainen, T. P., Sirviö, J. A., Sethi, J., Hukka, T. I., & Heiskanen, J. P. (2018). UV-Blocking Synthetic Biopolymer from Biomass-Based Bifuran Diester and Ethylene Glycol. *Macromolecules*, *51*(5), 1822-1829. <https://doi.org/10.1021/acs.macromol.7b02457>
- Franzén, R. G. (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)

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>

Reisberg, L., Pärna, R., Kikas, A., Kuusik, I., Kisand, V., Hirsimäki, M., ... Nõmmiste, E. (2016). UPS and DFT investigation of the electronic structure of gas-phase trimesic acid. *Journal of Electron Spectroscopy and Related Phenomena*, 213, 11-16. <https://doi.org/10.1016/j.elspec.2016.10.004>

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>

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

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

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

Väisänen, A., Suontamo, R., Silvonen, J., & Rintala, J. (2002). Ultrasound-assisted extraction in the determination of arsenic, cadmium, copper, lead, and silver in contaminated soil samples by inductively coupled plasma atomic emission spectrometry. *Analytical and Bioanalytical Chemistry*, 373(1-2), 93-97. <https://doi.org/10.1007/s00216-002-1290-2>

Khvorost, T. A., Beliaev, L. Y., Potalueva, E., Laptchenkova, A. V., Selyutin, A. A., Bogachev, N. A., ... Mereshchenko, A. S. (2020). Ultrafast Photochemistry of the [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>

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>

Borah, D., Rasappa, S., Senthamaraiannan, R., Holmes, J. D., & Morris, M. A. (2013). Tuning PDMS brush chemistry by UV-O<sub>3</sub> exposure for PS-b-PDMS microphase separation and directed self-assembly. *Langmuir*, 29(28), 8959-8968. <https://doi.org/10.1021/la401561k>

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

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>

Seo, J. Y., Lee, K., Ramasamy, P., Kim, B., Lee, S. Y., Oh, Y. K., & Park, S. B. (2015). Tri-functionality of Fe<sub>3</sub>O<sub>4</sub>-embedded carbon microparticles in microalgae harvesting. *Chemical Engineering Journal*, 280, 206-214. <https://doi.org/10.1016/j.cej.2015.05.122>

Bolelli, G., Berger, L. M., Börner, T., Koivuluoto, H., Lusvardi, L., Lyphout, C., ... Vuoristo, P. (2015). Tribology of HVOF- and HVAF-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>

- 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>
- Pluhařová, E., Ončák, M., Seidel, R., Schroeder, C., Schroeder, W., Winter, B., ... Slaviček, 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>
- Giammarco, J., Zdyrko, B., Petit, L., Musgraves, J. D., Hu, J., Agarwal, A., ... Luzinov, I. (2011). Towards universal enrichment nanocoating for IR-ATR waveguides. *Chemical Communications*, *47*(32), 9104-9106. <https://doi.org/10.1039/c1cc12780b>
- Nymark, P., Bakker, M., Dekkers, S., Franken, R., Fransman, W., García-Bilbao, A., ... Grafström, R. (2020). Toward Rigorous Materials Production: New Approach Methodologies Have Extensive Potential to Improve Current Safety Assessment Practices. *Small*, *16*(6), [1904749]. <https://doi.org/10.1002/smll.201904749>
- Lisitsyna, E. S., Ketola, T.-M., Morin-Picardat, E., Liang, H., Hanzlíková, M., Urtti, A., ... Vuorimaa-Laukkanen, E. (2017). Time-Resolved Fluorescence Spectroscopy Reveals Fine Structure and Dynamics of Poly(L-lysine) and Polyethylenimine Based DNA Polyplexes. *Journal of Physical Chemistry B*, *121*(48), 10782-10792. <https://doi.org/10.1021/acs.jpccb.7b08394>
- Lemmetyinen, H., Tkachenko, N. V., Valeur, B., Hotta, J. I., Ameloot, M., Ernsting, N. P., ... Boens, N. (2014). Time-resolved fluorescence methods (IUPAC technical report). *Pure and Applied Chemistry*, *86*(12), 1969-1998. <https://doi.org/10.1515/pac-2013-0912>
- 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>
- Dehmer, M., & Emmert-Streib, F. (2008). The structural information content of chemical networks. *Zeitschrift fur Naturforschung Section A: A Journal of Physical Sciences*, *63*(3-4), 155-158.
- Lolicato, F., Joly, L., Martinez-Seara, H., Fragneto, G., Scoppola, E., Baldelli Bombelli, F., ... Maccarini, M. (2019). The Role of Temperature and Lipid Charge on Intake/Uptake of Cationic Gold Nanoparticles into Lipid Bilayers. *Small*, *15*(23), [1805046]. <https://doi.org/10.1002/smll.201805046>
- Azemati, H., Jam, F., Ghorbani, M., Dehmer, M., Ebrahimpour, R., Ghanbaran, A., & Emmert-Streib, F. (2020). The role of symmetry in the aesthetics of residential building façades using cognitive science methods. *Symmetry*, *12*(9), [1438]. <https://doi.org/10.3390/sym12091438>
- Le, H. H., Abhijeet, S., Ilisch, S., Klehm, J., Henning, S., Beiner, M., ... Radosch, H. J. (2014). The role of linked phospholipids in the rubber-filler interaction in carbon nanotube (CNT) filled natural rubber (NR) composites. *Polymer*, *55*(18), 4738-4747. <https://doi.org/10.1016/j.polymer.2014.07.043>
- Roldin, P., Ehn, M., Kurtén, T., Olenius, T., Rissanen, M. P., Sarnela, N., ... Boy, M. (2019). The role of highly oxygenated organic molecules in the Boreal aerosol-cloud-climate system. *Nature Communications*, *10*(1), [4370]. <https://doi.org/10.1038/s41467-019-12338-8>
- 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>
- Golovanov, V., Golovanova, V., & Rantala, T. T. (2016). Thermal desorption of molecular oxygen from SnO<sub>2</sub> (110) surface: Insights from first-principles calculations. *Journal of Physics and Chemistry of Solids*, *89*, 15-22. <https://doi.org/10.1016/j.jpcs.2015.10.010>

- Liu, W., Ban, J., Feng, L., Cheng, T., Emmert-Streib, F., & Dehmer, M. (2019). The maximum Hosoya index of unicyclic graphs with diameter at most four. *Symmetry*, *11*(8), [1034]. <https://doi.org/10.3390/sym11081034>
- Kärkkäinen, M., Kolli, T., Honkanen, M., Heikkinen, O., Väliheikki, A., Huuhtanen, M., ... Keiski, R. L. (2016). The Influence of Phosphorus Exposure on a Natural-Gas-Oxidation Catalyst. *Topics in Catalysis*, *59*(10-12), 1044-1048. <https://doi.org/10.1007/s11244-016-0587-x>
- Ghorbani, M., Dehmer, M., Mowshowitz, A., Tao, J., & Emmert-Streib, F. (2019). The Hosoya entropy of graphs revisited. *Symmetry*, *11*(8), [1013]. <https://doi.org/10.3390/sym11081013>
- Priimagi, A., Cavallo, G., Metrangolo, P., & Resnati, G. (2013). The Halogen Bond in the Design of Functional Supramolecular Materials: Recent Advances. *Accounts of Chemical Research*, *46*(11), 2686-2695. <https://doi.org/10.1021/ar400103r>
- Alanen, J., Saukko, E., Lehtoranta, K., Murtonen, T., Timonen, H., Hillamo, R., ... Rönkkö, T. (2015). The formation and physical properties of the particle emissions from a natural gas engine. *Fuel*, *162*, 155-161. <https://doi.org/10.1016/j.fuel.2015.09.003>
- 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>
- Lahti, J., Tuominen, M., Penttinen, T., Räsänen, J. P., & 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* (Vuosikerta 1, Sivut 278-314)
- Kramb, J., Gómez-Barea, A., DeMartini, N., Romar, H., Doddapaneni, T. R. K. C., & 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>
- Sarlin, E., Honkanen, M., Lindgren, M., Laihonon, P., Juutilainen, M., Vippola, M., & Vuorinen, J. (2020). The effect of substrate pre-treatment on durability of rubber-stainless steel adhesion. *Surfaces and Interfaces*, *21*, [100646]. <https://doi.org/10.1016/j.surfin.2020.100646>
- Haavisto, J. M., Kokko, M. E., Lakaniemi, A. M., Sulonen, M. L. K., & Puhakka, J. A. (2020). The effect of start-up on energy recovery and compositional changes in brewery wastewater in bioelectrochemical systems. *BIOELECTROCHEMISTRY*, *132*, [107402]. <https://doi.org/10.1016/j.bioelechem.2019.107402>
- 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>
- Härkönen, H. H., Mattsson, J. M., Määttä, J. A. E., Stenman, U. H., Koistinen, H., Matero, S., ... 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>
- Gurtovenko, A. A., Javanainen, M., Lolicato, F., & Vattulainen, I. (2019). The Devil Is in the Details: What Do We Really Track in Single-Particle Tracking Experiments of Diffusion in Biological Membranes? *Journal of Physical Chemistry Letters*, *10*(5), 1005-1011. <https://doi.org/10.1021/acs.jpcclett.9b00065>
- Truong, K. N., Rautiainen, J. M., Rissanen, K., & Puttreddy, R. (2020). The C-I<sup>-</sup>...O-N<sup>+</sup> Halogen Bonds with Tetraiodoethylene and Aromatic N-Oxides. *Crystal Growth and Design*, *20*(8), 5330-5337. <https://doi.org/10.1021/acs.cgd.0c00560>

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

Banerjee, S. S., Natarajan, T. S., 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*, [48344]. <https://doi.org/10.1002/app.48344>

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

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

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

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

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>

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>

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

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)

Assoah, B., Riihonen, V., Vale, J. R., Valkonen, A., & Candeias, N. R. (2019). Synthesis of 6,12-disubstituted methanodibenzo[b,f][1,5]dioxocins: Pyrrolidine catalyzed self-condensation of 2'-Hydroxyacetophenones. *Molecules*, *24* (13), [2405]. <https://doi.org/10.3390/molecules24132405>

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

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

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

- 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>
- Abou-Chahine, F., Fujii, D., Imahori, H., Nakano, H., Tkachenko, N. V., Matano, Y., & Lemmetyinen, H. (2015). Synthesis and Photophysical Properties of Two Diazaporphyrin-Porphyrin Hetero Dimers in Polar and Nonpolar Solutions. *Journal of Physical Chemistry Part B*, 119(24), 7328-7337. <https://doi.org/10.1021/jp510903a>
- Ayodele, O. B., Cai, R., Wang, J., Ziouani, Y., Liang, Z., Spadaro, M. C., ... Kolen'Ko, Y. V. (2019). Synergistic Computational-Experimental Discovery of Highly Selective PtCu Nanocluster Catalysts for Acetylene Semihydrogenation. *ACS CATALYSIS*, 451-457. <https://doi.org/10.1021/acscatal.9b03539>
- Chronopoulos, A., Thorpe, S. D., Cortes, E., Lachowski, D., Rice, A. J., Mykuliak, V. V., ... del Río Hernández, A. E. (2020). Syndecan-4 tunes cell mechanics by activating the kindlin-integrin-RhoA pathway. *Nature Materials*. <https://doi.org/10.1038/s41563-019-0567-1>
- Taskinen, B., Zauner, D., Lehtonen, S. I., Koskinen, M., Thomson, C., Kähkönen, N., ... Hytönen, V. P. (2014). Switchavidin: Reversible biotin-avidin-biotin bridges with high affinity and specificity. *Bioconjugate Chemistry*, 25(12), 2233-2243. <https://doi.org/10.1021/bc500462w>
- Koskela, J. E., Vapaavuori, J., Hautala, J., Priimagi, A., Faul, C. F. J., Kaivola, M., & Ras, R. H. A. (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>
- Rantala, T. T., Rantala, T. S., & 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. T., Rantala, T. S., 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)
- Pelto, J. M., Haimi, S. P., Siljander, A. S., Miettinen, S. S., Tappura, K. M., Higgins, M. J., & Wallace, G. G. (2013). Surface properties and interaction forces of biopolymer-doped conductive polypyrrole surfaces by atomic force microscopy. *Langmuir*, 29(20), 6099-6108. <https://doi.org/10.1021/la4009366>
- Werner, J., Wernersson, E., Ekholm, V., Ottosson, N., Öhrwall, G., Heyda, J., ... Björneholm, O. (2014). Surface behavior of hydrated guanidinium and ammonium ions: A comparative study by photoelectron spectroscopy and molecular dynamics. *Journal of Physical Chemistry Part B*, 118(25), 7119-7127. <https://doi.org/10.1021/jp500867w>
- Saccone, M., Dichiarante, V., Forni, A., Goulet-Hanssens, A., Cavallo, G., Vapaavuori, J., ... Priimagi, 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>
- Vapaavuori, J., Bazuin, C. G., & Priimagi, A. (2018). Supramolecular design principles for efficient photoresponsive polymer-azobenzene complexes. *Journal of Materials Chemistry C*, 6(9), 2168-2188. <https://doi.org/10.1039/c7tc05005d>
- Vapaavuori, J., Siiskonen, A., Dichiarante, V., Forni, A., Saccone, M., Pilati, T., ... Priimagi, A. (2017). Supramolecular control of liquid crystals by doping with halogen-bonding dyes. *RSC Advances*, 7(64), 40237-40242. <https://doi.org/10.1039/c7ra06397k>
- Lisitsyna, E. S., Lygo, O. N., Durandin, N. A., Dement'eva, O. V., Rudoi, V. M., & Kuzmin, V. A. (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>

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

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

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

Fatarelle, E., Mylläri, V., Ruzzante, M., Pogni, R., Baratto, M. C., Skrifvars, M., ... Järvelä, P. (2015). Sulfonated polyetheretherketone/polypropylene polymer blends for the production of photoactive materials. *Journal of Applied Polymer Science*, *132*(8), [41509]. <https://doi.org/10.1002/app.41509>

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

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

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>

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>

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>

Wang, D. Y., Das, A., Leuteritz, A., Mahaling, R. N., Jehnichen, D., Wagenknecht, U., & Heinrich, G. (2012). Structural characteristics and flammability of fire retarding EPDM/layered double hydroxide (LDH) nanocomposites. *RSC Advances*, *2*(9), 3927-3933. <https://doi.org/10.1039/c2ra20189e>

Kotila, T., Kogan, K., Enkavi, G., Guo, S., Vattulainen, I., Goode, B. L., & Lappalainen, P. (2018). Structural basis of actin monomer re-charging by cyclase-Associated protein. *Nature Communications*, *9*(1), [1892]. <https://doi.org/10.1038/s41467-018-04231-7>

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

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>

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

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

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>

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*

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

Lepistö, S. S., & Rintala, J. A. (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)

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>

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

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>

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

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

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

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

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

Kuz'min, V. A., Durandin, N. A., Lisitsyna, E. S., Nekipelova, T. D., Podrugina, T. A., Matveeva, E. D., ... Zefirov, N. S. (2015). Spectral and kinetic characteristics of indotricarbocyanine complexation with albumin. *DOKLADY PHYSICAL CHEMISTRY*, *462*(1), 107-109. <https://doi.org/10.1134/S0012501615050036>

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)



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>

Tois, J., Franzén, R., Aitio, O., Laakso, I., Huuskonen, J., & Taskinen, J. (2001). Solid-phase bromination and Suzuki coupling of 2-carboxyindoles. *Combinatorial Chemistry and High Throughput Screening*, *4*(6), 521-524. <https://doi.org/10.2174/1386207013330887>

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

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

Borah, D., Rasappa, S., Salaun, M., Zellsman, M., Lorret, O., Liontos, G., ... Morris, M. A. (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>

Ma, L., Jackson, K. A., & 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., 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), [094304]. <https://doi.org/10.1063/1.4793276>

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>

Rantala, T. T., Jelski, D. A., & George, T. F. (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)

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

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

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

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

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

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

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

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>

Bajamundi, C. J. E., Vainikka, P., Hedman, M., Silvennoinen, J., Heinanen, T., Taipale, R., & Konttinen, J. (2015). Searching for a robust strategy for minimizing alkali chlorides in fluidized bed boilers during burning of high SRF-energy-share fuel. *Fuel*, 155, 25-36. <https://doi.org/10.1016/j.fuel.2015.03.087>

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>

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>

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

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

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>

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

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

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

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

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>

Stumpel, J. E. (2015). Responsive Polymer Photonics. *Chemistryopen*, 4(4), 533-535. <https://doi.org/10.1002/open.201500104>

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

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>

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

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

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>

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

Franzén, R. G. (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>

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

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

Rantala, T. S., Lantto, V., & Rantala, T. T. (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)

Sorvajärvi, T., Viljanen, J., Toivonen, J., Marshall, P., & Glarborg, P. (2015). Rate constant and thermochemistry for  $K + O_2 + N_2 = KO_2 + N_2$ . *Journal of Physical Chemistry A*, 119(14), 3329-3336. <https://doi.org/10.1021/acs.jpca.5b00755>

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

Tian, Y., Bova, G. S., & Zhang, H. (2011). Quantitative glycoproteomic analysis of optimal cutting temperature-embedded frozen tissues identifying glycoproteins associated with aggressive prostate cancer. *Analytical Chemistry*, 83(18), 7013-7019. <https://doi.org/10.1021/ac200815q>

- Dehmer, M., Emmert-Streib, F., Tsoy, Y. R., & Varmuza, K. (2011). Quantifying structural complexity of graphs: Information measures in mathematical chemistry. teoksessa M. V. Putz (Toimittaja), *Quantum Frontiers of Atoms and Molecules* (Sivut 479-497). Nova Science Publishers, Inc..
- Bodrova, A., Chechkin, A. V., Cherstvy, A. G., & Metzler, R. (2015). Quantifying non-ergodic dynamics of force-free granular gases. *Physical Chemistry Chemical Physics*, *17*(34), 21791-21798. <https://doi.org/10.1039/c5cp02824h>
- Heijne, A. T., Liu, D., Sulonen, M., Sleutels, T., & Fabregat-Santiago, F. (2018). Quantification of bio-anode capacitance in bioelectrochemical systems using Electrochemical Impedance Spectroscopy. *Journal of Power Sources*, *400*, 533-538. <https://doi.org/10.1016/j.jpowsour.2018.08.003>
- Ghalibaf, M., Doddapaneni, T. R. K. C., & Alén, R. (2019). Pyrolytic behavior of lignocellulosic-based polysaccharides. *Journal of Thermal Analysis and Calorimetry*, *137*(1), 121-131. <https://doi.org/10.1007/s10973-018-7919-y>
- Salunke, J. K., Sonar, P., Wong, F. L., Roy, V. A. L., Lee, C. S., & Wadgaonkar, P. P. (2014). Pyrene based conjugated materials: Synthesis, characterization and electroluminescent properties. *Physical Chemistry Chemical Physics*, *16*(42), 23320-23328. <https://doi.org/10.1039/c4cp03693j>
- Hytönen, V. P., & Wehrle-Haller, B. (2014). Protein conformation as a regulator of cell-matrix adhesion. *Physical Chemistry Chemical Physics*, *16*(14), 6342-6357. <https://doi.org/10.1039/c3cp54884h>
- Sassatelli, P., Bolelli, G., Lassinantti Gualtieri, M., Heinonen, E., Honkanen, M., Lusvarghi, L., ... Vippola, M. (2018). Properties of HVOF-sprayed Stellite-6 coatings. *Surface and Coatings Technology*, *338*, 45-62. <https://doi.org/10.1016/j.surfcoat.2018.01.078>
- German, S. J., Behbahani, M., Miettinen, S., Grijpma, D. W., & Haimi, S. P. (2013). Proliferation and differentiation of adipose stem cells towards smooth muscle cells on poly(trimethylene carbonate) membranes. *Macromolecular symposia*, *334*(1), 133-142. <https://doi.org/10.1002/masy.201300100>
- Zhang, H., Zeng, H., Priimägi, A., & Ikkala, O. (2019). Programmable responsive hydrogels inspired by classical conditioning algorithm. *Nature Communications*, *10*(1), [3267]. <https://doi.org/10.1038/s41467-019-11260-3>
- Mylläri, V., Fatarella, E., Ruzzante, M., Pogni, R., Baratto, M. C., Skrifvars, M., ... Järvelä, P. (2015). Production of sulfonated polyetheretherketone/polypropylene fibers for photoactive textiles. *Journal of Applied Polymer Science*, *132* (39), [42595]. <https://doi.org/10.1002/app.42595>
- Tawade, B. V., Salunke, J. K., Sane, P. S., & Wadgaonkar, P. P. (2014). Processable aromatic polyesters based on bisphenol derived from cashew nut shell liquid: synthesis and characterization. *JOURNAL OF POLYMER RESEARCH*, *21* (12). <https://doi.org/10.1007/s10965-014-0617-y>
- Das, A., Wang, D. Y., Leuteritz, A., Subramaniam, K., Greenwell, H. C., 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>
- Tois, J., Franzén, R., Aitio, O., Huikko, K., & Taskinen, J. (2000). Preparation of 5-substituted 2-carboxyindoles on solid support. *Tetrahedron Letters*, *41*(14), 2443-2446. [https://doi.org/10.1016/S0040-4039\(00\)00151-9](https://doi.org/10.1016/S0040-4039(00)00151-9)
- Jain, R., Dominic, D., Jordan, N., Rene, E. R., Weiss, S., van Hullebusch, E. D., ... Lens, P. N. L. (2016). Preferential adsorption of Cu in a multi-metal mixture onto biogenic elemental selenium nanoparticles. *Chemical Engineering Journal*, *284*, 917-925. <https://doi.org/10.1016/j.cej.2015.08.144>
- Rantala, T. T., 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)

- Vale, J. R., Rimpiläinen, T., Sievänen, E., Rissanen, K., Afonso, C. A. M., & Candeias, N. R. (2018). Pot-economy autooxidative condensation of 2-Aryl-2-lithio-1,3-dithianes. *Journal of Organic Chemistry*, *83*(4), 1948-1958. <https://doi.org/10.1021/acs.joc.7b02896>
- Anttalainen, O., Puton, J., Kontunen, A., Karjalainen, M., Kumpulainen, P., Oksala, N., ... Roine, A. (2019). Possible strategy to use differential mobility spectrometry in real time applications. *International Journal for Ion Mobility Spectrometry*. <https://doi.org/10.1007/s12127-019-00251-1>
- Ometov, A., Bezzateev, S., Davydov, V., Shchesniak, A., Masek, P., Lohan, E. S., & Koucheryavy, Y. (2019). Positioning information privacy in intelligent transportation systems: An overview and future perspective. *Sensors*, *19*(7), [1603]. <https://doi.org/10.3390/s19071603>
- Niskanen, M., Kuisma, M., Cramariuc, O., Golovanov, V., Hukka, T. I., Tkachenko, N., & Rantala, T. T. (2013). Porphyrin adsorbed on the (1010) surface of the wurtzite structure of ZnO-conformation induced effects on the electron transfer characteristics. *Physical Chemistry Chemical Physics*, *15*(40), 17408-17418. <https://doi.org/10.1039/c3cp51685g>
- Calejo, M. T., Haapala, A., Skottman, H., & Kellomäki, M. (2019). Porous polybutylene succinate films enabling adhesion of human embryonic stem cell-derived retinal pigment epithelial cells (hESC-RPE). *European Polymer Journal*, *118*, 78-87. <https://doi.org/10.1016/j.eurpolymj.2019.05.041>
- He, X., Benniston, A. C., Saarenpää, H., Lemmetyinen, H., Tkachenko, N. V., & Baisch, U. (2015). Polymorph crystal packing effects on charge transfer emission in the solid state. *Chemical Science*, *6*(6), 3525-3532. <https://doi.org/10.1039/c5sc01151e>
- Shin, J., Cherstvy, A. G., & Metzler, R. (2015). Polymer looping is controlled by macromolecular crowding, spatial confinement, and chain stiffness. *ACS Macro Letters*, *4*(2), 202-206. <https://doi.org/10.1021/mz500709w>
- Robison, A. D., Sun, S., Poyton, M. F., Johnson, G. A., Pellois, J. P., Jungwirth, P., ... Cremer, P. S. (2016). Polyarginine Interacts More Strongly and Cooperatively than Polylysine with Phospholipid Bilayers. *Journal of Physical Chemistry Part B*, *120*(35), 9287-9296. <https://doi.org/10.1021/acs.jpcc.6b05604>
- Balanta, M. A. G., Orsi Gordo, V., Carvalho, A. R. H., Puustinen, J., Alghamdi, H. M., Henini, M., ... Galvão Gobato, Y. (2017). Polarization resolved photoluminescence in 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>
- Orlowski, A., Kukkurainen, S., Pöyry, A., Rissanen, S., Vattulainen, I., Hytönen, V. P., & Róg, T. (2015). PIP2 and Talin Join Forces to Activate Integrin. *Journal of Physical Chemistry Part B*, *119*(38), 12381-12389. <https://doi.org/10.1021/acs.jpcc.5b06457>
- Alanen, J., Isotalo, M., Kuittinen, N., Simonen, P., Martikainen, S., Kuuluvainen, H., ... Rönkkö, T. (2020). Physical Characteristics of Particle Emissions from a Medium Speed Ship Engine Fueled with Natural Gas and Low-Sulfur Liquid Fuels. *Environmental Science and Technology*, *54*(9), 5376-5384. <https://doi.org/10.1021/acs.est.9b06460>
- Pirjola, L., Dittrich, A., Niemi, J. V., Saarikoski, S., Timonen, H., Kuuluvainen, H., ... Hillamo, R. (2016). Physical and Chemical Characterization of Real-World Particle Number and Mass Emissions from City Buses in Finland. *Environmental Science and Technology*, *50*(1), 294-304. <https://doi.org/10.1021/acs.est.5b04105>
- Stumpel, J. E., Liu, D., Broer, D. J., & Schenning, A. P. H. J. (2013). Photoswitchable hydrogel surface topographies by polymerisation-induced diffusion. *Chemistry: A European Journal*, *19*(33), 10922-10927. <https://doi.org/10.1002/chem.201300852>
- Young, D. C., Tasiar, M., Laurent, A. D., Dobrzycki, Ł., Cyrański, M. K., Tkachenko, N., ... Gryko, D. T. (2020). Photostable orange-red fluorescent unsymmetrical diketopyrrolopyrrole-BF<sub>2</sub> hybrids. *Journal of Materials Chemistry C*, *8* (23), 7708-7717. <https://doi.org/10.1039/d0tc01202e>

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>

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

Reeta, P. S., Khetubol, A., Jella, T., Chukharev, V., Abou-Chahine, F., Tkachenko, N. V., ... Lemmetyinen, H. (2015). Photophysical properties of Sn (IV)tetraphenylporphyrin-pyrene dyad with a  $\beta$ -vinyl linker. *Journal of Porphyrins and Phthalocyanines*, 19(1-3), 288-300. <https://doi.org/10.1142/S1088424615500108>

Baek, J., Umeyama, T., Mizuno, S., Tkachenko, N. V., & Imahori, H. (2017). Photophysical properties of porphyrin dimer-single-walled carbon nanotube linked systems. *Journal of Physical Chemistry C*, 121(39). <https://doi.org/10.1021/acs.jpcc.7b08594>

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

Vapaavuori, J., Heikkinen, I. T. S., Dichiarante, V., Resnati, G., Metrangolo, P., Sabat, R. G., ... Pellerin, C. (2015). Photomechanical Energy Transfer to Photopassive Polymers through Hydrogen and Halogen Bonds. *Macromolecules*, 48(20), 7535-7542. <https://doi.org/10.1021/acs.macromol.5b01813>

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

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

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

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

Solovyev, A. I., Mikheyli, A. V., Plyusnin, V. F., Shubin, A. A., Grivin, V. P., Larionov, S. V., ... 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, [111857]. <https://doi.org/10.1016/j.jphotochem.2019.111857>

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>

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

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

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>

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>

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

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

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

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

Ntziachristos, L., Saukko, E., Lehtoranta, K., Rönkkö, T., Timonen, H., Simonen, P., ... Keskinen, J. (2016). Particle emissions characterization from a medium-speed marine diesel engine with two fuels at different sampling conditions. *Fuel*, 186, 456-465. <https://doi.org/10.1016/j.fuel.2016.08.091>

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>

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

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>

Schroeder, C. A., Pluharová, E., Seidel, R., Schroeder, W. P., Faubel, M., Slavíček, P., ... Bradforth, S. E. (2015). Oxidation half-reaction of aqueous nucleosides and nucleotides via photoelectron spectroscopy augmented by ab initio calculations. *Journal of the American Chemical Society*, 137(1), 201-209. <https://doi.org/10.1021/ja508149e>

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

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

Wernersson, E., Heyda, J., Vazdar, M., Lund, M., Mason, P. E., & Jungwirth, P. (2011). Orientational dependence of the affinity of guanidinium ions to the water surface. *Journal of Physical Chemistry Part B*, 115(43), 12521-12526. <https://doi.org/10.1021/jp207499s>

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

Varis, T., Suhonen, T., Calonius, O., Čuban, J., & Pietola, M. (2016). Optimization of HVOF Cr<sub>3</sub>C<sub>2</sub>-NiCr coating for increased fatigue performance. *Surface and Coatings Technology*, *305*, 123-131. <https://doi.org/10.1016/j.surfcoat.2016.08.012>

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

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>

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

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

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>

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>

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>

Virkki, M., Maurice, A., Forni, A., Sironi, M., Dichiarante, V., Brevet, P. F., ... Priimagi, A. (2018). On the molecular optical nonlinearity of halogen-bond-forming azobenzenes. *Physical Chemistry Chemical Physics*, *20*(45), 28810-28817. <https://doi.org/10.1039/c8cp05392h>

Zorzi, G. K., Párraga, J. E., Seijo, B., & Sánchez, A. (2015). On the biomaterials for nanostructured ocular therapeutics. *Current Organic Chemistry*, *19*(15), 1443-1459.

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

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>

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



- 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>
- Levoska, J., Rantala, T. T., & 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)
- Ojha, N., Szczodra, A., Boetti, N. G., Massera, J., & Petit, L. (2020). Nucleation and growth behavior of Er<sup>3+</sup> doped oxyfluorophosphate glasses. *RSC Advances*, *10*(43), 25703-25716. <https://doi.org/10.1039/d0ra04681g>
- Lahti, J., Kuusipalo, J., & Auvinen, S. (2017). Novel equipment to simulate hot air heat sealability of packaging materials. teoksessa *16th TAPPI European PLACE Conference 2017* (Sivut 237-248). TAPPI Press.
- Akimova, A. V., Grin, M. A., Golovina, G. V., Kokrashvili, T. A., Vinogradov, A. M., Mironov, A. F., ... Durandin, N. A. (2014). Novel derivatives of bacteriochlorophyll a: Complex formation with albumin and the mechanism of tumor cell photodamage. *DOKLADY BIOCHEMISTRY AND BIOPHYSICS*, *454*(1), 17-20. <https://doi.org/10.1134/S1607672914010062>
- Lahti, J., Kämpuri, T., & Kuusipalo, J. (2017). Novel bio-based materials for active and intelligent packaging. teoksessa *16th TAPPI European PLACE Conference 2017* TAPPI Press.
- Ghosh, S. K., Cherstvy, A. G., & Metzler, R. (2015). Non-universal tracer diffusion in crowded media of non-inert obstacles. *Physical Chemistry Chemical Physics*, *17*(3), 1847-1858. <https://doi.org/10.1039/c4cp03599b>
- Sankari, A., Stråhlman, C., Sankari, R., Partanen, L., Laksman, J., Kettunen, J. A., ... Sorensen, S. L. (2020). Non-radiative decay and fragmentation in water molecules after 1 a 1-1 4 a 1 excitation and core ionization studied by electron-energy-resolved electron-ion coincidence spectroscopy. *Journal of Chemical Physics*, *152*(7), [074302]. <https://doi.org/10.1063/1.5141414>
- Perumbilavil, S., Sridharan, K., Abraham, A. R., Janardhanan, H. P., Kalarikkal, N., & Philip, R. (2016). Nonlinear transmittance and optical power limiting in magnesium ferrite nanoparticles: effects of laser pulsewidth and particle size. *RSC Advances*, *6*(108), 106754-106761. <https://doi.org/10.1039/c6ra15788b>
- Timr, Š., Brabec, J., Bondar, A., Ryba, T., Železný, M., Lazar, J., & Jungwirth, P. (2015). Nonlinear Optical Properties of Fluorescent Dyes Allow for Accurate Determination of Their Molecular Orientations in Phospholipid Membranes. *Journal of Physical Chemistry Part B*, *119*(30), 9706-9716. <https://doi.org/10.1021/acs.jpccb.5b05123>
- Mubarakali, D., Praveenkumar, R., Shenbagavalli, T., Mari Nivetha, T., Parveez Ahamed, A., Al-Dhabi, N. A., & Thajuddin, N. (2012). New reports on anti-bacterial and anti-candidal activities of fatty acid methyl esters (FAME) obtained from *Scenedesmus bijugatus* var. *bicellularis* biomass. *RSC Advances*, *2*(30), 11552-11556. <https://doi.org/10.1039/c2ra21130k>
- Wikström, M., Sharma, V., Kaila, V. R. I., Hosler, J. P., & Hummer, G. (2015). New perspectives on proton pumping in cellular respiration. *Chemical Reviews*, *115*(5), 2196-2221. <https://doi.org/10.1021/cr500448t>
- Ray, S., Steven, R. T., Green, F. M., Höök, F., Taskinen, B., Hytönen, V. P., & Shard, A. G. (2015). Neutralized chimeric avidin binding at a reference biosensor surface. *Langmuir*, *31*(6), 1921-1930. <https://doi.org/10.1021/la503213f>
- Subramaniam, K., Das, A., Simon, F., & Heinrich, G. (2013). Networking of ionic liquid modified CNTs in SSBR. *European Polymer Journal*, *49*(2), 345-352. <https://doi.org/10.1016/j.eurpolymj.2012.10.023>
- Serak, S. V., Tabiryán, N. V., & Assanto, G. (2012). Nematicons in azobenzene liquid crystals. *Molecular Crystals and Liquid Crystals*, *559*, 202-213. <https://doi.org/10.1080/15421406.2012.658710>

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>

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

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

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

Teisala, H., Tuominen, M., Aromaa, M., Mäkelä, J. M., Stepien, M., Saarinen, J. J., ... Kuusipalo, J. (2011). Nanoparticle deposition on packaging materials by the liquid flame spray. teoksessa *13th European PLACE Conference 2011* (Vuosikerta 1)

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

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>

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

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>

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

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>

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

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

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

Milne, D., Wilson, J. I. B., Rantala, T. T., & 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)

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

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

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

Rembert, K. B., Paterová, J., Heyda, J., Hilty, C., Jungwirth, P., & Cremer, P. S. (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>

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

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

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

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>

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

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

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

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

Palmolahti, L., Ali-Löytty, H., Khan, R., Saari, J., Tkachenko, N. V., & Valden, M. (2020). Modification of Surface States of Hematite-Based Photoanodes by Submonolayer of TiO<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>

- Tevyashova, A. N., Shtil, A. A., Olsufyeva, E. N., Luzikov, Y. N., Reznikova, M. I., Dezhenkova, L. G., ... Preobrazhenskaya, M. N. (2011). Modification of olivomycin A at the side chain of the aglycon yields the derivative with perspective antitumor characteristics. *BIOORGANIC AND MEDICINAL CHEMISTRY*, *19*(24), 7387-7393. <https://doi.org/10.1016/j.bmc.2011.10.055>
- Rajan, R., Rainosalu, E., Thomas, S. P., Ramamoorthy, S. K., Zavašnik, J., Vuorinen, J., & Skrifvars, M. (2018). Modification of epoxy resin by silane-coupling agent to improve tensile properties of viscose fabric composites. *Polymer Bulletin*, *75*(1), 167–195. <https://doi.org/10.1007/s00289-017-2022-2>
- Oliveira, L. M. C., Koivisto, H., Iwakiri, I. G. I., Loureiro, J. M., Ribeiro, A. M., & Nogueira, I. B. R. (2020). Modelling of a pressure swing adsorption unit by deep learning and artificial Intelligence tools. *Chemical Engineering Science*, *224*, [115801]. <https://doi.org/10.1016/j.ces.2020.115801>
- Pluhařová, E., Slaviček, P., & Jungwirth, P. (2015). Modeling photoionization of aqueous DNA and its components. *Accounts of Chemical Research*, *48*(5), 1209-1217. <https://doi.org/10.1021/ar500366z>
- Mäki, A. J., 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>
- Viljanen, J., Sun, Z., & Alwahabi, Z. T. (2016). Microwave assisted laser-induced breakdown spectroscopy at ambient conditions. *Spectrochimica Acta Part B: Atomic Spectroscopy*, *118*, 29-36. <https://doi.org/10.1016/j.sab.2016.02.002>
- Kuzmin, M. G., Soboleva, I. V., Durandin, N. A., Lisitsyna, E. S., & Kuzmin, V. A. (2014). Microphase mechanism of "superquenching" of luminescent probes in aqueous solutions of DNA and some other polyelectrolytes. *Journal of Physical Chemistry Part B*, *118*(15), 4245-4252. <https://doi.org/10.1021/jp500713q>
- Iantovics, L. B., Dehmer, M., & Emmert-Streib, F. (2018). MetrIntSimil-an accurate and robust metric for comparison of similarity in intelligence of any number of cooperative multiagent systems. *Symmetry*, *10*(2), [48]. <https://doi.org/10.3390/sym10020048>
- Ali, I., Suominen, O., Gotchev, A., & Morales, E. R. (2019). Methods for simultaneous robot-world-hand-eye calibration: A comparative study. *Sensors (Switzerland)*, *19*(12), [2837]. <https://doi.org/10.3390/s19122837>
- Mal, J., Nancharaiah, Y. V., Van Hullebusch, E. D., & Lens, P. N. L. (2016). Metal chalcogenide quantum dots: Biotechnological synthesis and applications. *RSC Advances*, *6*(47), 41477-41495. <https://doi.org/10.1039/c6ra08447h>
- Tienaho, J., Karonen, M., Muilu-Mäkelä, R., Wähälä, K., Denegri, E. L., Franzén, R., ... Sarjala, T. (2019). Metabolic profiling of water-soluble compounds from the extracts of dark septate endophytic fungi (DSE) isolated from scots pine (*Pinus sylvestris* L.) seedlings using UPLC-orbitrap-MS. *Molecules*, *24*(12), [2330]. <https://doi.org/10.3390/molecules24122330>
- Guixà-González, R., Albasanz, J. L., Rodríguez-Espigares, I., Pastor, M., Sanz, F., Martí-Solano, M., ... Selent, J. (2017). Membrane cholesterol access into a G-protein-coupled receptor. *Nature Communications*, *8*, [14505]. <https://doi.org/10.1038/ncomms14505>
- Magarkar, A., Parkkila, P., Viitala, T., Lajunen, T., Mobarak, E., Licari, G., ... Bunker, A. (2018). Membrane bound COMT isoform is an interfacial enzyme: General mechanism and new drug design paradigm. *Chemical Communications*, *54*(28), 3440-3443. <https://doi.org/10.1039/c8cc00221e>
- Timr, Š., Pleskot, R., Kadlec, J., Kohagen, M., Magarkar, A., & Jungwirth, P. (2017). Membrane Binding of Recoverin: From Mechanistic Understanding to Biological Functionality. *ACS Central Science*, *3*(8), 868-874. <https://doi.org/10.1021/acscentsci.7b00210>

- Valkealahti, S., & Manninen, M. (1993). Melting of copper clusters. *Computational Materials Science*, 1(2), 123-134. [https://doi.org/10.1016/0927-0256\(93\)90003-6](https://doi.org/10.1016/0927-0256(93)90003-6)
- 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>
- Stirnemann, G., Wernersson, E., Jungwirth, P., & Laage, D. (2013). Mechanisms of acceleration and retardation of water dynamics by ions. *Journal of the American Chemical Society*, 135(32), 11824-11831. <https://doi.org/10.1021/ja405201s>
- Rajan, R., Rainosalu, E., Ramamoorthy, S. K., Thomas, S. P., Zavašnik, J., Vuorinen, J., & Skrifvars, M. (2018). Mechanical, thermal, and burning properties of viscose fabric composites: Influence of epoxy resin modification. *Journal of Applied Polymer Science*, 135(36), [46673]. <https://doi.org/10.1002/app.46673>
- Frankberg, E. J., George, L., Efimov, A., Honkanen, M., Pessi, J., & Levänen, E. (2015). Measuring synthesis yield in graphene oxide synthesis by modified hummers method. *Fullerenes Nanotubes and Carbon Nanostructures*, 23(9), 755-759. <https://doi.org/10.1080/1536383X.2014.993754>
- Isoniemi, T., Tuukkanen, S., Cameron, D. C., Simonen, J., & Toppari, J. J. (2015). Measuring optical anisotropy in poly(3,4-ethylene dioxythiophene): poly(styrene sulfonate) films with added graphene. *Organic Electronics*, 25, 317-323. <https://doi.org/10.1016/j.orgel.2015.06.037>, <https://doi.org/10.1016/j.orgel.2015.06.037>
- 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>
- Lahti, J. (2019). Market implementation of active and intelligent packaging-opportunities from a socio-economic perspective. teoksessa *17th Biennial TAPPI European PLACE Conference 2019* (Sivut 419-427). TAPPI Press.
- Liimatainen, V., Vuckovac, M., Jokinen, V., Sariola, V., Hokkanen, M. J., Zhou, Q., & Ras, R. H. A. (2017). Mapping microscale wetting variations on biological and synthetic water-repellent surfaces. *Nature Communications*, 8(1), [1798]. <https://doi.org/10.1038/s41467-017-01510-7>
- Khan, M., Yang, J., Shi, C., Feng, Y., Zhang, W., Gibney, K., & Tew, G. N. (2015). Manipulation of polycarbonate urethane bulk properties via incorporated zwitterionic polynorborene for tissue engineering application. *RSC Advances*, 5(15), 11284-11292. <https://doi.org/10.1039/C4RA14608E>
- Izdebskaya, Y., Shvedov, V., Assanto, G., & Krolikowski, W. (2017). Magnetic routing of light-induced waveguides. *Nature Communications*, 8, [14452]. <https://doi.org/10.1038/ncomms14452>
- Airiskallio, E., Nurmi, E., Väyrynen, I. J., Kokko, K., Ropo, M., Punkkinen, M. P. J., ... Vitos, L. (2014). Magnetic origin of the chemical balance in alloyed Fe-Cr stainless steels: First-principles and Ising model study. *Computational Materials Science*, 92, 135-140. <https://doi.org/10.1016/j.commatsci.2014.05.036>
- Salmenjoki, H., Alava, M. J., & Laurson, L. (2018). Machine learning plastic deformation of crystals. *Nature Communications*, 9(1), [5307]. <https://doi.org/10.1038/s41467-018-07737-2>
- Närhi, M., Salmela, L., Toivonen, J., Billet, C., Dudley, J. M., & Genty, G. (2018). Machine learning analysis of extreme events in optical fibre modulation instability. *Nature Communications*, 9(1). <https://doi.org/10.1038/s41467-018-07355-y>
- Uusitalo, M. A., Peltonen, J., & Ryhänen, T. (2011). Machine learning: How it can help nanocomputing. *Journal of Computational and Theoretical Nanoscience*, 8(8), 1347-1363. <https://doi.org/10.1166/jctn.2011.1821>

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

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

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

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

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

Smith, J. D., Mitsakou, C., Kitwiroon, N., Barratt, B. M., Walton, H. A., Taylor, J. G., ... Beevers, S. D. (2016). London Hybrid Exposure Model: Improving Human Exposure Estimates to NO<sub>2</sub> and PM<sub>2.5</sub> in an Urban Setting. *Environmental Science and Technology*, *50*(21), 11760-11768. <https://doi.org/10.1021/acs.est.6b01817>

Priimagi, A., Shimamura, A., Kondo, M., Hiraoka, T., Kubo, S., Mamiya, J. I., ... 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>

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

Hakkarainen, T. V., Schramm, A., Mäkelä, J., Laukkanen, P., & Guina, M. (2015). Lithography-free oxide patterns as templates for self-catalyzed growth of highly uniform GaAs nanowires on Si(111). *Nanotechnology*, *26*(27), [275301]. <https://doi.org/10.1088/0957-4484/26/27/275301>

Mäkelä, J. M., Haapanen, J., Harra, J., Juuti, P., & Kujanpää, S. (2017). Liquid flame spray—a hydrogen-oxygen flame based method for nanoparticle synthesis and functional nanocoatings. *KONA POWDER AND PARTICLE JOURNAL*, *2017* (34), 141-154. <https://doi.org/10.14356/kona.2017020>

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

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

Vazdar, M., Vymětal, J., Heyda, J., Vondrášek, J., & Jungwirth, P. (2011). Like-charge guanidinium pairing from molecular dynamics and ab initio calculations. *Journal of Physical Chemistry A*, *115*(41), 11193-11201. <https://doi.org/10.1021/jp203519p>

Koskela, J. E., Liljeström, V., Lim, J., Simanek, E. E., Ras, R. H. A., Priimagi, A., & Kostianen, M. A. (2014). Light-fuelled transport of large dendrimers and proteins. *Journal of the American Chemical Society*, *136*(19), 6850-6853. <https://doi.org/10.1021/ja502623m>

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

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>

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

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

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

Le, H. H., Hoang, X. T., Das, A., Gohs, U., Stoeckelhuber, K. W., Boldt, R., ... Radosch, H. J. (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>

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

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

Hajdu-Rahkama, R., Özkaya, B., Lakaniemi, A. M., & Puhakka, J. A. (2020). Kinetics and modelling of thiosulphate biotransformations by haloalkaliphilic Thioalkalivibrio versutus. *Chemical Engineering Journal*, 401, [126047]. <https://doi.org/10.1016/j.cej.2020.126047>

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

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

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

Pluhařová, E., Jungwirth, P., Bradforth, S. E., & 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>

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>

- De Carvalho, S. J., Metzler, R., & Cherstvy, A. G. (2015). Inverted critical adsorption of polyelectrolytes in confinement. *Soft Matter*, 11(22), 4430-4443. <https://doi.org/10.1039/c5sm00635j>
- Liu, Y., Minofar, B., Desyaterik, Y., Dames, E., Zhu, Z., Cain, J. 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>
- 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>
- Vapaavuori, J., Grosrenaud, J., Pellerin, C., & Bazuin, C. G. (2015). In Situ Photocontrol of Block Copolymer Morphology during Dip-Coating of Thin Films. *ACS Macro Letters*, 4(10), 1158-1162. <https://doi.org/10.1021/acsmacrolett.5b00483>
- Su, W., Cooper, J. R., Cook, B. S., Tentzeris, M. M., Mariotti, C., & Roselli, L. (2015). Inkjet-printed dual microfluidic-based sensor integrated system. teoksessa *2015 IEEE SENSORS - Proceedings* [7370300] Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/ICSENS.2015.7370300>
- Levin, M., Rojas, E., Vanhala, E., Vippola, M., Liguori, B., Kling, K. I., ... Jensen, K. A. (2015). Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials: implications for testing and risk assessment. *Journal of Nanoparticle Research*, 17(8), [337]. <https://doi.org/10.1007/s11051-015-3139-6>
- Varis, T., Suhonen, T., Jokipii, M., & Vuoristo, P. (2020). Influence of powder properties on residual stresses formed in high-pressure liquid fuel HVOF sprayed WC-CoCr coatings. *Surface and Coatings Technology*, 388, [125604]. <https://doi.org/10.1016/j.surfcoat.2020.125604>
- Wang, S., Nawale, G. N., Oommen, O. P., Hilborn, J., & Varghese, O. P. (2019). Influence of ions to modulate hydrazone and oxime reaction kinetics to obtain dynamically cross-linked hyaluronic acid hydrogels. *Polymer Chemistry*, 10(31), 4322-4327. <https://doi.org/10.1039/c9py00862d>
- 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>
- Janka, L., Norpoth, J., Trache, R., & Berger, L. M. (2016). Influence of heat treatment on the abrasive wear resistance of a Cr<sub>3</sub>C<sub>2</sub>-NiCr coating deposited by an ethene-fuelled HVOF spray process. *Surface and Coatings Technology*, 291, 444-451. <https://doi.org/10.1016/j.surfcoat.2016.02.066>
- Hyvönen, M., Ala-Korpela, M., Vaara, J., Rantala, T. T., & 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)
- Will, O. M., Purcz, N., Chalaris, A., Heneweer, C., Boretius, S., Purcz, L., ... Tiwari, S. (2016). Increased survival rate by local release of diclofenac in a murine model of recurrent oral carcinoma. *International Journal of Nanomedicine*, 11, 5311-5321. <https://doi.org/10.2147/IJN.S109199>
- Janka, L., Berger, L. M., Norpoth, J., Trache, R., Thiele, S., Tomastik, C., ... Vuoristo, P. (2018). Improving the high temperature abrasion resistance of thermally sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr coatings by WC addition. *Surface and Coatings Technology*, 337, 296-305. <https://doi.org/10.1016/j.surfcoat.2018.01.035>
- Lahti, J., Johansson, P., Lahtinen, K., Cameron, D. C., & Seppänen, T. (2014). Improving the effect of nanoscale barrier coating on BOPP film properties: Influence of substrate contamination, web handling and pretreatments. teoksessa *TAPPI PLACE Conference 2014* (Vuosikerta 2, Sivut 1039-1061). TAPPI Press.



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

Poikelispää, M., Shakun, A., Das, A., & Vuorinen, J. (2016). Improvement of actuation performance of dielectric elastomers by barium titanate and carbon black fillers. *Journal of Applied Polymer Science*, *133*(42), [44116]. <https://doi.org/10.1002/app.44116>

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

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>

Vuori, L., Ali-Löyty, H., Lahtonen, K., Hannula, M., Lehtonen, E., Niu, Y., & Valden, M. (2017). Improved corrosion properties of Hot Dip Galvanized Steel by nanomolecular silane layers as hybrid interface between zinc and top coatings. *Corrosion*, *73*(2). <https://doi.org/10.5006/2206>

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

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>

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>

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

Jowett, G. M., Norman, M. D. A., Yu, T. T. L., Rosell Arévalo, P., Hoogland, D., Lust, S. T., ... Gentleman, E. (2020). ILC1 drive intestinal epithelial and matrix remodelling. *Nature Materials*. <https://doi.org/10.1038/s41563-020-0783-8>

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

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

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

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

- Szabo, H. M., Lepistö, R., & Tuhkanen, T. (2016). HPLC-SEC: a new approach to characterise complex wastewater effluents. *International Journal of Environmental Analytical Chemistry*, *96*(3), 257-270. <https://doi.org/10.1080/03067319.2016.1150463>
- Passananti, M., Zapadinsky, E., Zanca, T., Kangasluoma, J., Myllys, N., Rissanen, M. P., ... Vehkamäki, H. (2019). How well can we predict cluster fragmentation inside a mass spectrometer? *Chemical Communications*, *55*(42), 5946-5949. <https://doi.org/10.1039/c9cc02896j>
- Yang, Y., Kylänpää, I., Tubman, N. M., Krogel, J. T., Hammes-Schiffer, S., & Ceperley, D. M. (2015). How large are nonadiabatic effects in atomic and diatomic systems? *Journal of Chemical Physics*, *143*(12), [124308]. <https://doi.org/10.1063/1.4931667>
- 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>
- Twum, K., Rautiainen, J. M., Yu, S., Truong, K. N., Feder, J., Rissanen, K., ... Beyeh, N. K. (2020). Host-Guest Interactions of Sodiamsulfonatomethyleneresorcinarene and Quaternary Ammonium Halides: An Experimental-Computational Analysis of the Guest Inclusion Properties. *Crystal Growth and Design*, *20*(4), 2367-2376. <https://doi.org/10.1021/acs.cgd.9b01540>
- Sakai, H., Inaya, R., Tkachenko, N. V., & Hasobe, T. (2018). High-Yield Generation of Triplet Excited States by an Efficient Sequential Photoinduced Process from Energy Transfer to Singlet Fission in Pentacene-Modified CdSe/ZnS Quantum Dots. *Chemistry - A European Journal*, *24*(64), 17062-17071. <https://doi.org/10.1002/chem.201803257>
- Kato, D., Sakai, H., Tkachenko, N. V., & Hasobe, T. (2016). High-Yield Excited Triplet States in Pentacene Self-Assembled Monolayers on Gold Nanoparticles through Singlet Exciton Fission. *Angewandte Chemie (International Edition)*, *55*(17), 5230-5234. <https://doi.org/10.1002/anie.201601421>
- Varis, T., Bankiewicz, D., Yrjas, P., Oksa, M., Suhonen, T., Tuurna, S., ... Holmström, S. (2015). High temperature corrosion of thermally sprayed NiCr and FeCr coatings covered with a KCl-K<sub>2</sub>SO<sub>4</sub> salt mixture. *Surface and Coatings Technology*, *265*, 235-243. <https://doi.org/10.1016/j.surfcoat.2014.11.012>
- 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>
- Larnimaa, S., Halonen, L., Karhu, J., Tomberg, T., Metsälä, M., Genoud, G., ... Vainio, M. (2020). High-resolution analysis of the  $\nu_3$  band of radiocarbon methane <sup>14</sup>CH<sub>4</sub>. *Chemical Physics Letters*, *750*, [137488]. <https://doi.org/10.1016/j.cplett.2020.137488>
- Rasappa, S., Caridad, J. M., Schulte, L., Cagliani, A., Borah, D., Morris, M. A., ... Ndoni, S. (2015). High quality sub-10 nm graphene nanoribbons by on-chip PS-b-PDMS block copolymer lithography. *RSC Advances*, *5*(82), 66711-66717. <https://doi.org/10.1039/c5ra11735f>
- Saad-Bin-Alam, M., Reshef, O., Huttunen, M. J., Carlow, G., Sullivan, B., Menard, J. M., ... Boyd, R. W. (2019). High-Q resonance train in a plasmonic metasurface. teoksessa *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings IEEE*. <https://doi.org/10.23919/CLEO.2019.8750206>
- Uusheimo, S., Huotari, J., Tulonen, T., Aalto, S. L., Rissanen, A. J., & Arvola, L. (2018). High Nitrogen Removal in a Constructed Wetland Receiving Treated Wastewater in a Cold Climate. *Environmental science & technology*, *52*(22), 13343-13350. <https://doi.org/10.1021/acs.est.8b03032>

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

Roop, S., Das, A., Stöckelhuber, K. W., 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>

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>

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

Higashino, T., Nakatsuji, H., Fukuda, R., Okamoto, H., Imai, H., Matsuda, 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>

Tofanello, A., Freitas, A. L. M., Carvalho, W. M., Salminen, T., Niemi, T., & Souza, F. L. (2020). Hematite Surface Modification toward Efficient Sunlight-Driven Water Splitting Activity: The Role of Gold Nanoparticle Addition. *Journal of Physical Chemistry C*. <https://doi.org/10.1021/acs.jpcc.9b11966>

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

Priimagi, A., Cavallo, G., Forni, A., Gorynsztejn-Leben, M., Kaivola, M., Metrangolo, P., ... 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>

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

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>

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

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

Ali-Löytty, H., Hannula, M., Honkanen, M., Östman, K., Lahtonen, K., & Valden, M. (2016). Grain orientation dependent Nb-Ti microalloying mediated surface segregation on ferritic stainless steel. *Corrosion Science*, 112, 204-213. <https://doi.org/10.1016/j.corsci.2016.07.024>

Nandre, K. P., Salunke, J. K., Nandre, J. P., Patil, V. S., Borse, A. U., & Bhosale, S. V. (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>

Rokade, S. S., Joshi, K. A., Mahajan, K., Patil, S., Tomar, G., Dubal, D. S., ... Ghosh, S. (2018). Gloriosa superba Mediated Synthesis of Platinum and Palladium Nanoparticles for Induction of Apoptosis in Breast Cancer. *Bioinorganic Chemistry and Applications*, 2018, [4924186]. <https://doi.org/10.1155/2018/4924186>

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

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>

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>

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

Uhlig, F., Marsalek, O., & Jungwirth, P. (2011). From a localized H<sub>3</sub>O radical to a delocalized H<sub>3</sub>O<sup>+</sup>·e<sup>-</sup> solvent-separated pair by sequential hydration. *Physical Chemistry Chemical Physics*, 13(31), 14003-14009. <https://doi.org/10.1039/c1cp20764d>

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>

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>

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>

Le, H. H., Pham, T., Henning, S., Klehm, J., Wießner, S., Stöckelhuber, K. W., ... Radosch, H. J. (2015). Formation and stability of carbon nanotube network in natural rubber: Effect of non-rubber components. *Polymer*, 73, 111-121. [18004]. <https://doi.org/10.1016/j.polymer.2015.07.044>

Vuorimaa-Laukkanen, E., Lisitsyna, E. S., Ketola, T-M., Morin-Pickardat, E., Liang, H., Hanzlikova, M., ... Laaksonen, T. (2017). *Fluorescence spectroscopy "knife" for polyplex "cakes": taste the filling*. *Julkaisun esittämispaiikka: 30 Years of Drug Delivery Research, Kuopio, Suomi*.

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

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>

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

- Abada, A., Abbrescia, M., AbdusSalam, S. S., Abdulkhanov, I., Abelleira Fernandez, J., Abramov, A., ... Stenvall, A. (2019). FCC-hh: The Hadron Collider: Future Circular Collider Conceptual Design Report Volume 3. *European Physical Journal: Special Topics*, 228(4), 755-1107. <https://doi.org/10.1140/epjst/e2019-900087-0>
- Eklund, A., Zhang, H., Zeng, H., Priimägi, A., & Ikkala, O. (2020). Fast Switching of Bright Whiteness in Channeled Hydrogel Networks. *Advanced Functional Materials*, [2000754]. <https://doi.org/10.1002/adfm.202000754>
- Khan, M. N., & Zharnikov, M. (2014). Fabrication of ssDNA/oligo(ethylene glycol) monolayers by promoted exchange reaction with thiol and disulfide substituents. *Journal of Physical Chemistry C*, 118(6), 3093-3101. <https://doi.org/10.1021/jp411353f>
- Khan, M. N., & Zharnikov, M. (2013). Fabrication of ssDNA/Oligo(ethylene glycol) monolayers and patterns by exchange reaction promoted by ultraviolet light irradiation. *Journal of Physical Chemistry C*, 117(47), 24883-24893. <https://doi.org/10.1021/jp408819k>
- Khan, M. N., 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>
- Rasappa, S., Borah, D., Faulkner, C. C., Lutz, T., Shaw, M. T., Holmes, J. D., & Morris, M. A. (2013). Fabrication of a sub-10 nm silicon nanowire based ethanol sensor using block copolymer lithography. *Nanotechnology*, 24(6), [065503]. <https://doi.org/10.1088/0957-4484/24/6/065503>
- Rasappa, S., Borah, D., Senthamaraiannan, R., Faulkner, C. C., Holmes, J. D., & Morris, M. A. (2014). Fabrication of 3-D nanodimensioned electric double layer capacitor structures using block copolymer templates. *Journal Nanoscience and Nanotechnology*, 14(7), 5221-5227. <https://doi.org/10.1166/jnn.2014.8668>
- Eshwaran, S. B., Basu, D., Vaikuntam, S. R., Kutlu, B., Wiessner, S., Das, A., ... Heinrich, G. (2015). Exploring the role of stearic acid in modified zinc aluminum layered double hydroxides and their acrylonitrile butadiene rubber nanocomposites. *Journal of Applied Polymer Science*, 132(9), [41539]. <https://doi.org/10.1002/app.41539>
- Bączkiewicz, J., Malaska, M., Pajunen, S., Alanen, M., & Heinisuo, M. (2020). Experimental study on axially loaded square hollow section T-joints under fire conditions. *FIRE SAFETY JOURNAL*, 114, [102993]. <https://doi.org/10.1016/j.firesaf.2020.102993>
- Garifullin, M. (2018). Experimental moment resistance of rectangular hollow section T joints. *MATEC Web of Conferences*, 245, [08003]. <https://doi.org/10.1051/mateconf/201824508003>
- Kaski, J., Lantto, P., Rantala, T. T., 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>
- Pirjola, L., Rönkkö, T., Saukko, E., Parviainen, H., Malinen, A., Alanen, J., & Saveljeff, H. (2017). Exhaust emissions of non-road mobile machine: Real-world and laboratory studies with diesel and HVO fuels. *Fuel*, 202, 154-164. <https://doi.org/10.1016/j.fuel.2017.04.029>
- Umeyama, T., Hanaoka, T., Yamada, H., Namura, Y., Mizuno, S., Ohara, T., ... Imahori, H. (2019). Exclusive occurrence of photoinduced energy transfer and switching of its direction by rectangular  $\pi$ -extension of nanographenes. *Chemical Science*, 10(27), 6642-6650. <https://doi.org/10.1039/c9sc01538h>
- Stradomska, A., Kulig, W., Slawik, M., & Petelenz, P. (2012). Excited-state polarizability in crystalline sexithiophene: Charge-transfer and vibronic effects. *Chemical Physics Letters*, 529, 27-30. <https://doi.org/10.1016/j.cplett.2012.01.038>

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

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

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>

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

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

Hilka, 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>

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

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

Giammarco, J. M., Zdyrko, B., Hu, J., Agarwal, A., Kimerling, L., Carlie, N., ... Luzinov, I. (2011). Enrichment polymer layers for detection of volatile vapors by ATR FT-IR. *ACS National Meeting Book of Abstracts*.

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

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>

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>

Kuzmin, V. A., Durandin, N. A., Lisitsyna, E. S., Litvinkova, L. V., Nekipelova, T. D., Podrugina, T. A., ... Zefirov, N. S. (2015). Energy degradation in photoexcited complexes of indocarbocyanine with albumin. *HIGH ENERGY CHEMISTRY*, *49*(3), 211-212. <https://doi.org/10.1134/S0018143915030108>

Takahashi, H., Maruyama, K., Karino, Y., Morita, A., Nakano, M., Jungwirth, P., & Matubayasi, N. (2011). Energetic origin of proton affinity to the air/water interface. *Journal of Physical Chemistry Part B*, *115*(16), 4745-4751. <https://doi.org/10.1021/jp2015676>

- Beyeh, N. K., Pan, F., Valkonen, A., & Rissanen, K. (2015). Encapsulation of secondary and tertiary ammonium salts by resorcinarenes and pyrogallarenes: The effect of size and charge concentration. *CrystEngComm*, 17(5), 1182-1188. <https://doi.org/10.1039/c4ce01927j>
- Uhlig, F., & Jungwirth, P. (2013). Embedded cluster models for reactivity of the hydrated electron. *ZEITSCHRIFT FÜR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY AND CHEMICAL PHYSICS*, 227(11), 1583-1593. <https://doi.org/10.1524/zpch.2013.0402>
- Mah, P. T., Novakovic, D., Saarinen, J., van Landeghem, S., Peltonen, L., Laaksonen, T., ... Strachan, C. J. (2017). Elucidation of Compression-Induced Surface Crystallization in Amorphous Tablets Using Sum Frequency Generation (SFG) Microscopy. *Pharmaceutical Research*, 34(5), 957-970. <https://doi.org/10.1007/s11095-016-2046-6>
- 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>
- Ma, L., Atta-Fynn, R., & Ray, A. K. (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>
- Lepcha, A., Maccato, C., Mettenböcker, A., Andreu, T., Mayrhofer, L., Walter, M., ... Mathur, S. (2015). Electrospun Black Titania Nanofibers: Influence of Hydrogen Plasma-Induced Disorder on the Electronic Structure and Photoelectrochemical Performance. *Journal of Physical Chemistry C*, 119(33), 18835-18842. <https://doi.org/10.1021/acs.jpcc.5b02767>
- Suominen, M., Lehtimäki, S., Yewale, R., Damlin, P., Tuukkanen, S., & Kvarnström, C. (2017). Electropolymerized polyazulene as active material in flexible supercapacitors. *Journal of Power Sources*, 356, 181-190. <https://doi.org/10.1016/j.jpowsour.2017.04.082>
- Honkanen, M., Hansen, T. W., Jiang, H., Kärkkäinen, M., Huuhtanen, M., Heikkinen, O., ... Vippola, M. (2017). Electron microscopic studies of natural gas oxidation catalyst – Effects of thermally accelerated aging on catalyst microstructure. *Journal of Catalysis*, 349, 19-29. <https://doi.org/10.1016/j.jcat.2017.03.003>
- Rantala, T. T., Jelski, D. A., & George, T. F. (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>
- Mohanty, A. K., Ghosh, A., Sawai, P., Pareek, K., Banerjee, S., Das, A., ... Voit, B. (2014). Electromagnetic interference shielding effectiveness of MWCNT filled poly(ether sulfone) and poly(ether imide) nanocomposites. *Polymer Engineering and Science*, 54(11), 2560-2570. <https://doi.org/10.1002/pen.23804>
- 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>
- Çetinkaya, A. Y., Köroğlu, E. O., Demir, N. M., Baysoy, D. Y., Özkaya, B., & Çakmakçı, M. (2015). Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration. *Chinese Journal of Catalysis*, 36(7), 1068-1076. [https://doi.org/10.1016/S1872-2067\(15\)60833-6](https://doi.org/10.1016/S1872-2067(15)60833-6)
- Vapaavuori, J., Valtavirta, V., Alasaarela, T., Mamiya, J. I., Priimagi, A., Shishido, A., & Kaivola, M. (2011). Efficient surface structuring and photoalignment of supramolecular polymer-azobenzene complexes through rational chromophore design. *Journal of Materials Chemistry*, 21(39), 15437-15441. <https://doi.org/10.1039/c1jm12642c>
- Dantelle, G., Slablab, A., Rondin, L., Lainé, F., Carrel, F., Bergonzo, P., ... Roch, J. F. (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>

Durandin, N. A., Isokuortti, J., Efimov, A., Vuorimaa-Laukkanen, E., Tkachenko, N. V., & Laaksonen, T. (2018). Efficient photon upconversion at remarkably low annihilator concentrations in a liquid polymer matrix: when less is more. *Chemical Communications*, 54(99), 14029-14032. <https://doi.org/10.1039/c8cc07592a>

Moormann, W., Tellkamp, T., Stadler, E., Röhricht, F., Näther, C., Puttreddy, R., ... Herges, R. (2020). Efficient Conversion of Light to Chemical Energy: Directional, Chiral Photoswitches with Very High Quantum Yields. *Angewandte Chemie - International Edition*, 59(35), 15081-15086. <https://doi.org/10.1002/anie.202005361>

Hyvönen, M., Ala-Korpela, M., Vaara, J., Rantala, T. T., & 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)

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

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>

Golovanov, V. V., Nazarchuk, B. V., Golovanova, V. V., Tkachenko, N. V., & Rantala, T. T. (2017). Effects of orientation at the phthalocyanine-CdSe interface on the electron transfer characteristics. *Physical Chemistry Chemical Physics*, 19(16), 10511-10517. <https://doi.org/10.1039/c7cp00833c>

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

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

Chakraborty, S., Rene, E. R., Lens, P. N. L., Rintala, J., Veiga, M. C., & Kennes, C. (2020). Effect of tungsten and selenium on C<sub>4</sub> gas bioconversion by an enriched anaerobic sludge and microbial community analysis. *Chemosphere*, 250, [126105]. <https://doi.org/10.1016/j.chemosphere.2020.126105>

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

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

Milanti, A., Matikainen, V., Koivuluoto, H., Bolelli, G., Lusvardi, 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>

Kapgate, B. P., 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>

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



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

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>

Vähä-Nissi, M., Hirvikorpi, T., Sievänen, J., Salo, E., Harlin, A., Johansson, P., & Kuusipalo, J. (2011). Effect of pre-treatments on barrier properties of layers applied by atomic layer deposition onto polymer-coated substrates. teoksessa *13th European PLACE Conference 2011* (Vuosikerta 1, Sivut 447)

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

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

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

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)

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>

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

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

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

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

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

Suokas, E. (2017). Effect of air gap on the adhesion of PET layer on cardboard substrate in extrusion coating. teoksessa *16th TAPPI European PLACE Conference 2017* (Sivut 529-544). TAPPI Press.

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

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>

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>

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>

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>

Rantala, T., Väyrynen, J., Kumpulainen, 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)

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

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>

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>

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

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

Auer, S., Nirschl, M., Schreiter, M., & Vikhholm-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>

Li, Y., Tao, S. C., Bova, G. S., Liu, A. Y., Chan, D. W., 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>

D'Urso, L., Condorelli, M., Puglisi, O., Tempra, C., Lolicato, F., Compagnini, G., & La Rosa, C. (2018). Detection and characterization at nM concentration of oligomers formed by hIAPP, A $\beta$ (1-40) and their equimolar mixture using SERS and MD simulations. *Physical Chemistry Chemical Physics*, 20(31), 20588-20596. <https://doi.org/10.1039/c7cp08552d>

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>

Kordmahaleh, A. A., Naghashzadegan, M., Javaherdeh, K., & Khoshgoftar, M. (2017). Design of a 25 MWe Solar Thermal Power Plant in Iran with Using Parabolic Trough Collectors and a Two-Tank Molten Salt Storage System. *International Journal of Photoenergy*, 2017, [4210184]. <https://doi.org/10.1155/2017/4210184>

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

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

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

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

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>

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

Linko, V., Leppiniemi, J., Paasonen, S. T., Hytönen, V. P., & Jussi Toppari, J. (2011). Defined-size DNA triple crossover construct for molecular electronics: Modification, positioning and conductance properties. *Nanotechnology*, 22(27), [275610]. <https://doi.org/10.1088/0957-4484/22/27/275610>

Ojha, N., Nguyen, H., Laihin, T., Salminen, T., Lastusaari, M., & Petit, L. (2018). Decomposition of persistent luminescent microparticles in corrosive phosphate glass melt. *Corrosion Science*, 135, 207-214. <https://doi.org/10.1016/j.corsci.2018.02.050>

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

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>

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

Fabert, M., Ojha, N., Erasmus, E., Hannula, M., Hokka, M., Hyttinen, J., ... Massera, J. (2017). Crystallization and sintering of borosilicate bioactive glasses for application in tissue engineering. *Journal of Materials Chemistry B*, 5(23), 4514-4525. <https://doi.org/10.1039/c7tb00106a>

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

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

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>

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>

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>

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

Väisänen, A., Suontamo, R., & Rintala, J. (2002). Control of matrix interferences by the multiple linear regression model in the determination of arsenic, antimony and tin in lead pellets by inductively coupled plasma atomic emission spectrometry. *Journal of Analytical Atomic Spectrometry*, 17(3), 274-276. <https://doi.org/10.1039/b108543n>