

- Pilehrood, M. K., Atashi, A., Sadeghi-Aliabadi, H., Nousiainen, P., & Harlin, A. (2016). 3D micro-nano structured hybrid scaffolds: An investigation into the role of nanofiber coating on viability, proliferation and differentiation of seeded mesenchymal stem cells. *Journal Nanoscience and Nanotechnology*, *16*(9), 9000-9007. <https://doi.org/10.1166/jnn.2016.12740>
- Wani, O. M., Schenning, A. P. H. J., & Priimagi, A. (2020). A bifacial colour-tunable system via combination of a cholesteric liquid crystal network and hydrogel. *Journal of Materials Chemistry C*, *8*(30), 10191-10196. <https://doi.org/10.1039/d0tc02189j>
- Tienaho, J., Poikulainen, E., Sarjala, T., Muilu-Mäkelä, R., Santala, V., & Karp, M. (2018). A Bioscreening Technique for Ultraviolet Irradiation Protective Natural Substances. *Photochemistry and Photobiology*, *94*(6), 1273-1280. <https://doi.org/10.1111/php.12954>
- Melcr, J., Martinez-Seara, H., Nencini, R., Kolafa, J., Jungwirth, P., & Ollila, O. H. S. (2018). Accurate Binding of Sodium and Calcium to a POPC Bilayer by Effective Inclusion of Electronic Polarization. *Journal of Physical Chemistry B*, *122*(16), 4546-4557. <https://doi.org/10.1021/acs.jpcc.7b12510>
- Mason, P. E., Wernersson, E., & Jungwirth, P. (2012). Accurate description of aqueous carbonate ions: An effective polarization model verified by neutron scattering. *Journal of Physical Chemistry Part B*, *116*(28), 8145-8153. <https://doi.org/10.1021/jp3008267>
- Kohagen, M., Mason, P. E., & Jungwirth, P. (2014). Accurate description of calcium solvation in concentrated aqueous solutions. *Journal of Physical Chemistry Part B*, *118*(28), 7902-7909. <https://doi.org/10.1021/jp5005693>
- Zhou, K., Dichlberger, A., Martinez-Seara, H., Nyholm, T. K. M., Li, S., Kim, Y. A., ... Blom, T. (2018). A Ceramide-Regulated Element in the Late Endosomal Protein LAPT4B Controls Amino Acid Transporter Interaction. *ACS Central Science*, *4*(5), 548-558. <https://doi.org/10.1021/acscentsci.7b00582>
- Rantala, T. S., Lantto, V., & Rantala, T. T. (1994). A cluster approach for the SnO<sub>2</sub> (110) face. *Sensors and Actuators B: Chemical*, *19*(1-3), 716-719. [https://doi.org/10.1016/0925-4005\(93\)01220-X](https://doi.org/10.1016/0925-4005(93)01220-X)
- Kulig, W., & Agmon, N. (2013). A 'clusters-in-liquid' method for calculating infrared spectra identifies the proton-transfer mode in acidic aqueous solutions. *Nature Chemistry*, *5*(1), 29-35. <https://doi.org/10.1038/nchem.1503>
- Nieminen, V., Karjalainen, M., Salminen, K., Rantala, J., Kontunen, A., Isokoski, P., ... Leikkala, J. (2018). A compact olfactometer for IMS measurements and testing human perception. *International Journal for Ion Mobility Spectrometry*, *21*(3), 71-80. <https://doi.org/10.1007/s12127-018-0235-1>
- Mettänen, M., & Hirn, U. (2015). A comparison of five optical surface topography measurement methods. *TAPPI Journal*, *14*(1), 27-38.
- Mylläri, V., Ruoko, T-P., & Syrjälä, S. (2015). A comparison of rheology and FTIR in the study of polypropylene and polystyrene photodegradation. *Journal of Applied Polymer Science*, *132*(28), [42246]. <https://doi.org/10.1002/app.42246>
- Holmstedt, S., & Candeias, N. R. (2020). A concise synthesis of carbasugars isolated from *Streptomyces lincolnensis*. *Tetrahedron*, [131346]. <https://doi.org/10.1016/j.tet.2020.131346>
- Pirhonen, M., Peltokangas, M., & Vehkaoja, A. (2018). Acquiring respiration rate from photoplethysmographic signal by recursive bayesian tracking of intrinsic modes in time-frequency spectra. *Sensors*, *18*(6), [1693]. <https://doi.org/10.3390/s18061693>
- Arvani, M., Keskinen, J., Railanmaa, A., Siljander, S., Björkqvist, T., Tuukkanen, S., & Lupo, D. (2020). Additive manufacturing of monolithic supercapacitors with biopolymer separator. *Journal of Applied Electrochemistry*, *50*(6), 689-697. <https://doi.org/10.1007/s10800-020-01423-2>

Doddapaneni, T. R. K. C., Jain, R., Praveenkumar, R., Rintala, J., Romar, H., & Konttinen, J. (2018). Adsorption of furfural from torrefaction condensate using torrefied biomass. *Chemical Engineering Journal*, *334*, 558-568. <https://doi.org/10.1016/j.cej.2017.10.053>

McManamon, C., O'Connell, J., Delaney, P., Rasappa, S., Holmes, J. D., & Morris, M. A. (2015). A facile route to synthesis of S-doped TiO<sub>2</sub> nanoparticles for photocatalytic activity. *Journal of Molecular Catalysis A: Chemical*, *406*, 51-57. <https://doi.org/10.1016/j.molcata.2015.05.002>

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

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

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

Wang, J., & Ray, A. K. (2014). A full-potential linearized augmented plane wave study of the interaction of CO<sub>2</sub> with  $\alpha$ -Pu (020) surface nanolayers. *Journal of Computational and Theoretical Nanoscience*, *11*(7), 1710-1717. <https://doi.org/10.1166/jctn.2014.3555>

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

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

Ali-Löyty, H., Louie, M. W., Singh, M. R., Li, L., Sanchez Casalongue, H. G., Ogasawara, H., ... Friebel, D. (2016). Ambient-Pressure XPS Study of a Ni-Fe Electrocatalyst for the Oxygen Evolution Reaction. *Journal of Physical Chemistry C*, *120*(4), 2247-2253. <https://doi.org/10.1021/acs.jpcc.5b10931>

Enkavi, G., Li, J., Wen, P., Thangapandian, S., Moradi, M., Jiang, T., ... Tajkhorshid, E. (2014). A microscopic view of the mechanisms of active transport across the cellular membrane. *Annual Reports in Computational Chemistry*, *10*, 77-125. <https://doi.org/10.1016/B978-0-444-63378-1.00004-5>

Rimpiläinen, T., Andrade, J., Nunes, A., Ntungwe, E., Fernandes, A. S., Vale, J. R., ... Candeias, N. R. (2018). Aminobenzylated 4-Nitrophenols as Antibacterial Agents Obtained from 5-Nitrosalicylaldehyde through a Pétasis Borono-Mannich Reaction. *ACS Omega*, *3*(11), 16191-16202. <https://doi.org/10.1021/acsomega.8b02381>

Pelkonen, A., Mzezewa, R., Sukki, L., Ryyänen, T., Kreutzer, J., Hyvärinen, T., ... Narkilahti, S. (2020). A modular brain-on-a-chip for modelling epileptic seizures with functionally connected human neuronal networks. *Biosensors and Bioelectronics*, *168*, [112553]. <https://doi.org/10.1016/j.bios.2020.112553>

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

Häkkinen, M. R., Roine, A., Auriola, S., Tuokko, A., Veskimäe, E., Keinänen, T. A., ... Vepsäläinen, J. (2013). Analysis of free, mono- and diacetylated polyamines from human urine by LC-MS/MS. *JOURNAL OF CHROMATOGRAPHY B: ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES*, *941*, 81-89.

<https://doi.org/10.1016/j.jchromb.2013.10.009>

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

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

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

Gilardi, G., Asquini, R., D'Alessandro, A., & Assanto, G. (2011). An electro-optically tunable Bragg reflector based on liquid crystals. *Molecular Crystals and Liquid Crystals*, *549*, 62-68. <https://doi.org/10.1080/15421406.2011.581137>

Väyrynen, J., Rantala, T. T., Minni, E., & Suoninen, E. (1983). Anomalous Auger-electron spectra of metallic calcium. *Journal of Electron Spectroscopy and Related Phenomena*, *31*(3), 293-305. [https://doi.org/10.1016/0368-2048\(83\)85077-4](https://doi.org/10.1016/0368-2048(83)85077-4)

Das, A., George, J. J., Kutlu, B., Leuteritz, A., Wang, D. Y., Rooj, S., ... Heinrich, G. (2012). A novel thermotropic elastomer based on highly-filled LDH-SSB composites. *Macromolecular Rapid Communications*, *33*(4), 337-342. <https://doi.org/10.1002/marc.201100735>

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

Wang, H., Feng, Y., Zhao, H., Fang, Z., Khan, M., & Guo, J. (2013). A potential nonthrombogenic small-diameter vascular scaffold with polyurethane/poly(ethylene glycol) hybrid materials by electrospinning technique. *Journal Nanoscience and Nanotechnology*, *13*(2), 1578-1582. <https://doi.org/10.1166/jnn.2013.6051>

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

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

Kovács, P. T., Zare, A., Balogh, T., Bregovic, R., & Gotchev, A. (2017). Architectures and codecs for real-time light field streaming. *Journal of Imaging Science and Technology*, *61*(1), [010403]. <https://doi.org/10.2352/J.ImagingSci.Technol.2017.61.1.010403>

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

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

Santos, F. M. F., Rosa, J. N., Candeias, N. R., Carvalho, C. P., Matos, A. I., Ventura, A. E., ... Gois, P. M. P. (2016). A Three-Component Assembly Promoted by Boronic Acids Delivers a Modular Fluorophore Platform (BASHY Dyes). *Chemistry: A European Journal*, *22*(5), 1631-1637. <https://doi.org/10.1002/chem.201503943>

- Moradi, M., Enkavi, G., & Tajkhorshid, E. (2015). Atomic-level characterization of transport cycle thermodynamics in the glycerol-3-phosphate: Phosphate antiporter. *Nature Communications*, 6, [8393]. <https://doi.org/10.1038/ncomms9393>
- Mahimwalla, Z., Yager, K. G., Mamiya, J. I., Shishido, A., Priimagi, A., & Barrett, C. J. (2012). Azobenzene photomechanics: Prospects and potential applications. *Polymer Bulletin*, 69(8), 967-1006. <https://doi.org/10.1007/s00289-012-0792-0>
- Priimagi, A., & Shevchenko, A. (2014). Azopolymer-based micro- and nanopatterning for photonic applications. *Journal of Polymer Science. Part B, Polymer Physics*, 52(3), 163-182. <https://doi.org/10.1002/polb.23390>
- Molnar, W., Nugent, S., Lindroos, M., Apostol, M., & Varga, M. (2015). Ballistic and numerical simulation of impacting goods on conveyor belt rubber. *Polymer Testing*, 42, 1-7. <https://doi.org/10.1016/j.polymertesting.2014.12.001>
- Pakarinen, O., Lehtomäki, A., & Rintala, J. (2008). Batch dark fermentative hydrogen production from grass silage: The effect of inoculum, pH, temperature and VS ratio. *International Journal of Hydrogen Energy*, 33(2), 594-601. <https://doi.org/10.1016/j.ijhydene.2007.10.008>
- Schraik, D., Varvia, P., Korhonen, L., & Rautiainen, M. (2019). Bayesian inversion of a forest reflectance model using Sentinel-2 and Landsat 8 satellite images. *JOURNAL OF QUANTITATIVE SPECTROSCOPY AND RADIATIVE TRANSFER*, 233, 1-12. <https://doi.org/10.1016/j.jqsrt.2019.05.013>
- Perumbilavil, S., Piccardi, A., Barboza, R., Buchnev, O., Kauranen, M., Strangi, G., & Assanto, G. (2018). Beaming random lasers with soliton control. *Nature Communications*, 9(1), [3863]. <https://doi.org/10.1038/s41467-018-06170-9>
- Vazdar, M., Jurkiewicz, P., Hof, M., Jungwirth, P., & Cwiklik, L. (2012). Behavior of 4-hydroxynonenal in phospholipid membranes. *Journal of Physical Chemistry Part B*, 116(22), 6411-6415. <https://doi.org/10.1021/jp3044219>
- Poojari, C., Wilkosz, N., Lira, R. B., Dimova, R., Jurkiewicz, P., Petka, R., ... Róg, T. (2019). Behavior of the DPH fluorescence probe in membranes perturbed by drugs. *Chemistry and Physics of Lipids*, 223, [104784]. <https://doi.org/10.1016/j.chemphyslip.2019.104784>
- Jagoda-Cwiklik, B., Cwiklik, L., & Jungwirth, P. (2011). Behavior of the eigen form of hydronium at the air/water interface. *Journal of Physical Chemistry A*, 115(23), 5881-5886. <https://doi.org/10.1021/jp110078s>
- Miller, A. E., Petersen, P. B., Hollars, C. W., Saykally, R. J., Heyda, J., & Jungwirth, P. (2011). Behavior of  $\beta$ -amyloid 1-16 at the air-water interface at varying pH by nonlinear spectroscopy and molecular dynamics simulations. *Journal of Physical Chemistry A*, 115(23), 5873-5880. <https://doi.org/10.1021/jp110103j>
- Siiskonen, A., & Priimagi, A. (2017). Benchmarking DFT methods with small basis sets for the calculation of halogen-bond strengths. *Journal of Molecular Modeling*, 23(2), [50]. <https://doi.org/10.1007/s00894-017-3212-4>
- Ferreira, S. A., Motwani, M. S., Faull, P. A., Seymour, A. J., Yu, T. T. L., Enayati, M., ... Gentleman, E. (2018). Bi-directional cell-pericellular matrix interactions direct stem cell fate. *Nature Communications*, 9(1), [4049]. <https://doi.org/10.1038/s41467-018-06183-4>
- Lai, K. M., Nasir, Z. A., & Taylor, J. (2014). Bioaerosols and Hospital Infections. teoksessa *Aerosol Science: Technology and Applications* (Vuosikerta 9781119977926, Sivut 271-289). Wiley-Blackwell. <https://doi.org/10.1002/97811118682555.ch11>
- Kekonen, A., Bergelin, M., Johansson, M., Kumar Joon, N., Bobacka, J., & Viik, J. (2019). Bioimpedance Sensor Array for Long-Term Monitoring of Wound Healing from Beneath the Primary Dressings and Controlled Formation of H<sub>2</sub>O<sub>2</sub> Using Low-Intensity Direct Current. *Sensors*, 19(11). <https://doi.org/10.3390/s19112505>

Tan, L. C., Nancharaiah, Y. V., Lu, S., van Hullebusch, E. D., Gerlach, R., & Lens, P. N. L. (2018). Biological treatment of selenium-laden wastewater containing nitrate and sulfate in an upflow anaerobic sludge bed reactor at pH 5.0. *Chemosphere*, *211*, 684-693. <https://doi.org/10.1016/j.chemosphere.2018.07.079>

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

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

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

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

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

Taimoory, S. M., Twum, K., Dashti, M., Pan, F., Lahtinen, M., Rissanen, K., ... Beyeh, N. K. (2020). Bringing a Molecular Plus One: Synergistic Binding Creates Guest-Mediated Three-Component Complexes. *Journal of Organic Chemistry*, *85*(9), 5884-5894. <https://doi.org/10.1021/acs.joc.0c00220>

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

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

Lesot, P., Merlet, D., Courtieu, J., Emsley, J. W., Rantala, T. T., & Jokisaari, J. (1997). Calculation of the molecular ordering parameters of (±)-3-butyn-2-ol dissolved in an organic solution of poly(γ-benzyl-L-glutamate). *Journal of Physical Chemistry A*, *101*(31), 5719-5724. <https://doi.org/10.1021/jp9709262>

Sippola, R. J., Hadipour, A., Kastinen, T., Vivo, P., Hukka, T. I., Aernouts, T., & Heiskanen, J. P. (2017). Carbazole-based small molecule electron donors: Syntheses, characterization, and material properties. *Dyes and Pigments*, *150*, 79-88. [j.dyepig.2017.11.014]. <https://doi.org/10.1016/j.dyepig.2017.11.014>

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

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

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

- Štěpánková, V., Paterová, J., Damborský, J., Jungwirth, P., Chaloupková, R., & Heyda, J. (2013). Cation-specific effects on enzymatic catalysis driven by interactions at the tunnel mouth. *Journal of Physical Chemistry Part B*, 117(21), 6394-6402. <https://doi.org/10.1021/jp401506v>
- Gerlofs-Nijland, M. E., Totlandsdal, A. I., Tzankiozis, T., Leseman, D. L. A. C., Samaras, Z., Låg, M., ... Cassee, F. R. (2013). Cell toxicity and oxidative potential of engine exhaust particles: Impact of using particulate filter or biodiesel fuel blend. *Environmental Science and Technology*, 47(11), 5931-5938. <https://doi.org/10.1021/es305330y>
- Kamppuri, T., Vehviläinen, M., Puolakka, A., Honkanen, M., Vippola, M., & Rissanen, M. (2015). Characterisation of novel regenerated cellulosic, viscose, and cotton fibres and the dyeing properties of fabrics. *Coloration Technology*, 131(5), 396-402. <https://doi.org/10.1111/cote.12163>
- Harra, J., Tuominen, M., Juuti, P., Rissler, J., Koivuluoto, H., Haapanen, J., ... Mäkelä, J. M. (2018). Characteristics of nFOG, an aerosol-based wet thin film coating technique. *Journal of Coatings Technology Research*, 15(3), 623-632. <https://doi.org/10.1007/s11998-017-0022-7>
- Kiilakoski, J., Langlade, C., Koivuluoto, H., & Vuoristo, P. (2019). Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings. *Surface and Coatings Technology*, 371, 245-254. <https://doi.org/10.1016/j.surfcoat.2018.10.097>
- Ruoko, T-P., Hiltunen, A., Iivonen, T., Ulkuniemi, R., Lahtonen, K., Ali-Löytty, H., ... Tkachenko, N. V. (2019). Charge carrier dynamics in tantalum oxide overlayers and tantalum doped hematite photoanodes. *Journal of Materials Chemistry A*, 7(7), 3206-3215. <https://doi.org/10.1039/C8TA09501A>
- Marsalek, O., Elles, C. G., Pieniazek, P. A., Pluhaov, E., Vandevondele, J., Bradforth, S. E., & Jungwirth, P. (2011). Chasing charge localization and chemical reactivity following photoionization in liquid water. *Journal of Chemical Physics*, 135(22), [224510]. <https://doi.org/10.1063/1.3664746>
- Fafarman, A. T., Hong, S. H., Caglayan, H., Ye, X., Diroll, B. T., Paik, T., ... Kagan, C. R. (2013). Chemically tailored dielectric-to-metal transition for the design of metamaterials from nanoimprinted colloidal nanocrystals. *Nano Letters*, 13(2), 350-357. <https://doi.org/10.1021/nl303161d>
- Di Capua, F., Papirio, S., Lens, P. N. L., & Esposito, G. (2015). Chemolithotrophic denitrification in biofilm reactors. *Chemical Engineering Journal*, 280, 643-657. <https://doi.org/10.1016/j.cej.2015.05.131>
- Fantozzi, D., Matikainen, V., Uusitalo, M., Koivuluoto, H., & Vuoristo, P. (2019). Chlorine induced high-temperature corrosion mechanisms in HVOF and HVOF sprayed Cr<sub>3</sub>C<sub>2</sub>-based hardmetal coatings. *Corrosion Science*, [108166]. <https://doi.org/10.1016/j.corsci.2019.108166>
- Manna, M., & Mukhopadhyay, C. (2011). Cholesterol driven alteration of the conformation and dynamics of phospholamban in model membranes. *Physical Chemistry Chemical Physics*, 13(45), 20188-20198. <https://doi.org/10.1039/c1cp21793c>
- Kulig, W., Cwiklik, L., Jurkiewicz, P., Rog, T., & Vattulainen, I. (2016). Cholesterol oxidation products and their biological importance. *Chemistry and Physics of Lipids*, 199, 144-160. <https://doi.org/10.1016/j.chemphyslip.2016.03.001>
- He, H., Chen, X., Mehmood, A., Raivio, L., Huttunen, H., Raunonen, P., & Virkki, J. (2020). ClothFace: A Batteryless RFID-Based Textile Platform for Handwriting Recognition. *Sensors (Basel, Switzerland)*, 20(17), [4878]. <https://doi.org/10.3390/s20174878>
- Ropo, M., Akola, J., & Jones, R. O. (2016). Collective excitations and viscosity in liquid Bi. *Journal of Chemical Physics*, 145(18), [184502]. <https://doi.org/10.1063/1.4965429>

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

Zorzi, G. K., Párraga, J. E., Seijo, B., & Sanchez, A. (2015). Comparison of different cationized proteins as biomaterials for nanoparticle-based ocular gene delivery. *Colloids and Surfaces B: Biointerfaces*, *135*, 533-541. <https://doi.org/10.1016/j.colsurfb.2015.08.008>

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

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

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

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

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

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

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

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

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

Kato, D., Sakai, H., Araki, Y., Wada, T., Tkachenko, N. V., & Hasobe, T. (2018). Concentration-dependent photophysical switching in mixed self-assembled monolayers of pentacene and perylene-3,4,9,10-tetracarboxylic diimide on gold nanoclusters. *Physical Chemistry Chemical Physics*, *20*(13), 8695-8706. <https://doi.org/10.1039/c8cp00174j>

Valtakari, D., Bollström, R., Tuominen, M., Teisala, H., Aromaa, M., Toivakka, M., ... Saarinen, J. J. (2012). Conductive layers on surface modified natural fibre based substrates for printed functionality. teoksessa *AICHE 2012 - 2012 AIChE Annual Meeting, Conference Proceedings*

Evans, D. M., Holstad, T. S., Mosberg, A. B., Småbråten, D. R., Vullum, P. E., Dadlani, A. L., ... Meier, D. (2020). Conductivity control via minimally invasive anti-Frenkel defects in a functional oxide. *Nature Materials*. <https://doi.org/10.1038/s41563-020-0765-x>

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

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

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

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

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

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

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>

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>

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>

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>

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>

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>

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.jpcclett.9b01187>



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>

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>

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>

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>

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

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

Auer, S., Nirschl, M., Schreiter, M., & Vikholm-Lundin, I. (2011). Detection of DNA hybridisation in a diluted serum matrix by surface plasmon resonance and film bulk acoustic resonators. *Analytical and Bioanalytical Chemistry*, *400*(5), 1387-1396. <https://doi.org/10.1007/s00216-011-4871-0>

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>

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>

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>

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>

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>

Rantala, T., Väyrynen, J., Kumpula, R., & Aksela, S. (1979). Direct measurement of the kinetic energy shift between the molecular and atomic M<sub>4.5</sub>N<sub>4.5</sub>N<sub>4.5</sub> Auger spectra of iodine. *Chemical Physics Letters*, *66*(2), 384-386. [https://doi.org/10.1016/0009-2614\(79\)85040-X](https://doi.org/10.1016/0009-2614(79)85040-X)

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>

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>

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>

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>

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>

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.

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>

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>

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>

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>

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>

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>

Kangas, H., Franzén, R., Tois, J., Taskinen, J., & Kostainen, 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)

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>

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>

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.

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)

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>

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>

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>

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>

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

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>

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>

Chakraborty, S., Rene, E. R., Lens, P. N. L., Rintala, J., Veiga, M. C., & Kennes, C. (2020). Effect of tungsten and selenium on  $C_1$  gas bioconversion by an enriched anaerobic sludge and microbial community analysis. *Chemosphere*, 250, [126105]. <https://doi.org/10.1016/j.chemosphere.2020.126105>

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>

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>

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>

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>

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>

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)

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>

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>

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>

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>

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)

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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*.

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>

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>

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>

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.

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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., & 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>

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>

Abada, A., Abbrescia, M., AbdusSalam, S. S., Abdjukhanov, 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>

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>

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>

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>

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 esittämispaikka: 30 Years of Drug Delivery Research, Kuopio, Suomi.

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>

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>

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>

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>

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>

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>

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>

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>

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>



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>

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>

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

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>

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>

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>

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)

Priimägi, 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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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  $^{14}\text{CH}_4$ . *Chemical Physics Letters*, 750, [137488]. <https://doi.org/10.1016/j.cplett.2020.137488>

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>

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  $\text{KCl-K}_2\text{SO}_4$  salt mixture. *Surface and Coatings Technology*, 265, 235-243. <https://doi.org/10.1016/j.surfcoat.2014.11.012>

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>

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>

Twum, K., Rautiainen, J. M., Yu, S., Truong, K. N., Feder, J., Rissanen, K., ... Beyeh, N. K. (2020). Host-Guest Interactions of Sodiumsulfonatomethyleneresorcinarene 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>

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>

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>

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>

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

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.

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.

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  $\text{Cr}_3\text{C}_2$ -NiCr coatings by WC addition. *Surface and Coatings Technology*, *337*, 296-305. <https://doi.org/10.1016/j.surfcoat.2018.01.035>

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>

Hyvönen, M., Ala-Korpela, M., Vaara, J., Rantala, T. T., & Jokisaari, J. (1997). Inequivalence of single  $\text{CH}_a$  and  $\text{CH}_b$  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)

Janka, L., Norpoth, J., Trache, R., & Berger, L. M. (2016). Influence of heat treatment on the abrasive wear resistance of a  $\text{Cr}_3\text{C}_2$ -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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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

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>

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>

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>

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>

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>

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>

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>

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>

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>

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.

Leuteritz, A., Kutlu, B., Meini, 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>

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>

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>

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>

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>

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>

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>

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>

Le, H. H., Oßwald, K., Wießner, S., Das, A., Stöckelhuber, K. W., Boldt, R., ... Radosch, 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>

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>

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>

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>

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>

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>

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>

- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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 polynorbornene for tissue engineering application. *RSC Advances*, *5*(15), 11284-11292. <https://doi.org/10.1039/C4RA14608E>
- 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>
- 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.
- Itävuori, P., Hulthén, E., Yahyaoui, M., & Vilkkonen, M. (2019). Mass balance control of crushing circuits. *Minerals Engineering*, *135*, 37-47. <https://doi.org/10.1016/j.mineng.2019.02.033>
- 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>
- 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>
- Rajan, R., Rainosalo, 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>
- 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>
- Rytönen, 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>

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

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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

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>

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)

- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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.
- 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>
- Vapaavuori, J., Mahimwalla, Z., Chromik, R. R., Kaivola, M., Priimägi, 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>
- 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)
- 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.
- 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)
- 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>
- 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>

- Serak, S. V., Tabiryany, 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>
- 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>
- 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>
- 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>
- 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>
- 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.jpcc.5b05123>
- 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>
- 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>
- 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>
- Lahti, J., Kamppuri, T., & Kuusipalo, J. (2017). Novel bio-based materials for active and intelligent packaging. teoksessa *16th TAPPI European PLACE Conference 2017* 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., 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.
- 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>
- 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)
- 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>

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>

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>

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>

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.

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>

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

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

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>

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>

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>

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>

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>

Varis, T., Suhonen, T., Calonijs, 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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

Rytönen, 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>

- 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>
- 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>
- 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>
- 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>
- Mordon, S., & Bourg-Heckly, G. (2015). Photodiagnostic et chirurgie guidés par la fluorescence. *ACTUALITE CHIMIQUE*, (397-398), 41-45.
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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 β-vinyl linker. *Journal of Porphyrins and Phthalocyanines*, *19*(1-3), 288-300. <https://doi.org/10.1142/S1088424615500108>
- 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>
- 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>

- 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>
- 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>
- 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>
- Alanen, J., Isotalo, M., Kuitinen, 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>

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)

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>

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)

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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..



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>

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>

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>

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)

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>

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.jpclett.9b00405>

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>

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>

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>

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>

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>

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>

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>

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

- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- Tan, L. C., Espinosa-Ortiz, E. J., Nancharaiyah, 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>

- 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>
- 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  $I_2Kr_{17}$  cluster. *Journal of Physical Chemistry A*, 116(46), 11199-11210. <https://doi.org/10.1021/jp305084f>
- 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>
- 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>
- 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)
- 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>
- 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>
- Ma, L., Jackson, K. A., & Jellinek, J. (2011). Site-specific polarizabilities as predictors of favorable adsorption sites on Nanoclusters. *Chemical Physics Letters*, 503(1-3), 80-85. <https://doi.org/10.1016/j.cplett.2010.12.049>
- Borah, D., Rasappa, S., Salaun, M., Zellsman, M., Lorret, O., Lontos, G., ... Morris, M. A. (2015). Soft graphoepitaxy for large area directed self-assembly of polystyrene-block-poly(dimethylsiloxane) block copolymer on nanopatterned porous substrates fabricated by nanoimprint lithography. *Advanced Functional Materials*, 25(22), 3425-3432. <https://doi.org/10.1002/adfm.201500100>
- Borah, D., Simao, C. D., Sentharamaiah, 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>
- 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>
- 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>
- 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>
- 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)

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>

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>

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>

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>

Lemougna, P. N., Yliniemi, J., Ismailov, A., Levänen, E., Tanskanen, P., Kinnunen, P., ... Illikainen, M. (Hyväksytyt/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>

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>