

- Zorzi GK, Párraga JE, 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>
- Zorzi GK, Párraga JE, Seijo B, Sánchez A. 2015. On the biomaterials for nanostructured ocular therapeutics. *Current Organic Chemistry*. 19(15):1443-1459.
- Zhou Q, Sariola V, Latifi K, Liimatainen V. 2016. Controlling the motion of multiple objects on a Chladni plate. *Nature Communications*. 7. <https://doi.org/10.1038/ncomms12764>
- Zhou K, Dichlberger A, Martinez-Seara H, Nyholm TKM, Li S, Kim YA, Vattulainen I, Ikonen E, Blom T. 2018. A Ceramide-Regulated Element in the Late Endosomal Protein LAPTM4B Controls Amino Acid Transporter Interaction. *ACS Central Science*. 4(5):548-558. <https://doi.org/10.1021/acscentsci.7b00582>
- Zhang H, Zeng H, Priimägi A, Ikkala O. 2019. Programmable responsive hydrogels inspired by classical conditioning algorithm. *Nature Communications*. 10(1). <https://doi.org/10.1038/s41467-019-11260-3>
- Young DC, Tasiar M, Laurent AD, Dobrzycki Ł, Cyrański MK, Tkachenko N, Jacquemin D, Gryko DT. 2020. Photostable orange-red fluorescent unsymmetrical diketopyrrolopyrrole-BF₂ hybrids. *Journal of Materials Chemistry C*. 8(23):7708-7717. <https://doi.org/10.1039/d0tc01202e>
- Ylilauri M, Mattila E, Nurminen EM, Käpylä J, Niinivehmas SP, Määttä JA, Pentikäinen U, Ivaska J, Pentikäinen OT. 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>
- Yi H, Albrecht M, Valkonen A, Rissanen K. 2015. Perfluoro-1,1'-biphenyl and perfluoronaphthalene and their derivatives as π-acceptors for anions. *New Journal of Chemistry*. 39(1):746-749. <https://doi.org/10.1039/c4nj01654h>
- Ye Q, Wang M, Hofbauer V, Stolzenburg D, Chen D, Schervish M, Vogel A, Mauldin RL, Baalbaki R, Brilke S, Dada L, Dias A, Duplissy J, El Haddad I, Finkenzeller H, Fischer L, He X, Kim C, Kürten A, Lamkaddam H, Lee CP, Lehtipalo K, Leiminger M, Manninen HE, Marten R, Mentler B, Partoll E, Petäjä T, Rissanen M, Schobesberger S, Schuchmann S, Simon M, Tham YJ, Vazquez-Pufleau M, Wagner AC, Wang Y, Wu Y, Xiao M, Baltensperger U, Curtius J, Flagan R, Kirkby J, Kulmala M, Volkamer R, Winkler PM, Worsnop D, Donahue NM. 2019. Molecular Composition and Volatility of Nucleated Particles from α-Pinene Oxidation between -50 °c and +25 °c. *Environmental Science and Technology*. 53(21):12357-12365. <https://doi.org/10.1021/acs.est.9b03265>
- Yang Y, Kylänpää I, Tubman NM, Krogel JT, Hammes-Schiffer S, Ceperley DM. 2015. How large are nonadiabatic effects in atomic and diatomic systems?. *Journal of Chemical Physics*. 143(12). <https://doi.org/10.1063/1.4931667>
- Will OM, Purcz N, Chalaris A, Heneweer C, Boretius S, Purcz L, Nikkola L, Ashammakhi N, Kalthoff H, Glüer CC, Wiltfang J, Açil Y, 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>
- Wikström M, Sharma V, Kaila VRI, Hosler JP, Hummer G. 2015. New perspectives on proton pumping in cellular respiration. *Chemical Reviews*. 115(5):2196-2221. <https://doi.org/10.1021/cr500448t>
- Wernersson E, Heyda J, Vazdar M, Lund M, Mason PE, 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>
- Werner J, Wernersson E, Ekholm V, Ottosson N, Öhrwall G, Heyda J, Persson I, Söderström J, Jungwirth P, Björneholm O. 2014. Surface behavior of hydrated guanidinium and ammonium ions: A comparative study by photoelectron spectroscopy and molecular dynamics. *Journal of Physical Chemistry Part B*. 118(25):7119-7127. <https://doi.org/10.1021/jp500867w>

- Wecharine I, Valkonen A, Rzaigui M, Sta WS, 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>
- Wani OM, Schenning APHJ, 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>
- Wang J, Ma L, Liang Y, Gao M, Wang G. 2014. Density functional theory study of transition metals doped B₈₀ fullerene. *Journal of Theoretical and Computational Chemistry*. 13(6). <https://doi.org/10.1142/S0219633614500503>
- Wang J, Ray AK. 2014. A full-potential linearized augmented plane wave study of the interaction of CO₂ with α -Pu (020) surface nanolayers. *Journal of Computational and Theoretical Nanoscience*. 11(7):1710-1717. <https://doi.org/10.1166/jctn.2014.3555>
- Wang DY, Das A, Leuteritz A, Mahaling RN, Jehnichen D, Wagenknecht U, Heinrich G. 2012. Structural characteristics and flammability of fire retarding EPDM/layered double hydroxide (LDH) nanocomposites. *RSC Advances*. 2(9):3927-3933. <https://doi.org/10.1039/c2ra20189e>
- Wang X, Vapaavuori J, Zhao Y, Bazuin CG. 2014. A supramolecular approach to photoresponsive thermo/solvoplastic block copolymer elastomers. *Macromolecules*. 47(20):7099-7108. <https://doi.org/10.1021/ma501278b>
- 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>
- Wang S, Nawale GN, Oommen OP, Hilborn J, Varghese OP. 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>
- Wang M, Chen D, Xiao M, Ye Q, Stolzenburg D, Hofbauer V, Ye P, Vogel AL, Mauldin RL, Amorim A, Baccarini A, Baumgartner B, Briike S, Dada L, Dias A, Duplissy J, Finkenzeller H, Garmash O, He XC, Hoyle CR, Kim C, Kvashnin A, Lehtipalo K, Fischer L, Molteni U, Petäjä T, Pospisilova V, Quéléver LLJ, Rissanen M, Simon M, Tauber C, Tomé A, Wagner AC, Weitz L, Volkamer R, Winkler PM, Kirkby J, Worsnop DR, Kulmala M, Baltensperger U, Dommen J, El-Haddad I, Donahue NM. 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>
- Wacharine I, Valkonen A, Rzaigui M, Smirani W. 2015. Synthesis, crystal structure, spectral, dielectric characteristics and conduction mechanism of two novel carboxylates of 1-benzhydrylpiperazine. *Monatshefte fur Chemie*. 146(12):2007-2020. <https://doi.org/10.1007/s00706-015-1553-1>
- Vuorimaa-Laukkanen E, Lisitsyna ES, Ketola T-M, Morin-Pickardat E, Liang H, Hanzlikova M, Urtti A, Yliperttula ML, Lisitsyna E, Laaksonen T. 2017. Fluorescence spectroscopy "knife" for polyplex "cakes": taste the filling. *Julkaisun esittämispäikka: 30 Years of Drug Delivery Research, Kuopio, Suomi*.
- 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>
- Virtanen J, Somppi S, Törnqvist H, Jeyhani V, Fiedler P, Gizatdinova Y, Majaranta P, Väättäjä H, Cardó AV, Lekkala J, Tuukkanen S, Surakka V, Vainio O, Vehkaoja A. 2018. Evaluation of dry electrodes in canine heart rate monitoring. *Sensors*. 18(6). <https://doi.org/10.3390/s18061757>

- Virkki K, Demir S, Lemmetyinen H, Tkachenko NV. 2015. Photoinduced Electron Transfer in CdSe/ZnS Quantum Dot-Fullerene Hybrids. *Journal of Physical Chemistry C*. 119(31):17561-17572. <https://doi.org/10.1021/acs.jpcc.5b04251>
- Virkki K, Hakola H, Urbani M, Tejerina L, Ince M, Martínez-Díaz MV, Torres T, Golovanova V, Golovanov V, Tkachenko NV. 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, Tervola E, Medel M, Torres T, Tkachenko NV. 2018. Effect of Co-Adsorbate and Hole Transporting Layer on the Photoinduced Charge Separation at the TiO₂-Phthalocyanine Interface. *ACS Omega*. 3(5):4947-4958. <https://doi.org/10.1021/acsomega.8b00600>
- Virkki M, Maurice A, Forni A, Sironi M, Dichiarante V, Brevet PF, Metrangolo P, Kauranen M, 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>
- Viljanen J, Sun Z, Alwahabi ZT. 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>
- Viljanen J, Kalmankoski K, Contreras V, Sarin JK, Sorvajärvi T, Kinnunen H, Enestam S, Toivonen J. 2020. Sequential Collinear Photofragmentation and Atomic Absorption Spectroscopy for Online Laser Monitoring of Triatomic Metal Species. *Sensors (Basel, Switzerland)*. 20(2). <https://doi.org/10.3390/s20020533>
- Vazdar M, Jungwirth P, Mason PE. 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>
- 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>
- 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>
- Väyrynen J, Rantala TT, 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)
- Varis T, Suhonen T, Calonius O, Čuban J, Pietola M. 2016. Optimization of HVOF Cr₃C₂-NiCr coating for increased fatigue performance. *Surface and Coatings Technology*. 305:123-131. <https://doi.org/10.1016/j.surfcoat.2016.08.012>
- Varis T, Bankiewicz D, Yrjas P, Oksa M, Suhonen T, Tuurna S, Ruusuvoori K, Holmström S. 2015. High temperature corrosion of thermally sprayed NiCr and FeCr coatings covered with a KCl-K₂SO₄ salt mixture. *Surface and Coatings Technology*. 265:235-243. <https://doi.org/10.1016/j.surfcoat.2014.11.012>
- 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. <https://doi.org/10.1016/j.surfcoat.2020.125604>
- Vapaavuori J, Heikkinen ITS, Dichiarante V, Resnati G, Metrangolo P, Sabat RG, Bazuin CG, Priimagi A, 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>
- Vapaavuori J, Laventure A, Bazuin CG, Lebel O, Pellerin C. 2015. Submolecular Plasticization Induced by Photons in Azobenzene Materials. *Journal of the American Chemical Society*. 137(42):13510-13517. <https://doi.org/10.1021/jacs.5b06611>

Vapaavuori J, Grosrenaud J, Pellerin C, Bazuin CG. 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>

Vapaavuori J, Mahimwalla Z, Chromik RR, Kaivola M, Priimagi A, Barrett CJ. 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>

Vapaavuori J, Valtavirta V, Alasaarela T, Mamiya JI, 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>

Vapaavuori J, Siiskonen A, Dichiarante V, Forni A, Saccone M, Pilati T, Pellerin C, Shishido A, Metrangolo P, Priimagi A. 2017. Supramolecular control of liquid crystals by doping with halogen-bonding dyes. *RSC Advances*. 7(64):40237-40242. <https://doi.org/10.1039/c7ra06397k>

Vapaavuori J, Bazuin CG, Priimagi A. 2018. Supramolecular design principles for efficient photoresponsive polymer-azobenzene complexes. *Journal of Materials Chemistry C*. 6(9):2168-2188. <https://doi.org/10.1039/c7tc05005d>

Valtakari D, Bollström R, Tuominen M, Teisala H, Aromaa M, Toivakka M, Kuusipalo J, Mäkelä JM, Uozumi J, Saarinen JJ. 2012. Conductive layers on surface modified natural fibre based substrates for printed functionality. teoksessa *AICHe 2012 - 2012 AICHe Annual Meeting, Conference Proceedings*.

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)

Vale JR, Rimpiläinen T, Sievänen E, Rissanen K, Afonso CAM, Candeias NR. 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>

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

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>

Vaikuntam SR, Stöckelhuber KW, Subramani Bhagavatheswaran E, Wießner S, Scheler U, Saalwächter K, Formanek P, Heinrich G, 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>

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*. Sivut 447.

Uusitalo MA, 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>

Uusheimo S, Huotari J, Tulonen T, Aalto SL, Rissanen AJ, 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>

- Umeyama T, Hanaoka T, Yamada H, Namura Y, Mizuno S, Ohara T, Baek J, Park J, Takano Y, Stranius K, Tkachenko NV, Imahori H. 2019. Exclusive occurrence of photoinduced energy transfer and switching of its direction by rectangular π -extension of nanographenes. *Chemical Science*. 10(27):6642-6650. <https://doi.org/10.1039/c9sc01538h>
- Uhlig F, Herbert JM, Coons MP, 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>
- 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>
- Uhlig F, Marsalek O, Jungwirth P. 2011. From a localized H₃O radical to a delocalized H₃O⁺·e⁻ solvent-separated pair by sequential hydration. *Physical Chemistry Chemical Physics*. 13(31):14003-14009. <https://doi.org/10.1039/c1cp20764d>
- Twum K, Rautiainen JM, Yu S, Truong KN, Feder J, Rissanen K, Puttreddy R, Beyeh NK. 2020. Host-Guest Interactions of Sodiumsulfonatomethylenesorsocinarene 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>
- Tuominen M, Yasir M, Lång J, Dahl J, Kuzmin M, Mäkelä J, Punkkinen M, Laukkanen P, Kokko K, Schulte K, Punkkinen R, Korpijärvi V-M, Polojärvi V, Guina M. 2015. Oxidation of the GaAs semiconductor at the Al₂O₃/GaAs junction. *Physical Chemistry Chemical Physics*. 17(10):7060-7066. <https://doi.org/10.1039/c4cp05972g>
- Tukiainen A, Likonen J, Toikkanen L, Leinonen T. 2015. Unintentional boron contamination of MBE-grown GaInP/AlGaInP quantum wells. *Journal of Crystal Growth*. 425:60-63. <https://doi.org/10.1016/j.jcrysgro.2015.02.048>
- Truong KN, Rautiainen JM, Rissanen K, Puttreddy R. 2020. The C-I···O-N⁺ Halogen Bonds with Tetraiodoethylene and Aromatic N-Oxides. *Crystal Growth and Design*. 20(8):5330-5337. <https://doi.org/10.1021/acs.cgd.0c00560>
- Trainer DJ, Putilov AV, Wang B, Lane C, Saari T, Chang TR, Jeng HT, Lin H, Xi X, Nieminen J, Bansil A, Iavarone M. 2019. Moiré superlattices and 2D electronic properties of graphite/MoS₂ heterostructures. *Journal of Physics and Chemistry of Solids*. 128:325-330. <https://doi.org/10.1016/j.jpcs.2017.10.034>
- Tomkowski R, Sorsa A, Santa-Aho S, Lundin P, Vippola M. 2019. Statistical evaluation of barkhausen noise testing (BNT) for ground samples. *Sensors (Switzerland)*. 19(21). <https://doi.org/10.3390/s19214716>
- Tois J, Franzén R, Aitio O, Laakso I, Kylänlahti I. 2001. Vilsmeier formylation of 2-carboxyindoles and preparation of O-benzylhydroxyureas on solid phase. *Journal of Combinatorial Chemistry*. 3(6):542-545. <https://doi.org/10.1021/cc010004f>
- 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>
- 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)
- Tofanello A, Freitas ALM, Carvalho WM, Salminen T, Niemi T, Souza FL. 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>
- 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>

- 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>
- Tiihonen J, Kylänpää I, Rantala TT. 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>
- 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>
- Tienaho J, Karonen M, Muilu-Mäkelä R, Wähälä K, Denegri EL, Franzén R, Karp M, Santala V, 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). <https://doi.org/10.3390/molecules24122330>
- Tian Y, Bova GS, 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>
- Tevyashova AN, Shtil AA, Olsufyeva EN, Luzikov YN, Reznikova MI, Dezhenskova LG, Isakova EB, Bukhman VM, Durandin NA, Vinogradov AM, Kuzmin VA, Preobrazhenskaya MN. 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>
- Ter Schiphorst J, Coleman S, Stumpel JE, Ben Azouz A, Diamond D, Schenning APHJ. 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>
- Teisala H, Tuominen M, Aromaa M, Mäkelä JM, Stepien M, Saarinen JJ, Toivakka M, Kuusipalo J. 2011. Nanoparticle deposition on packaging materials by the liquid flame spray. teoksessa 13th European PLACE Conference 2011.
- Tawade BV, Salunke JK, Sane PS, Wadgaonkar PP. 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>
- Taskinen B, Zauner D, Lehtonen SI, Koskinen M, Thomson C, Kähkönen N, Kukkurainen S, Määttä JAE, Ihalainen TO, Kulomaa MS, Gruber HJ, Hytönen VP. 2014. Switchavidin: Reversible biotin-avidin-biotin bridges with high affinity and specificity. *Bioconjugate Chemistry*. 25(12):2233-2243. <https://doi.org/10.1021/bc500462w>
- Tan M, Feng Y, Wang H, Zhang L, Khan M, Guo J, Chen Q, 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>
- Tan LC, Espinosa-Ortiz EJ, Nancharaiah YV, van Hullebusch ED, Gerlach R, Lens PN. 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>
- Tan LC, Nancharaiah YV, Lu S, van Hullebusch ED, Gerlach R, Lens PNL. 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>

- Tan C, Ceballos G, Kasabov N, Subramaniam NP. 2020. Fusionsense: Emotion classification using feature fusion of multimodal data and deep learning in a brain-inspired spiking neural network. *Sensors (Switzerland)*. 20(18). <https://doi.org/10.3390/s20185328>
- 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>
- Taimoory SM, Twum K, Dashti M, Pan F, Lahtinen M, Rissanen K, Puttreddy R, Trant JF, Beyeh NK. 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>
- Szabo HM, 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>
- 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>
- 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. TAPPI Press. Sivut 529-544.
- Suokas E. 2019. Effect of polyolefin molecular structure on product properties in extrusion coating. teoksessa 17th Biennial TAPPI European PLACE Conference 2019. TAPPI Press. Sivut 89-98.
- 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>
- 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>
- Su W, Cooper JR, Cook BS, Tentzeris MM, Mariotti C, Roselli L. 2015. Inkjet-printed dual microfluidic-based sensor integrated system. teoksessa 2015 IEEE SENSORS - Proceedings. Institute of Electrical and Electronics Engineers Inc. <https://doi.org/10.1109/ICSENS.2015.7370300>
- Stumpel JE, Gil ER, Spoelstra AB, Bastiaansen CWM, Broer DJ, Schenning APHJ. 2015. Stimuli-Responsive Materials Based on Interpenetrating Polymer Liquid Crystal Hydrogels. *Advanced Functional Materials*. 25(22):3314-3320. <https://doi.org/10.1002/adfm.201500745>
- Stumpel JE, Broer DJ, Schenning APHJ. 2015. Water-responsive dual-coloured photonic polymer coatings based on cholesteric liquid crystals. *RSC Advances*. 5(115):94650-94653. <https://doi.org/10.1039/c5ra18017a>
- Stumpel JE, Liu D, Broer DJ, Schenning APHJ. 2013. Photoswitchable hydrogel surface topographies by polymerisation-induced diffusion. *Chemistry: A European Journal*. 19(33):10922-10927. <https://doi.org/10.1002/chem.201300852>
- Stumpel JE, Broer DJ, Schenning APHJ. 2014. Stimuli-responsive photonic polymer coatings. *Chemical Communications*. 50(100):15839-15848. <https://doi.org/10.1039/c4cc05072j>
- Stumpel JE. 2015. Responsive Polymer Photonics. *Chemistryopen*. 4(4):533-535. <https://doi.org/10.1002/open.201500104>

- 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>
- Stöckelhuber KW, Das A, Klüppel M, Toimittaja 2016. *Designing of Elastomer Nanocomposites: From Theory to Application*. Springer International Publishing. (Advances in Polymer Science). <https://doi.org/10.1007/978-3-319-47696-4>
- 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>
- Sterpone F, Nguyen PH, 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>
- 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>
- 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>
- Stasyuk AJ, Smoleń S, Glodkowska-Mrowka E, Brutkowski W, Cyrański MK, Tkachenko N, Gryko DT. 2015. Synthesis of fluorescent naphthoquinolizines via intramolecular houben-hoesch reaction. *Chemistry - An Asian Journal*. 10(3):553-558. <https://doi.org/10.1002/asia.201403339>
- Spataru A, Jain R, Chung JW, Gerner G, Krebs R, Lens PNL. 2016. Enhanced adsorption of orthophosphate and copper onto hydrochar derived from sewage sludge by KOH activation. *RSC Advances*. 6(104):101827-101834. <https://doi.org/10.1039/c6ra22327c>
- Soto AM, Koivisto JT, Parraga JE, Silva-Correia J, Oliveira JM, Reis RL, Kellomäki M, Hyttinen J, Figueiras E. 2016. Optical Projection Tomography Technique for Image Texture and Mass Transport Studies in Hydrogels Based on Gellan Gum. *Langmuir*. 32(20):5173-5182. <https://doi.org/10.1021/acs.langmuir.6b00554>
- 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>
- 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_2 -7.5wt.% Y_2O_3 coatings. *Surface and Coatings Technology*. 270:132-138. <https://doi.org/10.1016/j.surfcoat.2015.03.011>
- Solovyev AI, Mikheyli AV, Plyusnin VF, Shubin AA, Grivin VP, Larionov SV, Tkachenko NV, Lemmetyinen H. 2019. Photochemistry of dithiophosphate $Ni(S_2P(i-Bu)_2)_2$ complex in CCl_4 . Transient species and TD-DFT calculations. *Journal of Photochemistry and Photobiology A: Chemistry*. 381. <https://doi.org/10.1016/j.jphotochem.2019.111857>
- Smith JD, Mitsakou C, Kitwiroon N, Barratt BM, Walton HA, Taylor JG, Anderson HR, Kelly FJ, Beevers SD. 2016. London Hybrid Exposure Model: Improving Human Exposure Estimates to NO_2 and $PM_{2.5}$ in an Urban Setting. *Environmental Science and Technology*. 50(21):11760-11768. <https://doi.org/10.1021/acs.est.6b01817>
- Sippola RJ, Hadipour A, Kastinen T, Vivo P, Hukka TI, Aernouts T, Heiskanen JP. 2017. Carbazole-based small molecule electron donors: Syntheses, characterization, and material properties. *Dyes and Pigments*. 150:79-88. <https://doi.org/10.1016/j.dyepig.2017.11.014>

- Siljander S, Keinänen P, Rätty A, Ramakrishnan KR, Tuukkanen S, Kunnari V, Harlin A, Vuorinen J, Kanerva M. 2018. Effect of surfactant type and sonication energy on the electrical conductivity properties of nanocellulose-CNT nanocomposite films. *International Journal of Molecular Sciences*. 19(6). <https://doi.org/10.3390/ijms19061819>
- Siiskonen A, Priimägi A. 2017. Benchmarking DFT methods with small basis sets for the calculation of halogen-bond strengths. *Journal of Molecular Modeling*. 23(2). <https://doi.org/10.1007/s00894-017-3212-4>
- Shin J, Cherstvy AG, Metzler R. 2015. Kinetics of polymer looping with macromolecular crowding: Effects of volume fraction and crowder size. *Soft Matter*. 11(3):472-488. <https://doi.org/10.1039/c4sm02007c>
- Shin J, Cherstvy AG, Metzler R. 2015. Polymer looping is controlled by macromolecular crowding, spatial confinement, and chain stiffness. *ACS Macro Letters*. 4(2):202-206. <https://doi.org/10.1021/mz500709w>
- Shin M, Kim J, Jung YK, Ruoko T-P, Priimägi 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>
- Shevkunov I, Katkovnik V, Claus D, Pedrini G, Petrov NV, Egiazarian K. 2019. Spectral object recognition in hyperspectral holography with complex-domain denoising. *Sensors (Switzerland)*. 19(23). <https://doi.org/10.3390/s19235188>
- 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>
- Sharma V, Yiannacou K, Karjalainen M, Lahtonen K, Valden M, Sariola V. 2019. Large-scale efficient water harvesting using bioinspired micro-patterned copper oxide nanoneedle surfaces and guided droplet transport. *Nanoscale Advances*. 1(10):4025-4040. <https://doi.org/10.1039/c9na00405j>
- Sharma RO, Rantala TT, Hoggan PE. 2020. Selective hydrogen production at Pt(111) investigated by Quantum Monte Carlo methods for metal catalysis. *International Journal of Quantum Chemistry*. 120(11). <https://doi.org/10.1002/qua.26198>
- Shakun A, Poikelispää M, Das A, Vuorinen J. 2018. Improved electromechanical response in acrylic rubber by different carbon-based fillers. *Polymer Engineering and Science*. 58(3):395-404. <https://doi.org/10.1002/pen.24586>
- Shakun A, Sarlin E, Vuorinen J. 2020. Energy dissipation in natural rubber latex films: The effect of stabilizers, leaching and acetone-treatment. *Journal of Applied Polymer Science*. <https://doi.org/10.1002/app.49609>
- Serak SV, Tabiryani NV, Assanto G. 2012. Nematicons in azobenzene liquid crystals. *Molecular Crystals and Liquid Crystals*. 559:202-213. <https://doi.org/10.1080/15421406.2012.658710>
- Seo JY, Lee K, Ramasamy P, Kim B, Lee SY, Oh YK, Park SB. 2015. Tri-functionality of Fe₃O₄-embedded carbon microparticles in microalgae harvesting. *Chemical Engineering Journal*. 280:206-214. <https://doi.org/10.1016/j.cej.2015.05.122>
- Schroeder CA, Pluharová E, Seidel R, Schroeder WP, Faubel M, Slaviček P, Winter B, Jungwirth P, Bradforth SE. 2015. Oxidation half-reaction of aqueous nucleosides and nucleotides via photoelectron spectroscopy augmented by ab initio calculations. *Journal of the American Chemical Society*. 137(1):201-209. <https://doi.org/10.1021/ja508149e>
- 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>

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>

Sautter JD, Xu L, Miroshnichenko AE, Lysevych M, Volkovskaya I, Smirnova DA, Camacho-Morales R, Zangeneh Kamali K, Karouta F, Vora K, Tan HH, Kauranen M, Staude I, Jagadish C, Neshev DN, Rahmani M. 2019. Tailoring Second-Harmonic Emission from (111)-GaAs Nanoantennas. *Nano Letters*. 19(6):3905-3911. <https://doi.org/10.1021/acs.nanolett.9b01112>

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

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

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>

Santos FMF, Rosa JN, Candeias NR, Carvalho CP, Matos AI, Ventura AE, Florindo HF, Silva LC, Pischel U, Gois PMP. 2016. A Three-Component Assembly Promoted by Boronic Acids Delivers a Modular Fluorophore Platform (BASHY Dyes). *Chemistry: A European Journal*. 22(5):1631-1637. <https://doi.org/10.1002/chem.201503943>

Sankari A, Str ahlman C, Sankari R, Partanen L, Laksman J, Kettunen JA, Galv an IF, Lindh R, Malmqvist P A, Sorensen SL. 2020. Non-radiative decay and fragmentation in water molecules after 1 a 1-1 4 a 1 excitation and core ionization studied by electron-energy-resolved electron-ion coincidence spectroscopy. *Journal of Chemical Physics*. 152(7). <https://doi.org/10.1063/1.5141414>

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

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

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

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

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

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

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

<https://doi.org/10.1021/jacs.9b06567>

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>

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

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

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

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

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

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

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>

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.jpics.2017.12.037>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Rasappa S, Borah D, Senthamaraiannan R, Faulkner CC, Holmes JD, Morris MA. 2014. Fabrication of 3-D nanodimensioned electric double layer capacitor structures using block copolymer templates. *Journal Nanoscience and Nanotechnology*. 14(7):5221-5227. <https://doi.org/10.1166/jnn.2014.8668>

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

Rasappa S, Borah D, Faulkner CC, Lutz T, Shaw MT, Holmes JD, Morris MA. 2013. Fabrication of a sub-10 nm silicon nanowire based ethanol sensor using block copolymer lithography. *Nanotechnology*. 24(6). <https://doi.org/10.1088/0957-4484/24/6/065503>

Rantala TS, Rantala TT, Lantto V. 2000. Computational studies for the interpretation of gas response of SnO₂(110) surface. *Sensors and Actuators B: Chemical*. 65(1):375-378. [https://doi.org/10.1016/S0925-4005\(99\)00292-0](https://doi.org/10.1016/S0925-4005(99)00292-0)

Rantala TT, Rantala TS, Lantto V. 1999. Surface relaxation of the (110) face of rutile SnO₂. *Surface Science*. 420(1):103-109. [https://doi.org/10.1016/S0039-6028\(98\)00833-4](https://doi.org/10.1016/S0039-6028(98)00833-4)

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

Rantala TT, Rantala TS, Lantto V, Vaara J. 1996. Surface relaxation of the (1010) face of wurtzite CdS. *Surface Science*. 352-354:77-82. [https://doi.org/10.1016/0039-6028\(95\)01094-7](https://doi.org/10.1016/0039-6028(95)01094-7)

Rantala TT, Jelski DA, George TF. 1995. Si₁₀ and photoabsorption spectra of mid-sized silicon clusters. *Chemical Physics Letters*. 232(3):215-220. [https://doi.org/10.1016/0009-2614\(94\)01342-S](https://doi.org/10.1016/0009-2614(94)01342-S)

Rantala TS, Lantto V, Rantala TT. 1994. A cluster approach for the SnO₂ (110) face. *Sensors and Actuators B: Chemical*. 19(1-3):716-719. [https://doi.org/10.1016/0925-4005\(93\)01220-X](https://doi.org/10.1016/0925-4005(93)01220-X)

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

Rantala TT, Jelski DA, George TF. 1990. Electronic and structural properties of Si₁₀ cluster. *Journal of Cluster Science*. 1(2):189-200. <https://doi.org/10.1007/BF00702719>

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

- Rantala TT, Wästberg B, Rosén A. 1986. Potential energy curves for diatomic molecules calculated with numerical basis functions. *Chemical Physics*. 109(2-3):261-268. [https://doi.org/10.1016/0301-0104\(86\)87056-2](https://doi.org/10.1016/0301-0104(86)87056-2)
- Rantala TT, Rosén A, Helsing B. 1986. A Finite Cluster Approach to the Electron-Hole Pair Damping of the Adsorbate Vibration: CO Adsorbed on Cu(100). *Studies in Surface Science and Catalysis*. 26(C):173-181. [https://doi.org/10.1016/S0167-2991\(09\)61238-6](https://doi.org/10.1016/S0167-2991(09)61238-6)
- Rantala T, Väyrynen J, Kumpula R, Aksela S. 1979. Direct measurement of the kinetic energy shift between the molecular and atomic M4.5N4.5N4.5 Auger spectra of iodine. *Chemical Physics Letters*. 66(2):384-386. [https://doi.org/10.1016/0009-2614\(79\)85040-X](https://doi.org/10.1016/0009-2614(79)85040-X)
- Rajan R, Rainosalu E, Thomas SP, Ramamoorthy SK, Zavašnik J, Vuorinen J, Skrifvars M. 2018. Modification of epoxy resin by silane-coupling agent to improve tensile properties of viscose fabric composites. *Polymer Bulletin*. 75(1):167-195. <https://doi.org/10.1007/s00289-017-2022-2>
- Rajan R, Rainosalu E, Ramamoorthy SK, Thomas SP, Zavašnik J, Vuorinen J, Skrifvars M. 2018. Mechanical, thermal, and burning properties of viscose fabric composites: Influence of epoxy resin modification. *Journal of Applied Polymer Science*. 135(36). <https://doi.org/10.1002/app.46673>
- 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>
- Railanmaa A, Lehtimäki S, Lupo D. 2017. Comparison of starch and gelatin hydrogels for non-toxic supercapacitor electrolytes. *Applied Physics A-Materials Science and Processing*. 123(6). <https://doi.org/10.1007/s00339-017-1068-1>
- Rahaman O, Kalimeri M, Melchionna S, Hénin J, Sterpone F. 2015. Role of Internal Water on Protein Thermal Stability: The Case of Homologous G Domains. *Journal of Physical Chemistry Part B*. 119(29):8939-8949. <https://doi.org/10.1021/jp507571u>
- Rahaman O, Kalimeri M, Katava M, Paciaroni A, Sterpone F. 2017. Configurational Disorder of Water Hydrogen-Bond Network at the Protein Dynamical Transition. *Journal of Physical Chemistry Part B*. 121(28):6792-6798. <https://doi.org/10.1021/acs.jpcc.7b03888>
- Raghuwanshi S, Deswal D, Karp M, Kuhad RC. 2014. Bioprocessing of enhanced cellulase production from a mutant of *Trichoderma asperellum* RCK2011 and its application in hydrolysis of cellulose. *Fuel*. 124:183-189. <https://doi.org/10.1016/j.fuel.2014.01.107>
- Raappana M, Polojärvi V, Aho A, Mäkelä J, Aho T, Tukiainen A, Laukkanen P, Guina M. 2018. Wet etching of dilute nitride GaInNAs, GaInNAsSb, and GaNAsSb alloys lattice-matched to GaAs. *Corrosion Science*. 136:268-274. <https://doi.org/10.1016/j.corsci.2018.03.018>
- 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>
- Primagi A, Barrett CJ, Shishido A. 2014. Recent twists in photoactuation and photoalignment control. *Journal of Materials Chemistry C*. 2(35):7155-7162. <https://doi.org/10.1039/c4tc01236d>
- Primagi 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>
- Primagi A, Cavallo G, Metrangolo P, Resnati G. 2013. The Halogen Bond in the Design of Functional Supramolecular Materials: Recent Advances. *Accounts of Chemical Research*. 46(11):2686-2695. <https://doi.org/10.1021/ar400103r>

Priimagi A, Shimamura A, Kondo M, Hiraoka T, Kubo S, Mamiya JI, Kinoshita M, Ikeda T, Shishido A. 2012. Location of the Azobenzene moieties within the cross-linked liquid-crystalline polymers can dictate the direction of photoinduced bending. *ACS Macro Letters*. 1(1):96-99. <https://doi.org/10.1021/mz200056w>

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

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

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

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

Pollheimer P, Taskinen B, Scherfler A, Gusenkov S, Creus M, Wiesauer P, Zauner D, Schöfberger W, Schwarzinger C, Ebner A, Tampé R, Stutz H, Hytönen VP, Gruber HJ. 2013. Reversible biofunctionalization of surfaces with a switchable mutant of avidin. *Bioconjugate Chemistry*. 24(10):1656-1668. <https://doi.org/10.1021/bc400087e>

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>

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

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

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

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

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

Pluhařová E, Ončák M, Seidel R, Schroeder C, Schroeder W, Winter B, Bradforth SE, Jungwirth P, Slaviček P. 2012. Transforming anion instability into stability: Contrasting photoionization of three protonation forms of the phosphate ion upon moving into water. *Journal of Physical Chemistry Part B*. 116(44):13254-13264. <https://doi.org/10.1021/jp306348b>

Pluhařová E, Jungwirth P, Bradforth SE, 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>

- 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). <https://doi.org/10.1063/1.4765052>
- Pirjola L, Karjalainen P, Heikkilä J, Saari S, Tzamkiozis T, Ntziachristos L, Kulmala K, Keskinen J, Rönkkö T. 2015. Effects of fresh lubricant oils on particle emissions emitted by a modern gasoline direct injection passenger car. *Environmental Science and Technology*. 49(6):3644-3652. <https://doi.org/10.1021/es505109u>
- Pirjola L, Dittrich A, Niemi JV, Saarikoski S, Timonen H, Kuuluvainen H, Järvinen A, Kousa A, Rönkkö T, Hillamo R. 2016. Physical and Chemical Characterization of Real-World Particle Number and Mass Emissions from City Buses in Finland. *Environmental Science and Technology*. 50(1):294-304. <https://doi.org/10.1021/acs.est.5b04105>
- Pirjola L, Rönkkö T, Saukko E, Parviainen H, Malinen A, Alanen J, 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>
- Pirhonen M, Peltokangas M, Vehkaoja A. 2018. Acquiring respiration rate from photoplethysmographic signal by recursive bayesian tracking of intrinsic modes in time-frequency spectra. *Sensors*. 18(6). <https://doi.org/10.3390/s18061693>
- Pilehrood MK, Atashi A, Sadeghi-Aliabadi H, Nousiainen P, Harlin A. 2016. 3D micro-nano structured hybrid scaffolds: An investigation into the role of nanofiber coating on viability, proliferation and differentiation of seeded mesenchymal stem cells. *Journal Nanoscience and Nanotechnology*. 16(9):9000-9007. <https://doi.org/10.1166/jnn.2016.12740>
- 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>
- 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>
- Perumbilavil S, Sridharan K, Abraham AR, Janardhanan HP, Kalarikkal N, Philip R. 2016. Nonlinear transmittance and optical power limiting in magnesium ferrite nanoparticles: effects of laser pulsewidth and particle size. *RSC Advances*. 6(108):106754-106761. <https://doi.org/10.1039/c6ra15788b>
- Perumbilavil S, Piccardi A, Barboza R, Buchnev O, Kauranen M, Strangi G, Assanto G. 2018. Beaming random lasers with soliton control. *Nature Communications*. 9(1). <https://doi.org/10.1038/s41467-018-06170-9>
- Perander M, DeMartini N, Brink A, Kramb J, Karlström O, Hemming J, Moilanen A, Konttinen J, Hupa M. 2015. Catalytic effect of Ca and K on CO₂ gasification of spruce wood char. *Fuel*. 150:464-472. <https://doi.org/10.1016/j.fuel.2015.02.062>
- Pelto JM, Haimi SP, Siljander AS, Miettinen SS, Tappura KM, Higgins MJ, Wallace GG. 2013. Surface properties and interaction forces of biopolymer-doped conductive polypyrrole surfaces by atomic force microscopy. *Langmuir*. 29(20):6099-6108. <https://doi.org/10.1021/la4009366>
- Pelkonen A, Mzezewa R, Sukki L, Ryyänen T, Kreutzer J, Hyvärinen T, Vinogradov A, Aarnos L, Leikkala J, Kallio P, Narkilahti S. 2020. A modular brain-on-a-chip for modelling epileptic seizures with functionally connected human neuronal networks. *Biosensors and Bioelectronics*. 168. <https://doi.org/10.1016/j.bios.2020.112553>
- Pelado B, Abou-Chahine F, Calbo J, Caballero R, delaCruz P, Junquera-Hernández JM, Ortí E, Tkachenko NV, Langa F. 2015. Role of the bridge in photoinduced electron transfer in porphyrin-fullerene dyads. *Chemistry: A European Journal*. 21(15):5814-5825. <https://doi.org/10.1002/chem.201406514>
- Pekkanen TT, Timonen RS, Lendvay G, Rissanen MP, Eskola AJ. 2019. Kinetics and thermochemistry of the reaction of 3-methylpropargyl radical with molecular oxygen. *PROCEEDINGS OF THE COMBUSTION INSTITUTE*. 37(1):299-306. <https://doi.org/10.1016/j.proci.2018.05.050>

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>

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

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

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

Palmolahti L, Ali-Löytty H, Khan R, Saari J, Tkachenko NV, Valden M. 2020. Modification of Surface States of Hematite-Based Photoanodes by Submonolayer of TiO₂ for Enhanced Solar Water Splitting. *Journal of Physical Chemistry C*. 124(24):13094-13101. <https://doi.org/10.1021/acs.jpcc.0c00798>

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>

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

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>

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

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

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

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

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

Oliveira LMC, Koivisto H, Iwakiri IGI, Loureiro JM, Ribeiro AM, Nogueira IBR. 2020. Modelling of a pressure swing adsorption unit by deep learning and artificial intelligence tools. *Chemical Engineering Science*. 224. <https://doi.org/10.1016/j.ces.2020.115801>

- Oksala NKJ, Ekmekçi FG, Özsoy E, Kirankaya Ş, Kokkola T, Emecen G, Lappalainen J, Kaarniranta K, Atalay M. 2014. Natural thermal adaptation increases heat shock protein levels and decreases oxidative stress. *REDOX BIOLOGY*. 3:25-28. <https://doi.org/10.1016/j.redox.2014.10.003>
- Oksa M, Varis T, Ruusuvuori 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>
- Ojha N, Nguyen H, Laihininen T, Salminen T, Lastusaari M, Petit L. 2018. Decomposition of persistent luminescent microparticles in corrosive phosphate glass melt. *Corrosion Science*. 135:207-214. <https://doi.org/10.1016/j.corsci.2018.02.050>
- Ojha N, Tuomisto M, Lastusaari M, Petit L. 2018. Upconversion from fluorophosphate glasses prepared with NaYF₄:Er³⁺, Yb³⁺ nanocrystals. *RSC Advances*. 8(34):19226-19236. <https://doi.org/10.1039/c8ra03298j>
- Ojha N, Szczodra A, Boetti NG, Massera J, Petit L. 2020. Nucleation and growth behavior of Er³⁺ doped oxyfluorophosphate glasses. *RSC Advances*. 10(43):25703-25716. <https://doi.org/10.1039/d0ra04681g>
- Nymark P, Bakker M, Dekkers S, Franken R, Fransman W, García-Bilbao A, Greco D, Gulumian M, Hadrup N, Halappanavar S, Hongisto V, Hougaard KS, Jensen KA, Kohonen P, Koivisto AJ, Dal Maso M, Oosterwijk T, Poikkimäki M, Rodriguez-Llopis I, Stierum R, Sørli JB, Grafström R. 2020. Toward Rigorous Materials Production: New Approach Methodologies Have Extensive Potential to Improve Current Safety Assessment Practices. *Small*. 16(6). <https://doi.org/10.1002/sml.201904749>
- Nykänen H, Mpamah PA, Rissanen AJ. 2018. Stable carbon isotopic composition of peat columns, subsoil and vegetation on natural and forestry-drained boreal peatlands. *Isotopes in Environmental and Health Studies*. 54(6). <https://doi.org/10.1080/10256016.2018.1523158>
- Ntziachristos L, Saukko E, Lehtoranta K, Rönkkö T, Timonen H, Simonen P, Karjalainen P, Keskinen J. 2016. Particle emissions characterization from a medium-speed marine diesel engine with two fuels at different sampling conditions. *Fuel*. 186:456-465. <https://doi.org/10.1016/j.fuel.2016.08.091>
- Nogueira IBR, Ribeiro AM, Martins MAF, Rodrigues AE, Koivisto H, Loureiro JM. 2017. Dynamics of a True Moving Bed separation process: Linear model identification and advanced process control. *Journal of Chromatography A*. 1504. <https://doi.org/10.1016/j.chroma.2017.04.060>
- Niskanen M, Kuisma M, Cramariuc O, Golovanov V, Hukka TI, Tkachenko N, Rantala TT. 2013. Porphyrin adsorbed on the (1010) surface of the wurtzite structure of ZnO-conformation induced effects on the electron transfer characteristics. *Physical Chemistry Chemical Physics*. 15(40):17408-17418. <https://doi.org/10.1039/c3cp51685g>
- Nisato G, Lupo D, Ganz S, Toimittaja 2016. *Organic and Printed Electronics: Fundamentals and Applications*. 1 toim. Singapore: PAN STANFORD PUBLISHING. 580 Sivumäärä <https://doi.org/10.1201/b20043>
- Nieminen V, Karjalainen M, Salminen K, Rantala J, Kontunen A, Isokoski P, Müller P, Kallio P, Surakka V, Lekkala J. 2018. A compact olfactometer for IMS measurements and testing human perception. *International Journal for Ion Mobility Spectrometry*. 21(3):71-80. <https://doi.org/10.1007/s12127-018-0235-1>
- Nazir R, Bourquard F, Balčiūnas E, Smoleń S, Gray D, Tkachenko NV, Farsari M, Gryko DT. 2015. π-Expanded α,β-unsaturated ketones: Synthesis, optical properties, and two-photon-induced polymerization. *ChemPhysChem*. 16(3):682-690. <https://doi.org/10.1002/cphc.201402646>
- Närhi M, Salmela L, Toivonen J, Billet C, Dudley JM, Genty G. 2018. Machine learning analysis of extreme events in optical fibre modulation instability. *Nature Communications*. 9(1). <https://doi.org/10.1038/s41467-018-07355-y>

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

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

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

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

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

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

Mubarakali D, Praveenkumar R, Shenbagavalli T, Mari Nivetha T, Parveez Ahamed A, Al-Dhabi NA, Thajuddin N. 2012. New reports on anti-bacterial and anti-candidal activities of fatty acid methyl esters (FAME) obtained from *Scenedesmus bijugatus* var. *bicellularis* biomass. *RSC Advances*. 2(30):11552-11556. <https://doi.org/10.1039/c2ra21130k>

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

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

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

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>

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

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>

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

- Milne D, Wilson JIB, Rantala TT, Lenkkeri J. 1989. Morphological and structural changes in laser CVD of silicon: comparison of theoretical temperature calculations with experimental results. *Applied Surface Science*. 43(1-4):81-86. [https://doi.org/10.1016/0169-4332\(89\)90194-3](https://doi.org/10.1016/0169-4332(89)90194-3)
- Miller AE, Petersen PB, Hollars CW, Saykally RJ, Heyda J, Jungwirth P. 2011. Behavior of β -amyloid 1-16 at the air-water interface at varying pH by nonlinear spectroscopy and molecular dynamics simulations. *Journal of Physical Chemistry A*. 115(23):5873-5880. <https://doi.org/10.1021/jp110103j>
- Milanti A, Matikainen V, Koivuluoto H, Bolelli G, Lusvardi L, Vuoristo P. 2015. Effect of spraying parameters on the microstructural and corrosion properties of HVAF-sprayed Fe-Cr-Ni-B-C coatings. *Surface and Coatings Technology*. 277:81-90. <https://doi.org/10.1016/j.surfcoat.2015.07.018>
- Milani R, Houbenov N, Fernandez-Palacio F, Cavallo G, Luzio A, Haataja J, Giancane G, Saccone M, Priimägi A, Metrangola P, Ikkala O. 2017. Hierarchical Self-Assembly of Halogen-Bonded Block Copolymer Complexes into Upright Cylindrical Domains. *CheM*. 2(3):417-426. <https://doi.org/10.1016/j.chempr.2017.02.003>
- Mettänen M, Hirn U. 2015. A comparison of five optical surface topography measurement methods. *TAPPI Journal*. 14(1):27-38.
- Melcr J, Martinez-Seara H, Nencini R, Kolafa J, Jungwirth P, Ollila OHS. 2018. Accurate Binding of Sodium and Calcium to a POPC Bilayer by Effective Inclusion of Electronic Polarization. *Journal of Physical Chemistry B*. 122(16):4546-4557. <https://doi.org/10.1021/acs.jpcc.7b12510>
- Mehrang S, Pietilä J, Korhonen I. 2018. An activity recognition framework deploying the random forest classifier and a single optical heart rate monitoring and triaxial accelerometer wrist-band. *Sensors*. 18(2). <https://doi.org/10.3390/s18020613>
- McManamon C, O'Connell J, Delaney P, Rasappa S, Holmes JD, Morris MA. 2015. A facile route to synthesis of S-doped TiO₂ nanoparticles for photocatalytic activity. *Journal of Molecular Catalysis A: Chemical*. 406:51-57!. <https://doi.org/10.1016/j.molcata.2015.05.002>
- McManamon C, Delaney P, Kavanagh C, Wang JJ, Rasappa S, Morris MA. 2013. Depth profiling of PLGA copolymer in a novel biomedical bilayer using confocal Raman spectroscopy. *Langmuir*. 29(19):5905-5910. <https://doi.org/10.1021/la400402a>
- Matsuo S, Yamazoe S, Goh J-Q, Akola J, Tsukuda T. 2016. The electrooxidation-induced structural changes of gold di-superatomic molecules: Au₂₃ vs. Au₂₅. *Physical Chemistry Chemical Physics*. 18(6):4822-4827. <https://doi.org/10.1039/c5cp06969f>
- Matikainen V, Rubio Peregrina S, Ojala N, Koivuluoto H, Schubert J, Houdková , Vuoristo P. 2019. Erosion wear performance of WC-10Co4Cr and Cr₃C₂-25NiCr 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>
- Mason PE, Uhlig F, Vaněk V, Buttersack T, Bauerecker S, Jungwirth P. 2015. Coulomb explosion during the early stages of the reaction of alkali metals with water. *Nature Chemistry*. 7(3):250-254. <https://doi.org/10.1038/nchem.2161>
- Mason PE, Wernersson E, Jungwirth P. 2012. Accurate description of aqueous carbonate ions: An effective polarization model verified by neutron scattering. *Journal of Physical Chemistry Part B*. 116(28):8145-8153. <https://doi.org/10.1021/jp3008267>
- Marsalek O, Uhlig F, Vandevondede J, Jungwirth P. 2012. Structure, dynamics, and reactivity of hydrated electrons by Ab initio molecular dynamics. *Accounts of Chemical Research*. 45(1):23-32. <https://doi.org/10.1021/ar200062m>

- Marsalek O, Elles CG, Pieniasek PA, Pluhaov E, Vandevondele J, Bradforth SE, Jungwirth P. 2011. Chasing charge localization and chemical reactivity following photoionization in liquid water. *Journal of Chemical Physics*. 135(22). <https://doi.org/10.1063/1.3664746>
- 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>
- Manninen H, Rotola-Pukkila M, Aisala H, Hopia A, Laaksonen T. 2018. Free amino acids and 5'-nucleotides in Finnish forest mushrooms. *Food Chemistry*. 247:23-28. <https://doi.org/10.1016/j.foodchem.2017.12.014>
- Manninen H, Durandin N, Hopia A, Vuorimaa-Laukkanen E, Laaksonen T. 2020. Taste compound – Nanocellulose interaction assessment by fluorescence indicator displacement assay. *Food Chemistry*. 318. <https://doi.org/10.1016/j.foodchem.2020.126511>
- Manna M, Mukhopadhyay C. 2011. Cholesterol driven alteration of the conformation and dynamics of phospholamban in model membranes. *Physical Chemistry Chemical Physics*. 13(45):20188-20198. <https://doi.org/10.1039/c1cp21793c>
- Manna M, Mukhopadhyay C. 2011. Molecular dynamics simulations of the interactions of kinin peptides with an anionic POPG bilayer. *Langmuir*. 27(7):3713-3722. <https://doi.org/10.1021/la104046z>
- Manea LR, Cramariuc B, Popescu V, Cramariuc R, Sandu I, Cramariuc O. 2015. Equipment for obtaining polymeric nanofibres by electrospinning technology: II. The obtaining of polymeric nanofibers. *Materiale Plastice*. 52(2):180-185.
- Mandal S, Garcia Iglesias M, Ince M, Torres T, Tkachenko NV. 2018. Photoinduced Energy Transfer in ZnCdSeS Quantum Dot-Phthalocyanines Hybrids. *ACS Omega*. 3(8):10048-10057. <https://doi.org/10.1021/acsomega.8b01623>
- Mandal S, Tkachenko NV. 2019. Multiphoton Excitation of CsPbBr₃ 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>
- Mal J, Nancharaiah YV, Van Hullebusch ED, Lens PNL. 2016. Metal chalcogenide quantum dots: Biotechnological synthesis and applications. *RSC Advances*. 6(47):41477-41495. <https://doi.org/10.1039/c6ra08447h>
- Mäki AJ, Peltokangas M, Kreutzer J, Auvinen S, Kallio P. 2015. Modeling carbon dioxide transport in PDMS-based microfluidic cell culture devices. *Chemical Engineering Science*. 137:515-524. <https://doi.org/10.1016/j.ces.2015.06.065>
- Mäkelä J, Tuominen M, Yasir M, Polojärvi V, Aho A, Tukiainen A, Kuzmin M, Punkkinen MPJ, Laukkanen P, Kokko K, Guina M. 2015. Effects of thinning and heating for TiO₂/AlInP junctions. *Journal of Electron Spectroscopy and Related Phenomena*. 205:6-9. <https://doi.org/10.1016/j.elspec.2015.08.004>
- Mäkelä JM, Haapanen J, Harra J, Juuti P, Kujanpää S. 2017. Liquid flame spray—a hydrogen-oxygen flame based method for nanoparticle synthesis and functional nanocoatings. *KONA POWDER AND PARTICLE JOURNAL*. 2017(34):141-154. <https://doi.org/10.14356/kona.2017020>
- Mahmood N, Khan AU, Stöckelhuber KW, Das A, Jehnichen D, Heinrich G. 2014. Carbon nanotubes-filled thermoplastic polyurethane-urea and carboxylated acrylonitrile butadiene rubber blend nanocomposites. *Journal of Applied Polymer Science*. 131(11). <https://doi.org/10.1002/app.40341>
- Mahimwalla Z, Yager KG, Mamiya JI, Shishido A, Priimagi A, Barrett CJ. 2012. Azobenzene photomechanics: Prospects and potential applications. *Polymer Bulletin*. 69(8):967-1006. <https://doi.org/10.1007/s00289-012-0792-0>

- Mah PT, Novakovic D, Saarinen J, van Landeghem S, Peltonen L, Laaksonen T, Isomäki A, Strachan CJ. 2017. Elucidation of Compression-Induced Surface Crystallization in Amorphous Tablets Using Sum Frequency Generation (SFG) Microscopy. *Pharmaceutical Research*. 34(5):957-970. <https://doi.org/10.1007/s11095-016-2046-6>
- Magarkar A, Parkkila P, Viitala T, Lajunen T, Mobarak E, Licari G, Cramariuc O, Vauthey E, Róg T, Bunker A. 2018. Membrane bound COMT isoform is an interfacial enzyme: General mechanism and new drug design paradigm. *Chemical Communications*. 54(28):3440-3443. <https://doi.org/10.1039/c8cc00221e>
- Ma L, Melander M, Laasonen K, Akola J. 2015. CO oxidation catalyzed by neutral and anionic Cu₂₀ clusters: Relationship between charge and activity. *Physical Chemistry Chemical Physics*. 17(10):7067-7076. <https://doi.org/10.1039/c5cp00365b>
- Ma L, Melander M, Weckman T, Lipasti S, Laasonen K, Akola J. 2016. DFT simulations and microkinetic modelling of 1-pentyne hydrogenation on Cu₂₀ model catalysts. *Journal of Molecular Graphics and Modelling*. 65:61-70. <https://doi.org/10.1016/j.jmgm.2016.02.007>
- Ma L, Wang J, Wang G. 2013. Site-specific analysis of dipole polarizabilities of heterogeneous systems: Iron-doped Si_n (n = 1-14) clusters. *Journal of Chemical Physics*. 138(9). <https://doi.org/10.1063/1.4793276>
- Ma L, Ray AK. 2013. Growth behavior and magnetic properties of spherical uranium oxide nanoclusters. *Journal of Computational and Theoretical Nanoscience*. 10(2):334-340. <https://doi.org/10.1166/jctn.2013.2701>
- Ma L, Wang J, Hao Y, Wang G. 2013. Density functional theory study of FePd_n (n = 2-14) clusters and interactions with small molecules. *Computational Materials Science*. 68:166-173. <https://doi.org/10.1016/j.commatsci.2012.10.014>
- Ma L, Wang J, Wang G. 2012. Search for global minimum geometries of medium sized Cd_nTe_n clusters (n = 15, 16, 20, 24 and 28). *Chemical Physics Letters*. 552:73-77. <https://doi.org/10.1016/j.cplett.2012.09.036>
- Ma L, Atta-Fynn R, Ray AK. 2012. Elemental and mixed actinide dioxides: An ab initio study. *Journal of Theoretical and Computational Chemistry*. 11(3):611-629. <https://doi.org/10.1142/S021963361250040X>
- Ma L, Jackson KA, Jellinek J. 2011. Site-specific polarizabilities as predictors of favorable adsorption sites on Nan clusters. *Chemical Physics Letters*. 503(1-3):80-85. <https://doi.org/10.1016/j.cplett.2010.12.049>
- Ma L, Laasonen K, Akola J. 2017. Catalytic Activity of AuCu Clusters on MgO(100): Effect of Alloy Composition for CO Oxidation. *Journal of Physical Chemistry C*. 121(20):10876-10886. <https://doi.org/10.1021/acs.jpcc.6b12054>
- Luna E, Wu M, Hanke M, Puustinen J, Guina M, Trampert A. 2016. Spontaneous formation of three-dimensionally ordered Bi-rich nanostructures within GaAs_{1-x}Bi_x/GaAs quantum wells. *Nanotechnology*. 27(32). <https://doi.org/10.1088/0957-4484/27/32/325603>
- Lowe SJ, Partridge DG, Davies JF, Wilson KR, Topping D, Riipinen I. 2019. Key drivers of cloud response to surface-active organics. *Nature Communications*. 10(1). <https://doi.org/10.1038/s41467-019-12982-0>
- Lolicato F, Raudino A, Milardi D, La Rosa C. 2015. Resveratrol interferes with the aggregation of membrane-bound human-IAPP: A molecular dynamics study. *European Journal of Medicinal Chemistry*. 92:876-881. <https://doi.org/10.1016/j.ejmech.2015.01.047>
- Lolicato F, Joly L, Martinez-Seara H, Fragneto G, Scoppola E, Baldelli Bombelli F, Vattulainen I, Akola J, Maccarini M. 2019. The Role of Temperature and Lipid Charge on Intake/Uptake of Cationic Gold Nanoparticles into Lipid Bilayers. *Small*. 15(23). <https://doi.org/10.1002/smll.201805046>

- Liu Y, Minofar B, Desyaterik Y, Dames E, Zhu Z, Cain JP, Hopkins RJ, Gilles MK, Wang H, Jungwirth P, Laskin A. 2011. Internal structure, hygroscopic and reactive properties of mixed sodium methanesulfonate-sodium chloride particles. *Physical Chemistry Chemical Physics*. 13(25):11846-11857. <https://doi.org/10.1039/c1cp20444k>
- Liu W, Ban J, Feng L, Cheng T, Emmert-Streib F, Dehmer M. 2019. The maximum Hosoya index of unicyclic graphs with diameter at most four. *Symmetry*. 11(8). <https://doi.org/10.3390/sym11081034>
- Lisitsyna ES, Lygo ON, Durandin NA, Dement'eva OV, Rudoi VM, Kuzmin VA. 2012. Superquenching of SYBRGreen dye fluorescence in complex with DNA by gold nanoparticles. *HIGH ENERGY CHEMISTRY*. 46(6):363-367. <https://doi.org/10.1134/S0018143912060057>
- Lisitsyna ES, Ketola T-M, Morin-Picardat E, Liang H, Hanzlíková M, Urtti A, Yliperttula M, Vuorimaa-Laukkanen E. 2017. Time-Resolved Fluorescence Spectroscopy Reveals Fine Structure and Dynamics of Poly(L-lysine) and Polyethylenimine Based DNA Polyplexes. *Journal of Physical Chemistry B*. 121(48):10782-10792. <https://doi.org/10.1021/acs.jpcc.7b08394>
- Lis M, Wizert A, Przybylo M, Langner M, Swiatek J, Jungwirth P, Cwiklik L. 2011. The effect of lipid oxidation on the water permeability of phospholipids bilayers. *Physical Chemistry Chemical Physics*. 13(39):17555-17563. <https://doi.org/10.1039/c1cp21009b>
- Linko V, Leppiniemi J, Paasonen ST, Hytönen VP, Jussi Toppari J. 2011. Defined-size DNA triple crossover construct for molecular electronics: Modification, positioning and conductance properties. *Nanotechnology*. 22(27). <https://doi.org/10.1088/0957-4484/22/27/275610>
- Liimatainen V, Vuckovac M, Jokinen V, Sariola V, Hokkanen MJ, Zhou Q, Ras RHA. 2017. Mapping microscale wetting variations on biological and synthetic water-repellent surfaces. *Nature Communications*. 8(1). <https://doi.org/10.1038/s41467-017-01510-7>
- Liang Y, Ma L, Wang J, Wang G. 2015. Multistep reactions of water with small Pd_n clusters: A first principles study. *Journal of Theoretical and Computational Chemistry*. 14(3). <https://doi.org/10.1142/S0219633615500170>
- Li Z, Le T, Wu Z, Yao Y, Li L, Tentzeris M, Moon KS, Wong CP. 2015. Rational design of a printable, highly conductive silicone-based electrically conductive adhesive for stretchable radio-frequency antennas. *Advanced Functional Materials*. 25(3):464-470. <https://doi.org/10.1002/adfm.201403275>
- Li Y, Tao SC, Bova GS, Liu AY, Chan DW, Zhu H, Zhang H. 2011. Detection and verification of glycosylation patterns of glycoproteins from clinical specimens using lectin microarrays and lectin-based immunosorbent assays. *Analytical Chemistry*. 83(22):8509-8516. <https://doi.org/10.1021/ac201452f>
- Levoska J, Rantala TT, Lenkkeri J. 1989. Numerical simulation of temperature distributions in layered structures during laser processing. *Applied Surface Science*. 36(1-4):12-22. [https://doi.org/10.1016/0169-4332\(89\)90895-7](https://doi.org/10.1016/0169-4332(89)90895-7)
- Levin M, Rojas E, Vanhala E, Vippola M, Liguori B, Kling KI, Koponen IK, Mølhav K, Tuomi T, Gregurec D, Moya S, Jensen KA. 2015. Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials: implications for testing and risk assessment. *Journal of Nanoparticle Research*. 17(8). <https://doi.org/10.1007/s11051-015-3139-6>
- 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>
- Leuteritz A, Kutlu B, Meinel J, Wang D, Das A, Wagenknecht U, Heinrich G. 2012. Layered Double Hydroxides (LDH): A multifunctional versatile system for nanocomposites. *Molecular Crystals and Liquid Crystals*. 556:107-113. <https://doi.org/10.1080/15421406.2012.635923>

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

Lepistö SS, Rintala JA. 1997. Start-up and Operation of Laboratory-Scale Thermophilic Upflow Anaerobic Sludge Blanket Reactors Treating Vegetable Processing Wastewaters. *Journal of Chemical Technology and Biotechnology*. 68(3):331-339. [https://doi.org/10.1002/\(SICI\)1097-4660\(199703\)68:3<331::AID-JCTB657>3.0.CO;2-Z](https://doi.org/10.1002/(SICI)1097-4660(199703)68:3<331::AID-JCTB657>3.0.CO;2-Z)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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>

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

- 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>
- Kuz'min VA, Durandin NA, Lisitsyna ES, Nekipelova TD, Podrugina TA, Matveeva ED, Proskurnina MV, Zefirov NS. 2015. Spectral and kinetic characteristics of indotricarbocyanine complexation with albumin. *DOKLADY PHYSICAL CHEMISTRY*. 462(1):107-109. <https://doi.org/10.1134/S0012501615050036>
- Kuzmin VA, Durandin NA, Lisitsyna ES, Litvinkova LV, Nekipelova TD, Podrugina TA, Matveeva ED, Proskurnina MV, Zefirov NS. 2015. Energy degradation in photoexcited complexes of indocarbocyanine with albumin. *HIGH ENERGY CHEMISTRY*. 49(3):211-212. <https://doi.org/10.1134/S0018143915030108>
- Kuzmin MG, Soboleva IV, Durandin NA, Lisitsyna ES, Kuzmin VA. 2014. Microphase mechanism of "superquenching" of luminescent probes in aqueous solutions of DNA and some other polyelectrolytes. *Journal of Physical Chemistry Part B*. 118(15):4245-4252. <https://doi.org/10.1021/jp500713q>
- Kuusipalo J, Lahti J. 2017. Tampere University of Technology, laboratory of materials science, paper converting and packaging technology Tampere, Finland. teoksessa 16th TAPPI European PLACE Conference 2017: Basel; Switzerland; 22 May 2017 through 24 May 2017. TAPPI Press.
- Kurppa K, Hytönen VP, Nakari-Setälä T, Kulomaa MS, Linder MB. 2014. Molecular engineering of avidin and hydrophobin for functional self-assembling interfaces. *Colloids and Surfaces B: Biointerfaces*. 120:102-109. <https://doi.org/10.1016/j.colsurfb.2014.05.010>
- Kuroda K, Yazaki K, Tanaka Y, Akita M, Sakai H, Hasobe T, Tkachenko NV, Yoshizawa M. 2019. A Pentacene-based Nanotube Displaying Enriched Electrochemical and Photochemical Activities. *Angewandte Chemie - International Edition*. 58(4):1115-1119. <https://doi.org/10.1002/anie.201812976>
- Kulig W, Cwiklik L, Jurkiewicz P, Rog T, Vattulainen I. 2016. Cholesterol oxidation products and their biological importance. *Chemistry and Physics of Lipids*. 199:144-160. <https://doi.org/10.1016/j.chemphyslip.2016.03.001>
- Kulig W, Agmon N. 2014. Deciphering the infrared spectrum of the protonated water pentamer and the hybrid Eigen-Zundel cation. *Physical Chemistry Chemical Physics*. 16(10):4933-4941. <https://doi.org/10.1039/c3cp54029d>
- Kulig W, Agmon N. 2014. Both zundel and eigen isomers contribute to the IR spectrum of the gas-phase H₉O₄ + cluster. *Journal of Physical Chemistry Part B*. 118(1):278-286. <https://doi.org/10.1021/jp410446d>
- Kulig W, Agmon N. 2013. A 'clusters-in-liquid' method for calculating infrared spectra identifies the proton-transfer mode in acidic aqueous solutions. *Nature Chemistry*. 5(1):29-35. <https://doi.org/10.1038/nchem.1503>
- Kulig W, Kubisiak P, Cwiklik L. 2011. Steric and electronic effects in the host-guest hydrogen bonding in clathrate hydrates. *Journal of Physical Chemistry A*. 115(23):6149-6154. <https://doi.org/10.1021/jp111245z>
- Kulig W, Korolainen H, Zatorska M, Kwolek U, Wydro P, Kepczynski M, Róg T. 2019. Complex Behavior of Phosphatidylcholine-Phosphatidic Acid Bilayers and Monolayers: Effect of Acyl Chain Unsaturation. *Langmuir*. 35(17):5944-5956. <https://doi.org/10.1021/acs.langmuir.9b00381>
- Kramb J, Konttinen J, Backman R, Salo K, Roberts M. 2016. Elimination of arsenic-containing emissions from gasification of chromated copper arsenate wood. *Fuel*. 181:319-324. <https://doi.org/10.1016/j.fuel.2016.04.109>
- Kramb J, Gómez-Barea A, DeMartini N, Romar H, Doddapaneni TRKC, Konttinen J. 2017. The effects of calcium and potassium on CO₂ gasification of birch wood in a fluidized bed. *Fuel*. 196:398-407. <https://doi.org/10.1016/j.fuel.2017.01.101>

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

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>

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

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

Koskela JE, Vapaavuori J, Hautala J, Priimagi A, Faul CFJ, Kaivola M, Ras RHA. 2012. Surface-relief gratings and stable birefringence inscribed using light of broad spectral range in supramolecular polymer-bisazobenzene complexes. *Journal of Physical Chemistry C*. 116(3):2363-2370. <https://doi.org/10.1021/jp210706n>

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

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

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

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

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>

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>

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

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

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

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

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

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

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

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

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>

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

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)

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 H₂O₂ Using Low-Intensity Direct Current. *Sensors*. 19(11). <https://doi.org/10.3390/s19112505>

Kattiparambil Rajan D, Patrikoski M, Verho J, Sivula J, Ihalainen H, Miettinen S, Leikkala 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>

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

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

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

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

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

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

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

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

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

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

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

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

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

Kapgate BP, Das C, Das A, Basu D, Reuter U, Heinrich G. 2012. Effect of sol-gel derived in situ silica on the morphology and mechanical behavior of natural rubber and acrylonitrile butadiene rubber blends. *JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY*. 63(3):501-509. <https://doi.org/10.1007/s10971-012-2812-9>

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

Kangas H, Franzén R, Tois J, Taskinen J, Kostianen R. 1999. Effect of nitro groups and alkyl chain length on the negative ion tandem mass spectra of alkyl 3-hydroxy-5-(4'-nitrophenoxy) and alkyl 3-hydroxy-5-(2', 4'-dinitrophenoxy) benzoates. *Rapid Communications in Mass Spectrometry*. 13(16):1680-1684. [https://doi.org/10.1002/\(SICI\)1097-0231\(19990830\)13:16<1680::AID-RCM698>3.0.CO;2-R](https://doi.org/10.1002/(SICI)1097-0231(19990830)13:16<1680::AID-RCM698>3.0.CO;2-R)

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>

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>

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 CO₂: In-situ spectroscopic study. *Corrosion Science*. 174. <https://doi.org/10.1016/j.corsci.2020.108850>

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

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>

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

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

Joost U, Sutka A, Oja M, Smits K, Doebelin N, Loot A, Järvekülg M, Hirsimäki M, Valden M, Nommiste E. 2018. Reversible photodoping of TiO₂ nanoparticles. *Chemistry of Materials*. 30(24):8968-8974. <https://doi.org/10.1021/acs.chemmater.8b04813>

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

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

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>

Javanainen M, Melcrová A, Magarkar A, Jurkiewicz P, Hof M, Jungwirth P, Martinez-Seara H. 2017. Two cations, two mechanisms: Interactions of sodium and calcium with zwitterionic lipid membranes. *Chemical Communications*. 53(39):5380-5383. <https://doi.org/10.1039/c7cc02208e>

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

Janka L, Norpoth J, Trache R, Berger LM. 2016. Influence of heat treatment on the abrasive wear resistance of a Cr₃C₂ NiCr coating deposited by an ethene-fuelled HVOF spray process. *Surface and Coatings Technology*. 291:444-451. <https://doi.org/10.1016/j.surfcoat.2016.02.066>

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

Jain R, Dominic D, Jordan N, Rene ER, Weiss S, van Hullebusch ED, Hübner R, Lens PNL. 2016. Preferential adsorption of Cu in a multi-metal mixture onto biogenic elemental selenium nanoparticles. *Chemical Engineering Journal*. 284:917–925. <https://doi.org/10.1016/j.cej.2015.08.144>

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

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>

Izdebskaya Y, Shvedov V, Assanto G, Krolikowski W. 2017. Magnetic routing of light-induced waveguides. *Nature Communications*. 8. <https://doi.org/10.1038/ncomms14452>

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

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

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

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>

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

Isca VMS, Ferreira RJ, Garcia C, Monteiro CM, Dinic J, Holmstedt S, André V, Pesic M, Dos Santos DJVA, Candeias NR, Afonso CAM, Rijo P. 2020. Molecular Docking Studies of Royleanone Diterpenoids from *Plectranthus* spp. as P-Glycoprotein Inhibitors. *ACS MEDICINAL CHEMISTRY LETTERS*. 11(5):839-845. <https://doi.org/10.1021/acsmchemlett.9b00642>

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

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

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

Iantovics LB, 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). <https://doi.org/10.3390/sym10020048>

Hyvönen M, Ala-Korpela M, Vaara J, Rantala TT, Jokisaari J. 1997. Inequivalence of single CH_a and 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)

Hyvönen M, Ala-Korpela M, Vaara J, Rantala TT, Jokisaari J. 1995. Effects of two double bonds on the hydrocarbon interior of a phospholipid bilayer. *Chemical Physics Letters*. 246(3):300-306. [https://doi.org/10.1016/0009-2614\(95\)01113-N](https://doi.org/10.1016/0009-2614(95)01113-N)

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>

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

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

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

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

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

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

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

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

Hladílková J, Prokop Z, Chaloupková R, Damborský 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>

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

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>

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

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

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

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

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

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

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

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

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

Hannula M, Ali-Löytty H, Lahtonen K, Sarlin E, Saari J, Valden M. 2018. Improved Stability of Atomic Layer Deposited Amorphous TiO_2 Photoelectrode Coatings by Thermally Induced Oxygen Defects. *Chemistry of Materials*. 30(4):1199-1208. <https://doi.org/10.1021/acs.chemmater.7b02938>

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

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

Häkkinen MR, Roine A, Auriola S, Tuokko A, Veskimäe E, Keinänen TA, Lehtimäki T, Oksala N, Vepsäläinen J. 2013. Analysis of free, mono- and diacetylated polyamines from human urine by LC-MS/MS. *JOURNAL OF CHROMATOGRAPHY B: ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES*. 941:81-89. <https://doi.org/10.1016/j.jchromb.2013.10.009>

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

- Hajdu-Rahkama R, Özkaya B, Lakaniemi AM, Puhakka JA. 2020. Kinetics and modelling of thiosulphate biotransformations by haloalkaliphilic *Thioalkalivibrio versutus*. *Chemical Engineering Journal*. 401. <https://doi.org/10.1016/j.cej.2020.126047>
- Haavisto J, Dessì P, Chatterjee P, Honkanen M, Noori MT, Kokko M, Lakaniemi AM, Lens PNL, Puhakka JA. 2019. Effects of anode materials on electricity production from xylose and treatability of TMP wastewater in an up-flow microbial fuel cell. *Chemical Engineering Journal*. 372:141-150. <https://doi.org/10.1016/j.cej.2019.04.090>
- Haavisto JM, Kokko ME, Lakaniemi AM, Sulonen MLK, Puhakka JA. 2020. The effect of start-up on energy recovery and compositional changes in brewery wastewater in bioelectrochemical systems. *BIOELECTROCHEMISTRY*. 132. <https://doi.org/10.1016/j.bioelechem.2019.107402>
- Gurtovenko AA, Javanainen M, Lolicato F, Vattulainen I. 2019. The Devil Is in the Details: What Do We Really Track in Single-Particle Tracking Experiments of Diffusion in Biological Membranes?. *Journal of Physical Chemistry Letters*. 10(5):1005-1011. <https://doi.org/10.1021/acs.jpcclett.9b00065>
- Guixà-González R, Albasanz JL, Rodríguez-Espigares I, Pastor M, Sanz F, Martí-Solano M, Manna M, Martínez-Seara H, Hildebrand PW, Martín M, Selent J. 2017. Membrane cholesterol access into a G-protein-coupled receptor. *Nature Communications*. 8. <https://doi.org/10.1038/ncomms14505>
- Guglielmetti S, Santala V, Mangayil R, Ciranna A, Karp MT. 2019. O₂-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>
- Goulet-Hanssens A, Corkery TC, Priimagi A, Barrett CJ. 2014. Effect of head group size on the photoswitching applications of azobenzene Disperse Red 1 analogues. *Journal of Materials Chemistry C*. 2(36):7505-7512. <https://doi.org/10.1039/c4tc00996g>
- Gordon TR, Paik T, Klein DR, Naik GV, Caglayan H, Boltasseva A, Murray CB. 2013. Shape-dependent plasmonic response and directed self-assembly in a new semiconductor building block, indium-doped cadmium oxide (ICO). *Nano Letters*. 13(6):2857-2863. <https://doi.org/10.1021/nl4012003>
- Golovanov V, Golovanova V, Rantala TT. 2016. Thermal desorption of molecular oxygen from SnO₂ (110) surface: Insights from first-principles calculations. *Journal of Physics and Chemistry of Solids*. 89:15-22. <https://doi.org/10.1016/j.jpccs.2015.10.010>
- Golovanov VV, Nazarchuk BV, Golovanova VV, Tkachenko NV, Rantala TT. 2017. Effects of orientation at the phthalocyanine-CdSe interface on the electron transfer characteristics. *Physical Chemistry Chemical Physics*. 19(16):10511-10517. <https://doi.org/10.1039/c7cp00833c>
- Goh J-Q, Malola S, Häkkinen H, Akola J. 2015. Silver sulfide nanoclusters and the superatom model. *Journal of Physical Chemistry C*. 119(3):1583-1590. <https://doi.org/10.1021/jp511037x>
- Goh JQ, Akola J. 2015. Superatom Model for Ag-S Nanocluster with Delocalized Electrons. *Journal of Physical Chemistry C*. 119(36):21165-21172. <https://doi.org/10.1021/acs.jpcc.5b05824>
- Goh J-Q, Akola J, Ferrando R. 2017. Geometric Structure and Chemical Ordering of Large AuCu Clusters: A Computational Study. *Journal of Physical Chemistry C*. 121(20):10809-10816. <https://doi.org/10.1021/acs.jpcc.6b11958>
- 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>
- 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>

- 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>
- Giammarco J, Zdyrko B, Petit L, Musgraves JD, Hu J, Agarwal A, Kimerling L, Richardson K, Luzinov I. 2011. Towards universal enrichment nanocoating for IR-ATR waveguides. *Chemical Communications*. 47(32):9104-9106. <https://doi.org/10.1039/c1cc12780b>
- Giammarco JM, Zdyrko B, Hu J, Agarwal A, Kimerling L, Carlie N, Petit L, Richardson K, Luzinov I. 2011. Enrichment polymer layers for detection of volatile vapors by ATR FT-IR. *ACS National Meeting Book of Abstracts*.
- Ghosh SK, Cherstvy AG, Metzler R. 2015. Non-universal tracer diffusion in crowded media of non-inert obstacles. *Physical Chemistry Chemical Physics*. 17(3):1847-1858. <https://doi.org/10.1039/c4cp03599b>
- Ghorbani M, Dehmer M, Mowshowitz A, Tao J, Emmert-Streib F. 2019. The Hosoya entropy of graphs revisited. *Symmetry*. 11(8). <https://doi.org/10.3390/sym11081013>
- Ghalibaf M, Doddapaneni TRKC, Alén R. 2019. Pyrolytic behavior of lignocellulosic-based polysaccharides. *Journal of Thermal Analysis and Calorimetry*. 137(1):121-131. <https://doi.org/10.1007/s10973-018-7919-y>
- German SJ, Behbahani M, Miettinen S, Grijpma DW, Haimi SP. 2013. Proliferation and differentiation of adipose stem cells towards smooth muscle cells on poly(trimethylene carbonate) membranes. *Macromolecular symposia*. 334(1):133-142. <https://doi.org/10.1002/masy.201300100>
- Gerlofs-Nijland ME, Totlandsdal AI, Tzamkiozis T, Leseman DLAC, Samaras Z, Låg M, Schwarze P, Ntziachristos L, Cassee FR. 2013. Cell toxicity and oxidative potential of engine exhaust particles: Impact of using particulate filter or biodiesel fuel blend. *Environmental Science and Technology*. 47(11):5931-5938. <https://doi.org/10.1021/es305330y>
- 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>
- Gebraad AWH, Miettinen S, Grijpma DW, Haimi SP. 2013. Human adipose stem cells in chondrogenic differentiation medium without growth factors differentiate towards annulus fibrosus phenotype in vitro. *Macromolecular symposia*. 334(1):49-56. <https://doi.org/10.1002/masy.201300104>
- Garifullin M, Sinelnikov A, Bronzova M, Kovacic B, Kamnik R. 2016. Buckling Behavior of Cold-Formed Studs with Thermal Perforations. *MATEC Web of Conferences*. 73. <https://doi.org/10.1051/mateconf/20167304011>
- Garifullin M. 2018. Experimental moment resistance of rectangular hollow section T joints. *MATEC Web of Conferences*. 245. <https://doi.org/10.1051/mateconf/201824508003>
- 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>
- Frochot C, Barberi-Heyob M, Blanchard-Desce M, Bolotine L, Bonneau S, Jimenez CM, Durand JO, Lassalle HP, Lemercier G, Mordon S, Maillard P, Sol V, Vever-Bizet C, Vicendo P. 2015. La thérapie photodynamique: État de l'art et perspectives. *ACTUALITE CHIMIQUE*. (397-398):46-50.
- Franzén R. 2000. The Suzuki, the Heck, and the Stille reaction - Three versatile methods, for the introduction of new C-C bonds on solid support. *Canadian Journal of Chemistry - Revue Canadienne de Chimie*. 78(7):957-962. <https://doi.org/10.1139/v00-089>

