

Rantala T, Väyrynen J, Kumpula R, Aksela S. **Direct measurement of the kinetic energy shift between the molecular and atomic M4.5N4.5N4.5 Auger spectra of iodine.** Chemical Physics Letters. 1979 loka 1;66(2):384-386. [https://doi.org/10.1016/0009-2614\(79\)85040-X](https://doi.org/10.1016/0009-2614(79)85040-X)

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

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

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

Rantala TT, Wästberg B, Rosén A. **Potential energy curves for diatomic molecules calculated with numerical basis functions.** Chemical Physics. 1986 marras 15;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)

Levoska J, Rantala TT, Lenkkeri J. **Numerical simulation of temperature distributions in layered structures during laser processing.** Applied Surface Science. 1989;36(1-4):12-22. [https://doi.org/10.1016/0169-4332\(89\)90895-7](https://doi.org/10.1016/0169-4332(89)90895-7)

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

Milne D, Wilson JIB, Rantala TT, Lenkkeri J. **Morphological and structural changes in laser CVD of silicon: comparison of theoretical temperature calculations with experimental results.** Applied Surface Science. 1989 joulu 2;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)

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

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

Valkealahti S, Manninen M. **Melting of copper clusters.** Computational Materials Science. 1993 tammi 1;1(2):123-134. [https://doi.org/10.1016/0927-0256\(93\)90003-6](https://doi.org/10.1016/0927-0256(93)90003-6)

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

Rantala TT, Jelski DA, George TF. **Si₁₀ and photoabsorption spectra of mid-sized silicon clusters.** Chemical Physics Letters. 1995 tammi 13;232(3):215-220. [https://doi.org/10.1016/0009-2614\(94\)01342-S](https://doi.org/10.1016/0009-2614(94)01342-S)

Franzén R, Kronberg L. **Synthesis of chlorinated 5-hydroxy 4-methyl-2(5H)-furanones and mucochloric acid.** Tetrahedron Letters. 1995 touko 29;36(22):3905-3908. [https://doi.org/10.1016/0040-4039\(95\)00638-S](https://doi.org/10.1016/0040-4039(95)00638-S)

Hyvönen M, Ala-Korpela M, Vaara J, Rantala TT, Jokisaari J. **Effects of two double bonds on the hydrocarbon interior of a phospholipid bilayer.** Chemical Physics Letters. 1995 marras 24;246(3):300-306. [https://doi.org/10.1016/0009-2614\(95\)01113-N](https://doi.org/10.1016/0009-2614(95)01113-N)

Knasmüller S, Zöhrer E, Kronberg L, Kundi M, Franzen R, Schulte-Hermann R. **Mutational spectra of Salmonella typhimurium revertants induced by chlorohydroxyfuranones, byproducts of chlorine disinfection of drinking water.** Chemical Research in Toxicology. 1996;9(2):374-381. <https://doi.org/10.1021/tx9500686>

Rantala TT, Rantala TS, Lantto V, Vaara J. **Surface relaxation of the (1010) face of wurtzite CdS.** Surface Science. 1996 touko 15;352-354:77-82. [https://doi.org/10.1016/0039-6028\(95\)01094-7](https://doi.org/10.1016/0039-6028(95)01094-7)

Rytkönen A, Valkealahti S, Manninen M. **Melting and evaporation of argon clusters.** Journal of Chemical Physics. 1997 helmi 1;106(5):1888-1892. <https://doi.org/10.1063/1.473327>

Lepistö SS, Rintala JA. **Start-up and Operation of Laboratory-Scale Thermophilic Upflow Anaerobic Sludge Blanket Reactors Treating Vegetable Processing Wastewaters.** Journal of Chemical Technology and Biotechnology. 1997 maaliskuu;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)

Hyvönen M, Ala-Korpela M, Vaara J, Rantala TT, Jokisaari J. **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. 1997 huhti 4;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)

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

Franzén R, Morita M, Tanabe K, Takagi H, Shibata Y. **Investigation of the adducts formed by reaction of butenedioic acids with adenosine.** Chemical Research in Toxicology. 1997 loka;10(10):1186-1191. <https://doi.org/10.1021/tx970036d>

Rantala T, Lantto V, Rantala T. **Computational approaches to the chemical sensitivity of semiconducting tin dioxide.** Sensors and Actuators B: Chemical. 1998 tammi 1;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)

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

Rantala TT, Rantala TS, Lantto V. **Surface relaxation of the (110) face of rutile SnO₂.** Surface Science. 1999 tammi 11;420(1):103-109. [https://doi.org/10.1016/S0039-6028\(98\)00833-4](https://doi.org/10.1016/S0039-6028(98)00833-4)

Kaski J, Lantto P, Rantala TT, Schroderus J, Vaara J, Jokisaari J. **Experimental and theoretical study of the spin-spin coupling tensors in methylsilane.** Journal of Physical Chemistry A. 1999 joulu 2;103(48):9669-9677. <https://doi.org/10.1021/jp9920491>

Franzén R. **The Suzuki, the Heck, and the Stille reaction - Three versatile methods, for the introduction of new C-C bonds on solid support.** Canadian Journal of Chemistry - Revue Canadienne de Chimie. 2000;78(7):957-962. <https://doi.org/10.1139/v00-089>

Franzén RG. **Utilization of Grignard reagents in solid-phase synthesis: A review of the literature.** Tetrahedron. 2000 tammi 28;56(5):685-691. [https://doi.org/10.1016/S0040-4020\(99\)00963-1](https://doi.org/10.1016/S0040-4020(99)00963-1)

Tois J, Franzén R, Aitio O, Huikko K, Taskinen J. **Preparation of 5-substituted 2-carboxyindoles on solid support.** Tetrahedron Letters. 2000 huhti 1;41(14):2443-2446. [https://doi.org/10.1016/S0040-4039\(00\)00151-9](https://doi.org/10.1016/S0040-4039(00)00151-9)

Franzén RG. **Recent advances in the preparation of heterocycles on solid support: A review of the literature.** Journal of Combinatorial Chemistry. 2000 touko;2(3):195-214. <https://doi.org/10.1021/cc000002f>

Rantala TS, Rantala TT, Lantto V. **Computational studies for the interpretation of gas response of SnO₂(110) surface.** Sensors and Actuators B: Chemical. 2000 kesä 30;65(1):375-378. [https://doi.org/10.1016/S0925-4005\(99\)00292-0](https://doi.org/10.1016/S0925-4005(99)00292-0)

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

Tois J, Franzén R, Aitio O, Laakso I, Kylänlahti I. **Vilsmeier formylation of 2-carboxyindoles and preparation of O-benzylhydroxyureas on solid phase**. *Journal of Combinatorial Chemistry*. 2001 marras;3(6):542-545. <https://doi.org/10.1021/cc010004f>

Väisänen A, Suontamo R, Rintala J. **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*. 2002;17(3):274-276. <https://doi.org/10.1039/b108543n>

Väisänen A, Suontamo R, Silvonen J, Rintala J. **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*. 2002;373(1-2):93-97. <https://doi.org/10.1007/s00216-002-1290-2>

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

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

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

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

Lahti J, Tuominen M, Penttinen T, Räsänen JP, Kuusipalo J. **The effects of corona and flame treatment: Part 2. PE-HD and PP coated papers**. julkaisussa TAPPI Press - 12th European PLACE Conference 2009. Vuosikerta 1. 2009. s. 278-314

Dehmer M, Varmuza K, Borgert S, Emmert-Streib F. **On entropy-based molecular descriptors: Statistical analysis of real and synthetic chemical structures**. *Journal of Chemical Information and Modeling*. 2009 heinä 27;49(7):1655-1663. <https://doi.org/10.1021/ci900060x>

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

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

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

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

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

Teisala H, Tuominen M, Aromaa M, Mäkelä JM, Stepien M, Saarinen JJ et al. **Nanoparticle deposition on packaging materials by the liquid flame spray.** julkaisussa 13th European PLACE Conference 2011. Vuosikerta 1. 2011

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

Ma L, Jackson KA, Jellinek J. **Site-specific polarizabilities as predictors of favorable adsorption sites on Nan clusters.** Chemical Physics Letters. 2011 helmi 8;503(1-3):80-85. <https://doi.org/10.1016/j.cplett.2010.12.049>

Pluhařová E, Jungwirth P, Bradforth SE, Slavíček P. **Ionization of purine tautomers in nucleobases, nucleosides, and nucleotides: From the gas phase to the aqueous environment.** Journal of Physical Chemistry Part B. 2011 helmi 10;115(5):1294-1305. <https://doi.org/10.1021/jp110388v>

Manna M, Mukhopadhyay C. **Molecular dynamics simulations of the interactions of kinin peptides with an anionic PPG bilayer.** Langmuir. 2011 huhti 5;27(7):3713-3722. <https://doi.org/10.1021/la104046z>

Takahashi H, Maruyama K, Karino Y, Morita A, Nakano M, Jungwirth P et al. **Energetic origin of proton affinity to the air/water interface.** Journal of Physical Chemistry Part B. 2011 huhti 28;115(16):4745-4751. <https://doi.org/10.1021/jp2015676>

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

Das A, Wang DY, Leuteritz A, Subramaniam K, Greenwell HC, Wagenknecht U et al. **Preparation of zinc oxide free, transparent rubber nanocomposites using a layered double hydroxide filler.** Journal of Materials Chemistry. 2011 touko 28;21(20):7194-7200. <https://doi.org/10.1039/c0jm03784b>

Jagoda-Cwiklik B, Cwiklik L, Jungwirth P. **Behavior of the eigen form of hydronium at the air/water interface.** Journal of Physical Chemistry A. 2011 kesä 16;115(23):5881-5886. <https://doi.org/10.1021/jp110078s>

Miller AE, Petersen PB, Hollars CW, Saykally RJ, Heyda J, Jungwirth P. **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. 2011 kesä 16;115(23):5873-5880. <https://doi.org/10.1021/jp110103j>

Kulig W, Kubisiak P, Cwiklik L. **Steric and electronic effects in the host-guest hydrogen bonding in clathrate hydrates.** Journal of Physical Chemistry A. 2011 kesä 16;115(23):6149-6154. <https://doi.org/10.1021/jp111245z>

Liu Y, Minofar B, Desyaterik Y, Dames E, Zhu Z, Cain JP et al. **Internal structure, hygroscopic and reactive properties of mixed sodium methanesulfonate-sodium chloride particles.** Physical Chemistry Chemical Physics. 2011 heinä 7;13(25):11846-11857. <https://doi.org/10.1039/c1cp20444k>

Linko V, Leppiniemi J, Paasonen ST, Hytönen VP, Jussi Toppari J. **Defined-size DNA triple crossover construct for molecular electronics: Modification, positioning and conductance properties.** Nanotechnology. 2011 heinä 8;22(27). 275610. <https://doi.org/10.1088/0957-4484/22/27/275610>

Heyda J, Kožíšek M, Bednářová L, Thompson G, Konvalinka J, Vondrášek J et al. **Urea and guanidinium induced denaturation of a Trp-cage miniprotein.** Journal of Physical Chemistry Part B. 2011 heinä 21;115(28):8910-8924. <https://doi.org/10.1021/jp200790h>

Uusitalo MA, Peltonen J, Ryhänen T. **Machine learning: How it can help nanocomputing**. Journal of Computational and Theoretical Nanoscience. 2011 elo;8(8):1347-1363. <https://doi.org/10.1166/jctn.2011.1821>

Uhlig F, Marsalek O, Jungwirth P. **From a localized H₃O radical to a delocalized H₃O⁺•e⁻ solvent-separated pair by sequential hydration**. Physical Chemistry Chemical Physics. 2011 elo 21;13(31):14003-14009. <https://doi.org/10.1039/c1cp20764d>

Giammarco J, Zdyrko B, Petit L, Musgraves JD, Hu J, Agarwal A et al. **Towards universal enrichment nanocoating for IR-ATR waveguides**. Chemical Communications. 2011 elo 28;47(32):9104-9106. <https://doi.org/10.1039/c1cc12780b>

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

Tian Y, Bova GS, Zhang H. **Quantitative glycoproteomic analysis of optimal cutting temperature-embedded frozen tissues identifying glycoproteins associated with aggressive prostate cancer**. Analytical Chemistry. 2011 syys 15;83(18):7013-7019. <https://doi.org/10.1021/ac200815q>

Heikkinen JJ, Kivimäki L, Määttä JAE, Mäkelä I, Hakalahti L, Takkinen K et al. **Versatile bio-ink for covalent immobilization of chimeric avidin on sol-gel substrates**. Colloids and Surfaces B: Biointerfaces. 2011 loka 15;87(2):409-414. <https://doi.org/10.1016/j.colsurfb.2011.05.052>

Vazdar M, Vymětal J, Heyda J, Vondrášek J, Jungwirth P. **Like-charge guanidinium pairing from molecular dynamics and ab initio calculations**. Journal of Physical Chemistry A. 2011 loka 20;115(41):11193-11201. <https://doi.org/10.1021/jp203519p>

Vapaavuori J, Valtavirta V, Alasaarela T, Mamiya JI, Priimagi A, Shishido A et al. **Efficient surface structuring and photoalignment of supramolecular polymer-azobenzene complexes through rational chromophore design**. Journal of Materials Chemistry. 2011 loka 21;21(39):15437-15441. <https://doi.org/10.1039/c1jm12642c>

Lis M, Wizert A, Przybylo M, Langner M, Swiatek J, Jungwirth P et al. **The effect of lipid oxidation on the water permeability of phospholipids bilayers**. Physical Chemistry Chemical Physics. 2011 loka 21;13(39):17555-17563. <https://doi.org/10.1039/c1cp21009b>

Wernersson E, Heyda J, Vazdar M, Lund M, Mason PE, Jungwirth P. **Orientational dependence of the affinity of guanidinium ions to the water surface**. Journal of Physical Chemistry Part B. 2011 marras 3;115(43):12521-12526. <https://doi.org/10.1021/jp207499s>

Li Y, Tao SC, Bova GS, Liu AY, Chan DW, Zhu H et al. **Detection and verification of glycosylation patterns of glycoproteins from clinical specimens using lectin microarrays and lectin-based immunosorbent assays**. Analytical Chemistry. 2011 marras 15;83(22):8509-8516. <https://doi.org/10.1021/ac201452f>

Gladich I, Pfalzgraff W, Maršálek O, Jungwirth P, Roeselová M, Neshyba S. **Arrhenius analysis of anisotropic surface self-diffusion on the prismatic facet of ice**. Physical Chemistry Chemical Physics. 2011 marras 28;13(44):19960-19969. <https://doi.org/10.1039/c1cp22238d>

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

Manna M, Mukhopadhyay C. **Cholesterol driven alteration of the conformation and dynamics of phospholamban in model membranes**. Physical Chemistry Chemical Physics. 2011 joulu 7;13(45):20188-20198. <https://doi.org/10.1039/c1cp21793c>

Härkönen HH, Mattsson JM, Määttä JAE, Stenman UH, Koistinen H, Matero S et al. **The Discovery of Compounds That Stimulate the Activity of Kallikrein-Related Peptidase3 (KLK3)**. CHEMMEDCHEM. 2011 joulukuu 9;6(12):2170-2178. <https://doi.org/10.1002/cmdc.201100349>

Marsalek O, Elles CG, Pieniazek PA, Pluhaov E, Vandevondele J, Bradforth SE et al. **Chasing charge localization and chemical reactivity following photoionization in liquid water**. Journal of Chemical Physics. 2011 joulukuu 14;135(22). 224510. <https://doi.org/10.1063/1.3664746>

Tevyashova AN, Shtil AA, Olsufyeva EN, Luzikov YN, Reznikova MI, Dezhenkova LG et al. **Modification of olivomycin A at the side chain of the aglycon yields the derivative with perspective antitumor characteristics**. BIOORGANIC AND MEDICINAL CHEMISTRY. 2011 joulukuu 15;19(24):7387-7393. <https://doi.org/10.1016/j.bmc.2011.10.055>

Valtakari D, Bollström R, Tuominen M, Teisala H, Aromaa M, Toivakka M et al. **Conductive layers on surface modified natural fibre based substrates for printed functionality**. julkaisussa AIChE 2012 - 2012 AIChE Annual Meeting, Conference Proceedings. 2012

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

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

Marsalek O, Uhlig F, Vandevondele J, Jungwirth P. **Structure, dynamics, and reactivity of hydrated electrons by Ab initio molecular dynamics**. Accounts of Chemical Research. 2012 tammi 17;45(1):23-32. <https://doi.org/10.1021/ar200062m>

Koskela JE, Vapaavuori J, Hautala J, Priimagi A, Faul CFJ, Kaivola M et al. **Surface-relief gratings and stable birefringence inscribed using light of broad spectral range in supramolecular polymer-bisazobenzene complexes**. Journal of Physical Chemistry C. 2012 tammi 26;116(3):2363-2370. <https://doi.org/10.1021/jp210706n>

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

Das A, George JJ, Kutlu B, Leuteritz A, Wang DY, Rooj S et al. **A novel thermotropic elastomer based on highly-filled LDH-SSB composites**. Macromolecular Rapid Communications. 2012 helmi 27;33(4):337-342. <https://doi.org/10.1002/marc.201100735>

Stradomska A, Kulig W, Slawik M, Petelenz P. **Excited-state polarizability in crystalline sexithiophene: Charge-transfer and vibronic effects**. Chemical Physics Letters. 2012 maaliskuu 9;529:27-30. <https://doi.org/10.1016/j.cplett.2012.01.038>

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

Wang DY, Das A, Leuteritz A, Mahaling RN, Jehnichen D, Wagenknecht U et al. **Structural characteristics and flammability of fire retarding EPDM/layered double hydroxide (LDH) nanocomposites**. RSC Advances. 2012 huhtikuu 21;2(9):3927-3933. <https://doi.org/10.1039/c2ra20189e>

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

Vazdar M, Jurkiewicz P, Hof M, Jungwirth P, Cwiklik L. **Behavior of 4-hydroxynonenal in phospholipid membranes.** Journal of Physical Chemistry Part B. 2012 kesä 7;116(22):6411-6415. <https://doi.org/10.1021/jp3044219>

Priimagi A, Cavallo G, Forni A, Gorynsztejn-Leben M, Kaivola M, Metrangolo P et al. **Halogen bonding versus hydrogen bonding in driving self-assembly and performance of light-responsive supramolecular polymers.** Advanced Functional Materials. 2012 kesä 20;22(12):2572-2579. <https://doi.org/10.1002/adfm.201200135>

Rembert KB, Paterová J, Heyda J, Hilty C, Jungwirth P, Cremer PS. **Molecular mechanisms of ion-specific effects on proteins.** Journal of the American Chemical Society. 2012 kesä 20;134(24):10039-10046. <https://doi.org/10.1021/ja301297g>

Mason PE, Wernersson E, Jungwirth P. **Accurate description of aqueous carbonate ions: An effective polarization model verified by neutron scattering.** Journal of Physical Chemistry Part B. 2012 heinä 19;116(28):8145-8153. <https://doi.org/10.1021/jp3008267>

Serak SV, Tabiryann NV, Assanto G. **Nematicons in azobenzene liquid crystals.** Molecular Crystals and Liquid Crystals. 2012 heinä 19;559:202-213. <https://doi.org/10.1080/15421406.2012.658710>

Kousoulidou M, Ntziachristos L, Fontaras G, Martini G, Dilara P, Samaras Z. **Impact of biodiesel application at various blending ratios on passenger cars of different fueling technologies.** Fuel. 2012 elo;98:88-94. <https://doi.org/10.1016/j.fuel.2012.03.038>

Pegado L, Marsalek O, Jungwirth P, Wernersson E. **Solvation and ion-pairing properties of the aqueous sulfate anion: Explicit versus effective electronic polarization.** Physical Chemistry Chemical Physics. 2012 elo 7;14(29):10248-10257. <https://doi.org/10.1039/c2cp40711f>

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

Bardhan JP, Jungwirth P, Makowski L. **Affine-response model of molecular solvation of ions: Accurate predictions of asymmetric charging free energies.** Journal of Chemical Physics. 2012 syys 28;137(12). 124101. <https://doi.org/10.1063/1.4752735>

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

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

Khan MN, Tjong V, Chilkoti A, Zharnikov M. **Fabrication of ssDNA/oligo(ethylene glycol) monolayers and complex nanostructures by an irradiation-promoted exchange reaction.** Angewandte Chemie (International Edition). 2012 loka 8;51(41):10303-10306. <https://doi.org/10.1002/anie.201204245>

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

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

Lisitsyna ES, Lygo ON, Durandin NA, Dement'eva OV, Rudoi VM, Kuzmin VA. **Superquenching of SYBRGreen dye fluorescence in complex with DNA by gold nanoparticles.** HIGH ENERGY CHEMISTRY. 2012 marras;46(6):363-367. <https://doi.org/10.1134/S0018143912060057>

Pluhařová E, Ončák M, Seidel R, Schroeder C, Schroeder W, Winter B et al. **Transforming anion instability into stability: Contrasting photoionization of three protonation forms of the phosphate ion upon moving into water.** Journal of Physical Chemistry Part B. 2012 marras 8;116(44):13254-13264. <https://doi.org/10.1021/jp306348b>

Ma L, Wang J, Wang G. **Search for global minimum geometries of medium sized Cd_nTe_n clusters (n = 15, 16, 20, 24 and 28).** Chemical Physics Letters. 2012 marras 12;552:73-77. <https://doi.org/10.1016/j.cplett.2012.09.036>

Pluhařová E, Marsalek O, Schmidt B, Jungwirth P. **Peptide salt bridge stability: From gas phase via microhydration to bulk water simulations.** Journal of Chemical Physics. 2012 marras 14;137(18). 185101. <https://doi.org/10.1063/1.4765052>

Buchholz M, Goletz CM, Grossmann F, Schmidt B, Heyda J, Jungwirth P. **Semiclassical hybrid approach to condensed phase molecular dynamics: Application to the I₂Kr₁₇ cluster.** Journal of Physical Chemistry A. 2012 marras 26;116(46):11199-11210. <https://doi.org/10.1021/jp305084f>

Mubarakali D, Praveenkumar R, Shenbagavalli T, Mari Nivetha T, Parveez Ahamed A, Al-Dhabi NA et al. **New reports on anti-bacterial and anti-candidal activities of fatty acid methyl esters (FAME) obtained from Scenedesmus bijugatus var. bicellularis biomass.** RSC Advances. 2012 marras 28;2(30):11552-11556. <https://doi.org/10.1039/c2ra21130k>

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

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

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

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

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

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

Subramaniam K, Das A, Simon F, Heinrich G. **Networking of ionic liquid modified CNTs in SSBR.** European Polymer Journal. 2013 helmi;49(2):345-352. <https://doi.org/10.1016/j.eurpolymj.2012.10.023>

Fafarman AT, Hong SH, Caglayan H, Ye X, Diroll BT, Paik T et al. **Chemically tailored dielectric-to-metal transition for the design of metamaterials from nanoimprinted colloidal nanocrystals.** Nano Letters. 2013 helmi 13;13(2):350-357. <https://doi.org/10.1021/nl303161d>

Vazdar M, Jungwirth P, Mason PE. **Aqueous guanidinium-carbonate interactions by molecular dynamics and neutron scattering: Relevance to ion-protein interactions.** Journal of Physical Chemistry Part B. 2013 helmi 14;117(6):1844-1848. <https://doi.org/10.1021/jp310719g>

Rasappa S, Borah D, Faulkner CC, Lutz T, Shaw MT, Holmes JD et al. **Fabrication of a sub-10 nm silicon nanowire based ethanol sensor using block copolymer lithography.** *Nanotechnology*. 2013 helmi 15;24(6). 065503. <https://doi.org/10.1088/0957-4484/24/6/065503>

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

Borah D, Ozmen M, Rasappa S, Shaw MT, Holmes JD, Morris MA. **Molecularly functionalized silicon substrates for orientation control of the microphase separation of PS-b-PMMA and PS-b-PDMS block copolymer systems.** *Langmuir*. 2013 maaliskuu 5;29(9):2809-2820. <https://doi.org/10.1021/la304140q>

Ma L, Wang J, Wang G. **Site-specific analysis of dipole polarizabilities of heterogeneous systems: Iron-doped Si_n (n = 1-14) clusters.** *Journal of Chemical Physics*. 2013 maaliskuu 7;138(9). 094304. <https://doi.org/10.1063/1.4793276>

Pale V, Nikkonen T, Vapaavuori J, Kostianen M, Kavakka J, Selin J et al. **Biomimetic zinc chlorin-poly(4-vinylpyridine) assemblies: Doping level dependent emission-absorption regimes.** *Journal of Materials Chemistry C*. 2013 maaliskuu 21;1(11):2166-2173. <https://doi.org/10.1039/c3tc00499f>

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

Vapaavuori J, Mahimwalla Z, Chromik RR, Kaivola M, Priimagi A, Barrett CJ. **Nanoindentation study of light-induced softening of supramolecular and covalently functionalized azo polymers.** *Journal of Materials Chemistry C*. 2013 huhtikuu 28;1(16):2806-2810. <https://doi.org/10.1039/c3tc30246f>

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

Bayr S, Kaparaju P, Rintala J. **Screening pretreatment methods to enhance thermophilic anaerobic digestion of pulp and paper mill wastewater treatment secondary sludge.** *Chemical Engineering Journal*. 2013 toukokuu 1;223:479-486. <https://doi.org/10.1016/j.cej.2013.02.119>

McManamon C, Delaney P, Kavanagh C, Wang JJ, Rasappa S, Morris MA. **Depth profiling of PLGA copolymer in a novel biomedical bilayer using confocal raman spectroscopy.** *Langmuir*. 2013 toukokuu 14;29(19):5905-5910. <https://doi.org/10.1021/la400402a>

Pelto JM, Haimi SP, Siljander AS, Miettinen SS, Tappura KM, Higgins MJ et al. **Surface properties and interaction forces of biopolymer-doped conductive polypyrrole surfaces by atomic force microscopy.** *Langmuir*. 2013 toukokuu 21;29(20):6099-6108. <https://doi.org/10.1021/la4009366>

Štěpánková V, Paterová J, Damborský J, Jungwirth P, Chaloupková R, Heyda J. **Cation-specific effects on enzymatic catalysis driven by interactions at the tunnel mouth.** *Journal of Physical Chemistry Part B*. 2013 toukokuu 30;117(21):6394-6402. <https://doi.org/10.1021/jp401506v>

Gerlofs-Nijland ME, Totlandsdal AI, Tzamkiozis T, Leseman DLAC, Samaras Z, Låg M et al. **Cell toxicity and oxidative potential of engine exhaust particles: Impact of using particulate filter or biodiesel fuel blend.** *Environmental Science and Technology*. 2013 kesäkuu 4;47(11):5931-5938. <https://doi.org/10.1021/es305330y>

Gordon TR, Paik T, Klein DR, Naik GV, Caglayan H, Boltasseva A et al. **Shape-dependent plasmonic response and directed self-assembly in a new semiconductor building block, indium-doped cadmium oxide (ICO).** *Nano Letters*. 2013 kesäkuu 12;13(6):2857-2863. <https://doi.org/10.1021/nl4012003>

Diban N, Haimi S, Bolhuis-Versteeg L, Teixeira S, Miettinen S, Poot A et al. **Development and characterization of poly(ϵ -caprolactone) hollow fiber membranes for vascular tissue engineering.** Journal of Membrane Science. 2013 heinä 1;438:29-37. <https://doi.org/10.1016/j.memsci.2013.03.024>

Stumpel JE, Liu D, Broer DJ, Schenning APHJ. **Photoswitchable hydrogel surface topographies by polymerisation-induced diffusion.** Chemistry: A European Journal. 2013 heinä 2;19(33):10922-10927. <https://doi.org/10.1002/chem.201300852>

Paterová J, Rembert KB, Heyda J, Kurra Y, Okur HI, Liu WR et al. **Reversal of the Hofmeister series: Specific ion effects on peptides.** Journal of Physical Chemistry Part B. 2013 heinä 11;117(27):8150-8158. <https://doi.org/10.1021/jp405683s>

Borah D, Rasappa S, Sentharamaikkannan R, Holmes JD, Morris MA. **Tuning PDMS brush chemistry by UV-O₃ exposure for PS-b-PDMS microphase separation and directed self-assembly.** Langmuir. 2013 heinä 16;29(28):8959-8968. <https://doi.org/10.1021/la401561k>

Khan MN, Zharnikov M. **Irradiation promoted exchange reaction with disulfide substituents.** Journal of Physical Chemistry C. 2013 heinä 18;117(28):14534-14543. <https://doi.org/10.1021/jp4006026>

Stirnemann G, Wernersson E, Jungwirth P, Laage D. **Mechanisms of acceleration and retardation of water dynamics by ions.** Journal of the American Chemical Society. 2013 elo 14;135(32):11824-11831. <https://doi.org/10.1021/ja405201s>

Khan MN, Tjong V, Chilkoti A, Zharnikov M. **Spectroscopic study of a DNA brush synthesized in situ by surface initiated enzymatic polymerization.** Journal of Physical Chemistry Part B. 2013 elo 29;117(34):9929-9938. <https://doi.org/10.1021/jp404774x>

Laitaoja M, Valjakka J, Jänis J. **Zinc coordination spheres in protein structures.** Inorganic Chemistry. 2013 loka 7;52(19):10983-10991. <https://doi.org/10.1021/ic401072d>

Sterpone F, Nguyen PH, Kalimeri M, Derreumaux P. **Importance of the ion-pair interactions in the OPEP coarse-grained force field: Parametrization and validation.** Journal of Chemical Theory and Computation. 2013 loka 8;9(10):4574-4584. <https://doi.org/10.1021/ct4003493>

Pollheimer P, Taskinen B, Scherfler A, Gusenkov S, Creus M, Wiesauer P et al. **Reversible biofunctionalization of surfaces with a switchable mutant of avidin.** Bioconjugate Chemistry. 2013 loka 16;24(10):1656-1668. <https://doi.org/10.1021/bc400087e>

Niskanen M, Kuisma M, Cramariuc O, Golovanov V, Hukka TI, Tkachenko N et al. **Porphyrin adsorbed on the (1010) surface of the wurtzite structure of ZnO-conformation induced effects on the electron transfer characteristics.** Physical Chemistry Chemical Physics. 2013 loka 28;15(40):17408-17418. <https://doi.org/10.1039/c3cp51685g>

Uhlig F, Jungwirth P. **Embedded cluster models for reactivity of the hydrated electron.** ZEITSCHRIFT FÜR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY AND CHEMICAL PHYSICS. 2013 marras;227(11):1583-1593. <https://doi.org/10.1524/zpch.2013.0402>

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

Kalimeri M, Rahaman O, Melchionna S, Sterpone F. **How conformational flexibility stabilizes the hyperthermophilic elongation factor G-domain.** Journal of Physical Chemistry Part B. 2013 marras 7;117(44):13775-13785. <https://doi.org/10.1021/jp407078z>

- Priimagi A, Cavallo G, Metrangolo P, Resnati G. **The Halogen Bond in the Design of Functional Supramolecular Materials: Recent Advances**. *Accounts of Chemical Research*. 2013 marras 19;46(11):2686-2695. <https://doi.org/10.1021/ar400103r>
- Pluhařová E, Mason PE, Jungwirth P. **Ion pairing in aqueous lithium salt solutions with monovalent and divalent counter-anions**. *Journal of Physical Chemistry A*. 2013 marras 21;117(46):11766-11773. <https://doi.org/10.1021/jp402532e>
- Hladilkova J, Prokop Z, Chaloupkova R, Damborsky J, Jungwirth P. **Release of halide ions from the buried active site of the haloalkane dehalogenase LinB revealed by stopped-flow fluorescence analysis and free energy calculations**. *Journal of Physical Chemistry Part B*. 2013 marras 21;117(46):14329-14335. <https://doi.org/10.1021/jp409040u>
- Khan MN, Zharnikov M. **Fabrication of ssDNA/Oligo(ethylene glycol) monolayers and patterns by exchange reaction promoted by ultraviolet light irradiation**. *Journal of Physical Chemistry C*. 2013 marras 27;117(47):24883-24893. <https://doi.org/10.1021/jp408819k>
- Diban N, Haimi SP, Bolhuis-Versteeg L, Teixeira S, Miettinen S, Poot AA et al. **Effect of surface morphology of poly(μ -caprolactone) scaffolds on adipose stem cell adhesion and proliferation**. *Macromolecular symposia*. 2013 joulu;334(1):126-132. <https://doi.org/10.1002/masy.201300106>
- Gebraad AWH, Miettinen S, Grijpma DW, Haimi SP. **Human adipose stem cells in chondrogenic differentiation medium without growth factors differentiate towards annulus fibrosus phenotype in vitro**. *Macromolecular symposia*. 2013 joulu;334(1):49-56. <https://doi.org/10.1002/masy.201300104>
- German SJ, Behbahani M, Miettinen S, Grijpma DW, Haimi SP. **Proliferation and differentiation of adipose stem cells towards smooth muscle cells on poly(trimethylene carbonate) membranes**. *Macromolecular symposia*. 2013 joulu;334(1):133-142. <https://doi.org/10.1002/masy.201300100>
- Le HH, Oßwald K, Wießner S, Das A, Stöckelhuber KW, Boldt R et al. **Location of dispersing agent in rubber nanocomposites during mixing process**. *Polymer*. 2013 joulu 13;54(26):7009-7021. <https://doi.org/10.1016/j.polymer.2013.10.038>
- Häkkinen MR, Roine A, Auriola S, Tuokko A, Veskimäe E, Keinänen TA et al. **Analysis of free, mono- and diacetylated polyamines from human urine by LC-MS/MS**. *JOURNAL OF CHROMATOGRAPHY B: ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES*. 2013 joulu 15;941:81-89. <https://doi.org/10.1016/j.jchromb.2013.10.009>
- Cummins C, Borah D, Rasappa S, Chaudhari A, Ghoshal T, O'Driscoll BMD et al. **Self-assembly of polystyrene-block-poly(4-vinylpyridine) block copolymer on molecularly functionalized silicon substrates: Fabrication of inorganic nanostructured etchmask for lithographic use**. *Journal of Materials Chemistry C*. 2013 joulu 21;1(47):7941-7951. <https://doi.org/10.1039/c3tc31498g>
- Wang J, Ray AK. **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*. 2014;11(7):1710-1717. <https://doi.org/10.1166/jctn.2014.3555>
- Enkavi G, Li J, Wen P, Thangapandian S, Moradi M, Jiang T et al. **A microscopic view of the mechanisms of active transport across the cellular membrane**. *Annual Reports in Computational Chemistry*. 2014;10:77-125. <https://doi.org/10.1016/B978-0-444-63378-1.00004-5>
- Savolainen J, Uhlig F, Ahmed S, Hamm P, Jungwirth P. **Direct observation of the collapse of the delocalized excess electron in water**. *Nature Chemistry*. 2014;6(8):697-701. <https://doi.org/10.1038/nchem.1995>
- Le HH, Parsekar M, Ilisch S, Henning S, Das A, Stöckelhuber KW et al. **Effect of non-rubber components of NR on the carbon nanotube (CNT) localization in SBR/NR blends**. *Macromolecular Materials and Engineering*. 2014;299(5):569-582. <https://doi.org/10.1002/mame.201300254>

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

Lahti J, Johansson P, Lahtinen K, Cameron DC, Seppänen T. **Improving the effect of nanoscale barrier coating on BOPP film properties: Influence of substrate contamination, web handling and pretreatments.** julkaisussa TAPPI PLACE Conference 2014. Vuosikerta 2. TAPPI Press. 2014. s. 1039-1061

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

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

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

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

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

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

Oksala NKJ, Ekmekçi FG, Özsoy E, Kirankaya Ş, Kokkola T, Emecen G et al. **Natural thermal adaptation increases heat shock protein levels and decreases oxidative stress.** REDOX BIOLOGY. 2014 tammi 1;3:25-28. <https://doi.org/10.1016/j.redox.2014.10.003>

Kulig W, Agmon N. **Both zundel and eigen isomers contribute to the IR spectrum of the gas-phase H9O4 + cluster.** Journal of Physical Chemistry Part B. 2014 tammi 9;118(1):278-286. <https://doi.org/10.1021/jp410446d>

Priimagi A, Shevchenko A. **Azopolymer-based micro- and nanopatterning for photonic applications.** Journal of Polymer Science. Part B, Polymer Physics. 2014 helmi 1;52(3):163-182. <https://doi.org/10.1002/polb.23390>

Khan MN, Zharnikov M. **Fabrication of ssDNA/oligo(ethylene glycol) monolayers by promoted exchange reaction with thiol and disulfide substituents.** Journal of Physical Chemistry C. 2014 helmi 13;118(6):3093-3101. <https://doi.org/10.1021/jp411353f>

Kulig W, Agmon N. **Deciphering the infrared spectrum of the protonated water pentamer and the hybrid Eigen-Zundel cation.** Physical Chemistry Chemical Physics. 2014 maaliskuuta 14;16(10):4933-4941. <https://doi.org/10.1039/c3cp54029d>

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

Kuzmin MG, Soboleva IV, Durandin NA, Lisitsyna ES, Kuzmin VA. **Microphase mechanism of "superquenching" of luminescent probes in aqueous solutions of DNA and some other polyelectrolytes.** Journal of Physical Chemistry Part B. 2014 huhti 17;118(15):4245-4252. <https://doi.org/10.1021/jp500713q>

Koskela JE, Liljeström V, Lim J, Simanek EE, Ras RHA, Priimagi A et al. **Light-fuelled transport of large dendrimers and proteins.** Journal of the American Chemical Society. 2014 touko 14;136(19):6850-6853. <https://doi.org/10.1021/ja502623m>

Raghuwanshi S, Deswal D, Karp M, Kuhad RC. **Bioprocessing of enhanced cellulase production from a mutant of Trichoderma asperellum RCK2011 and its application in hydrolysis of cellulose.** Fuel. 2014 touko 15;124:183-189. <https://doi.org/10.1016/j.fuel.2014.01.107>

Pluhařová E, Fischer HE, Mason PE, Jungwirth P. **Hydration of the chloride ion in concentrated aqueous solutions using neutron scattering and molecular dynamics.** Molecular Physics. 2014 touko 19;112(9-10):1230-1240. <https://doi.org/10.1080/00268976.2013.875231>

Mahmood N, Khan AU, Stöckelhuber KW, Das A, Jehnichen D, Heinrich G. **Carbon nanotubes-filled thermoplastic polyurethane-urea and carboxylated acrylonitrile butadiene rubber blend nanocomposites.** Journal of Applied Polymer Science. 2014 kesä 5;131(11). <https://doi.org/10.1002/app.40341>

Werner J, Wernersson E, Ekholm V, Ottosson N, Öhrwall G, Heyda J et al. **Surface behavior of hydrated guanidinium and ammonium ions: A comparative study by photoelectron spectroscopy and molecular dynamics.** Journal of Physical Chemistry Part B. 2014 kesä 26;118(25):7119-7127. <https://doi.org/10.1021/jp500867w>

Kohagen M, Mason PE, Jungwirth P. **Accurate description of calcium solvation in concentrated aqueous solutions.** Journal of Physical Chemistry Part B. 2014 heinä 17;118(28):7902-7909. <https://doi.org/10.1021/jp5005693>

Oksa M, Varis T, Ruusuvoori K. **Performance testing of iron based thermally sprayed HVOF coatings in a biomass-fired fluidised bed boiler.** Surface and Coatings Technology. 2014 heinä 25;251:191-200. <https://doi.org/10.1016/j.surfcoat.2014.04.025>

Kurppa K, Hytönen VP, Nakari-Setälä T, Kulomaa MS, Linder MB. **Molecular engineering of avidin and hydrophobin for functional self-assembling interfaces.** Colloids and Surfaces B: Biointerfaces. 2014 elo 1;120:102-109. <https://doi.org/10.1016/j.colsurfb.2014.05.010>

Kapgate BP, Das C, Basu D, Das A, Heinrich G, Reuter U. **Effect of silane integrated sol-gel derived in situ silica on the properties of nitrile rubber.** Journal of Applied Polymer Science. 2014 elo 5;131(15). 40531. <https://doi.org/10.1002/app.40531>

Le HH, Abhijeet S, Ilisch S, Klehm J, Henning S, Beiner M et al. **The role of linked phospholipids in the rubber-filler interaction in carbon nanotube (CNT) filled natural rubber (NR) composites.** Polymer. 2014 syys 2;55(18):4738-4747. <https://doi.org/10.1016/j.polymer.2014.07.043>

Uhlig F, Herbert JM, Coons MP, Jungwirth P. **Optical spectroscopy of the bulk and interfacial hydrated electron from ab initio calculations.** Journal of Physical Chemistry A. 2014 syys 4;118(35):7507-7515. <https://doi.org/10.1021/jp5004243>

Priimagi A, Barrett CJ, Shishido A. **Recent twists in photoactuation and photoalignment control.** Journal of Materials Chemistry C. 2014 syys 21;2(35):7155-7162. <https://doi.org/10.1039/c4tc01236d>

Wang J, Ma L, Liang Y, Gao M, Wang G. **Density functional theory study of transition metals doped B₈₀ fullerene.** Journal of Theoretical and Computational Chemistry. 2014 syys 22;13(6). 1450050. <https://doi.org/10.1142/S0219633614500503>

Salunke JK, Sonar P, Wong FL, Roy VAL, Lee CS, Wadgaonkar PP. **Pyrene based conjugated materials: Synthesis, characterization and electroluminescent properties.** Physical Chemistry Chemical Physics. 2014 syys 26;16(42):23320-23328. <https://doi.org/10.1039/c4cp03693j>

Goulet-Hanssens A, Corkery TC, Priimagi A, Barrett CJ. **Effect of head group size on the photoswitching applications of azobenzene Disperse Red 1 analogues.** Journal of Materials Chemistry C. 2014 syys 28;2(36):7505-7512. <https://doi.org/10.1039/c4tc00996g>

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

Deng Y, Alicea-Velázquez NL, Bannwarth L, Lehtonen SI, Boggon TJ, Cheng HC et al. **Global analysis of human nonreceptor tyrosine kinase specificity using high-density peptide microarrays.** Journal of Proteome Research. 2014 loka 3;13(10):4339-4346. <https://doi.org/10.1021/pr500503q>

Amanatidis S, Ntziachristos L, Giechaskiel B, Bergmann A, Samaras Z. **Impact of selective catalytic reduction on exhaust particle formation over excess ammonia events.** Environmental Science and Technology. 2014 loka 7;48(19):11527-11534. <https://doi.org/10.1021/es502895v>

Wang X, Vapaavuori J, Zhao Y, Bazuin CG. **A supramolecular approach to photoresponsive thermo/solvoplastic block copolymer elastomers.** Macromolecules. 2014 loka 28;47(20):7099-7108. <https://doi.org/10.1021/ma501278b>

Mohanty AK, Ghosh A, Sawai P, Pareek K, Banerjee S, Das A et al. **Electromagnetic interference shielding effectiveness of MWCNT filled poly(ether sulfone) and poly(ether imide) nanocomposites.** Polymer Engineering and Science. 2014 marras 1;54(11):2560-2570. <https://doi.org/10.1002/pen.23804>

Tawade BV, Salunke JK, Sane PS, Wadgaonkar PP. **Processable aromatic polyesters based on bisphenol derived from cashew nut shell liquid: synthesis and characterization.** JOURNAL OF POLYMER RESEARCH. 2014 marras 18;21(12). <https://doi.org/10.1007/s10965-014-0617-y>

Lemmetyinen H, Tkachenko NV, Valeur B, Hotta JI, Ameloot M, Ernsting NP et al. **Time-resolved fluorescence methods (IUPAC technical report).** Pure and Applied Chemistry. 2014 joulu 1;86(12):1969-1998. <https://doi.org/10.1515/pac-2013-0912>

Palivec V, Pluharová E, Unger I, Winter B, Jungwirth P. **DNA lesion can facilitate base ionization: Vertical ionization energies of aqueous 8-oxoguanine and its nucleoside and nucleotide.** Journal of Physical Chemistry Part B. 2014 joulu 4;118(48):13833-13837. <https://doi.org/10.1021/jp5111086>

Taskinen B, Zauner D, Lehtonen SI, Koskinen M, Thomson C, Kähkönen N et al. **Switchavidin: Reversible biotin-avidin-biotin bridges with high affinity and specificity.** Bioconjugate Chemistry. 2014 joulu 17;25(12):2233-2243. <https://doi.org/10.1021/bc500462w>

Stumpel JE, Broer DJ, Schenning APHJ. **Stimuli-responsive photonic polymer coatings.** Chemical Communications. 2014 joulu 28;50(100):15839-15848. <https://doi.org/10.1039/c4cc05072j>

Molnar W, Nugent S, Lindroos M, Apostol M, Varga M. **Ballistic and numerical simulation of impacting goods on conveyor belt rubber.** Polymer Testing. 2015;42:1-7. <https://doi.org/10.1016/j.polymertesting.2014.12.001>

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

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

Di Capua F, Papirio S, Lens PNL, Esposito G. **Chemolithotrophic denitrification in biofilm reactors**. Chemical Engineering Journal. 2015;280:643-657. <https://doi.org/10.1016/j.cej.2015.05.131>

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

Mardoukhi Y, Jeon J-H, Metzler R. **Geometry controlled anomalous diffusion in random fractal geometries: Looking beyond the infinite cluster**. Physical Chemistry Chemical Physics. 2015;17(44):30134-30147. <https://doi.org/10.1039/c5cp03548a>

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

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

Stumpel JE, Gil ER, Spoelstra AB, Bastiaansen CWM, Broer DJ, Schenning APHJ. **Stimuli-Responsive Materials Based on Interpenetrating Polymer Liquid Crystal Hydrogels**. Advanced Functional Materials. 2015;25(22):3314-3320. <https://doi.org/10.1002/adfm.201500745>

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

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

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

Stumpel JE, Broer DJ, Schenning APHJ. **Water-responsive dual-coloured photonic polymer coatings based on cholesteric liquid crystals**. RSC Advances. 2015;5(115):94650-94653. <https://doi.org/10.1039/c5ra18017a>

Nazir R, Bourquard F, Balčiūnas E, Smoleń S, Gray D, Tkachenko NV et al. **π -Expanded α,β -unsaturated ketones: Synthesis, optical properties, and two-photon-induced polymerization**. ChemPhysChem. 2015;16(3):682-690. <https://doi.org/10.1002/cphc.201402646>

Mettänen M, Hirn U. **A comparison of five optical surface topography measurement methods**. TAPPI Journal. 2015 tammi 1;14(1):27-38.

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

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

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

Khan M, Yang J, Shi C, Feng Y, Zhang W, Gibney K et al. **Manipulation of polycarbonate urethane bulk properties via incorporated zwitterionic polynorbornene for tissue engineering application.** RSC Advances. 2015 tammi 6;5(15):11284-11292. <https://doi.org/10.1039/C4RA14608E>

Schroeder CA, Pluharová E, Seidel R, Schroeder WP, Faubel M, Slaviček P et al. **Oxidation half-reaction of aqueous nucleosides and nucleotides via photoelectron spectroscopy augmented by ab initio calculations.** Journal of the American Chemical Society. 2015 tammi 14;137(1):201-209. <https://doi.org/10.1021/ja508149e>

Czaplicki R, Mäkitalo J, Siikanen R, Husu H, Lehtolahti J, Kuittinen M et al. **Second-Harmonic Generation from Metal Nanoparticles: Resonance Enhancement versus Particle Geometry.** Nano Letters. 2015 tammi 14;15(1):530-534. <https://doi.org/10.1021/nl503901e>

Shin J, Cherstvy AG, Metzler R. **Kinetics of polymer looping with macromolecular crowding: Effects of volume fraction and crowder size.** Soft Matter. 2015 tammi 21;11(3):472-488. <https://doi.org/10.1039/c4sm02007c>

Ghosh SK, Cherstvy AG, Metzler R. **Non-universal tracer diffusion in crowded media of non-inert obstacles.** Physical Chemistry Chemical Physics. 2015 tammi 21;17(3):1847-1858. <https://doi.org/10.1039/c4cp03599b>

Li Z, Le T, Wu Z, Yao Y, Li L, Tentzeris M et al. **Rational design of a printable, highly conductive silicone-based electrically conductive adhesive for stretchable radio-frequency antennas.** Advanced Functional Materials. 2015 tammi 21;25(3):464-470. <https://doi.org/10.1002/adfm.201403275>

Goh J-Q, Malola S, Häkkinen H, Akola J. **Silver sulfide nanoclusters and the superatom model.** Journal of Physical Chemistry C. 2015 tammi 22;119(3):1583-1590. <https://doi.org/10.1021/jp511037x>

Saccone M, Dichiarante V, Forni A, Goulet-Hanssens A, Cavallo G, Vapaavuori J et al. **Supramolecular hierarchy among halogen and hydrogen bond donors in light-induced surface patterning.** Journal of Materials Chemistry C. 2015 tammi 28;3:759-768. <https://doi.org/10.1039/c4tc02315c>

Fatarelle E, Mylläri V, Ruzzante M, Pogni R, Baratto MC, Skrifvars M et al. **Sulfonated polyetheretherketone/polypropylene polymer blends for the production of photoactive materials.** Journal of Applied Polymer Science. 2015 helmi 1;132(8). 41509. <https://doi.org/10.1002/app.41509>

Bautista G, Mäkitalo J, Chen Y, Dhaka V, Grasso M, Karvonen L et al. **Second-harmonic generation imaging of semiconductor nanowires with focused vector beams.** Nano Letters. 2015 helmi 6;15(3):1564-1569. <https://doi.org/10.1021/nl503984b>

Beyeh NK, Pan F, Valkonen A, Rissanen K. **Encapsulation of secondary and tertiary ammonium salts by resorcinarenes and pyrogallarenes: The effect of size and charge concentration.** CrystEngComm. 2015 helmi 7;17(5):1182-1188. <https://doi.org/10.1039/c4ce01927j>

Ray S, Steven RT, Green FM, Höök F, Taskinen B, Hytönen VP et al. **Neutralized chimeric avidin binding at a reference biosensor surface.** Langmuir. 2015 helmi 17;31(6):1921-1930. <https://doi.org/10.1021/la503213f>

Shin J, Cherstvy AG, Metzler R. **Polymer looping is controlled by macromolecular crowding, spatial confinement, and chain stiffness.** ACS Macro Letters. 2015 helmi 17;4(2):202-206. <https://doi.org/10.1021/mz500709w>

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

Eshwaran SB, Basu D, Vaikuntam SR, Kutlu B, Wiessner S, Das A et al. **Exploring the role of stearic acid in modified zinc aluminum layered double hydroxides and their acrylonitrile butadiene rubber nanocomposites.** Journal of Applied Polymer Science. 2015 maaliskuu 1;132(9). 41539. <https://doi.org/10.1002/app.41539>

Lolicato F, Raudino A, Milardi D, La Rosa C. **Resveratrol interferes with the aggregation of membrane-bound human-IAPP: A molecular dynamics study.** European Journal of Medicinal Chemistry. 2015 maaliskuu 6;92:876-881. <https://doi.org/10.1016/j.ejmech.2015.01.047>

Figueira J, Czardybon W, Mesquita JC, Rodrigues J, Lahoz F, Russo L et al. **Synthesis, characterization and solid-state photoluminescence studies of six alkoxy phenylene ethynylene dinuclear palladium(ii) rods.** DALTON TRANSACTIONS. 2015 maaliskuu 7;44(9):4003-4015. <https://doi.org/10.1039/c4dt00493k>

Wikström M, Sharma V, Kaila VRI, Hosler JP, Hummer G. **New perspectives on proton pumping in cellular respiration.** Chemical Reviews. 2015 maaliskuu 11;115(5):2196-2221. <https://doi.org/10.1021/cr500448t>

Ma L, Melander M, Laasonen K, Akola J. **CO oxidation catalyzed by neutral and anionic Cu₂₀ clusters: Relationship between charge and activity.** Physical Chemistry Chemical Physics. 2015 maaliskuu 14;17(10):7067-7076. <https://doi.org/10.1039/c5cp00365b>

Tuominen M, Yasir M, Lång J, Dahl J, Kuzmin M, Mäkelä J et al. **Oxidation of the GaAs semiconductor at the Al₂O₃/GaAs junction.** Physical Chemistry Chemical Physics. 2015 maaliskuu 14;17(10):7060-7066. <https://doi.org/10.1039/c4cp05972g>

Varis T, Bankiewicz D, Yrjas P, Oksa M, Suhonen T, Tuurna S et al. **High temperature corrosion of thermally sprayed NiCr and FeCr coatings covered with a KCl-K₂SO₄ salt mixture.** Surface and Coatings Technology. 2015 maaliskuu 15;265:235-243. <https://doi.org/10.1016/j.surfcoat.2014.11.012>

Bolelli G, Berger LM, Börner T, Koivuluoto H, Lusvarghi L, Lyphout C et al. **Tribology of HVOF- and HVAF-sprayed WC-10Co4Cr hardmetal coatings: A comparative assessment.** Surface and Coatings Technology. 2015 maaliskuu 15;265:125-144. <https://doi.org/10.1016/j.surfcoat.2015.01.048>

Pirjola L, Karjalainen P, Heikkilä J, Saari S, Tzamkiozis T, Ntziachristos L et al. **Effects of fresh lubricant oils on particle emissions emitted by a modern gasoline direct injection passenger car.** Environmental Science and Technology. 2015 maaliskuu 17;49(6):3644-3652. <https://doi.org/10.1021/es505109u>

Saarikoski E, Rissanen M, Seppälä J. **Effect of rheological properties of dissolved cellulose/microfibrillated cellulose blend suspensions on film forming.** Carbohydrate Polymers. 2015 maaliskuu 30;119:62-70. <https://doi.org/10.1016/j.carbpol.2014.11.033>

Karilainen T, Timr Š, Vattulainen I, Jungwirth P. **Oxidation of cholesterol does not alter significantly its uptake into high-density lipoprotein particles.** Journal of Physical Chemistry Part B. 2015 huhtikuu 2;119(13):4594-4600. <https://doi.org/10.1021/acs.jpcc.5b00240>

Sorvajärvi T, Viljanen J, Toivonen J, Marshall P, Glarborg P. **Rate constant and thermochemistry for K + O₂ + N₂ = KO₂ + N₂.** Journal of Physical Chemistry A. 2015 huhtikuu 9;119(14):3329-3336. <https://doi.org/10.1021/acs.jpca.5b00755>

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

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

Kuzmin VA, Durandin NA, Lisitsyna ES, Litvinkova LV, Nekipelova TD, Podrugina TA et al. **Energy degradation in photoexcited complexes of indocarbocyanine with albumin.** HIGH ENERGY CHEMISTRY. 2015 touko 1;49(3):211-212. <https://doi.org/10.1134/S0018143915030108>

Liang Y, Ma L, Wang J, Wang G. **Multistep reactions of water with small Pd_n clusters: A first principles study.** Journal of Theoretical and Computational Chemistry. 2015 touko 1;14(3). 1550017. <https://doi.org/10.1142/S0219633615500170>

Pluhařová E, Slavíček P, Jungwirth P. **Modeling photoionization of aqueous DNA and its components.** Accounts of Chemical Research. 2015 touko 19;48(5):1209-1217. <https://doi.org/10.1021/ar500366z>

Song X, Liu Z, Suhonen T, Varis T, Huang L, Zheng X et al. **Effect of melting state on the thermal shock resistance and thermal conductivity of APS ZrO₂-7.5wt.% Y₂O₃ coatings.** Surface and Coatings Technology. 2015 touko 25;270:132-138. <https://doi.org/10.1016/j.surfcoat.2015.03.011>

Hladílková J, Fischer HE, Jungwirth P, Mason PE. **Hydration of hydroxyl and amino groups examined by molecular dynamics and neutron scattering.** Journal of Physical Chemistry Part B. 2015 touko 28;119(21):6357-6365. <https://doi.org/10.1021/jp510528u>

Kuz'min VA, Durandin NA, Lisitsyna ES, Nekipelova TD, Podrugina TA, Matveeva ED et al. **Spectral and kinetic characteristics of indotricarbocyanine complexation with albumin.** DOKLADY PHYSICAL CHEMISTRY. 2015 touko 28;462(1):107-109. <https://doi.org/10.1134/S0012501615050036>

McManamon C, O'Connell J, Delaney P, Rasappa S, Holmes JD, Morris MA. **A facile route to synthesis of S-doped TiO₂ nanoparticles for photocatalytic activity.** Journal of Molecular Catalysis A: Chemical. 2015 touko 30;406:51-57!. <https://doi.org/10.1016/j.molcata.2015.05.002>

Manea LR, Cramariuc B, Popescu V, Cramariuc R, Sandu I, Cramariuc O. **Equipment for obtaining polymeric nanofibres by electrospinning technology: II. The obtaining of polymeric nanofibers.** Materiale Plastice. 2015 kesä 1;52(2):180-185.

Frochot C, Barberi-Heyob M, Blanchard-Desce M, Bolotine L, Bonneau S, Jimenez CM et al. **La thérapie photodynamique: État de l'art et perspectives.** ACTUALITE CHIMIQUE. 2015 kesä 1;(397-398):46-50.

Mordon S, Bourg-Heckly G. **Photodiagnostic et chirurgie guidés par la fluorescence.** ACTUALITE CHIMIQUE. 2015 kesä 1;(397-398):41-45.

He X, Benniston AC, Saarenpää H, Lemmetyinen H, Tkachenko NV, Baisch U. **Polymorph crystal packing effects on charge transfer emission in the solid state.** Chemical Science. 2015 kesä 1;6(6):3525-3532. <https://doi.org/10.1039/c5sc01151e>

Borah D, Rasappa S, Salaun M, Zellsman M, Lorret O, Lontos G et al. **Soft graphoepitaxy for large area directed self-assembly of polystyrene-block-poly(dimethylsiloxane) block copolymer on nanopatterned poss substrates fabricated by nanoimprint lithography.** Advanced Functional Materials. 2015 kesä 1;25(22):3425-3432. <https://doi.org/10.1002/adfm.201500100>

Dzieciuch M, Rissanen S, Szydłowska N, Bunker A, Kumorek M, Jamróz D et al. **PEGylated liposomes as carriers of hydrophobic porphyrins.** Journal of Physical Chemistry Part B. 2015 kesä 4;119(22):6646-6657. <https://doi.org/10.1021/acs.jpcc.5b01351>

De Carvalho SJ, Metzler R, Cherstvy AG. **Inverted critical adsorption of polyelectrolytes in confinement.** Soft Matter. 2015 kesä 14;11(22):4430-4443. <https://doi.org/10.1039/c5sm00635j>

Perander M, DeMartini N, Brink A, Kramb J, Karlström O, Hemming J et al. **Catalytic effect of Ca and K on CO₂ gasification of spruce wood char.** Fuel. 2015 kesä 15;150:464-472. <https://doi.org/10.1016/j.fuel.2015.02.062>

Abou-Chahine F, Fujii D, Imahori H, Nakano H, Tkachenko NV, Matano Y et al. **Synthesis and Photophysical Properties of Two Diazaporphyrin-Porphyrin Hetero Dimers in Polar and Nonpolar Solutions.** Journal of Physical Chemistry Part B. 2015 kesä 18;119(24):7328-7337. <https://doi.org/10.1021/jp510903a>

Mylläri V, Ruoko T-P, Syrjälä S. **A comparison of rheology and FTIR in the study of polypropylene and polystyrene photodegradation.** Journal of Applied Polymer Science. 2015 heinä 1;132(28). 42246. <https://doi.org/10.1002/app.42246>

Zorzi GK, Párraga JE, Seijo B, Sánchez A. **On the biomaterials for nanostructured ocular therapeutics.** Current Organic Chemistry. 2015 heinä 1;19(15):1443-1459.

Sanginés R, Contreras V, Sobral H, Robledo-Martinez A. **Optimal emission enhancement in orthogonal double-pulse laser-induced breakdown spectroscopy.** Spectrochimica Acta Part B: Atomic Spectroscopy. 2015 heinä 6;110:139-145. 4935. <https://doi.org/10.1016/j.sab.2015.06.012>

Ahmed Z, George L, Hiltunen A, Lemmetyinen H, Hukka T, Efimov A. **Synthesis and study of electrochemical and optical properties of substituted perylenemonoimides in solutions and on solid surfaces.** Journal of Materials Chemistry A. 2015 heinä 7;3(25):13332-13339. <https://doi.org/10.1039/c5ta02241j>

Isoniemi T, Tuukkanen S, Cameron DC, Simonen J, Toppari JJ. **Measuring optical anisotropy in poly(3,4-ethylene dioxythiophene): poly(styrene sulfonate) films with added graphene.** Organic Electronics. 2015 heinä 9;25:317-323. <https://doi.org/10.1016/j.orgel.2015.06.037>, <https://doi.org/10.1016/j.orgel.2015.06.037>

Hakkarainen TV, Schramm A, Mäkelä J, Laukkanen P, Guina M. **Lithography-free oxide patterns as templates for self-catalyzed growth of highly uniform GaAs nanowires on Si(111).** Nanotechnology. 2015 heinä 18;26(27). 275301. <https://doi.org/10.1088/0957-4484/26/27/275301>

Çetinkaya AY, Köroğlu EO, Demir NM, Baysoy DY, Özkaya B, Çakmakçı M. **Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration.** Chinese Journal of Catalysis. 2015 heinä 20;36(7):1068-1076. [https://doi.org/10.1016/S1872-2067\(15\)60833-6](https://doi.org/10.1016/S1872-2067(15)60833-6)

Virkki K, Demir S, Lemmetyinen H, Tkachenko NV. **Photoinduced Electron Transfer in CdSe/ZnS Quantum Dot-Fullerene Hybrids.** Journal of Physical Chemistry C. 2015 heinä 23;119(31):17561-17572. <https://doi.org/10.1021/acs.jpcc.5b04251>

Rahaman O, Kalimeri M, Melchionna S, Hénin J, Sterpone F. **Role of Internal Water on Protein Thermal Stability: The Case of Homologous G Domains.** Journal of Physical Chemistry Part B. 2015 heinä 23;119(29):8939-8949. <https://doi.org/10.1021/jp507571u>

Bodrova A, Chechkin AV, Cherstvy AG, Metzler R. **Quantifying non-ergodic dynamics of force-free granular gases.** Physical Chemistry Chemical Physics. 2015 heinä 27;17(34):21791-21798. <https://doi.org/10.1039/c5cp02824h>

Rasappa S, Caridad JM, Schulte L, Cagliani A, Borah D, Morris MA et al. **High quality sub-10 nm graphene nanoribbons by on-chip PS-b-PDMS block copolymer lithography.** RSC Advances. 2015 heinä 29;5(82):66711-66717. <https://doi.org/10.1039/c5ra11735f>

Timr Š, Brabec J, Bondar A, Ryba T, Železný M, Lazar J et al. **Nonlinear Optical Properties of Fluorescent Dyes Allow for Accurate Determination of Their Molecular Orientations in Phospholipid Membranes.** Journal of Physical Chemistry Part B. 2015 heinä 30;119(30):9706-9716. <https://doi.org/10.1021/acs.jpcc.5b05123>

Stumpel JE. **Responsive Polymer Photonics.** ChemistryOpen. 2015 elo 1;4(4):533-535. <https://doi.org/10.1002/open.201500104>

Le HH, Pham T, Henning S, Klehm J, Wießner S, Stöckelhuber KW et al. **Formation and stability of carbon nanotube network in natural rubber: Effect of non-rubber components.** Polymer. 2015 elo 5;73:111-121. 18004. <https://doi.org/10.1016/j.polymer.2015.07.044>

- Kwolek U, Kulig W, Wydro P, Nowakowska M, Róg T, Kepczynski M. **Effect of Phosphatidic Acid on Biomembrane: Experimental and Molecular Dynamics Simulations Study.** Journal of Physical Chemistry Part B. 2015 elo 6;119(31):10042-10051. <https://doi.org/10.1021/acs.jpccb.5b03604>
- Levin M, Rojas E, Vanhala E, Vippola M, Liguori B, Kling KI et al. **Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials: implications for testing and risk assessment.** Journal of Nanoparticle Research. 2015 elo 14;17(8). 337. <https://doi.org/10.1007/s11051-015-3139-6>
- Lepcha A, Maccato C, Mettenböcker A, Andreu T, Mayrhofer L, Walter M et al. **Electrospun Black Titania Nanofibers: Influence of Hydrogen Plasma-Induced Disorder on the Electronic Structure and Photoelectrochemical Performance.** Journal of Physical Chemistry C. 2015 elo 20;119(33):18835-18842. <https://doi.org/10.1021/acs.jpcc.5b02767>
- Mäkelä J, Tuominen M, Yasir M, Polojärvi V, Aho A, Tukiainen A et al. **Effects of thinning and heating for TiO₂/AlInP junctions.** Journal of Electron Spectroscopy and Related Phenomena. 2015 elo 24;205:6-9. <https://doi.org/10.1016/j.elspec.2015.08.004>
- Barreca D, Carraro G, Warwick MEA, Kaunisto K, Gasparotto A, Gombac V et al. **Fe₂O₃-TiO₂ nanosystems by a hybrid PE-CVD/ALD approach: controllable synthesis, growth mechanism, and photocatalytic properties.** CrystEngComm. 2015 elo 28;17(32):6219-6226. <https://doi.org/10.1039/c5ce00883b>
- Yang Y, Kylänpää I, Tubman NM, Krogel JT, Hammes-Schiffer S, Ceperley DM. **How large are nonadiabatic effects in atomic and diatomic systems?** Journal of Chemical Physics. 2015 syys;143(12). 124308. <https://doi.org/10.1063/1.4931667>
- Bajamundi CJE, Vainikka P, Hedman M, Silvennoinen J, Heinanen T, Taipale R et al. **Searching for a robust strategy for minimizing alkali chlorides in fluidized bed boilers during burning of high SRF-energy-share fuel.** Fuel. 2015 syys 1;155:25-36. <https://doi.org/10.1016/j.fuel.2015.03.087>
- Tukiainen A, Likonen J, Toikkanen L, Leinonen T. **Unintentional boron contamination of MBE-grown GaInP/AlGaInP quantum wells.** Journal of Crystal Growth. 2015 syys 1;425:60-63. <https://doi.org/10.1016/j.jcrysgro.2015.02.048>
- Frankberg EJ, George L, Efimov A, Honkanen M, Pessi J, Levänen E. **Measuring synthesis yield in graphene oxide synthesis by modified hummers method.** Fullerenes Nanotubes and Carbon Nanostructures. 2015 syys 2;23(9):755-759. <https://doi.org/10.1080/1536383X.2014.993754>
- Ter Schiphorst J, Coleman S, Stumpel JE, Ben Azouz A, Diamond D, Schenning APHJ. **Molecular Design of Light-Responsive Hydrogels, for in Situ Generation of Fast and Reversible Valves for Microfluidic Applications.** Chemistry of Materials. 2015 syys 8;27(17):5925-5931. <https://doi.org/10.1021/acs.chemmater.5b01860>
- Goh JQ, Akola J. **Superatom Model for Ag-S Nanocluster with Delocalized Electrons.** Journal of Physical Chemistry C. 2015 syys 10;119(36):21165-21172. <https://doi.org/10.1021/acs.jpcc.5b05824>
- Milanti A, Matikainen V, Koivuluoto H, Bolelli G, Lusvarghi L, Vuoristo P. **Effect of spraying parameters on the microstructural and corrosion properties of HVAF-sprayed Fe-Cr-Ni-B-C coatings.** Surface and Coatings Technology. 2015 syys 15;277:81-90. <https://doi.org/10.1016/j.surfcoat.2015.07.018>
- Bhagavatheswaran ES, Parsekar M, Das A, Le HH, Wiessner S, Stöckelhuber KW et al. **Construction of an Interconnected Nanostructured Carbon Black Network: Development of Highly Stretchable and Robust Elastomeric Conductors.** Journal of Physical Chemistry C. 2015 syys 17;119(37):21723-21731. <https://doi.org/10.1021/acs.jpcc.5b06629>
- Orlowski A, Kukkurainen S, Pöyry A, Rissanen S, Vattulainen I, Hytönen VP et al. **PIP2 and Talin Join Forces to Activate Integrin.** Journal of Physical Chemistry Part B. 2015 syys 24;119(38):12381-12389. <https://doi.org/10.1021/acs.jpccb.5b06457>

Moradi M, Enkavi G, Tajkhorshid E. **Atomic-level characterization of transport cycle thermodynamics in the glycerol-3-phosphate: Phosphate antiporter.** Nature Communications. 2015 syys 29;6: 8393. <https://doi.org/10.1038/ncomms9393>

Mylläri V, Fatarella E, Ruzzante M, Pogni R, Baratto MC, Skrifvars M et al. **Production of sulfonated polyetheretherketone/polypropylene fibers for photoactive textiles.** Journal of Applied Polymer Science. 2015 loka 1;132(39). 42595. <https://doi.org/10.1002/app.42595>

Vapaavuori J, Grosrenaud J, Pellerin C, Bazuin CG. **In Situ Photocontrol of Block Copolymer Morphology during Dip-Coating of Thin Films.** ACS Macro Letters. 2015 loka 20;4(10):1158-1162. <https://doi.org/10.1021/acsmacrolett.5b00483>

Vapaavuori J, Heikkinen ITS, Dichiarante V, Resnati G, Metrangolo P, Sabat RG et al. **Photomechanical Energy Transfer to Photopassive Polymers through Hydrogen and Halogen Bonds.** Macromolecules. 2015 loka 27;48(20):7535-7542. <https://doi.org/10.1021/acs.macromol.5b01813>

Vapaavuori J, Laventure A, Bazuin CG, Lebel O, Pellerin C. **Submolecular Plasticization Induced by Photons in Azobenzene Materials.** Journal of the American Chemical Society. 2015 loka 28;137(42):13510-13517. <https://doi.org/10.1021/jacs.5b06611>

Zorzi GK, Párraga JE, Seijo B, Sanchez A. **Comparison of different cationized proteins as biomaterials for nanoparticle-based ocular gene delivery.** Colloids and Surfaces B: Biointerfaces. 2015 marras 1;135:533-541. <https://doi.org/10.1016/j.colsurfb.2015.08.008>

Le HH, Parsaker M, Sriharish MN, Henning S, Menzel M, Wießner S et al. **Effect of rubber polarity on selective wetting of carbon nanotubes in ternary blends.** Express Polymer Letters. 2015 marras 1;9(11):960-971. <https://doi.org/10.3144/expresspolymlett.2015.87>

Seo JY, Lee K, Ramasamy P, Kim B, Lee SY, Oh YK et al. **Tri-functionality of Fe₃O₄-embedded carbon microparticles in microalgae harvesting.** Chemical Engineering Journal. 2015 marras 5;280:206-214. <https://doi.org/10.1016/j.cej.2015.05.122>

Kaouk A, Ruoko TP, Gönüllü Y, Kaunisto K, Mettenböcker A, Gurevich E et al. **Graphene-intercalated Fe₂O₃/TiO₂ heterojunctions for efficient photoelectrolysis of water.** RSC Advances. 2015 marras 13;5(123):101401-101407. <https://doi.org/10.1039/c5ra18330h>

Ihalainen TO, Aires L, Herzog FA, Schwartlander R, Moeller J, Vogel V. **Differential basal-to-apical accessibility of lamin A/C epitopes in the nuclear lamina regulated by changes in cytoskeletal tension.** Nature Materials. 2015 joulu 1;14(12):1252-1261. <https://doi.org/10.1038/nmat4389>

Mäki AJ, Peltokangas M, Kreutzer J, Auvinen S, Kallio P. **Modeling carbon dioxide transport in PDMS-based microfluidic cell culture devices.** Chemical Engineering Science. 2015 joulu 1;137:515-524. <https://doi.org/10.1016/j.ces.2015.06.065>

Dhieb AC, Valkonen A, Rzaigui M, Smirani W. **Synthesis, crystal structure, physico-chemical characterization and dielectric properties of a new hybrid material, 1-Ethylpiperazine-1,4-dium tetrachlorocadmate.** Journal of Molecular Structure. 2015 joulu 15;1102:50-56. <https://doi.org/10.1016/j.molstruc.2015.08.044>

Alanen J, Saukko E, Lehtoranta K, Murtonen T, Timonen H, Hillamo R et al. **The formation and physical properties of the particle emissions from a natural gas engine.** Fuel. 2015 joulu 15;162:155-161. <https://doi.org/10.1016/j.fuel.2015.09.003>

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

Su W, Cooper JR, Cook BS, Tentzeris MM, Mariotti C, Roselli L. **Inkjet-printed dual microfluidic-based sensor integrated system**. julkaisussa 2015 IEEE SENSORS - Proceedings. Institute of Electrical and Electronics Engineers Inc. 2015. 7370300 <https://doi.org/10.1109/ICSENS.2015.7370300>

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

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

Kulig W, Cwiklik L, Jurkiewicz P, Rog T, Vattulainen I. **Cholesterol oxidation products and their biological importance**. Chemistry and Physics of Lipids. 2016;199:144-160. <https://doi.org/10.1016/j.chemphyslip.2016.03.001>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Matsuo S, Yamazoe S, Goh J-Q, Akola J, Tsukuda T. **The electrooxidation-induced structural changes of gold di-superatomic molecules: Au₂₃ vs. Au₂₅** *Physical Chemistry Chemical Physics*. 2016;18(6):4822-4827. <https://doi.org/10.1039/c5cp06969f>

Golovanov V, Golovanova V, Rantala TT. **Thermal desorption of molecular oxygen from SnO₂ (110) surface: Insights from first-principles calculations.** *Journal of Physics and Chemistry of Solids*. 2016;89:15-22. <https://doi.org/10.1016/j.jpccs.2015.10.010>

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

Allolio C, Baxova K, Vazdar M, Jungwirth P. **Guanidinium Pairing Facilitates Membrane Translocation.** *Journal of Physical Chemistry Part B*. 2016 tammi 14;120(1):143-153. <https://doi.org/10.1021/acs.jpcc.5b10404>

Ali-Löyty H, Louie MW, Singh MR, Li L, Sanchez Casalongue HG, Ogasawara H et al. **Ambient-Pressure XPS Study of a Ni-Fe Electrocatalyst for the Oxygen Evolution Reaction.** *Journal of Physical Chemistry C*. 2016 helmi 4;120(4):2247-2253. <https://doi.org/10.1021/acs.jpcc.5b10931>

Salunke JK, Wong FL, Feron K, Manzhos S, Lo MF, Shinde D et al. **Phenothiazine and carbazole substituted pyrene based electroluminescent organic semiconductors for OLED devices.** *Journal of Materials Chemistry C*. 2016 helmi 7;4(5):1009-1018. <https://doi.org/10.1039/c5tc03690a>

Szabo HM, Lepistö R, Tuhkanen T. **HPLC-SEC: a new approach to characterise complex wastewater effluents.** *International Journal of Environmental Analytical Chemistry*. 2016 helmi 19;96(3):257-270. <https://doi.org/10.1080/03067319.2016.1150463>

Katava M, Kalimeri M, Stirnemann G, Sterpone F. **Stability and Function at High Temperature. What Makes a Thermophilic GTPase Different from Its Mesophilic Homologue.** *Journal of Physical Chemistry Part B*. 2016 maalis 17;120(10):2721-2730. <https://doi.org/10.1021/acs.jpcc.6b00306>

Sakuma T, Sakai H, Araki Y, Mori T, Wada T, Tkachenko NV et al. **Long-Lived Triplet Excited States of Bent-Shaped Pentacene Dimers by Intramolecular Singlet Fission.** *Journal of Physical Chemistry A*. 2016 maalis 31;120(11):1867-1875. <https://doi.org/10.1021/acs.jpca.6b00988>

Mal J, Nancharaiyah YV, Van Hullebusch ED, Lens PNL. **Metal chalcogenide quantum dots: Biotechnological synthesis and applications**. RSC Advances. 2016 huhti;6(47):41477-41495. <https://doi.org/10.1039/c6ra08447h>

Ma L, Melander M, Weckman T, Lipasti S, Laasonen K, Akola J. **DFT simulations and microkinetic modelling of 1-pentyne hydrogenation on Cu₂₀ model catalysts**. Journal of Molecular Graphics and Modelling. 2016 huhti 1;65:61-70. <https://doi.org/10.1016/j.jmgm.2016.02.007>

Viljanen J, Sun Z, Alwahabi ZT. **Microwave assisted laser-induced breakdown spectroscopy at ambient conditions**. Spectrochimica Acta Part B: Atomic Spectroscopy. 2016 huhti 1;118:29-36. <https://doi.org/10.1016/j.sab.2016.02.002>

Isakov M, Kokkonen J, Östman K, Kuokkala V-T. **Strain rate change tests with the Split Hopkinson Bar method**. European Physical Journal. Special Topics. 2016 huhti 1;225(2):231-242. <https://doi.org/10.1140/epjst/e2015-99999-x>

Nisato G, (ed.), Lupo D, (ed.), Ganz S, (ed.). **Organic and Printed Electronics: Fundamentals and Applications**. 1 toim. Singapore: PAN STANFORD PUBLISHING, 2016. 580 s. <https://doi.org/10.1201/b20043>

Fernandez-Palacio F, Saccone M, Priimägi A, Terraneo G, Pilati T, Metrangolo P et al. **Coordination networks incorporating halogen-bond donor sites and azobenzene groups**. CrystEngComm. 2016 huhti 7;18(13):2251-2257. <https://doi.org/10.1039/c6ce00059b>

Janka L, Norpoth J, Trache R, Berger LM. **Influence of heat treatment on the abrasive wear resistance of a Cr₃C₂NiCr coating deposited by an ethene-fuelled HVOF spray process**. Surface and Coatings Technology. 2016 huhti 15;291:444-451. <https://doi.org/10.1016/j.surfcoat.2016.02.066>

Hakola H, Sariola-Leikas E, Efimov A, Tkachenko NV. **Effect of Hole Transporting Material on Charge Transfer Processes in Zinc Phthalocyanine Sensitized ZnO Nanorods**. Journal of Physical Chemistry C. 2016 huhti 21;120(13):7044-7051. <https://doi.org/10.1021/acs.jpcc.6b01583>

La Rosa C, Scalisi S, Lolicato F, Pannuzzo M, Raudino A. **Lipid-assisted protein transport: A diffusion-reaction model supported by kinetic experiments and molecular dynamics simulations**. Journal of Chemical Physics. 2016 touko 14;144(18). 184901. <https://doi.org/10.1063/1.4948323>

Soto AM, Koivisto JT, Parraga JE, Silva-Correia J, Oliveira JM, Reis RL et al. **Optical Projection Tomography Technique for Image Texture and Mass Transport Studies in Hydrogels Based on Gellan Gum**. Langmuir. 2016 touko 24;32(20):5173-5182. <https://doi.org/10.1021/acs.langmuir.6b00554>

Isotahdon E, Huttunen-Saarivirta E, Kuokkala V-T. **Development of Magnetic Losses During Accelerated Corrosion Tests for Nd-Fe-B Magnets Used in Permanent Magnet Generators**. Corrosion. 2016 kesä 1;72(6):732-741. <https://doi.org/10.5006/2037>

Sharma R, Bhalerao S, Gupta D. **Effect of incorporation of CdS NPs on performance of PTB7: PCBM organic solar cells**. Organic Electronics: physics, materials, applications. 2016 kesä 1;33:274-280. <https://doi.org/10.1016/j.orgel.2016.03.030>

Razavi A, Valkama M, Lohan ES. **Robust statistical approaches for RSS-based floor detection in indoor localization**. Sensors. 2016 kesä 1;16(6). 793. <https://doi.org/10.3390/s16060793>

Poutanen M, Ikkala O, Priimägi A. **Structurally Controlled Dynamics in Azobenzene-Based Supramolecular Self-Assemblies in Solid State**. Macromolecules. 2016 kesä 14;49(11):4095-4101. <https://doi.org/10.1021/acs.macromol.6b00562>

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

Kärkkäinen M, Kolli T, Honkanen M, Heikkinen O, Väliheikki A, Huuhtanen M et al. **The Influence of Phosphorus Exposure on a Natural-Gas-Oxidation Catalyst.** Topics in Catalysis. 2016 heinä 1;59(10-12):1044-1048. <https://doi.org/10.1007/s11244-016-0587-x>

Kapgate BP, Das C, Das A, Basu D, Wiessner S, Reuter U et al. **Reinforced chloroprene rubber by in situ generated silica particles: Evidence of bound rubber on the silica surface.** Journal of Applied Polymer Science. 2016 elo 10;133(30). 43717. <https://doi.org/10.1002/app.43717>

Garifullin M, Sinelnikov A, Bronzova M, Kovacic B, Kamnik R. **Buckling Behavior of Cold-Formed Studs with Thermal Perforations.** MATEC Web of Conferences. 2016 elo 11;73. 04011. <https://doi.org/10.1051/mateconf/20167304011>

Mylläri V, Hartikainen S, Poliakova V, Anderson R, Jönkkäri I, Pasanen P et al. **Detergent impurity effect on recycled HDPE: Properties after repetitive processing.** Journal of Applied Polymer Science. 2016 elo 15;133(31). 43766. <https://doi.org/10.1002/app.43766>

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

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

Pilehrood MK, Atashi A, Sadeghi-Aliabadi H, Nousiainen P, Harlin A. **3D micro-nano structured hybrid scaffolds: An investigation into the role of nanofiber coating on viability, proliferation and differentiation of seeded mesenchymal stem cells.** Journal Nanoscience and Nanotechnology. 2016 syys 1;16(9):9000-9007. <https://doi.org/10.1166/jnn.2016.12740>

Robison AD, Sun S, Poyton MF, Johnson GA, Pellois JP, Jungwirth P et al. **Polyarginine Interacts More Strongly and Cooperatively than Polylysine with Phospholipid Bilayers.** Journal of Physical Chemistry Part B. 2016 syys 8;120(35):9287-9296. <https://doi.org/10.1021/acs.jpcc.6b05604>

Zhou Q, Sariola V, Latifi K, Liimatainen V. **Controlling the motion of multiple objects on a Chladni plate.** Nature Communications. 2016 syys 9;7. 12764. <https://doi.org/10.1038/ncomms12764>

Kramb J, Kontinen J, Backman R, Salo K, Roberts M. **Elimination of arsenic-containing emissions from gasification of chromated copper arsenate wood.** Fuel. 2016 loka 1;181:319-324. <https://doi.org/10.1016/j.fuel.2016.04.109>

Will OM, Purcz N, Chalaris A, Heneweer C, Boretius S, Purcz L et al. **Increased survival rate by local release of diclofenac in a murine model of recurrent oral carcinoma.** International Journal of Nanomedicine. 2016 loka 12;11:5311-5321. <https://doi.org/10.2147/IJN.S109199>

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

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

Poikelispää M, Shakun A, Das A, Vuorinen J. **Improvement of actuation performance of dielectric elastomers by barium titanate and carbon black fillers.** Journal of Applied Polymer Science. 2016 marras 10;133(42). 44116. <https://doi.org/10.1002/app.44116>

Ropo M, Akola J, Jones RO. **Collective excitations and viscosity in liquid Bi**. Journal of Chemical Physics. 2016 marras 14;145(18). 184502. <https://doi.org/10.1063/1.4965429>

Varis T, Suhonen T, Calonius O, Čuban J, Pietola M. **Optimization of HVOF Cr₃C₂-NiCr coating for increased fatigue performance**. Surface and Coatings Technology. 2016 marras 15;305:123-131. <https://doi.org/10.1016/j.surfcoat.2016.08.012>

Ntziachristos L, Saukko E, Lehtoranta K, Rönkkö T, Timonen H, Simonen P et al. **Particle emissions characterization from a medium-speed marine diesel engine with two fuels at different sampling conditions**. Fuel. 2016 joulu 15;186:456-465. <https://doi.org/10.1016/j.fuel.2016.08.091>

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

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

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

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

Mojica E, Pertuz S, Arguello H. **High-resolution coded-aperture design for compressive X-ray tomography using low resolution detectors**. Optics Communications. 2017;404:103-109. <https://doi.org/10.1016/j.optcom.2017.06.053>

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

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

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

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

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

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

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

Kovacs PT, Zare A, Balogh T, Bregovic R, Gotchev A. **Architectures and codecs for real-time light field streaming.** Journal of Imaging Science and Technology. 2017 tammi 1;61(1). 010403. <https://doi.org/10.2352/J.ImagingSci.Technol.2017.61.1.010403>

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

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

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

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

Balanta MAG, Orsi Gordo V, Carvalho ARH, Puustinen J, Alghamdi HM, Henini M et al. **Polarization resolved photoluminescence in GaAs_{1-x}Bi_x/GaAs quantum wells.** Journal of Luminescence. 2017 helmi;182:49-52. <https://doi.org/10.1016/j.jlumin.2016.10.008>

Siiskonen A, Priimagi A. **Benchmarking DFT methods with small basis sets for the calculation of halogen-bond strengths.** Journal of Molecular Modeling. 2017 helmi 1;23(2). 50. <https://doi.org/10.1007/s00894-017-3212-4>

Izdebskaya Y, Shvedov V, Assanto G, Krolikowski W. **Magnetic routing of light-induced waveguides.** Nature Communications. 2017 helmi 15;8. 14452. <https://doi.org/10.1038/ncomms14452>

Guixa-Gonzalez R, Albasanz JL, Rodriguez-Espigares I, Pastor M, Sanz F, Martı-Solano M et al. **Membrane cholesterol access into a G-protein-coupled receptor.** Nature Communications. 2017 helmi 21;8. 14505. <https://doi.org/10.1038/ncomms14505>

Milani R, Houbenov N, Fernandez-Palacio F, Cavallo G, Luzio A, Haataja J et al. **Hierarchical Self-Assembly of Halogen-Bonded Block Copolymer Complexes into Upright Cylindrical Domains.** Chem. 2017 maaliskuu 9;2(3):417-426. <https://doi.org/10.1016/j.chempr.2017.02.003>

Bilkova E, Pleskot R, Rissanen S, Sun S, Czogalla A, Cwiklik L et al. **Calcium Directly Regulates Phosphatidylinositol 4,5-Bisphosphate Headgroup Conformation and Recognition.** Journal of the American Chemical Society. 2017 maaliskuu 22;139(11):4019-4024. <https://doi.org/10.1021/jacs.6b11760>

Higashino T, Nakatsuji H, Fukuda R, Okamoto H, Imai H, Matsuda T et al. **Hexaphyrin as a Potential Theranostic Dye for Photothermal Therapy and ¹⁹F Magnetic Resonance Imaging.** ChemBioChem. 2017 maaliskuu 24;18(10):951-959. <https://doi.org/10.1002/cbic.201700071>

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

Honkanen M, Hansen TW, Jiang H, Kärkkäinen M, HUUHTANEN M, Heikkinen O et al. **Electron microscopic studies of natural gas oxidation catalyst – Effects of thermally accelerated aging on catalyst microstructure.** Journal of Catalysis. 2017 touko 1;349:19-29. <https://doi.org/10.1016/j.jcat.2017.03.003>

Virkki K, Hakola H, Urbani M, Tejerina L, Ince M, Martínez-Díaz MV et al. **Photoinduced Electron Injection from Zinc Phthalocyanines into Zinc Oxide Nanorods: Aggregation Effects.** Journal of Physical Chemistry C. 2017 touko 4;121(17):9594-9605. <https://doi.org/10.1021/acs.jpcc.7b01562>

Kramb J, Gómez-Barea A, DeMartini N, Romar H, Doddapaneni TRKC, Kontinen J. **The effects of calcium and potassium on CO₂ gasification of birch wood in a fluidized bed.** Fuel. 2017 touko 15;196:398-407. <https://doi.org/10.1016/j.fuel.2017.01.101>

Jones RO, Ahlstedt O, Akola J, Ropo M. **Density functional study of structure and dynamics in liquid antimony and Sb_n clusters.** Journal of Chemical Physics. 2017 touko 21;146(19). 194502. <https://doi.org/10.1063/1.4983219>

Piccardi A, Alberucci A, Kravets N, Buchnev O, Assanto G. **Nematicon-enhanced spontaneous symmetry breaking.** Molecular Crystals and Liquid Crystals. 2017 touko 24;649(1):59-65. <https://doi.org/10.1080/15421406.2017.1303916>

Ma L, Laasonen K, Akola J. **Catalytic Activity of AuCu Clusters on MgO(100): Effect of Alloy Composition for CO Oxidation.** Journal of Physical Chemistry C. 2017 touko 25;121(20):10876-10886. <https://doi.org/10.1021/acs.jpcc.6b12054>

Goh J-Q, Akola J, Ferrando R. **Geometric Structure and Chemical Ordering of Large AuCu Clusters: A Computational Study.** Journal of Physical Chemistry C. 2017 touko 25;121(20):10809-10816. <https://doi.org/10.1021/acs.jpcc.6b11958>

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

Baek J, Umeyama T, Stranius K, Yamada H, Tkachenko NV, Imahori H. **Long-Range Observation of Exciplex Formation and Decay Mediated by One-Dimensional Bridges.** Journal of Physical Chemistry C. 2017 kesä 29;121(25):13952-13961. <https://doi.org/10.1021/acs.jpcc.7b04483>

Nogueira IBR, Ribeiro AM, Martins MAF, Rodrigues AE, Koivisto H, Loureiro JM. **Dynamics of a True Moving Bed separation process: Linear model identification and advanced process control.** Journal of Chromatography A. 2017 kesä 30;1504. <https://doi.org/10.1016/j.chroma.2017.04.060>

Suominen M, Lehtimäki S, Yewale R, Damlin P, Tuukkanen S, Kvarnström C. **Electropolymerized polyazulene as active material in flexible supercapacitors.** Journal of Power Sources. 2017 heinä 15;356:181-190. <https://doi.org/10.1016/j.jpowsour.2017.04.082>

Rahaman O, Kalimeri M, Katava M, Paciaroni A, Sterpone F. **Configurational Disorder of Water Hydrogen-Bond Network at the Protein Dynamical Transition.** Journal of Physical Chemistry Part B. 2017 heinä 20;121(28):6792-6798. <https://doi.org/10.1021/acs.jpcc.7b03888>

Poikelispää M, Shakun A, Sarlin E, Das A, Vuorinen J. **Vegetable fillers for electric stimuli responsive elastomers.** Journal of Applied Polymer Science. 2017 heinä 20;134(28). 45081. <https://doi.org/10.1002/app.45081>

Pirjola L, Rönkkö T, Saukko E, Parviainen H, Malinen A, Alanen J et al. **Exhaust emissions of non-road mobile machine: Real-world and laboratory studies with diesel and HVO fuels.** Fuel. 2017 elo 15;202:154-164. <https://doi.org/10.1016/j.fuel.2017.04.029>

Itävuo P, Hulthén E, Vilkkö M. **Feed-hopper level estimation and control in cone crushers.** Minerals Engineering. 2017 elo 15;110:82-95. <https://doi.org/10.1016/j.mineng.2017.04.010>

Timr Š, Pleskot R, Kadlec J, Kohagen M, Magarkar A, Jungwirth P. **Membrane Binding of Recoverin: From Mechanistic Understanding to Biological Functionality**. ACS Central Science. 2017 elo 23;3(8):868-874. <https://doi.org/10.1021/acscentsci.7b00210>

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

Isakov M, Matikainen V, Koivuluoto H, May M. **Systematic analysis of coating-substrate interactions in the presence of flow localization**. Surface and Coatings Technology. 2017 syys 15;324:264-280. <https://doi.org/10.1016/j.surfcoat.2017.05.040>

Boardman AD, Alberucci A, Assanto G, Grimalsky VV, Kibler B, McNiff J et al. **Waves in hyperbolic and double negative metamaterials including rogues and solitons**. Nanotechnology. 2017 loka 9;28(44). 444001. <https://doi.org/10.1088/1361-6528/aa6792>

Danne R, Poojari C, Martinez-Seara H, Rissanen S, Lolicato F, Róg T et al. **DoGlycans-Tools for Preparing Carbohydrate Structures for Atomistic Simulations of Glycoproteins, Glycolipids, and Carbohydrate Polymers for GROMACS**. Journal of Chemical Information and Modeling. 2017 loka 23;57(10):2401-2406. <https://doi.org/10.1021/acs.jcim.7b00237>

Sippola RJ, Hadipour A, Kastinen T, Vivo P, Hukka TI, Aernouts T et al. **Carbazole-based small molecule electron donors: Syntheses, characterization, and material properties**. Dyes and Pigments. 2017 marras 8;150:79-88. [j.dyepig.2017.11.014. https://doi.org/10.1016/j.dyepig.2017.11.014](https://doi.org/10.1016/j.dyepig.2017.11.014)

Liimatainen V, Vuckovac M, Jokinen V, Sariola V, Hokkanen MJ, Zhou Q et al. **Mapping microscale wetting variations on biological and synthetic water-repellent surfaces**. Nature Communications. 2017 joulu 1;8(1). 1798. <https://doi.org/10.1038/s41467-017-01510-7>

Lisitsyna ES, Ketola T-M, Morin-Picardat E, Liang H, Hanzlíková M, Urtti A et al. **Time-Resolved Fluorescence Spectroscopy Reveals Fine Structure and Dynamics of Poly(L-lysine) and Polyethylenimine Based DNA Polyplexes**. Journal of Physical Chemistry B. 2017 joulu 7;121(48):10782-10792. <https://doi.org/10.1021/acs.jpcc.7b08394>

Saarimaa V, Kaleva A, Nikkanen J-P, Heinonen S, Levänen E, Väisänen P et al. **Supercritical carbon dioxide treatment of hot dip galvanized steel as a surface treatment before coating**. Surface and Coatings Technology. 2017 joulu 15;331:137-142. <https://doi.org/10.1016/j.surfcoat.2017.10.047>

Tienaho J, Poikulainen E, Sarjala T, Muilu-Mäkelä R, Santala V, Karp M. **A Bioscreening Technique for Ultraviolet Irradiation Protective Natural Substances**. Photochemistry and Photobiology. 2018;94(6):1273-1280. <https://doi.org/10.1111/php.12954>

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

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

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

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

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

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

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

Shakun A, Poikelispää M, Das A, Vuorinen J. **Improved electromechanical response in acrylic rubber by different carbon-based fillers.** *Polymer Engineering and Science*. 2018;58(3):395-404. <https://doi.org/10.1002/pen.24586>

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

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

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

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

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

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

Kato D, Sakai H, Araki Y, Wada T, Tkachenko NV, Hasobe T. **Concentration-dependent photophysical switching in mixed self-assembled monolayers of pentacene and perylenediimide on gold nanoclusters.** *Physical Chemistry Chemical Physics*. 2018 tammi 1;20(13):8695-8706. <https://doi.org/10.1039/c8cp00174j>

Saccone M, Kuntze K, Ahmed Z, Siiskonen A, Giese M, Priimagi A. **Ortho-Fluorination of azophenols increases the mesophase stability of photoresponsive hydrogen-bonded liquid crystals.** *Journal of Materials Chemistry C*. 2018 tammi 1;6(37):9958-9963. <https://doi.org/10.1039/c8tc02611d>

Ojha N, Tuomisto M, Lastusaari M, Petit L. **Upconversion from fluorophosphate glasses prepared with NaYF₄:Er³⁺, Yb³⁺ nanocrystals.** *RSC Advances*. 2018 tammi 1;8(34):19226-19236. <https://doi.org/10.1039/c8ra03298j>

Das A, Sallat A, Böhme F, Sarlin E, Vuorinen J, Vennemann N et al. **Temperature scanning stress relaxation of an autonomous self-healing elastomer containing non-covalent reversible network junctions.** *Polymers*. 2018 tammi 19;10(1). 94. <https://doi.org/10.3390/polym10010094>

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

Iantovics LB, Dehmer M, Emmert-Streib F. **MetrlntSimil-an accurate and robust metric for comparison of similarity in intelligence of any number of cooperative multiagent systems**. *Symmetry*. 2018 helmi 1;10(2). 48. <https://doi.org/10.3390/sym10020048>

Vaikuntam SR, Stöckelhuber KW, Subramani Bhagavatheswaran E, Wießner S, Scheler U, Saalwächter K et al. **Entrapped Styrene Butadiene Polymer Chains by Sol-Gel-Derived Silica Nanoparticles with Hierarchical Raspberry Structures**. *Journal of Physical Chemistry B*. 2018 helmi 15;122(6):2010-2022. <https://doi.org/10.1021/acs.jpcc.7b11792>

Vale JR, Rimpiläinen T, Sievänen E, Rissanen K, Afonso CAM, Candeias NR. **Pot-economy autooxidative condensation of 2-Aryl-2-lithio-1,3-dithianes**. *Journal of Organic Chemistry*. 2018 helmi 16;83(4):1948-1958. <https://doi.org/10.1021/acs.joc.7b02896>

Kainulainen TP, Sirviö JA, Sethi J, Hukka TI, Heiskanen JP. **UV-Blocking Synthetic Biopolymer from Biomass-Based Bifuran Diester and Ethylene Glycol**. *Macromolecules*. 2018 helmi 21;51(5):1822-1829. <https://doi.org/10.1021/acs.macromol.7b02457>

Mehrang S, Pietilä J, Korhonen I. **An activity recognition framework deploying the random forest classifier and a single optical heart rate monitoring and triaxial accelerometer wrist-band**. *Sensors*. 2018 helmi 22;18(2). 613. <https://doi.org/10.3390/s18020613>

Hannula M, Ali-Löytty H, Lahtonen K, Sarlin E, Saari J, Valden M. **Improved Stability of Atomic Layer Deposited Amorphous TiO₂ Photoelectrode Coatings by Thermally Induced Oxygen Defects**. *Chemistry of Materials*. 2018 helmi 27;30(4):1199-1208. <https://doi.org/10.1021/acs.chemmater.7b02938>

Karvinen J, Joki T, Ylä-Outinen L, Koivisto JT, Narkilahti S, Kellomäki M. **Soft hydrazone crosslinked hyaluronan- and alginate-based hydrogels as 3D supportive matrices for human pluripotent stem cell-derived neuronal cells**. *Reactive and Functional Polymers*. 2018 maaliskuu 1;124:29-39. <https://doi.org/10.1016/j.reactfunctpolym.2017.12.019>

Janka L, Berger LM, Norpoth J, Trache R, Thiele S, Tomastik C et al. **Improving the high temperature abrasion resistance of thermally sprayed Cr₃C₂-NiCr coatings by WC addition**. *Surface and Coatings Technology*. 2018 maaliskuu 15;337:296-305. <https://doi.org/10.1016/j.surfcoat.2018.01.035>

Poutanen M, Ahmed Z, Rautkari L, Ikkala O, Priimägi A. **Thermal Isomerization of Hydroxyazobenzenes as a Platform for Vapor Sensing**. *ACS Macro Letters*. 2018 maaliskuu 20;7(3):381-386. <https://doi.org/10.1021/acsmacrolett.8b00093>

Sassatelli P, Bolelli G, Lassinantti Gualtieri M, Heinonen E, Honkanen M, Lusvarghi L et al. **Properties of HVOF-sprayed Stellite-6 coatings**. *Surface and Coatings Technology*. 2018 maaliskuu 25;338:45-62. <https://doi.org/10.1016/j.surfcoat.2018.01.078>

Khan M, Koivisto J, Hukka T, Hokka M, Kellomäki M. **Composite Hydrogels Using Bioinspired Approach with in Situ Fast Gelation and Self-Healing Ability as Future Injectable Biomaterial**. *ACS Applied Materials & Interfaces*. 2018 huhtikuu 11;10(14):11950-11960. <https://doi.org/10.1021/acsami.8b01351>

Magarkar A, Parkkila P, Viitala T, Lajunen T, Mobarak E, Licari G et al. **Membrane bound COMT isoform is an interfacial enzyme: General mechanism and new drug design paradigm**. *Chemical Communications*. 2018 huhtikuu 11;54(28):3440-3443. <https://doi.org/10.1039/c8cc00221e>

Melcr J, Martinez-Seara H, Nencini R, Kolafa J, Jungwirth P, Ollila OHS. **Accurate Binding of Sodium and Calcium to a POPC Bilayer by Effective Inclusion of Electronic Polarization**. *Journal of Physical Chemistry B*. 2018 huhtikuu 26;122(16):4546-4557. <https://doi.org/10.1021/acs.jpcc.7b12510>

Harra J, Tuominen M, Juuti P, Rissler J, Koivuluoto H, Haapanen J et al. **Characteristics of nFOG, an aerosol-based wet thin film coating technique.** Journal of Coatings Technology Research. 2018 touko;15(3):623-632. <https://doi.org/10.1007/s11998-017-0022-7>

Manninen H, Rotola-Pukkila M, Aisala H, Hopia A, Laaksonen T. **Free amino acids and 5'-nucleotides in Finnish forest mushrooms.** Food Chemistry. 2018 touko;247:23-28. <https://doi.org/10.1016/j.foodchem.2017.12.014>

Raappana M, Polojärvi V, Aho A, Mäkelä J, Aho T, Tukiainen A et al. **Wet etching of dilute nitride GaInNAs, GaInNAsSb, and GaNAsSb alloys lattice-matched to GaAs.** Corrosion Science. 2018 touko 15;136:268-274. <https://doi.org/10.1016/j.corsci.2018.03.018>

Zhou K, Dichlberger A, Martinez-Seara H, Nyholm TKM, Li S, Kim YA et al. **A Ceramide-Regulated Element in the Late Endosomal Protein LAPT4B Controls Amino Acid Transporter Interaction.** ACS Central Science. 2018 touko 23;4(5):548-558. <https://doi.org/10.1021/acscentsci.7b00582>

Virkki K, Tervola E, Medel M, Torres T, Tkachenko NV. **Effect of Co-Adsorbate and Hole Transporting Layer on the Photoinduced Charge Separation at the TiO₂-Phthalocyanine Interface.** ACS Omega. 2018 touko 31;3(5):4947-4958. <https://doi.org/10.1021/acsomega.8b00600>

Pirhonen M, Peltokangas M, Vehkaoja A. **Acquiring respiration rate from photoplethysmographic signal by recursive bayesian tracking of intrinsic modes in time-frequency spectra.** Sensors. 2018 kesä 1;18(6). 1693. <https://doi.org/10.3390/s18061693>

Virtanen J, Somppi S, Törnqvist H, Jeyhani V, Fiedler P, Gizatdinova Y et al. **Evaluation of dry electrodes in canine heart rate monitoring.** Sensors. 2018 kesä 1;18(6). 1757. <https://doi.org/10.3390/s18061757>

Nair AK, Bhavitha KB, Perumbilavil S, Sankar P, Rouxel D, Kala MS et al. **Multifunctional nitrogen sulfur co-doped reduced graphene oxide – Ag nano hybrids (sphere, cube and wire) for nonlinear optical and SERS applications.** Carbon. 2018 kesä 1;132:380-393. <https://doi.org/10.1016/j.carbon.2018.02.068>

George L, Hiltunen A, Santala V, Efimov A. **Photo-antimicrobial efficacy of zinc complexes of porphyrin and phthalocyanine activated by inexpensive consumer LED lamp.** Journal of Inorganic Biochemistry. 2018 kesä 1;183:94-100. <https://doi.org/10.1016/j.jinorgbio.2018.03.015>

Siljander S, Keinänen P, Rätty A, Ramakrishnan KR, Tuukkanen S, Kunnari V et al. **Effect of surfactant type and sonication energy on the electrical conductivity properties of nanocellulose-CNT nanocomposite films.** International Journal of Molecular Sciences. 2018 kesä 20;19(6). 1819. <https://doi.org/10.3390/ijms19061819>

Laurén P, Paukkonen H, Lipiäinen T, Dong Y, Oksanen T, Rääkkönen H et al. **Pectin and Mucin Enhance the Bioadhesion of Drug Loaded Nanofibrillated Cellulose Films.** Pharmaceutical Research. 2018 heinä 1;35(7). 145. <https://doi.org/10.1007/s11095-018-2428-z>

Rajala S, Schouten M, Krijnen G, Tuukkanen S. **High Bending-Mode Sensitivity of Printed Piezoelectric Poly(vinylidene fluoride- co-trifluoroethylene) Sensors.** ACS Omega. 2018 heinä 23;3(7):8067-8073. <https://doi.org/10.1021/acsomega.8b01185>

Hiltunen A, Ruoko T-P, Iivonen T, Lahtonen K, Ali-Löytty H, Sarlin E et al. **Design aspects of all atomic layer deposited TiO₂-Fe₂O₃ scaffold-absorber photoanodes for water splitting.** Sustainable Energy & Fuels. 2018 heinä 31;2(9):2124-2130. <https://doi.org/10.1039/C8SE00252E>

Tan LC, Espinosa-Ortiz EJ, Nancharaiyah YV, van Hullebusch ED, Gerlach R, Lens PN. **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. 2018 elo;93(8):2380-2389. <https://doi.org/10.1002/jctb.5586>

Mandal S, Garcia Iglesias M, Ince M, Torres T, Tkachenko NV. **Photoinduced Energy Transfer in ZnCdSeS Quantum Dot-Phthalocyanines Hybrids**. ACS Omega. 2018 elo 31;3(8):10048-10057. <https://doi.org/10.1021/acsomega.8b01623>

Nieminen V, Karjalainen M, Salminen K, Rantala J, Kontunen A, Isokoski P et al. **A compact ofactometer for IMS measurements and testing human perception**. International Journal for Ion Mobility Spectrometry. 2018 syys;21(3):71-80. <https://doi.org/10.1007/s12127-018-0235-1>

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

Jermakka J, Thompson Brewster E, Ledezma P, Freguia S. **Electro-concentration for chemical-free nitrogen capture as solid ammonium bicarbonate**. Separation and Purification Technology. 2018 syys 12;203:48-55. <https://doi.org/10.1016/j.seppur.2018.04.023>

Rajan R, Rainosalu E, Ramamoorthy SK, Thomas SP, Zavašnik J, Vuorinen J et al. **Mechanical, thermal, and burning properties of viscose fabric composites: Influence of epoxy resin modification**. Journal of Applied Polymer Science. 2018 syys 20;135(36). 46673. <https://doi.org/10.1002/app.46673>

Heijne AT, Liu D, Sulonen M, Sleutels T, Fabregat-Santiago F. **Quantification of bio-anode capacitance in bioelectrochemical systems using Electrochemical Impedance Spectroscopy**. Journal of Power Sources. 2018 loka 1;400:533-538. <https://doi.org/10.1016/j.jpowsour.2018.08.003>

Tiihonen J, Kylänpää I, Rantala TT. **Computation of Dynamic Polarizabilities and van der Waals Coefficients from Path-Integral Monte Carlo**. Journal of Chemical Theory and Computation. 2018 loka 2;14:5750-5763. <https://doi.org/10.1021/acs.jctc.8b00859>

Tan LC, Nancharaiyah YV, Lu S, van Hullebusch ED, Gerlach R, Lens PNL. **Biological treatment of selenium-laden wastewater containing nitrate and sulfate in an upflow anaerobic sludge bed reactor at pH 5.0**. Chemosphere. 2018 marras 1;211:684-693. <https://doi.org/10.1016/j.chemosphere.2018.07.079>

Huttunen-Saarivirta E, Isotahdon E, Metsäjoki J, Salminen T, Carpén L, Ronkainen H. **Tribocorrosion behaviour of aluminium bronze in 3.5 wt.% NaCl solution**. Corrosion Science. 2018 marras 1;144:207-223. <https://doi.org/10.1016/j.corsci.2018.08.058>

Chevrier DM, Raich L, Rovira C, Das A, Luo Z, Yao Q et al. **Molecular-Scale Ligand Effects in Small Gold-Thiolate Nanoclusters**. Journal of the American Chemical Society. 2018 marras 14;140(45):15430-15436. <https://doi.org/10.1021/jacs.8b09440>

Sakai H, Inaya R, Tkachenko NV, Hasobe T. **High-Yield Generation of Triplet Excited States by an Efficient Sequential Photoinduced Process from Energy Transfer to Singlet Fission in Pentacene-Modified CdSe/ZnS Quantum Dots**. Chemistry - A European Journal. 2018 marras 16;24(64):17062-17071. <https://doi.org/10.1002/chem.201803257>

Rinne J, Keskinen J, Berger PR, Lupo D, Valkama M. **M2M Communication Assessment in Energy-Harvesting and Wake-Up Radio Assisted Scenarios Using Practical Components**. Sensors (Basel, Switzerland). 2018 marras 16;18(11). <https://doi.org/10.3390/s18113992>

Uusheimo S, Huotari J, Tulonen T, Aalto SL, Rissanen AJ, Arvola L. **High Nitrogen Removal in a Constructed Wetland Receiving Treated Wastewater in a Cold Climate**. Environmental science & technology. 2018 marras 20;52(22):13343-13350. <https://doi.org/10.1021/acs.est.8b03032>

Närhi M, Salmela L, Toivonen J, Billet C, Dudley JM, Genty G. **Machine learning analysis of extreme events in optical fibre modulation instability**. Nature Communications. 2018 marras 22;9(1). <https://doi.org/10.1038/s41467-018-07355-y>

Rimpiläinen T, Andrade J, Nunes A, Ntungwe E, Fernandes AS, Vale JR et al. **Aminobenzylated 4-Nitrophenols as Antibacterial Agents Obtained from 5-Nitrosalicylaldehyde through a Petasis Borono-Mannich Reaction.** ACS Omega. 2018 marras 29;3(11):16191-16202. <https://doi.org/10.1021/acsomega.8b02381>

Ferreira SA, Motwani MS, Faull PA, Seymour AJ, Yu TTL, Enayati M et al. **Bi-directional cell-pericellular matrix interactions direct stem cell fate.** Nature Communications. 2018 joulu;9(1). 4049. <https://doi.org/10.1038/s41467-018-06183-4>

Perumbilavil S, Piccardi A, Barboza R, Buchnev O, Kauranen M, Strangi G et al. **Beaming random lasers with soliton control.** Nature Communications. 2018 joulu 1;9(1). 3863. <https://doi.org/10.1038/s41467-018-06170-9>

Salmenjoki H, Alava MJ, Laurson L. **Machine learning plastic deformation of crystals.** Nature Communications. 2018 joulu 1;9(1). 5307. <https://doi.org/10.1038/s41467-018-07737-2>

Kotila T, Kogan K, Enkavi G, Guo S, Vattulainen I, Goode BL et al. **Structural basis of actin monomer re-charging by cyclase-Associated protein.** Nature Communications. 2018 joulu 1;9(1). 1892. <https://doi.org/10.1038/s41467-018-04231-7>

Garifullin M. **Experimental moment resistance of rectangular hollow section T joints.** MATEC Web of Conferences. 2018 joulu 5;245. 08003. <https://doi.org/10.1051/mateconf/201824508003>

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

Joost U, Sutka A, Oja M, Smits K, Doebelin N, Loot A et al. **Reversible photodoping of TiO₂ nanoparticles.** Chemistry of Materials. 2018 joulu 26;30(24):8968-8974. <https://doi.org/10.1021/acs.chemmater.8b04813>

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

Umeyama T, Hanaoka T, Yamada H, Namura Y, Mizuno S, Ohara T et al. **Exclusive occurrence of photoinduced energy transfer and switching of its direction by rectangular π -extension of nanographenes.** Chemical Science. 2019;10(27):6642-6650. <https://doi.org/10.1039/c9sc01538h>

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

Tienaho J, Karonen M, Muilu-Mäkelä R, Wähälä K, Denegri EL, Franzén R et al. **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. 2019;24(12). 2330. <https://doi.org/10.3390/molecules24122330>

Mandal S, Tkachenko NV. **Multiphoton Excitation of CsPbBr₃ Perovskite Quantum Dots (PQDs): How Many Electrons Can One PQD Donate to Multiple Molecular Acceptors?** Journal of Physical Chemistry Letters. 2019;2775-2781. <https://doi.org/10.1021/acs.jpcclett.9b01045>

Guglielmetti S, Santala V, Mangayil R, Ciranna A, Karp MT. **O₂-requiring molecular reporters of gene expression for anaerobic microorganisms.** Biosensors and Bioelectronics. 2019;123:1-6. <https://doi.org/10.1016/j.bios.2018.09.066>

Anttalainen O, Puton J, Kontunen A, Karjalainen M, Kumpulainen P, Oksala N et al. **Possible strategy to use differential mobility spectrometry in real time applications.** International Journal for Ion Mobility Spectrometry. 2019. <https://doi.org/10.1007/s12127-019-00251-1>

Lemougna PN, Yliniemi J, Ismailov A, Levänen E, Tanskanen P, Kinnunen P et al. **Spodumene tailings for porcelain and structural materials: Effect of temperature (1050–1200°C) on the sintering and properties.** Minerals Engineering. 2019. 105843. <https://doi.org/10.1016/j.mineng.2019.105843>

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

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

Ghorbani M, Dehmer M, Mowshowitz A, Tao J, Emmert-Streib F. **The Hosoya entropy of graphs revisited.** Symmetry. 2019;11(8). 1013. <https://doi.org/10.3390/sym11081013>

Liu W, Ban J, Feng L, Cheng T, Emmert-Streib F, Dehmer M. **The maximum Hosoya index of unicyclic graphs with diameter at most four.** Symmetry. 2019;11(8). 1034. <https://doi.org/10.3390/sym11081034>

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

Eregowda T, Rene ER, Rintala J, Lens PNL. **Volatile fatty acid adsorption on anion exchange resins: kinetics and selective recovery of acetic acid.** Separation Science and Technology (Philadelphia). 2019. <https://doi.org/10.1080/01496395.2019.1600553>

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

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

Kerst T, Malmbeck R, Ial Banik NL, Toivonen J. **Alpha radiation-induced luminescence by am-241 in aqueous nitric acid solution.** Sensors (Switzerland). 2019 huhti 1;19(7). 1602. <https://doi.org/10.3390/s19071602>

Puustinen J, Hilska J, Guina M. **Analysis of GaAsBi growth regimes in high resolution with respect to As/Ga ratio using stationary MBE growth.** Journal of Crystal Growth. 2019 huhti 1;511:33-41. <https://doi.org/10.1016/j.jcrysgro.2019.01.010>

Asikainen S, Paakinaho K, Kyhkynen AK, Hannula M, Malin M, Ahola N et al. **Hydrolysis and drug release from poly(ethylene glycol)-modified lactone polymers with open porosity.** European Polymer Journal. 2019 huhti 1;113:165-175. <https://doi.org/10.1016/j.eurpolymj.2019.01.056>