

- Rantala, T., Väyrynen, J., Kumpula, R., & Aksela, S. (1979). Direct measurement of the kinetic energy shift between the molecular and atomic M4.5N4.5N4.5 Auger spectra of iodine. *Chemical Physics Letters*, *66*(2), 384-386. [https://doi.org/10.1016/0009-2614\(79\)85040-X](https://doi.org/10.1016/0009-2614(79)85040-X)
- Väyrynen, J., Rantala, T. T., Minni, E., & Suoninen, E. (1983). Anomalous Auger-electron spectra of metallic calcium. *Journal of Electron Spectroscopy and Related Phenomena*, *31*(3), 293-305. [https://doi.org/10.1016/0368-2048\(83\)85077-4](https://doi.org/10.1016/0368-2048(83)85077-4)
- Rantala, T. T., Rosén, A., & Helsing, B. (1986). A finite cluster approach to the electron-hole pair damping of the adsorbate vibration: CO adsorbed on Cu(100). *Journal of Electron Spectroscopy and Related Phenomena*, *39*(C), 173-181. [https://doi.org/10.1016/0368-2048\(86\)85045-9](https://doi.org/10.1016/0368-2048(86)85045-9)
- Rantala, T. T., Rosén, A., & Helsing, B. (1986). A Finite Cluster Approach to the Electron-Hole Pair Damping of the Adsorbate Vibration: CO Adsorbed on Cu(100). *Studies in Surface Science and Catalysis*, *26*(C), 173-181. [https://doi.org/10.1016/S0167-2991\(09\)61238-6](https://doi.org/10.1016/S0167-2991(09)61238-6)
- Rantala, T. T., Wästberg, B., & Rosén, A. (1986). Potential energy curves for diatomic molecules calculated with numerical basis functions. *Chemical Physics*, *109*(2-3), 261-268. [https://doi.org/10.1016/0301-0104\(86\)87056-2](https://doi.org/10.1016/0301-0104(86)87056-2)
- Levoska, J., Rantala, T. T., & Lenkkeri, J. (1989). Numerical simulation of temperature distributions in layered structures during laser processing. *Applied Surface Science*, *36*(1-4), 12-22. [https://doi.org/10.1016/0169-4332\(89\)90895-7](https://doi.org/10.1016/0169-4332(89)90895-7)
- Kellomäki, A., Kuula-Väisänen, P., & Nieminen, P. (1989). Sorption and retention of ethylene glycol monoethyl ether (EGME) on silicas. *Journal of Colloid and Interface Science*, *129*(2), 373-378. [https://doi.org/10.1016/0021-9797\(89\)90450-5](https://doi.org/10.1016/0021-9797(89)90450-5)
- Milne, D., Wilson, J. I. B., Rantala, T. T., & Lenkkeri, J. (1989). Morphological and structural changes in laser CVD of silicon: comparison of theoretical temperature calculations with experimental results. *Applied Surface Science*, *43*(1-4), 81-86. [https://doi.org/10.1016/0169-4332\(89\)90194-3](https://doi.org/10.1016/0169-4332(89)90194-3)
- Rantala, T. T., Jelski, D. A., & George, T. F. (1990). Electronic and structural properties of Si₁₀ cluster. *Journal of Cluster Science*, *1*(2), 189-200. <https://doi.org/10.1007/BF00702719>
- Rantala, T. S., Lantto, V., & Rantala, T. T. (1993). Rate equation simulation of the height of Schottky barriers at the surface of oxidic semiconductors. *Sensors and Actuators B: Chemical*, *13*(1-3), 234-237. [https://doi.org/10.1016/0925-4005\(93\)85369-L](https://doi.org/10.1016/0925-4005(93)85369-L)
- Valkealahti, S., & Manninen, M. (1993). Melting of copper clusters. *Computational Materials Science*, *1*(2), 123-134. [https://doi.org/10.1016/0927-0256\(93\)90003-6](https://doi.org/10.1016/0927-0256(93)90003-6)
- Rantala, T. S., Lantto, V., & Rantala, T. T. (1994). A cluster approach for the SnO₂ (110) face. *Sensors and Actuators B: Chemical*, *19*(1-3), 716-719. [https://doi.org/10.1016/0925-4005\(93\)01220-X](https://doi.org/10.1016/0925-4005(93)01220-X)
- Rantala, T. T., Jelski, D. A., & George, T. F. (1995). Si₁₀ and photoabsorption spectra of mid-sized silicon clusters. *Chemical Physics Letters*, *232*(3), 215-220. [https://doi.org/10.1016/0009-2614\(94\)01342-S](https://doi.org/10.1016/0009-2614(94)01342-S)
- Franzén, R., & Kronberg, L. (1995). Synthesis of chlorinated 5-hydroxy 4-methyl-2(5H)-furanones and mucochloric acid. *Tetrahedron Letters*, *36*(22), 3905-3908. [https://doi.org/10.1016/0040-4039\(95\)00638-S](https://doi.org/10.1016/0040-4039(95)00638-S)
- Hyvönen, M., Ala-Korpela, M., Vaara, J., Rantala, T. T., & Jokisaari, J. (1995). Effects of two double bonds on the hydrocarbon interior of a phospholipid bilayer. *Chemical Physics Letters*, *246*(3), 300-306. [https://doi.org/10.1016/0009-2614\(95\)01113-N](https://doi.org/10.1016/0009-2614(95)01113-N)

- Knasmüller, S., Zöhrer, E., Kronberg, L., Kundi, M., Franzen, R., & Schulte-Hermann, R. (1996). Mutational spectra of *Salmonella typhimurium* revertants induced by chlorohydroxyfuranones, byproducts of chlorine disinfection of drinking water. *Chemical Research in Toxicology*, 9(2), 374-381. <https://doi.org/10.1021/tx9500686>
- Rantala, T. T., Rantala, T. S., Lantto, V., & Vaara, J. (1996). Surface relaxation of the (1010) face of wurtzite CdS. *Surface Science*, 352-354, 77-82. [https://doi.org/10.1016/0039-6028\(95\)01094-7](https://doi.org/10.1016/0039-6028(95)01094-7)
- Rytkönen, A., Valkealahti, S., & Manninen, M. (1997). Melting and evaporation of argon clusters. *Journal of Chemical Physics*, 106(5), 1888-1892. <https://doi.org/10.1063/1.473327>
- Lepistö, S. S., & Rintala, J. A. (1997). Start-up and Operation of Laboratory-Scale Thermophilic Upflow Anaerobic Sludge Blanket Reactors Treating Vegetable Processing Wastewaters. *Journal of Chemical Technology and Biotechnology*, 68(3), 331-339. [https://doi.org/10.1002/\(SICI\)1097-4660\(199703\)68:3<331::AID-JCTB657>3.0.CO;2-Z](https://doi.org/10.1002/(SICI)1097-4660(199703)68:3<331::AID-JCTB657>3.0.CO;2-Z)
- Hyvönen, M., Ala-Korpela, M., Vaara, J., Rantala, T. T., & Jokisaari, J. (1997). Inequivalence of single CH_a and CH_b methylene bonds in the interior of a diunsaturated lipid bilayer from a molecular dynamics simulation. *Chemical Physics Letters*, 268(1-2), 55-60. [https://doi.org/10.1016/S0009-2614\(97\)00171-1](https://doi.org/10.1016/S0009-2614(97)00171-1)
- Lesot, P., Merlet, D., Courtieu, J., Emsley, J. W., Rantala, T. T., & Jokisaari, J. (1997). Calculation of the molecular ordering parameters of (±)-3-butyn-2-ol dissolved in an organic solution of poly(γ-benzyl-L-glutamate). *Journal of Physical Chemistry A*, 101(31), 5719-5724. <https://doi.org/10.1021/jp9709262>
- Franzén, R., Morita, M., Tanabe, K., Takagi, H., & Shibata, Y. (1997). Investigation of the adducts formed by reaction of butenedioic acids with adenosine. *Chemical Research in Toxicology*, 10(10), 1186-1191. <https://doi.org/10.1021/tx970036d>
- Rantala, T., Lantto, V., & Rantala, T. (1998). Computational approaches to the chemical sensitivity of semiconducting tin dioxide. *Sensors and Actuators B: Chemical*, 47(1-3), 59-64. [https://doi.org/10.1016/S0925-4005\(98\)00007-0](https://doi.org/10.1016/S0925-4005(98)00007-0)
- Kangas, H., Franzén, R., Tois, J., Taskinen, J., & Kostianen, R. (1999). Effect of nitro groups and alkyl chain length on the negative ion tandem mass spectra of alkyl 3-hydroxy-5-(4'-nitrophenoxy) and alkyl 3-hydroxy-5-(2', 4'-dinitrophenoxy) benzoates. *Rapid Communications in Mass Spectrometry*, 13(16), 1680-1684. [https://doi.org/10.1002/\(SICI\)1097-0231\(19990830\)13:16<1680::AID-RCM698>3.0.CO;2-R](https://doi.org/10.1002/(SICI)1097-0231(19990830)13:16<1680::AID-RCM698>3.0.CO;2-R)
- Rantala, T. T., Rantala, T. S., & Lantto, V. (1999). Surface relaxation of the (110) face of rutile SnO₂. *Surface Science*, 420(1), 103-109. [https://doi.org/10.1016/S0039-6028\(98\)00833-4](https://doi.org/10.1016/S0039-6028(98)00833-4)
- Kaski, J., Lantto, P., Rantala, T. T., Schroderus, J., Vaara, J., & Jokisaari, J. (1999). Experimental and theoretical study of the spin-spin coupling tensors in methylsilane. *Journal of Physical Chemistry A*, 103(48), 9669-9677. <https://doi.org/10.1021/jp9920491>
- Franzén, R. (2000). The Suzuki, the Heck, and the Stille reaction - Three versatile methods, for the introduction of new C-C bonds on solid support. *Canadian Journal of Chemistry - Revue Canadienne de Chimie*, 78(7), 957-962. <https://doi.org/10.1139/v00-089>
- Franzén, R. G. (2000). Utilization of Grignard reagents in solid-phase synthesis: A review of the literature. *Tetrahedron*, 56(5), 685-691. [https://doi.org/10.1016/S0040-4020\(99\)00963-1](https://doi.org/10.1016/S0040-4020(99)00963-1)
- Tois, J., Franzén, R., Aitio, O., Huikko, K., & Taskinen, J. (2000). Preparation of 5-substituted 2-carboxyindoles on solid support. *Tetrahedron Letters*, 41(14), 2443-2446. [https://doi.org/10.1016/S0040-4039\(00\)00151-9](https://doi.org/10.1016/S0040-4039(00)00151-9)

- Franzén, R. G. (2000). Recent advances in the preparation of heterocycles on solid support: A review of the literature. *Journal of Combinatorial Chemistry*, 2(3), 195-214. <https://doi.org/10.1021/cc000002f>
- Rantala, T. S., Rantala, T. T., & Lantto, V. (2000). Computational studies for the interpretation of gas response of SnO₂(110) surface. *Sensors and Actuators B: Chemical*, 65(1), 375-378. [https://doi.org/10.1016/S0925-4005\(99\)00292-0](https://doi.org/10.1016/S0925-4005(99)00292-0)
- Tois, J., Franzén, R., Aitio, O., Laakso, I., Huuskonen, J., & Taskinen, J. (2001). Solid-phase bromination and Suzuki coupling of 2-carboxyindoles. *Combinatorial Chemistry and High Throughput Screening*, 4(6), 521-524. <https://doi.org/10.2174/1386207013330887>
- Tois, J., Franzén, R., Aitio, O., Laakso, I., & Kylänlahti, I. (2001). Vilsmeier formylation of 2-carboxyindoles and preparation of O-benzylhydroxyureas on solid phase. *Journal of Combinatorial Chemistry*, 3(6), 542-545. <https://doi.org/10.1021/cc010004f>
- Väisänen, A., Suontamo, R., & Rintala, J. (2002). Control of matrix interferences by the multiple linear regression model in the determination of arsenic, antimony and tin in lead pellets by inductively coupled plasma atomic emission spectrometry. *Journal of Analytical Atomic Spectrometry*, 17(3), 274-276. <https://doi.org/10.1039/b108543n>
- Väisänen, A., Suontamo, R., Silvonen, J., & Rintala, J. (2002). Ultrasound-assisted extraction in the determination of arsenic, cadmium, copper, lead, and silver in contaminated soil samples by inductively coupled plasma atomic emission spectrometry. *Analytical and Bioanalytical Chemistry*, 373(1-2), 93-97. <https://doi.org/10.1007/s00216-002-1290-2>
- Lahtinen, K., & Kuusipalo, J. (2008). Statistical modeling of water vapor transmission rates for extrusion-coated papers. In *TAPPI 2008 PLACE Conference: Innovations in Flexible Consumer Packaging*
- Pakarinen, O., Lehtomäki, A., & Rintala, J. (2008). Batch dark fermentative hydrogen production from grass silage: The effect of inoculum, pH, temperature and VS ratio. *International Journal of Hydrogen Energy*, 33(2), 594-601. <https://doi.org/10.1016/j.ijhydene.2007.10.008>
- Dehmer, M., & Emmert-Streib, F. (2008). The structural information content of chemical networks. *Zeitschrift für Naturforschung Section A: A Journal of Physical Sciences*, 63(3-4), 155-158.
- Dehmer, M., & Emmert-Streib, F. (2008). Structural information content of networks: Graph entropy based on local vertex functionals. *Computational Biology and Chemistry*, 32(2), 131-138. <https://doi.org/10.1016/j.compbiolchem.2007.09.007>
- Lahti, J., Tuominen, M., Penttinen, T., Räsänen, J. P., & Kuusipalo, J. (2009). The effects of corona and flame treatment: Part 2. PE-HD and PP coated papers. In *TAPPI Press - 12th European PLACE Conference 2009* (Vol. 1, pp. 278-314)
- Dehmer, M., Varmuza, K., Borgert, S., & Emmert-Streib, F. (2009). On entropy-based molecular descriptors: Statistical analysis of real and synthetic chemical structures. *Journal of Chemical Information and Modeling*, 49(7), 1655-1663. <https://doi.org/10.1021/ci900060x>
- Dantelle, G., Slablab, A., Rondin, L., Lainé, F., Carrel, F., Bergonzo, P., ... Roch, J. F. (2010). Efficient production of NV colour centres in nanodiamonds using high-energy electron irradiation. *Journal of Luminescence*, 130(9), 1655-1658. <https://doi.org/10.1016/j.jlumin.2009.12.003>
- Gilardi, G., Asquini, R., D'Alessandro, A., & Assanto, G. (2011). An electro-optically tunable Bragg reflector based on liquid crystals. *Molecular Crystals and Liquid Crystals*, 549, 62-68. <https://doi.org/10.1080/15421406.2011.581137>
- Vähä-Nissi, M., Hirvikorpi, T., Sievänen, J., Salo, E., Harlin, A., Johansson, P., & Kuusipalo, J. (2011). Effect of pre-treatments on barrier properties of layers applied by atomic layer deposition onto polymer-coated substrates. In *13th European PLACE Conference 2011* (Vol. 1, pp. 447)

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

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

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

Dehmer, M., Emmert-Streib, F., Tsoy, Y. R., & Varmuza, K. (2011). Quantifying structural complexity of graphs: Information measures in mathematical chemistry. In M. V. Putz (Ed.), *Quantum Frontiers of Atoms and Molecules* (pp. 479-497). Nova Science Publishers, Inc..

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

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

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

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

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

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

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

Miller, A. E., Petersen, P. B., Hollars, C. W., Saykally, R. J., Heyda, J., & Jungwirth, P. (2011). Behavior of β -amyloid 1-16 at the air-water interface at varying ph by nonlinear spectroscopy and molecular dynamics simulations. *Journal of Physical Chemistry A*, 115(23), 5873-5880. <https://doi.org/10.1021/jp110103j>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Li, Y., Tao, S. C., Bova, G. S., Liu, A. Y., Chan, D. W., Zhu, H., & Zhang, H. (2011). Detection and verification of glycosylation patterns of glycoproteins from clinical specimens using lectin microarrays and lectin-based immunosorbent assays. *Analytical Chemistry*, *83*(22), 8509-8516. <https://doi.org/10.1021/ac201452f>

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

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

- Manna, M., & Mukhopadhyay, C. (2011). Cholesterol driven alteration of the conformation and dynamics of phospholamban in model membranes. *Physical Chemistry Chemical Physics*, 13(45), 20188-20198. <https://doi.org/10.1039/c1cp21793c>
- Härkönen, H. H., Mattsson, J. M., Määttä, J. A. E., Stenman, U. H., Koistinen, H., Matero, S., ... Lahtela-Kakkonen, M. (2011). The Discovery of Compounds That Stimulate the Activity of Kallikrein-Related Peptidase3 (KLK3). *CHEMMEDCHEM*, 6(12), 2170-2178. <https://doi.org/10.1002/cmdc.201100349>
- Marsalek, O., Elles, C. G., Pieniazek, P. A., Pluhaov, E., Vandevondele, J., Bradforth, S. E., & Jungwirth, P. (2011). Chasing charge localization and chemical reactivity following photoionization in liquid water. *Journal of Chemical Physics*, 135(22), [224510]. <https://doi.org/10.1063/1.3664746>
- Tevyashova, A. N., Shtil, A. A., Olsufyeva, E. N., Luzikov, Y. N., Reznikova, M. I., Dezhenkova, L. G., ... Preobrazhenskaya, M. N. (2011). Modification of olivomycin A at the side chain of the aglycon yields the derivative with perspective antitumor characteristics. *BIOORGANIC AND MEDICINAL CHEMISTRY*, 19(24), 7387-7393. <https://doi.org/10.1016/j.bmc.2011.10.055>
- Valtakari, D., Bollström, R., Tuominen, M., Teisala, H., Aromaa, M., Toivakka, M., ... Saarinen, J. J. (2012). Conductive layers on surface modified natural fibre based substrates for printed functionality. In *AICHE 2012 - 2012 AIChE Annual Meeting, Conference Proceedings*
- Leuteritz, A., Kutlu, B., Meinel, J., Wang, D., Das, A., Wagenknecht, U., & Heinrich, G. (2012). Layered Double Hydroxides (LDH): A multifunctional versatile system for nanocomposites. *Molecular Crystals and Liquid Crystals*, 556, 107-113. <https://doi.org/10.1080/15421406.2012.635923>
- Priimagi, A., Shimamura, A., Kondo, M., Hiraoka, T., Kubo, S., Mamiya, J. I., ... Shishido, A. (2012). Location of the Azobenzene moieties within the cross-linked liquid-crystalline polymers can dictate the direction of photoinduced bending. *ACS Macro Letters*, 1(1), 96-99. <https://doi.org/10.1021/mz200056w>
- Marsalek, O., Uhlig, F., Vandevondele, J., & Jungwirth, P. (2012). Structure, dynamics, and reactivity of hydrated electrons by Ab initio molecular dynamics. *Accounts of Chemical Research*, 45(1), 23-32. <https://doi.org/10.1021/ar200062m>
- Koskela, J. E., Vapaavuori, J., Hautala, J., Priimagi, A., Faul, C. F. J., Kaivola, M., & Ras, R. H. A. (2012). Surface-relief gratings and stable birefringence inscribed using light of broad spectral range in supramolecular polymer-bisazobenzene complexes. *Journal of Physical Chemistry C*, 116(3), 2363-2370. <https://doi.org/10.1021/jp210706n>
- Nandre, K. P., Salunke, J. K., Nandre, J. P., Patil, V. S., Borse, A. U., & Bhosale, S. V. (2012). Glycerol mediated synthesis of 5-substituted 1H-tetrazole under catalyst free conditions. *Chinese Chemical Letters*, 23(2), 161-164. <https://doi.org/10.1016/j.ccllet.2011.11.019>
- Das, A., George, J. J., Kutlu, B., Leuteritz, A., Wang, D. Y., Rooj, S., ... Heinrich, G. (2012). A novel thermotropic elastomer based on highly-filled LDH-SSB composites. *Macromolecular Rapid Communications*, 33(4), 337-342. <https://doi.org/10.1002/marc.201100735>
- Stradomska, A., Kulig, W., Slawik, M., & Petelenz, P. (2012). Excited-state polarizability in crystalline sexithiophene: Charge-transfer and vibronic effects. *Chemical Physics Letters*, 529, 27-30. <https://doi.org/10.1016/j.cplett.2012.01.038>
- Rooj, S., Das, A., Stöckelhuber, K. W., Reuter, U., & Heinrich, G. (2012). Highly exfoliated natural rubber/Clay composites by "propping-open procedure": The influence of fatty-acid chain length on exfoliation. *Macromolecular Materials and Engineering*, 297(4), 369-383. <https://doi.org/10.1002/mame.201100185>
- Wang, D. Y., Das, A., Leuteritz, A., Mahaling, R. N., Jehnichen, D., Wagenknecht, U., & Heinrich, G. (2012). Structural characteristics and flammability of fire retarding EPDM/layered double hydroxide (LDH) nanocomposites. *RSC Advances*, 2(9), 3927-3933. <https://doi.org/10.1039/c2ra20189e>

- Ma, L., Atta-Fynn, R., & Ray, A. K. (2012). Elemental and mixed actinide dioxides: An ab initio study. *Journal of Theoretical and Computational Chemistry*, 11(3), 611-629. <https://doi.org/10.1142/S021963361250040X>
- Vazdar, M., Jurkiewicz, P., Hof, M., Jungwirth, P., & Cwiklik, L. (2012). Behavior of 4-hydroxynonenal in phospholipid membranes. *Journal of Physical Chemistry Part B*, 116(22), 6411-6415. <https://doi.org/10.1021/jp3044219>
- Priimagi, A., Cavallo, G., Forni, A., Gorynsztejn-Leben, M., Kaivola, M., Metrangolo, P., ... Terraneo, G. (2012). Halogen bonding versus hydrogen bonding in driving self-assembly and performance of light-responsive supramolecular polymers. *Advanced Functional Materials*, 22(12), 2572-2579. <https://doi.org/10.1002/adfm.201200135>
- Rembert, K. B., Paterová, J., Heyda, J., Hilty, C., Jungwirth, P., & Cremer, P. S. (2012). Molecular mechanisms of ion-specific effects on proteins. *Journal of the American Chemical Society*, 134(24), 10039-10046. <https://doi.org/10.1021/ja301297g>
- Mason, P. E., Wernersson, E., & Jungwirth, P. (2012). Accurate description of aqueous carbonate ions: An effective polarization model verified by neutron scattering. *Journal of Physical Chemistry Part B*, 116(28), 8145-8153. <https://doi.org/10.1021/jp3008267>
- Serak, S. V., Tabiryan, N. V., & Assanto, G. (2012). Nematicons in azobenzene liquid crystals. *Molecular Crystals and Liquid Crystals*, 559, 202-213. <https://doi.org/10.1080/15421406.2012.658710>
- Kousoulidou, M., Ntziachristos, L., Fontaras, G., Martini, G., Dilara, P., & Samaras, Z. (2012). Impact of biodiesel application at various blending ratios on passenger cars of different fueling technologies. *Fuel*, 98, 88-94. <https://doi.org/10.1016/j.fuel.2012.03.038>
- Pegado, L., Marsalek, O., Jungwirth, P., & Wernersson, E. (2012). Solvation and ion-pairing properties of the aqueous sulfate anion: Explicit versus effective electronic polarization. *Physical Chemistry Chemical Physics*, 14(29), 10248-10257. <https://doi.org/10.1039/c2cp40711f>
- Kapgate, B. P., Das, C., Das, A., Basu, D., Reuter, U., & Heinrich, G. (2012). Effect of sol-gel derived in situ silica on the morphology and mechanical behavior of natural rubber and acrylonitrile butadiene rubber blends. *JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY*, 63(3), 501-509. <https://doi.org/10.1007/s10971-012-2812-9>
- Bardhan, J. P., Jungwirth, P., & Makowski, L. (2012). Affine-response model of molecular solvation of ions: Accurate predictions of asymmetric charging free energies. *Journal of Chemical Physics*, 137(12), [124101]. <https://doi.org/10.1063/1.4752735>
- Gao, W., Feng, Y., Lu, J., Khan, M., & Guo, J. (2012). Biomimetic surface modification of polycarbonateurethane film via phosphorylcholine-graft for resisting platelet adhesion. *Macromolecular Research*, 20(10), 1063-1069. <https://doi.org/10.1007/s13233-012-0152-9>
- Le, H. H., Hoang, X. T., Das, A., Gohs, U., Stoeckelhuber, K. W., Boldt, R., ... Radusch, H. J. (2012). Kinetics of filler wetting and dispersion in carbon nanotube/rubber composites. *Carbon*, 50(12), 4543-4556. <https://doi.org/10.1016/j.carbon.2012.05.039>
- Khan, M. N., Tjong, V., Chilkoti, A., & Zharnikov, M. (2012). Fabrication of ssDNA/oligo(ethylene glycol) monolayers and complex nanostructures by an irradiation-promoted exchange reaction. *Angewandte Chemie (International Edition)*, 51(41), 10303-10306. <https://doi.org/10.1002/anie.201204245>
- Mahimwalla, Z., Yager, K. G., Mamiya, J. I., Shishido, A., Priimagi, A., & Barrett, C. J. (2012). Azobenzene photomechanics: Prospects and potential applications. *Polymer Bulletin*, 69(8), 967-1006. <https://doi.org/10.1007/s00289-012-0792-0>

- Steinhauser, D., Subramaniam, K., Das, A., Heinrich, G., & Klüppel, M. (2012). Influence of ionic liquids on the dielectric relaxation behavior of CNT based elastomer nanocomposites. *Express Polymer Letters*, 6(11), 927-936. <https://doi.org/10.3144/expresspolymlett.2012.98>
- Lisitsyna, E. S., Lygo, O. N., Durandin, N. A., Dement'eva, O. V., Rudoi, V. M., & Kuzmin, V. A. (2012). Superquenching of SYBRGreen dye fluorescence in complex with DNA by gold nanoparticles. *HIGH ENERGY CHEMISTRY*, 46(6), 363-367. <https://doi.org/10.1134/S0018143912060057>
- Pluhařová, E., Ončák, M., Seidel, R., Schroeder, C., Schroeder, W., Winter, B., ... Slaviček, P. (2012). Transforming anion instability into stability: Contrasting photoionization of three protonation forms of the phosphate ion upon moving into water. *Journal of Physical Chemistry Part B*, 116(44), 13254-13264. <https://doi.org/10.1021/jp306348b>
- Ma, L., Wang, J., & Wang, G. (2012). Search for global minimum geometries of medium sized Cd_nTe_n clusters (n = 15, 16, 20, 24 and 28). *Chemical Physics Letters*, 552, 73-77. <https://doi.org/10.1016/j.cplett.2012.09.036>
- Pluhařová, E., Marsalek, O., Schmidt, B., & Jungwirth, P. (2012). Peptide salt bridge stability: From gas phase via microhydration to bulk water simulations. *Journal of Chemical Physics*, 137(18), [185101]. <https://doi.org/10.1063/1.4765052>
- Buchholz, M., Goletz, C. M., Grossmann, F., Schmidt, B., Heyda, J., & Jungwirth, P. (2012). Semiclassical hybrid approach to condensed phase molecular dynamics: Application to the I₂Kr₁₇ cluster. *Journal of Physical Chemistry A*, 116(46), 11199-11210. <https://doi.org/10.1021/jp305084f>
- Mubarakali, D., Praveenkumar, R., Shenbagavalli, T., Mari Nivetha, T., Parveez Ahamed, A., Al-Dhabi, N. A., & Thajuddin, N. (2012). New reports on anti-bacterial and anti-candidal activities of fatty acid methyl esters (FAME) obtained from *Scenedesmus bijugatus* var. *bicellularis* biomass. *RSC Advances*, 2(30), 11552-11556. <https://doi.org/10.1039/c2ra21130k>
- Lahtinen, K., Lahti, J., Johansson, P., Seppänen, T., & Cameron, D. C. (2013). Improving the effect of a nanoscale barrier coating on BOPP film properties by surface pretreatments. In *14th European PLACE Conference 2013* (Vol. 1, pp. 469-493). TAPPI Press.
- Ylilauri, M., Mattila, E., Nurminen, E. M., Käpylä, J., Niinivehmas, S. P., Määttä, J. A., ... Pentikäinen, O. T. (2013). Molecular mechanism of T-cell protein tyrosine phosphatase (TCPTP) activation by mitoxantrone. *Biochimica et biophysica acta: proteins and proteomics*, 1834(10), 1988-1997. <https://doi.org/10.1016/j.bbapap.2013.07.001>
- Kulig, W., & Agmon, N. (2013). A 'clusters-in-liquid' method for calculating infrared spectra identifies the proton-transfer mode in acidic aqueous solutions. *Nature Chemistry*, 5(1), 29-35. <https://doi.org/10.1038/nchem.1503>
- Wang, H., Feng, Y., Zhao, H., Fang, Z., Khan, M., & Guo, J. (2013). A potential nonthrombogenic small-diameter vascular scaffold with polyurethane/poly(ethylene glycol) hybrid materials by electrospinning technique. *Journal Nanoscience and Nanotechnology*, 13(2), 1578-1582. <https://doi.org/10.1166/jnn.2013.6051>
- Ma, L., Wang, J., Hao, Y., & Wang, G. (2013). Density functional theory study of FePd_n (n = 2-14) clusters and interactions with small molecules. *Computational Materials Science*, 68, 166-173. <https://doi.org/10.1016/j.commatsci.2012.10.014>
- Ma, L., & Ray, A. K. (2013). Growth behavior and magnetic properties of spherical uranium oxide nanoclusters. *Journal of Computational and Theoretical Nanoscience*, 10(2), 334-340. <https://doi.org/10.1166/jctn.2013.2701>
- Subramaniam, K., Das, A., Simon, F., & Heinrich, G. (2013). Networking of ionic liquid modified CNTs in SSBR. *European Polymer Journal*, 49(2), 345-352. <https://doi.org/10.1016/j.eurpolymj.2012.10.023>

- Fafarman, A. T., Hong, S. H., Caglayan, H., Ye, X., Diroll, B. T., Paik, T., ... Kagan, C. R. (2013). Chemically tailored dielectric-to-metal transition for the design of metamaterials from nanoimprinted colloidal nanocrystals. *Nano Letters*, 13(2), 350-357. <https://doi.org/10.1021/nl303161d>
- Vazdar, M., Jungwirth, P., & Mason, P. E. (2013). Aqueous guanidinium-carbonate interactions by molecular dynamics and neutron scattering: Relevance to ion-protein interactions. *Journal of Physical Chemistry Part B*, 117(6), 1844-1848. <https://doi.org/10.1021/jp310719g>
- Rasappa, S., Borah, D., Faulkner, C. C., Lutz, T., Shaw, M. T., Holmes, J. D., & Morris, M. A. (2013). Fabrication of a sub-10 nm silicon nanowire based ethanol sensor using block copolymer lithography. *Nanotechnology*, 24(6), [065503]. <https://doi.org/10.1088/0957-4484/24/6/065503>
- Barboza, R., Bortolozzo, U., Assanto, G., & Residori, S. (2013). Optical vortex generation in nematic liquid crystal light valves. *Molecular Crystals and Liquid Crystals*, 572(1), 24-30. <https://doi.org/10.1080/15421406.2012.763206>
- Borah, D., Ozmen, M., Rasappa, S., Shaw, M. T., Holmes, J. D., & Morris, M. A. (2013). Molecularly functionalized silicon substrates for orientation control of the microphase separation of PS-b-PMMA and PS-b-PDMS block copolymer systems. *Langmuir*, 29(9), 2809-2820. <https://doi.org/10.1021/la304140q>
- Ma, L., Wang, J., & Wang, G. (2013). Site-specific analysis of dipole polarizabilities of heterogeneous systems: Iron-doped Si_n (n = 1-14) clusters. *Journal of Chemical Physics*, 138(9), [094304]. <https://doi.org/10.1063/1.4793276>
- Pale, V., Nikkonen, T., Vapaavuori, J., Kostianen, M., Kavakka, J., Selin, J., ... Helaja, J. (2013). Biomimetic zinc chlorin-poly(4-vinylpyridine) assemblies: Doping level dependent emission-absorption regimes. *Journal of Materials Chemistry C*, 1(11), 2166-2173. <https://doi.org/10.1039/c3tc00499f>
- Rooj, S., Das, A., Stöckelhuber, K. W., Wang, D. Y., Galiatsatos, V., & Heinrich, G. (2013). Understanding the reinforcing behavior of expanded clay particles in natural rubber compounds. *Soft Matter*, 9(14), 3798-3808. <https://doi.org/10.1039/c3sm27519a>
- Vapaavuori, J., Mahimwalla, Z., Chromik, R. R., Kaivola, M., Priimagi, A., & Barrett, C. J. (2013). Nanoindentation study of light-induced softening of supramolecular and covalently functionalized azo polymers. *Journal of Materials Chemistry C*, 1(16), 2806-2810. <https://doi.org/10.1039/c3tc30246f>
- Tan, M., Feng, Y., Wang, H., Zhang, L., Khan, M., Guo, J., ... Liu, J. (2013). Immobilized bioactive agents onto polyurethane surface with heparin and phosphorylcholine group. *Macromolecular Research*, 21(5), 541-549. <https://doi.org/10.1007/s13233-013-1028-3>
- Bayr, S., Kaparaju, P., & Rintala, J. (2013). Screening pretreatment methods to enhance thermophilic anaerobic digestion of pulp and paper mill wastewater treatment secondary sludge. *Chemical Engineering Journal*, 223, 479-486. <https://doi.org/10.1016/j.cej.2013.02.119>
- McManamon, C., Delaney, P., Kavanagh, C., Wang, J. J., Rasappa, S., & Morris, M. A. (2013). Depth profiling of PLGA copolymer in a novel biomedical bilayer using confocal raman spectroscopy. *Langmuir*, 29(19), 5905-5910. <https://doi.org/10.1021/la400402a>
- Pelto, J. M., Haimi, S. P., Siljander, A. S., Miettinen, S. S., Tappura, K. M., Higgins, M. J., & Wallace, G. G. (2013). Surface properties and interaction forces of biopolymer-doped conductive polypyrrole surfaces by atomic force microscopy. *Langmuir*, 29(20), 6099-6108. <https://doi.org/10.1021/la4009366>
- Štěpánková, V., Paterová, J., Damborský, J., Jungwirth, P., Chaloupková, R., & Heyda, J. (2013). Cation-specific effects on enzymatic catalysis driven by interactions at the tunnel mouth. *Journal of Physical Chemistry Part B*, 117(21), 6394-6402. <https://doi.org/10.1021/jp401506v>

- Gerlofs-Nijland, M. E., Totlandsdal, A. I., Tzamkiozis, T., Leseman, D. L. A. C., Samaras, Z., Låg, M., ... Cassee, F. R. (2013). Cell toxicity and oxidative potential of engine exhaust particles: Impact of using particulate filter or biodiesel fuel blend. *Environmental Science and Technology*, *47*(11), 5931-5938. <https://doi.org/10.1021/es305330y>
- Gordon, T. R., Paik, T., Klein, D. R., Naik, G. V., Caglayan, H., Boltasseva, A., & Murray, C. B. (2013). Shape-dependent plasmonic response and directed self-assembly in a new semiconductor building block, indium-doped cadmium oxide (ICO). *Nano Letters*, *13*(6), 2857-2863. <https://doi.org/10.1021/nl4012003>
- Diban, N., Haimi, S., Bolhuis-Versteeg, L., Teixeira, S., Miettinen, S., Poot, A., ... Stamatialis, D. (2013). Development and characterization of poly(ϵ -caprolactone) hollow fiber membranes for vascular tissue engineering. *Journal of Membrane Science*, *438*, 29-37. <https://doi.org/10.1016/j.memsci.2013.03.024>
- Stumpel, J. E., Liu, D., Broer, D. J., & Schenning, A. P. H. J. (2013). Photoswitchable hydrogel surface topographies by polymerisation-induced diffusion. *Chemistry: A European Journal*, *19*(33), 10922-10927. <https://doi.org/10.1002/chem.201300852>
- Paterová, J., Rembert, K. B., Heyda, J., Kurra, Y., Okur, H. I., Liu, W. R., ... Jungwirth, P. (2013). Reversal of the Hofmeister series: Specific ion effects on peptides. *Journal of Physical Chemistry Part B*, *117*(27), 8150-8158. <https://doi.org/10.1021/jp405683s>
- Borah, D., Rasappa, S., Senthamaraiannan, R., Holmes, J. D., & Morris, M. A. (2013). Tuning PDMS brush chemistry by UV-O₃ exposure for PS-b-PDMS microphase separation and directed self-assembly. *Langmuir*, *29*(28), 8959-8968. <https://doi.org/10.1021/la401561k>
- Khan, M. N., & Zharnikov, M. (2013). Irradiation promoted exchange reaction with disulfide substituents. *Journal of Physical Chemistry C*, *117*(28), 14534-14543. <https://doi.org/10.1021/jp4006026>
- Stirnemann, G., Wernersson, E., Jungwirth, P., & Laage, D. (2013). Mechanisms of acceleration and retardation of water dynamics by ions. *Journal of the American Chemical Society*, *135*(32), 11824-11831. <https://doi.org/10.1021/ja405201s>
- Khan, M. N., Tjong, V., Chilkoti, A., & Zharnikov, M. (2013). Spectroscopic study of a DNA brush synthesized in situ by surface initiated enzymatic polymerization. *Journal of Physical Chemistry Part B*, *117*(34), 9929-9938. <https://doi.org/10.1021/jp404774x>
- Laitaoja, M., Valjakka, J., & Jänis, J. (2013). Zinc coordination spheres in protein structures. *Inorganic Chemistry*, *52*(19), 10983-10991. <https://doi.org/10.1021/ic401072d>
- Sterpone, F., Nguyen, P. H., Kalimeri, M., & Derreumaux, P. (2013). Importance of the ion-pair interactions in the OPEP coarse-grained force field: Parametrization and validation. *Journal of Chemical Theory and Computation*, *9*(10), 4574-4584. <https://doi.org/10.1021/ct4003493>
- Pollheimer, P., Taskinen, B., Scherfler, A., Gusenkov, S., Creus, M., Wiesauer, P., ... Gruber, H. J. (2013). Reversible biofunctionalization of surfaces with a switchable mutant of avidin. *Bioconjugate Chemistry*, *24*(10), 1656-1668. <https://doi.org/10.1021/bc400087e>
- Niskanen, M., Kuisma, M., Cramariuc, O., Golovanov, V., Hukka, T. I., Tkachenko, N., & Rantala, T. T. (2013). Porphyrin adsorbed on the (1010) surface of the wurtzite structure of ZnO-conformation induced effects on the electron transfer characteristics. *Physical Chemistry Chemical Physics*, *15*(40), 17408-17418. <https://doi.org/10.1039/c3cp51685g>
- Uhlig, F., & Jungwirth, P. (2013). Embedded cluster models for reactivity of the hydrated electron. *ZEITSCHRIFT FÜR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY AND CHEMICAL PHYSICS*, *227*(11), 1583-1593. <https://doi.org/10.1524/zpch.2013.0402>

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

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

Priimagi, A., Cavallo, G., Metrangolo, P., & Resnati, G. (2013). The Halogen Bond in the Design of Functional Supramolecular Materials: Recent Advances. *Accounts of Chemical Research*, 46(11), 2686-2695. <https://doi.org/10.1021/ar400103r>

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

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

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

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

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

German, S. J., Behbahani, M., Miettinen, S., Grijpma, D. W., & Haimi, S. P. (2013). Proliferation and differentiation of adipose stem cells towards smooth muscle cells on poly(trimethylene carbonate) membranes. *Macromolecular symposia*, 334(1), 133-142. <https://doi.org/10.1002/masy.201300100>

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

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

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

Wang, J., & Ray, A. K. (2014). A full-potential linearized augmented plane wave study of the interaction of CO₂ with α -Pu (020) surface nanolayers. *Journal of Computational and Theoretical Nanoscience*, 11(7), 1710-1717. <https://doi.org/10.1166/jctn.2014.3555>

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

Savolainen, J., Uhlig, F., Ahmed, S., Hamm, P., & Jungwirth, P. (2014). Direct observation of the collapse of the delocalized excess electron in water. *Nature Chemistry*, *6*(8), 697-701. <https://doi.org/10.1038/nchem.1995>

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

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

Lahti, J., Johansson, P., Lahtinen, K., Cameron, D. C., & Seppänen, T. (2014). Improving the effect of nanoscale barrier coating on BOPP film properties: Influence of substrate contamination, web handling and pretreatments. In *TAPPI PLACE Conference 2014* (Vol. 2, pp. 1039-1061). TAPPI Press.

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

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

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

Akimova, A. V., Grin, M. A., Golovina, G. V., Kokrashvili, T. A., Vinogradov, A. M., Mironov, A. F., ... Durandin, N. A. (2014). Novel derivatives of bacteriochlorophyll a: Complex formation with albumin and the mechanism of tumor cell photodamage. *DOKLADY BIOCHEMISTRY AND BIOPHYSICS*, *454*(1), 17-20. <https://doi.org/10.1134/S1607672914010062>

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

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

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

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

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

- Khan, M. N., & Zharnikov, M. (2014). Fabrication of ssDNA/oligo(ethylene glycol) monolayers by promoted exchange reaction with thiol and disulfide substituents. *Journal of Physical Chemistry C*, *118*(6), 3093-3101. <https://doi.org/10.1021/jp411353f>
- Kulig, W., & Agmon, N. (2014). Deciphering the infrared spectrum of the protonated water pentamer and the hybrid Eigen-Zundel cation. *Physical Chemistry Chemical Physics*, *16*(10), 4933-4941. <https://doi.org/10.1039/c3cp54029d>
- Hytönen, V. P., & Wehrle-Haller, B. (2014). Protein conformation as a regulator of cell-matrix adhesion. *Physical Chemistry Chemical Physics*, *16*(14), 6342-6357. <https://doi.org/10.1039/c3cp54884h>
- Kuzmin, M. G., Soboleva, I. V., Durandin, N. A., Lisitsyna, E. S., & Kuzmin, V. A. (2014). Microphase mechanism of "superquenching" of luminescent probes in aqueous solutions of DNA and some other polyelectrolytes. *Journal of Physical Chemistry Part B*, *118*(15), 4245-4252. <https://doi.org/10.1021/jp500713q>
- Koskela, J. E., Liljeström, V., Lim, J., Simanek, E. E., Ras, R. H. A., Priimagi, A., & Kostianen, M. A. (2014). Light-fuelled transport of large dendrimers and proteins. *Journal of the American Chemical Society*, *136*(19), 6850-6853. <https://doi.org/10.1021/ja502623m>
- Raghuwanshi, S., Deswal, D., Karp, M., & Kuhad, R. C. (2014). Bioprocessing of enhanced cellulase production from a mutant of *Trichoderma asperellum* RCK2011 and its application in hydrolysis of cellulose. *Fuel*, *124*, 183-189. <https://doi.org/10.1016/j.fuel.2014.01.107>
- Pluhařová, E., Fischer, H. E., Mason, P. E., & Jungwirth, P. (2014). Hydration of the chloride ion in concentrated aqueous solutions using neutron scattering and molecular dynamics. *Molecular Physics*, *112*(9-10), 1230-1240. <https://doi.org/10.1080/00268976.2013.875231>
- Mahmood, N., Khan, A. U., Stöckelhuber, K. W., Das, A., Jehnichen, D., & Heinrich, G. (2014). Carbon nanotubes-filled thermoplastic polyurethane-urea and carboxylated acrylonitrile butadiene rubber blend nanocomposites. *Journal of Applied Polymer Science*, *131*(11). <https://doi.org/10.1002/app.40341>
- Werner, J., Wernersson, E., Ekholm, V., Ottosson, N., Öhrwall, G., Heyda, J., ... Björneholm, O. (2014). Surface behavior of hydrated guanidinium and ammonium ions: A comparative study by photoelectron spectroscopy and molecular dynamics. *Journal of Physical Chemistry Part B*, *118*(25), 7119-7127. <https://doi.org/10.1021/jp500867w>
- Kohagen, M., Mason, P. E., & Jungwirth, P. (2014). Accurate description of calcium solvation in concentrated aqueous solutions. *Journal of Physical Chemistry Part B*, *118*(28), 7902-7909. <https://doi.org/10.1021/jp5005693>
- Oksa, M., Varis, T., & Ruusuvoori, K. (2014). Performance testing of iron based thermally sprayed HVOF coatings in a biomass-fired fluidised bed boiler. *Surface and Coatings Technology*, *251*, 191-200. <https://doi.org/10.1016/j.surfcoat.2014.04.025>
- Kurppa, K., Hytönen, V. P., Nakari-Setälä, T., Kulomaa, M. S., & Linder, M. B. (2014). Molecular engineering of avidin and hydrophobin for functional self-assembling interfaces. *Colloids and Surfaces B: Biointerfaces*, *120*, 102-109. <https://doi.org/10.1016/j.colsurfb.2014.05.010>
- Kapgate, B. P., Das, C., Basu, D., Das, A., Heinrich, G., & Reuter, U. (2014). Effect of silane integrated sol-gel derived in situ silica on the properties of nitrile rubber. *Journal of Applied Polymer Science*, *131*(15), [40531]. <https://doi.org/10.1002/app.40531>
- Le, H. H., Abhijeet, S., Ilisch, S., Klehm, J., Henning, S., Beiner, M., ... Radosch, H. J. (2014). The role of linked phospholipids in the rubber-filler interaction in carbon nanotube (CNT) filled natural rubber (NR) composites. *Polymer*, *55*(18), 4738-4747. <https://doi.org/10.1016/j.polymer.2014.07.043>

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

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

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

Salunke, J. K., Sonar, P., Wong, F. L., Roy, V. A. L., Lee, C. S., & Wadgaonkar, P. P. (2014). Pyrene based conjugated materials: Synthesis, characterization and electroluminescent properties. *Physical Chemistry Chemical Physics*, *16*(42), 23320-23328. <https://doi.org/10.1039/c4cp03693j>

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

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

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

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

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

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

Tawade, B. V., Salunke, J. K., Sane, P. S., & Wadgaonkar, P. P. (2014). Processable aromatic polyesters based on bisphenol derived from cashew nut shell liquid: synthesis and characterization. *JOURNAL OF POLYMER RESEARCH*, *21* (12). <https://doi.org/10.1007/s10965-014-0617-y>

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

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

Taskinen, B., Zauner, D., Lehtonen, S. I., Koskinen, M., Thomson, C., Kähkönen, N., ... Hytönen, V. P. (2014). Switchavidin: Reversible biotin-avidin-biotin bridges with high affinity and specificity. *Bioconjugate Chemistry*, *25*(12), 2233-2243. <https://doi.org/10.1021/bc500462w>

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

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

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

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

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

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

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

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

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

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

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

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

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

Stumpel, J. E., Broer, D. J., & Schenning, A. P. H. J. (2015). Water-responsive dual-coloured photonic polymer coatings based on cholesteric liquid crystals. *RSC Advances*, 5(115), 94650-94653. <https://doi.org/10.1039/c5ra18017a>

- Nazir, R., Bourquard, F., Balčiūnas, E., Smoleń, S., Gray, D., Tkachenko, N. V., ... Gryko, D. T. (2015). π -Expanded α,β -unsaturated ketones: Synthesis, optical properties, and two-photon-induced polymerization. *ChemPhysChem*, *16*(3), 682–690. <https://doi.org/10.1002/cphc.201402646>
- Mettänen, M., & Hirn, U. (2015). A comparison of five optical surface topography measurement methods. *TAPPI Journal*, *14*(1), 27-38.
- Hukka, J. J., & Katko, T. S. (2015). Appropriate pricing policy needed worldwide for improving water services infrastructure. *Journal American Water Works Association*, *107*(1), E37-E46. <https://doi.org/10.5942/jawwa.2015.107.0007>
- Yi, H., Albrecht, M., Valkonen, A., & Rissanen, K. (2015). Perfluoro-1,1'-biphenyl and perfluoronaphthalene and their derivatives as π -acceptors for anions. *New Journal of Chemistry*, *39*(1), 746-749. <https://doi.org/10.1039/c4nj01654h>
- Reeta, P. S., Khetubol, A., Jella, T., Chukharev, V., Abou-Chahine, F., Tkachenko, N. V., ... Lemmetyinen, H. (2015). Photophysical properties of Sn (IV)tetraphenylporphyrin-pyrene dyad with a β -vinyl linker. *Journal of Porphyrins and Phthalocyanines*, *19*(1-3), 288-300. <https://doi.org/10.1142/S1088424615500108>
- Khan, M., Yang, J., Shi, C., Feng, Y., Zhang, W., Gibney, K., & Tew, G. N. (2015). Manipulation of polycarbonate urethane bulk properties via incorporated zwitterionic polynorbornene for tissue engineering application. *RSC Advances*, *5*(15), 11284-11292. <https://doi.org/10.1039/C4RA14608E>
- Schroeder, C. A., Pluharová, E., Seidel, R., Schroeder, W. P., Faubel, M., Slavíček, P., ... Bradforth, S. E. (2015). Oxidation half-reaction of aqueous nucleosides and nucleotides via photoelectron spectroscopy augmented by ab initio calculations. *Journal of the American Chemical Society*, *137*(1), 201-209. <https://doi.org/10.1021/ja508149e>
- Czaplicki, R., Mäkitalo, J., Siikanen, R., Husu, H., Lehtolahti, J., Kuittinen, M., & Kauranen, M. (2015). Second-Harmonic Generation from Metal Nanoparticles: Resonance Enhancement versus Particle Geometry. *Nano Letters*, *15*(1), 530-534. <https://doi.org/10.1021/nl503901e>
- Shin, J., Cherstvy, A. G., & Metzler, R. (2015). Kinetics of polymer looping with macromolecular crowding: Effects of volume fraction and crowder size. *Soft Matter*, *11*(3), 472-488. <https://doi.org/10.1039/c4sm02007c>
- Ghosh, S. K., Cherstvy, A. G., & Metzler, R. (2015). Non-universal tracer diffusion in crowded media of non-inert obstacles. *Physical Chemistry Chemical Physics*, *17*(3), 1847-1858. <https://doi.org/10.1039/c4cp03599b>
- Li, Z., Le, T., Wu, Z., Yao, Y., Li, L., Tentzeris, M., ... Wong, C. P. (2015). Rational design of a printable, highly conductive silicone-based electrically conductive adhesive for stretchable radio-frequency antennas. *Advanced Functional Materials*, *25*(3), 464-470. <https://doi.org/10.1002/adfm.201403275>
- Goh, J.-Q., Malola, S., Häkkinen, H., & Akola, J. (2015). Silver sulfide nanoclusters and the superatom model. *Journal of Physical Chemistry C*, *119*(3), 1583-1590. <https://doi.org/10.1021/jp511037x>
- Saccone, M., Dichiarante, V., Forni, A., Goulet-Hanssens, A., Cavallo, G., Vapaavuori, J., ... Priimägi, A. (2015). Supramolecular hierarchy among halogen and hydrogen bond donors in light-induced surface patterning. *Journal of Materials Chemistry C*, *3*, 759-768. <https://doi.org/10.1039/c4tc02315c>
- Fatarelle, E., Mylläri, V., Ruzzante, M., Pogni, R., Baratto, M. C., Skrifvars, M., ... Järvelä, P. (2015). Sulfonated polyetheretherketone/polypropylene polymer blends for the production of photoactive materials. *Journal of Applied Polymer Science*, *132*(8), [41509]. <https://doi.org/10.1002/app.41509>
- Bautista, G., Mäkitalo, J., Chen, Y., Dhaka, V., Grasso, M., Karvonen, L., ... Kauranen, M. (2015). Second-harmonic generation imaging of semiconductor nanowires with focused vector beams. *Nano Letters*, *15*(3), 1564-1569. <https://doi.org/10.1021/nl503984b>

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

Ray, S., Steven, R. T., Green, F. M., Höök, F., Taskinen, B., Hytönen, V. P., & Shard, A. G. (2015). Neutralized chimeric avidin binding at a reference biosensor surface. *Langmuir*, 31(6), 1921-1930. <https://doi.org/10.1021/la503213f>

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

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

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

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

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

Wikström, M., Sharma, V., Kaila, V. R. I., Hosler, J. P., & Hummer, G. (2015). New perspectives on proton pumping in cellular respiration. *Chemical Reviews*, 115(5), 2196-2221. <https://doi.org/10.1021/cr500448t>

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

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

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

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

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

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

- Karilainen, T., Timr, Š., Vattulainen, I., & Jungwirth, P. (2015). Oxidation of cholesterol does not alter significantly its uptake into high-density lipoprotein particles. *Journal of Physical Chemistry Part B*, *119*(13), 4594-4600. <https://doi.org/10.1021/acs.jpcc.5b00240>
- Sorvajärvi, T., Viljanen, J., Toivonen, J., Marshall, P., & Glarborg, P. (2015). Rate constant and thermochemistry for $K + O_2 + N_2 = KO_2 + N_2$. *Journal of Physical Chemistry A*, *119*(14), 3329-3336. <https://doi.org/10.1021/acs.jpca.5b00755>
- Koivisto, A. J., Aromaa, M., Koponen, I. K., Fransman, W., Jensen, K. A., Mäkelä, J. M., & Hämeri, K. J. (2015). Workplace performance of a loose-fitting powered air purifying respirator during nanoparticle synthesis. *Journal of Nanoparticle Research*, *17*(4). <https://doi.org/10.1007/s11051-015-2990-9>
- Cherstvy, A. G., & Metzler, R. (2015). Ergodicity breaking and particle spreading in noisy heterogeneous diffusion processes. *Journal of Chemical Physics*, *142*(14), [144105]. <https://doi.org/10.1063/1.4917077>
- Kuzmin, V. A., Durandin, N. A., Lisitsyna, E. S., Litvinkova, L. V., Nekipelova, T. D., Podrugina, T. A., ... Zefirov, N. S. (2015). Energy degradation in photoexcited complexes of indocarbocyanine with albumin. *HIGH ENERGY CHEMISTRY*, *49*(3), 211-212. <https://doi.org/10.1134/S0018143915030108>
- Liang, Y., Ma, L., Wang, J., & Wang, G. (2015). Multistep reactions of water with small Pd_n clusters: A first principles study. *Journal of Theoretical and Computational Chemistry*, *14*(3), [1550017]. <https://doi.org/10.1142/S0219633615500170>
- Pluhařová, E., Slavíček, P., & Jungwirth, P. (2015). Modeling photoionization of aqueous DNA and its components. *Accounts of Chemical Research*, *48*(5), 1209-1217. <https://doi.org/10.1021/ar500366z>
- Song, X., Liu, Z., Suhonen, T., Varis, T., Huang, L., Zheng, X., & Zeng, Y. (2015). Effect of melting state on the thermal shock resistance and thermal conductivity of APS ZrO₂-7.5wt.% Y₂O₃ coatings. *Surface and Coatings Technology*, *270*, 132-138. <https://doi.org/10.1016/j.surfcoat.2015.03.011>
- Hladílková, J., Fischer, H. E., Jungwirth, P., & Mason, P. E. (2015). Hydration of hydroxyl and amino groups examined by molecular dynamics and neutron scattering. *Journal of Physical Chemistry Part B*, *119*(21), 6357-6365. <https://doi.org/10.1021/jp510528u>
- Kuz'min, V. A., Durandin, N. A., Lisitsyna, E. S., Nekipelova, T. D., Podrugina, T. A., Matveeva, E. D., ... Zefirov, N. S. (2015). Spectral and kinetic characteristics of indotricarbocyanine complexation with albumin. *DOKLADY PHYSICAL CHEMISTRY*, *462*(1), 107-109. <https://doi.org/10.1134/S0012501615050036>
- McManamon, C., O'Connell, J., Delaney, P., Rasappa, S., Holmes, J. D., & Morris, M. A. (2015). A facile route to synthesis of S-doped TiO₂ nanoparticles for photocatalytic activity. *Journal of Molecular Catalysis A: Chemical*, *406*, 51-57. <https://doi.org/10.1016/j.molcata.2015.05.002>
- Manea, L. R., Cramariuc, B., Popescu, V., Cramariuc, R., Sandu, I., & Cramariuc, O. (2015). Equipment for obtaining polymeric nanofibres by electrospinning technology: II. The obtaining of polymeric nanofibers. *Materiale Plastice*, *52*(2), 180-185.
- Frochot, C., Barberi-Heyob, M., Blanchard-Desce, M., Bolotine, L., Bonneau, S., Jimenez, C. M., ... Vicendo, P. (2015). La thérapie photodynamique: État de l'art et perspectives. *ACTUALITE CHIMIQUE*, (397-398), 46-50.
- Mordon, S., & Bourg-Heckly, G. (2015). Photodiagnostic et chirurgie guidés par la fluorescence. *ACTUALITE CHIMIQUE*, (397-398), 41-45.
- He, X., Benniston, A. C., Saarenpää, H., Lemmetyinen, H., Tkachenko, N. V., & Baisch, U. (2015). Polymorph crystal packing effects on charge transfer emission in the solid state. *Chemical Science*, *6*(6), 3525-3532. <https://doi.org/10.1039/c5sc01151e>

- Borah, D., Rasappa, S., Salaun, M., Zellsman, M., Lorret, O., Lontos, G., ... Morris, M. A. (2015). Soft graphoepitaxy for large area directed self-assembly of polystyrene-block-poly(dimethylsiloxane) block copolymer on nanopatterned porous substrates fabricated by nanoimprint lithography. *Advanced Functional Materials*, 25(22), 3425-3432. <https://doi.org/10.1002/adfm.201500100>
- Dzieciuch, M., Rissanen, S., Szydłowska, N., Bunker, A., Kumorek, M., Jamróz, D., ... Kepczynski, M. (2015). PEGylated liposomes as carriers of hydrophobic porphyrins. *Journal of Physical Chemistry Part B*, 119(22), 6646-6657. <https://doi.org/10.1021/acs.jpcc.5b01351>
- De Carvalho, S. J., Metzler, R., & Cherstvy, A. G. (2015). Inverted critical adsorption of polyelectrolytes in confinement. *Soft Matter*, 11(22), 4430-4443. <https://doi.org/10.1039/c5sm00635j>
- Perander, M., DeMartini, N., Brink, A., Kramb, J., Karlström, O., Hemming, J., ... Hupa, M. (2015). Catalytic effect of Ca and K on CO₂ gasification of spruce wood char. *Fuel*, 150, 464-472. <https://doi.org/10.1016/j.fuel.2015.02.062>
- Abou-Chahine, F., Fujii, D., Imahori, H., Nakano, H., Tkachenko, N. V., Matano, Y., & Lemmetyinen, H. (2015). Synthesis and Photophysical Properties of Two Diazaporphyrin-Porphyrin Hetero Dimers in Polar and Nonpolar Solutions. *Journal of Physical Chemistry Part B*, 119(24), 7328-7337. <https://doi.org/10.1021/jp510903a>
- Mylläri, V., Ruoko, T.-P., & Syrjälä, S. (2015). A comparison of rheology and FTIR in the study of polypropylene and polystyrene photodegradation. *Journal of Applied Polymer Science*, 132(28), [42246]. <https://doi.org/10.1002/app.42246>
- Zorzi, G. K., Párraga, J. E., Seijo, B., & Sánchez, A. (2015). On the biomaterials for nanostructured ocular therapeutics. *Current Organic Chemistry*, 19(15), 1443-1459.
- Sanginés, R., Contreras, V., Sobral, H., & Robledo-Martinez, A. (2015). Optimal emission enhancement in orthogonal double-pulse laser-induced breakdown spectroscopy. *Spectrochimica Acta Part B: Atomic Spectroscopy*, 110, 139-145. [4935]. <https://doi.org/10.1016/j.sab.2015.06.012>
- Ahmed, Z., George, L., Hiltunen, A., Lemmetyinen, H., Hukka, T., & Efimov, A. (2015). Synthesis and study of electrochemical and optical properties of substituted perylenemonoimides in solutions and on solid surfaces. *Journal of Materials Chemistry A*, 3(25), 13332-13339. <https://doi.org/10.1039/c5ta02241j>
- Isoniemi, T., Tuukkanen, S., Cameron, D. C., Simonen, J., & Toppari, J. J. (2015). Measuring optical anisotropy in poly(3,4-ethylene dioxythiophene): poly(styrene sulfonate) films with added graphene. *Organic Electronics*, 25, 317-323. <https://doi.org/10.1016/j.orgel.2015.06.037>, <https://doi.org/10.1016/j.orgel.2015.06.037>
- Hakkarainen, T. V., Schramm, A., Mäkelä, J., Laukkanen, P., & Guina, M. (2015). Lithography-free oxide patterns as templates for self-catalyzed growth of highly uniform GaAs nanowires on Si(111). *Nanotechnology*, 26(27), [275301]. <https://doi.org/10.1088/0957-4484/26/27/275301>
- Çetinkaya, A. Y., Köroğlu, E. O., Demir, N. M., Baysoy, D. Y., Özkaya, B., & Çakmakçı, M. (2015). Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration. *Chinese Journal of Catalysis*, 36(7), 1068-1076. [https://doi.org/10.1016/S1872-2067\(15\)60833-6](https://doi.org/10.1016/S1872-2067(15)60833-6)
- Virkki, K., Demir, S., Lemmetyinen, H., & Tkachenko, N. V. (2015). Photoinduced Electron Transfer in CdSe/ZnS Quantum Dot-Fullerene Hybrids. *Journal of Physical Chemistry C*, 119(31), 17561-17572. <https://doi.org/10.1021/acs.jpcc.5b04251>
- Rahaman, O., Kalimeri, M., Melchionna, S., Hénin, J., & Sterpone, F. (2015). Role of Internal Water on Protein Thermal Stability: The Case of Homologous G Domains. *Journal of Physical Chemistry Part B*, 119(29), 8939-8949. <https://doi.org/10.1021/jp507571u>

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

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

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

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

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

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

Levin, M., Rojas, E., Vanhala, E., Vippola, M., Liguori, B., Kling, K. I., ... Jensen, K. A. (2015). Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials: implications for testing and risk assessment. *Journal of Nanoparticle Research*, 17(8), [337]. <https://doi.org/10.1007/s11051-015-3139-6>

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

Mäkelä, J., Tuominen, M., Yasir, M., Polojärvi, V., Aho, A., Tukiainen, A., ... Guina, M. (2015). Effects of thinning and heating for TiO₂/AlInP junctions. *Journal of Electron Spectroscopy and Related Phenomena*, 205, 6-9. <https://doi.org/10.1016/j.elspec.2015.08.004>

Barreca, D., Carraro, G., Warwick, M. E. A., Kaunisto, K., Gasparotto, A., Gombac, V., ... Fornasiero, P. (2015). Fe₂O₃-TiO₂ nanosystems by a hybrid PE-CVD/ALD approach: controllable synthesis, growth mechanism, and photocatalytic properties. *CrystEngComm*, 17(32), 6219-6226. <https://doi.org/10.1039/c5ce00883b>

Yang, Y., Kylänpää, I., Tubman, N. M., Krogel, J. T., Hammes-Schiffer, S., & Ceperley, D. M. (2015). How large are nonadiabatic effects in atomic and diatomic systems? *Journal of Chemical Physics*, 143(12), [124308]. <https://doi.org/10.1063/1.4931667>

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

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

Frankberg, E. J., George, L., Efimov, A., Honkanen, M., Pessi, J., & Levänen, E. (2015). Measuring synthesis yield in graphene oxide synthesis by modified hummers method. *Fullerenes Nanotubes and Carbon Nanostructures*, 23(9), 755-759. <https://doi.org/10.1080/1536383X.2014.993754>

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

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

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

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

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

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

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

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

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

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

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

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

Seo, J. Y., Lee, K., Ramasamy, P., Kim, B., Lee, S. Y., Oh, Y. K., & Park, S. B. (2015). Tri-functionality of Fe₃O₄-embedded carbon microparticles in microalgae harvesting. *Chemical Engineering Journal*, 280, 206-214. <https://doi.org/10.1016/j.cej.2015.05.122>

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

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

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

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

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

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

Su, W., Cooper, J. R., Cook, B. S., Tentzeris, M. M., Mariotti, C., & Roselli, L. (2015). Inkjet-printed dual microfluidic-based sensor integrated system. In *2015 IEEE SENSORS - Proceedings [7370300]* Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/ICSENS.2015.7370300>

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

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

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

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

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

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

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

- Basu, D., Das, A., Wang, D. Y., George, J. J., Stöckelhuber, K. W., Boldt, R., ... Heinrich, G. (2016). Fire-safe and environmentally friendly nanocomposites based on layered double hydroxides and ethylene propylene diene elastomer. *RSC Advances*, 6(31), 26425-26436. <https://doi.org/10.1039/c5ra27444c>
- Rocherullé, J., Massera, J., Oudadesse, H., Calvez, L., Trolès, J., & Zhang, X. H. (2016). Heat capacities of crystalline and glassy lithium metaphosphate up to the transition region. *Journal of Thermal Analysis and Calorimetry*, 123(1), 401-407. <https://doi.org/10.1007/s10973-015-4938-9>
- Kato, D., Sakai, H., Tkachenko, N. V., & Hasobe, T. (2016). High-Yield Excited Triplet States in Pentacene Self-Assembled Monolayers on Gold Nanoparticles through Singlet Exciton Fission. *Angewandte Chemie (International Edition)*, 55(17), 5230-5234. <https://doi.org/10.1002/anie.201601421>
- Lahti, J. (2016). Nanoscale barrier coating on BOPP packaging film by ALD. In *TAPPI PLACE Conference 2016: Exploring New Frontiers* (pp. 493-505). TAPPI Press.
- Perumbilavil, S., Sridharan, K., Abraham, A. R., Janardhanan, H. P., Kalarikkal, N., & Philip, R. (2016). Nonlinear transmittance and optical power limiting in magnesium ferrite nanoparticles: effects of laser pulsewidth and particle size. *RSC Advances*, 6(108), 106754-106761. <https://doi.org/10.1039/c6ra15788b>
- Kastinen, T., Niskanen, M., Risko, C., Cramariuc, O., & Hukka, T. I. (2016). On describing the optoelectronic characteristics of poly(benzodithiophene-: Co -quinoxaline)-fullerene complexes: The influence of optimally tuned density functionals. *Physical Chemistry Chemical Physics*, 18(39), 27654-27670. <https://doi.org/10.1039/c6cp04567g>
- Kattiparambil Rajan, D., Patrikoski, M., Verho, J., Sivula, J., Ihalainen, H., Miettinen, S., & Lekkala, J. (2016). Optical non-contact pH measurement in cell culture with sterilizable, modular parts. *Talanta*, 161, 755-761. <https://doi.org/10.1016/j.talanta.2016.09.021>
- Akamatsu, N., Aizawa, M., Tatsumi, R., Hisano, K., Priimägi, A., & Shishido, A. (2016). Photoresponsive liquid-crystalline polymer films bilayered with an inverse opal structure. *JOURNAL OF PHOTOPOLYMER SCIENCE AND TECHNOLOGY*, 29(1), 145-148. <https://doi.org/10.2494/photopolymer.29.145>
- Jain, R., Dominic, D., Jordan, N., Rene, E. R., Weiss, S., van Hullebusch, E. D., ... Lens, P. N. L. (2016). Preferential adsorption of Cu in a multi-metal mixture onto biogenic elemental selenium nanoparticles. *Chemical Engineering Journal*, 284, 917-925. <https://doi.org/10.1016/j.cej.2015.08.144>
- Higashino, T., Yamada, T., Yamamoto, M., Furube, A., Tkachenko, N. V., Miura, T., ... Imahori, H. (2016). Remarkable Dependence of the Final Charge Separation Efficiency on the Donor-Acceptor Interaction in Photoinduced Electron Transfer. *Angewandte Chemie (International Edition)*, 55(2), 629-633. <https://doi.org/10.1002/anie.201509067>
- Cavallo, G., Terraneo, G., Monfredini, A., Saccone, M., Priimägi, A., Pilati, T., ... Bruce, D. W. (2016). Superfluorinated Ionic Liquid Crystals Based on Supramolecular, Halogen-Bonded Anions. *Angewandte Chemie (International Edition)*, 55(21), 6300-6304. <https://doi.org/10.1002/anie.201601278>
- Matsuo, S., Yamazoe, S., Goh, J-Q., Akola, J., & Tsukuda, T. (2016). The electrooxidation-induced structural changes of gold di-superatomic molecules: Au₂₃ vs. Au₂₅. *Physical Chemistry Chemical Physics*, 18(6), 4822-4827. <https://doi.org/10.1039/c5cp06969f>
- Golovanov, V., Golovanova, V., & Rantala, T. T. (2016). Thermal desorption of molecular oxygen from SnO₂ (110) surface: Insights from first-principles calculations. *Journal of Physics and Chemistry of Solids*, 89, 15-22. <https://doi.org/10.1016/j.jpccs.2015.10.010>
- Pirjola, L., Dittrich, A., Niemi, J. V., Saarikoski, S., Timonen, H., Kuuluvainen, H., ... Hillamo, R. (2016). Physical and Chemical Characterization of Real-World Particle Number and Mass Emissions from City Buses in Finland. *Environmental Science and Technology*, 50(1), 294-304. <https://doi.org/10.1021/acs.est.5b04105>

- Allolio, C., Baxova, K., Vazdar, M., & Jungwirth, P. (2016). Guanidinium Pairing Facilitates Membrane Translocation. *Journal of Physical Chemistry Part B*, *120*(1), 143-153. <https://doi.org/10.1021/acs.jpcc.5b10404>
- Ali-Löytty, H., Louie, M. W., Singh, M. R., Li, L., Sanchez Casalongue, H. G., Ogasawara, H., ... Friebel, D. (2016). Ambient-Pressure XPS Study of a Ni-Fe Electrocatalyst for the Oxygen Evolution Reaction. *Journal of Physical Chemistry C*, *120*(4), 2247-2253. <https://doi.org/10.1021/acs.jpcc.5b10931>
- Salunke, J. K., Wong, F. L., Feron, K., Manzhos, S., Lo, M. F., Shinde, D., ... Wadgaonkar, P. P. (2016). Phenothiazine and carbazole substituted pyrene based electroluminescent organic semiconductors for OLED devices. *Journal of Materials Chemistry C*, *4*(5), 1009-1018. <https://doi.org/10.1039/c5tc03690a>
- Szabo, H. M., Lepistö, R., & Tuhkanen, T. (2016). HPLC-SEC: a new approach to characterise complex wastewater effluents. *International Journal of Environmental Analytical Chemistry*, *96*(3), 257-270. <https://doi.org/10.1080/03067319.2016.1150463>
- Katava, M., Kalimeri, M., Stirnemann, G., & Sterpone, F. (2016). Stability and Function at High Temperature. What Makes a Thermophilic GTPase Different from Its Mesophilic Homologue. *Journal of Physical Chemistry Part B*, *120*(10), 2721-2730. <https://doi.org/10.1021/acs.jpcc.6b00306>
- Sakuma, T., Sakai, H., Araki, Y., Mori, T., Wada, T., Tkachenko, N. V., & Hasobe, T. (2016). Long-Lived Triplet Excited States of Bent-Shaped Pentacene Dimers by Intramolecular Singlet Fission. *Journal of Physical Chemistry A*, *120*(11), 1867-1875. <https://doi.org/10.1021/acs.jpca.6b00988>
- Mal, J., Nancharaiyah, Y. V., Van Hullebusch, E. D., & Lens, P. N. L. (2016). Metal chalcogenide quantum dots: Biotechnological synthesis and applications. *RSC Advances*, *6*(47), 41477-41495. <https://doi.org/10.1039/c6ra08447h>
- Ma, L., Melander, M., Weckman, T., Lipasti, S., Laasonen, K., & Akola, J. (2016). DFT simulations and microkinetic modelling of 1-pentyne hydrogenation on Cu₂₀ model catalysts. *Journal of Molecular Graphics and Modelling*, *65*, 61-70. <https://doi.org/10.1016/j.jmkgm.2016.02.007>
- Viljanen, J., Sun, Z., & Alwahabi, Z. T. (2016). Microwave assisted laser-induced breakdown spectroscopy at ambient conditions. *Spectrochimica Acta Part B: Atomic Spectroscopy*, *118*, 29-36. <https://doi.org/10.1016/j.sab.2016.02.002>
- Isakov, M., Kokkonen, J., Östman, K., & Kuokkala, V-T. (2016). Strain rate change tests with the Split Hopkinson Bar method. *European Physical Journal. Special Topics*, *225*(2), 231-242. <https://doi.org/10.1140/epjst/e2015-99999-x>
- Nisato, G., Lupo, D., & Ganz, S. (Eds.) (2016). *Organic and Printed Electronics: Fundamentals and Applications*. (1 ed.) Singapore: PAN STANFORD PUBLISHING. <https://doi.org/10.1201/b20043>
- Fernandez-Palacio, F., Saccone, M., Priimägi, A., Terraneo, G., Pilati, T., Metrangolo, P., & Resnati, G. (2016). Coordination networks incorporating halogen-bond donor sites and azobenzene groups. *CrystEngComm*, *18*(13), 2251-2257. <https://doi.org/10.1039/c6ce00059b>
- Janka, L., Norpoth, J., Trache, R., & Berger, L. M. (2016). 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*, *291*, 444-451. <https://doi.org/10.1016/j.surfcoat.2016.02.066>
- Hakola, H., Sariola-Leikas, E., Efimov, A., & Tkachenko, N. V. (2016). Effect of Hole Transporting Material on Charge Transfer Processes in Zinc Phthalocyanine Sensitized ZnO Nanorods. *Journal of Physical Chemistry C*, *120*(13), 7044-7051. <https://doi.org/10.1021/acs.jpcc.6b01583>

- La Rosa, C., Scalisi, S., Lolicato, F., Pannuzzo, M., & Raudino, A. (2016). Lipid-assisted protein transport: A diffusion-reaction model supported by kinetic experiments and molecular dynamics simulations. *Journal of Chemical Physics*, *144* (18), [184901]. <https://doi.org/10.1063/1.4948323>
- Soto, A. M., Koivisto, J. T., Parraga, J. E., Silva-Correia, J., Oliveira, J. M., Reis, R. L., ... Figueiras, E. (2016). Optical Projection Tomography Technique for Image Texture and Mass Transport Studies in Hydrogels Based on Gellan Gum. *Langmuir*, *32*(20), 5173-5182. <https://doi.org/10.1021/acs.langmuir.6b00554>
- Isotahdon, E., Huttunen-Saarivirta, E., & Kuokkala, V-T. (2016). Development of Magnetic Losses During Accelerated Corrosion Tests for Nd-Fe-B Magnets Used in Permanent Magnet Generators. *Corrosion*, *72*(6), 732-741. <https://doi.org/10.5006/2037>
- Sharma, R., Bhalerao, S., & Gupta, D. (2016). Effect of incorporation of CdS NPs on performance of PTB7: PCBM organic solar cells. *Organic Electronics: physics, materials, applications*, *33*, 274-280. <https://doi.org/10.1016/j.orgel.2016.03.030>
- Razavi, A., Valkama, M., & Lohan, E. S. (2016). Robust statistical approaches for RSS-based floor detection in indoor localization. *Sensors*, *16*(6), [793]. <https://doi.org/10.3390/s16060793>
- Poutanen, M., Ikkala, O., & Priimägi, A. (2016). Structurally Controlled Dynamics in Azobenzene-Based Supramolecular Self-Assemblies in Solid State. *Macromolecules*, *49*(11), 4095-4101. <https://doi.org/10.1021/acs.macromol.6b00562>
- Luna, E., Wu, M., Hanke, M., Puustinen, J., Guina, M., & Trampert, A. (2016). Spontaneous formation of three-dimensionally ordered Bi-rich nanostructures within GaAs_{1-x}Bi_x/GaAs quantum wells. *Nanotechnology*, *27*(32), [325603]. <https://doi.org/10.1088/0957-4484/27/32/325603>
- Kärkkäinen, M., Kolli, T., Honkanen, M., Heikkinen, O., Väliheikki, A., Huuhtanen, M., ... Keiski, R. L. (2016). The Influence of Phosphorus Exposure on a Natural-Gas-Oxidation Catalyst. *Topics in Catalysis*, *59*(10-12), 1044-1048. <https://doi.org/10.1007/s11244-016-0587-x>
- Kapgate, B. P., Das, C., Das, A., Basu, D., Wiessner, S., Reuter, U., & Heinrich, G. (2016). Reinforced chloroprene rubber by in situ generated silica particles: Evidence of bound rubber on the silica surface. *Journal of Applied Polymer Science*, *133*(30), [43717]. <https://doi.org/10.1002/app.43717>
- Garifullin, M., Sinelnikov, A., Bronzova, M., Kovacic, B., & Kamnik, R. (2016). Buckling Behavior of Cold-Formed Studs with Thermal Perforations. *MATEC Web of Conferences*, *73*, [04011]. <https://doi.org/10.1051/mateconf/20167304011>
- Mylläri, V., Hartikainen, S., Poliakova, V., Anderson, R., Jönkkäri, I., Pasanen, P., ... Vuorinen, J. (2016). Detergent impurity effect on recycled HDPE: Properties after repetitive processing. *Journal of Applied Polymer Science*, *133*(31), [43766]. <https://doi.org/10.1002/app.43766>
- Stöckelhuber, K. W., Das, A., & Klüppel, M. (Eds.) (2016). *Designing of Elastomer Nanocomposites: From Theory to Application*. (Advances in Polymer Science; Vol. 275). Springer International Publishing. <https://doi.org/10.1007/978-3-319-47696-4>
- Basu, D., Das, A., Stöckelhuber, K. W., & Wießner, S. (2016). Nanostructured Ionomeric Elastomers. In K. W. Stöckelhuber, A. Das, & M. Klüppel (Eds.), *Designing of Elastomer Nanocomposites: From Theory to Applications* (pp. 235-266). (Advances in Polymer Science; Vol. 275). Springer International Publishing. https://doi.org/10.1007/12_2016_8
- Pilehrood, M. K., Atashi, A., Sadeghi-Aliabadi, H., Nousiainen, P., & Harlin, A. (2016). 3D micro-nano structured hybrid scaffolds: An investigation into the role of nanofiber coating on viability, proliferation and differentiation of seeded mesenchymal stem cells. *Journal Nanoscience and Nanotechnology*, *16*(9), 9000-9007. <https://doi.org/10.1166/jnn.2016.12740>

- Robison, A. D., Sun, S., Poyton, M. F., Johnson, G. A., Pellois, J. P., Jungwirth, P., ... Cremer, P. S. (2016). Polyarginine Interacts More Strongly and Cooperatively than Polylysine with Phospholipid Bilayers. *Journal of Physical Chemistry Part B*, *120*(35), 9287-9296. <https://doi.org/10.1021/acs.jpcc.6b05604>
- Zhou, Q., Sariola, V., Latifi, K., & Liimatainen, V. (2016). Controlling the motion of multiple objects on a Chladni plate. *Nature Communications*, *7*, [12764]. <https://doi.org/10.1038/ncomms12764>
- Kramb, J., Konttinen, J., Backman, R., Salo, K., & Roberts, M. (2016). Elimination of arsenic-containing emissions from gasification of chromated copper arsenate wood. *Fuel*, *181*, 319-324. <https://doi.org/10.1016/j.fuel.2016.04.109>
- Will, O. M., Purcz, N., Chalaris, A., Heneweer, C., Boretius, S., Purcz, L., ... Tiwari, S. (2016). Increased survival rate by local release of diclofenac in a murine model of recurrent oral carcinoma. *International Journal of Nanomedicine*, *11*, 5311-5321. <https://doi.org/10.2147/IJN.S109199>
- Ali-Löytty, H., Hannula, M., Honkanen, M., Östman, K., Lahtonen, K., & Valden, M. (2016). Grain orientation dependent Nb-Ti microalloying mediated surface segregation on ferritic stainless steel. *Corrosion Science*, *112*, 204-213. <https://doi.org/10.1016/j.corsci.2016.07.024>
- Reisberg, L., Pärna, R., Kikas, A., Kuusik, I., Kisand, V., Hirsimäki, M., ... Nömmiste, E. (2016). UPS and DFT investigation of the electronic structure of gas-phase trimesic acid. *Journal of Electron Spectroscopy and Related Phenomena*, *213*, 11-16. <https://doi.org/10.1016/j.elspec.2016.10.004>
- Poikelispää, M., Shakun, A., Das, A., & Vuorinen, J. (2016). Improvement of actuation performance of dielectric elastomers by barium titanate and carbon black fillers. *Journal of Applied Polymer Science*, *133*(42), [44116]. <https://doi.org/10.1002/app.44116>
- Ropo, M., Akola, J., & Jones, R. O. (2016). Collective excitations and viscosity in liquid Bi. *Journal of Chemical Physics*, *145*(18), [184502]. <https://doi.org/10.1063/1.4965429>
- Varis, T., Suhonen, T., Calonijs, O., Čubán, J., & Pietola, M. (2016). Optimization of HVOF Cr₃C₂-NiCr coating for increased fatigue performance. *Surface and Coatings Technology*, *305*, 123-131. <https://doi.org/10.1016/j.surfcoat.2016.08.012>
- Ntziachristos, L., Saukko, E., Lehtoranta, K., Rönkkö, T., Timonen, H., Simonen, P., ... Keskinen, J. (2016). Particle emissions characterization from a medium-speed marine diesel engine with two fuels at different sampling conditions. *Fuel*, *186*, 456-465. <https://doi.org/10.1016/j.fuel.2016.08.091>
- Fabert, M., Ojha, N., Erasmus, E., Hannula, M., Hokka, M., Hyttinen, J., ... Massera, J. (2017). Crystallization and sintering of borosilicate bioactive glasses for application in tissue engineering. *Journal of Materials Chemistry B*, *5*(23), 4514-4525. <https://doi.org/10.1039/c7tb00106a>
- Kordmahaleh, A. A., Naghashzadegan, M., Javaherdeh, K., & Khoshgoftar, M. (2017). Design of a 25 MWe Solar Thermal Power Plant in Iran with Using Parabolic Trough Collectors and a Two-Tank Molten Salt Storage System. *International Journal of Photoenergy*, *2017*, [4210184]. <https://doi.org/10.1155/2017/4210184>
- Golovanov, V. V., Nazarchuk, B. V., Golovanova, V. V., Tkachenko, N. V., & Rantala, T. T. (2017). Effects of orientation at the phthalocyanine-CdSe interface on the electron transfer characteristics. *Physical Chemistry Chemical Physics*, *19*(16), 10511-10517. <https://doi.org/10.1039/c7cp00833c>
- Vuorimaa-Laukkanen, E., Lisitsyna, E. S., Ketola, T-M., Morin-Pickardat, E., Liang, H., Hanzlikova, M., ... Laaksonen, T. (2017). *Fluorescence spectroscopy "knife" for polyplex "cakes": taste the filling*. Paper presented at 30 Years of Drug Delivery Research, Kuopio, Finland.

- Mojica, E., Pertuz, S., & Arguello, H. (2017). High-resolution coded-aperture design for compressive X-ray tomography using low resolution detectors. *Optics Communications*, 404, 103-109. <https://doi.org/10.1016/j.optcom.2017.06.053>
- Vuori, L., Ali-Löytty, H., Lahtonen, K., Hannula, M., Lehtonen, E., Niu, Y., & Valden, M. (2017). Improved corrosion properties of Hot Dip Galvanized Steel by nanomolecular silane layers as hybrid interface between zinc and top coatings. *Corrosion*, 73(2). <https://doi.org/10.5006/2206>
- Mäkelä, J. M., Haapanen, J., Harra, J., Juuti, P., & Kujanpää, S. (2017). Liquid flame spray—a hydrogen-oxygen flame based method for nanoparticle synthesis and functional nanocoatings. *KONA POWDER AND PARTICLE JOURNAL*, 2017 (34), 141-154. <https://doi.org/10.14356/kona.2017020>
- Baek, J., Umeyama, T., Mizuno, S., Tkachenko, N. V., & Imahori, H. (2017). Photophysical properties of porphyrin dimer-single-walled carbon nanotube linked systems. *Journal of Physical Chemistry C*, 121(39). <https://doi.org/10.1021/acs.jpcc.7b08594>
- Saccone, M., Palacio, F. F., Cavallo, G., Dichiarante, V., Virkki, M., Terraneo, G., ... Metrangolo, P. (2017). Photoresponsive ionic liquid crystals assembled: Via halogen bond: En route towards light-controllable ion transporters. *Faraday Discussions*, 203, 407-422. <https://doi.org/10.1039/c7fd00120g>
- Vapaavuori, J., Siiskonen, A., Dichiarante, V., Forni, A., Saccone, M., Pilati, T., ... Priimagi, A. (2017). Supramolecular control of liquid crystals by doping with halogen-bonding dyes. *RSC Advances*, 7(64), 40237-40242. <https://doi.org/10.1039/c7ra06397k>
- Lahbib, I., Valkonen, A., Rzaigui, M., & Smirani, W. (2017). Synthesis, Structural Characterization, Hirshfeld Surface and Antioxidant Activity Analysis of a Novel Organic Cation Antimonate Complex. *Journal of Cluster Science*, 28(4), 2239-2252. <https://doi.org/10.1007/s10876-017-1217-x>
- Javanainen, M., Melcrová, A., Magarkar, A., Jurkiewicz, P., Hof, M., Jungwirth, P., & Martinez-Seara, H. (2017). Two cations, two mechanisms: Interactions of sodium and calcium with zwitterionic lipid membranes. *Chemical Communications*, 53(39), 5380-5383. <https://doi.org/10.1039/c7cc02208e>
- Kovács, P. T., Zare, A., Balogh, T., Bregovic, R., & Gotchev, A. (2017). Architectures and codecs for real-time light field streaming. *Journal of Imaging Science and Technology*, 61(1), [010403]. <https://doi.org/10.2352/J.ImagingSci.Technol.2017.61.1.010403>
- Suokas, E. (2017). Effect of air gap on the adhesion of PET layer on cardboard substrate in extrusion coating. In *16th TAPPI European PLACE Conference 2017* (pp. 529-544). TAPPI Press.
- Lahti, J., Kamppuri, T., & Kuusipalo, J. (2017). Novel bio-based materials for active and intelligent packaging. In *16th TAPPI European PLACE Conference 2017* TAPPI Press.
- Lahti, J., Kuusipalo, J., & Auvinen, S. (2017). Novel equipment to simulate hot air heat sealability of packaging materials. In *16th TAPPI European PLACE Conference 2017* (pp. 237-248). TAPPI Press.
- Kuusipalo, J., & Lahti, J. (2017). Tampere University of Technology, laboratory of materials science, paper converting and packaging technology Tampere, Finland. In *16th TAPPI European PLACE Conference 2017: Basel; Switzerland; 22 May 2017 through 24 May 2017* (Vol. May-2017). TAPPI Press.
- Balanta, M. A. G., Orsi Gordo, V., Carvalho, A. R. H., Puustinen, J., Alghamdi, H. M., Henini, M., ... Galvão Gobato, Y. (2017). Polarization resolved photoluminescence in GaAs_{1-x}Bi_x/GaAs quantum wells. *Journal of Luminescence*, 182, 49-52. <https://doi.org/10.1016/j.jlumin.2016.10.008>
- Siiskonen, A., & Priimagi, A. (2017). Benchmarking DFT methods with small basis sets for the calculation of halogen-bond strengths. *Journal of Molecular Modeling*, 23(2), [50]. <https://doi.org/10.1007/s00894-017-3212-4>

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

Guixà-González, R., Albasanz, J. L., Rodriguez-Espigares, I., Pastor, M., Sanz, F., Martí-Solano, M., ... Selent, J. (2017). Membrane cholesterol access into a G-protein-coupled receptor. *Nature Communications*, 8, [14505]. <https://doi.org/10.1038/ncomms14505>

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

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

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

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

Honkanen, M., Hansen, T. W., Jiang, H., Kärkkäinen, M., Huuhtanen, M., Heikkinen, O., ... Vippola, M. (2017). Electron microscopic studies of natural gas oxidation catalyst – Effects of thermally accelerated aging on catalyst microstructure. *Journal of Catalysis*, 349, 19-29. <https://doi.org/10.1016/j.jcat.2017.03.003>

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

Kramb, J., Gómez-Barea, A., DeMartini, N., Romar, H., Doddapaneni, T. R. K. C., & Konttinen, J. (2017). The effects of calcium and potassium on CO₂ gasification of birch wood in a fluidized bed. *Fuel*, 196, 398-407. <https://doi.org/10.1016/j.fuel.2017.01.101>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Boardman, A. D., Alberucci, A., Assanto, G., Grimalsky, V. V., Kibler, B., McNiff, J., ... Valagiannopoulos, C. A. (2017). Waves in hyperbolic and double negative metamaterials including rogues and solitons. *Nanotechnology*, *28*(44), [444001]. <https://doi.org/10.1088/1361-6528/aa6792>

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

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

Liimatainen, V., Vuckovac, M., Jokinen, V., Sariola, V., Hokkanen, M. J., Zhou, Q., & Ras, R. H. A. (2017). Mapping microscale wetting variations on biological and synthetic water-repellent surfaces. *Nature Communications*, *8*(1), [1798]. <https://doi.org/10.1038/s41467-017-01510-7>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Iantovics, L. B., Dehmer, M., & Emmert-Streib, F. (2018). MetrIntSimil-an accurate and robust metric for comparison of similarity in intelligence of any number of cooperative multiagent systems. *Symmetry*, *10*(2), [48]. <https://doi.org/10.3390/sym10020048>

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

Vale, J. R., Rimpiläinen, T., Sievänen, E., Rissanen, K., Afonso, C. A. M., & Candeias, N. R. (2018). Pot-economy autooxidative condensation of 2-Aryl-2-lithio-1,3-dithianes. *Journal of Organic Chemistry*, *83*(4), 1948-1958. <https://doi.org/10.1021/acs.joc.7b02896>

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

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

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

- Karvinen, J., Joki, T., Ylä-Outinen, L., Koivisto, J. T., Narkilahti, S., & Kellomäki, M. (2018). Soft hydrazone crosslinked hyaluronan- and alginate-based hydrogels as 3D supportive matrices for human pluripotent stem cell-derived neuronal cells. *Reactive and Functional Polymers*, 124, 29-39. <https://doi.org/10.1016/j.reactfunctpolym.2017.12.019>
- Janka, L., Berger, L. M., Norpoth, J., Trache, R., Thiele, S., Tomastik, C., ... Vuoristo, P. (2018). Improving the high temperature abrasion resistance of thermally sprayed Cr₃C₂-NiCr coatings by WC addition. *Surface and Coatings Technology*, 337, 296-305. <https://doi.org/10.1016/j.surfcoat.2018.01.035>
- Poutanen, M., Ahmed, Z., Rautkari, L., Ikkala, O., & Priimägi, A. (2018). Thermal Isomerization of Hydroxyazobenzenes as a Platform for Vapor Sensing. *ACS Macro Letters*, 7(3), 381-386. <https://doi.org/10.1021/acsmacrolett.8b00093>
- Sassatelli, P., Bolelli, G., Lassinantti Gualtieri, M., Heinonen, E., Honkanen, M., Lusvarghi, L., ... Vippola, M. (2018). Properties of HVOF-sprayed Stellite-6 coatings. *Surface and Coatings Technology*, 338, 45-62. <https://doi.org/10.1016/j.surfcoat.2018.01.078>
- Khan, M., Koivisto, J., Hukka, T., Hokka, M., & Kellomäki, M. (2018). Composite Hydrogels Using Bioinspired Approach with in Situ Fast Gelation and Self-Healing Ability as Future Injectable Biomaterial. *ACS Applied Materials & Interfaces*, 10(14), 11950-11960. <https://doi.org/10.1021/acsam.8b01351>
- Magarkar, A., Parkkila, P., Viitala, T., Lajunen, T., Mobarak, E., Licari, G., ... Bunker, A. (2018). Membrane bound COMT isoform is an interfacial enzyme: General mechanism and new drug design paradigm. *Chemical Communications*, 54(28), 3440-3443. <https://doi.org/10.1039/c8cc00221e>
- Melcr, J., Martinez-Seara, H., Nencini, R., Kolafa, J., Jungwirth, P., & Ollila, O. H. S. (2018). Accurate Binding of Sodium and Calcium to a POPC Bilayer by Effective Inclusion of Electronic Polarization. *Journal of Physical Chemistry B*, 122(16), 4546-4557. <https://doi.org/10.1021/acs.jpcc.7b12510>
- Harra, J., Tuominen, M., Juuti, P., Rissler, J., Koivuluoto, H., Haapanen, J., ... Mäkelä, J. M. (2018). Characteristics of nFOG, an aerosol-based wet thin film coating technique. *Journal of Coatings Technology Research*, 15(3), 623-632. <https://doi.org/10.1007/s11998-017-0022-7>
- Manninen, H., Rotola-Pukkila, M., Aisala, H., Hopia, A., & Laaksonen, T. (2018). Free amino acids and 5'-nucleotides in Finnish forest mushrooms. *Food Chemistry*, 247, 23-28. <https://doi.org/10.1016/j.foodchem.2017.12.014>
- Raappana, M., Polojärvi, V., Aho, A., Mäkelä, J., Aho, T., Tukiainen, A., ... Guina, M. (2018). Wet etching of dilute nitride GaInNAs, GaInNAsSb, and GaNAsSb alloys lattice-matched to GaAs. *Corrosion Science*, 136, 268-274. <https://doi.org/10.1016/j.corsci.2018.03.018>
- Zhou, K., Dichlberger, A., Martinez-Seara, H., Nyholm, T. K. M., Li, S., Kim, Y. A., ... Blom, T. (2018). A Ceramide-Regulated Element in the Late Endosomal Protein LAPTM4B Controls Amino Acid Transporter Interaction. *ACS Central Science*, 4(5), 548-558. <https://doi.org/10.1021/acscentsci.7b00582>
- Virkki, K., Tervola, E., Medel, M., Torres, T., & Tkachenko, N. V. (2018). Effect of Co-Adsorbate and Hole Transporting Layer on the Photoinduced Charge Separation at the TiO₂-Phthalocyanine Interface. *ACS Omega*, 3(5), 4947-4958. <https://doi.org/10.1021/acsomega.8b00600>
- Pirhonen, M., Peltokangas, M., & Vehkaoja, A. (2018). Acquiring respiration rate from photoplethysmographic signal by recursive bayesian tracking of intrinsic modes in time-frequency spectra. *Sensors*, 18(6), [1693]. <https://doi.org/10.3390/s18061693>
- Virtanen, J., Somppi, S., Törnqvist, H., Jeyhani, V., Fiedler, P., Gizatdinova, Y., ... Vehkaoja, A. (2018). Evaluation of dry electrodes in canine heart rate monitoring. *Sensors*, 18(6), [1757]. <https://doi.org/10.3390/s18061757>

- Nair, A. K., Bhavitha, K. B., Perumbilavil, S., Sankar, P., Rouxel, D., Kala, M. S., ... Kalarikkal, N. (2018). Multifunctional nitrogen sulfur co-doped reduced graphene oxide – Ag nano hybrids (sphere, cube and wire) for nonlinear optical and SERS applications. *Carbon*, *132*, 380-393. <https://doi.org/10.1016/j.carbon.2018.02.068>
- George, L., Hiltunen, A., Santala, V., & Efimov, A. (2018). Photo-antimicrobial efficacy of zinc complexes of porphyrin and phthalocyanine activated by inexpensive consumer LED lamp. *Journal of Inorganic Biochemistry*, *183*, 94-100. <https://doi.org/10.1016/j.jinorgbio.2018.03.015>
- Siljander, S., Keinänen, P., Rätty, A., Ramakrishnan, K. R., Tuukkanen, S., Kunnari, V., ... Kanerva, M. (2018). Effect of surfactant type and sonication energy on the electrical conductivity properties of nanocellulose-CNT nanocomposite films. *International Journal of Molecular Sciences*, *19*(6), [1819]. <https://doi.org/10.3390/ijms19061819>
- Laurén, P., Paukkonen, H., Lipiäinen, T., Dong, Y., Oksanen, T., Rääkkönen, H., ... Laaksonen, T. (2018). Pectin and Mucin Enhance the Bioadhesion of Drug Loaded Nanofibrillated Cellulose Films. *Pharmaceutical Research*, *35*(7), [145]. <https://doi.org/10.1007/s11095-018-2428-z>
- Rajala, S., Schouten, M., Krijnen, G., & Tuukkanen, S. (2018). High Bending-Mode Sensitivity of Printed Piezoelectric Poly(vinylidene fluoride- co-trifluoroethylene) Sensors. *ACS Omega*, *3*(7), 8067-8073. <https://doi.org/10.1021/acsomega.8b01185>
- Hiltunen, A., Ruoko, T-P., Iivonen, T., Lahtonen, K., Ali-Löytty, H., Sarlin, E., ... Tkachenko, N. (2018). Design aspects of all atomic layer deposited TiO₂-Fe₂O₃ scaffold-absorber photoanodes for water splitting. *Sustainable Energy & Fuels*, *2* (9), 2124-2130. <https://doi.org/10.1039/C8SE00252E>
- Tan, L. C., Espinosa-Ortiz, E. J., Nancharaiah, Y. V., van Hullebusch, E. D., Gerlach, R., & Lens, P. N. (2018). Selenate removal in biofilm systems: Effect of nitrate and sulfate on selenium removal efficiency, biofilm structure and microbial community. *Journal of Chemical Technology and Biotechnology*, *93*(8), 2380-2389. <https://doi.org/10.1002/jctb.5586>
- Mandal, S., Garcia Iglesias, M., Ince, M., Torres, T., & Tkachenko, N. V. (2018). Photoinduced Energy Transfer in ZnCdSeS Quantum Dot-Phthalocyanines Hybrids. *ACS Omega*, *3*(8), 10048-10057. <https://doi.org/10.1021/acsomega.8b01623>
- Nieminen, V., Karjalainen, M., Salminen, K., Rantala, J., Kontunen, A., Isokoski, P., ... Leikkala, J. (2018). A compact olfactometer for IMS measurements and testing human perception. *International Journal for Ion Mobility Spectrometry*, *21* (3), 71-80. <https://doi.org/10.1007/s12127-018-0235-1>
- Hyvälouma, J., Hannula, M., Arstila, K., Wang, H., Kulju, S., & Rasa, K. (2018). Effects of pyrolysis temperature on the hydrologically relevant porosity of willow biochar. *Journal of Analytical and Applied Pyrolysis*, *134*. <https://doi.org/10.1016/j.jaap.2018.07.011>
- Jermakka, J., Thompson Brewster, E., Ledezma, P., & Freguia, S. (2018). Electro-concentration for chemical-free nitrogen capture as solid ammonium bicarbonate. *Separation and Purification Technology*, *203*, 48-55. <https://doi.org/10.1016/j.seppur.2018.04.023>
- Rajan, R., Rainosalu, E., Ramamoorthy, S. K., Thomas, S. P., Zavašnik, J., Vuorinen, J., & Skrifvars, M. (2018). Mechanical, thermal, and burning properties of viscose fabric composites: Influence of epoxy resin modification. *Journal of Applied Polymer Science*, *135*(36), [46673]. <https://doi.org/10.1002/app.46673>
- Heijne, A. T., Liu, D., Sulonen, M., Sleutels, T., & Fabregat-Santiago, F. (2018). Quantification of bio-anode capacitance in bioelectrochemical systems using Electrochemical Impedance Spectroscopy. *Journal of Power Sources*, *400*, 533-538. <https://doi.org/10.1016/j.jpowsour.2018.08.003>

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

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

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

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

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

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

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

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

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

Ferreira, S. A., Motwani, M. S., Faull, P. A., Seymour, A. J., Yu, T. T. L., Enayati, M., ... Gentleman, E. (2018). Bi-directional cell-pericellular matrix interactions direct stem cell fate. *Nature Communications*, *9*(1), [4049]. <https://doi.org/10.1038/s41467-018-06183-4>

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

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

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

Garifullin, M. (2018). Experimental moment resistance of rectangular hollow section T joints. *MATEC Web of Conferences*, *245*, [08003]. <https://doi.org/10.1051/matecconf/201824508003>

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

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

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

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

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

Tienaho, J., Karonen, M., Muilu-Mäkelä, R., Wähälä, K., Denegri, E. L., Franzén, R., ... Sarjala, T. (2019). Metabolic profiling of water-soluble compounds from the extracts of dark septate endophytic fungi (DSE) isolated from scots pine (*Pinus sylvestris* L.) seedlings using UPLC-orbitrap-MS. *Molecules*, *24*(12), [2330]. <https://doi.org/10.3390/molecules24122330>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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