

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

Mäkinen, J. et al. "Vacancy-type defect distributions near argon sputtered Al(100) surface studied by variable-energy positrons and molecular dynamics simulations". *Surface Science*. 1986, 175(2). 385-414. [https://doi.org/10.1016/0039-6028\(86\)90242-6](https://doi.org/10.1016/0039-6028(86)90242-6)

Koivusaari, K. Jarmo, Tapio T. Rantala and Seppo Leppävuori. "Calculated electronic density of states and structural properties of tetrahedral amorphous carbon". *Diamond and Related Materials*. 2000, 9(3). 736-740. [https://doi.org/10.1016/S0925-9635\(99\)00286-1](https://doi.org/10.1016/S0925-9635(99)00286-1)

Lagerbom, Juha et al. "Gas atomized thermal spray powders of various metals and alloys". *Proceedings of the Euro International Powder Metallurgy Congress and Exhibition, Euro PM 2011*. European Powder Metallurgy Association (EPMA). 2011.

Pluhařová, Eva et al. "Ionization of purine tautomers in nucleobases, nucleosides, and nucleotides: From the gas phase to the aqueous environment". *Journal of Physical Chemistry Part B*. 2011, 115(5). 1294-1305. <https://doi.org/10.1021/jp110388v>

Roaj, Sandip, Amit Das and Gert Heinrich. "Preintercalation of an organic accelerator into nanogalleries and preparation of ethylene propylene diene terpolymer rubber-clay nanocomposites". *POLYMER JOURNAL*. 2011, 43(3). 285-292. <https://doi.org/10.1038/pj.2010.132>

Takahashi, Hideaki et al. "Energetic origin of proton affinity to the air/water interface". *Journal of Physical Chemistry Part B*. 2011, 115(16). 4745-4751. <https://doi.org/10.1021/jp2015676>

Das, Amit et al. "Preparation of zinc oxide free, transparent rubber nanocomposites using a layered double hydroxide filler". *Journal of Materials Chemistry*. 2011, 21(20). 7194-7200. <https://doi.org/10.1039/c0jm03784b>

Tuurna, S. et al. "Optimised selection of new protective coatings for biofuel boiler applications". *Materials and Corrosion-Werkstoffe und Korrosion*. 2011, 62(7). 642-649. <https://doi.org/10.1002/maco.201005898>

Zorzi, Giovanni Konat et al. "Hybrid nanoparticle design based on cationized gelatin and the polyanions dextran sulfate and chondroitin sulfate for ocular gene therapy". *MACROMOLECULAR BIOSCIENCE*. 2011, 11(7). 905-913. <https://doi.org/10.1002/mabi.201100005>

Heyda, Jan et al. "Urea and guanidinium induced denaturation of a Trp-cage miniprotein". *Journal of Physical Chemistry Part B*. 2011, 115(28). 8910-8924. <https://doi.org/10.1021/jp200790h>

Vikholm-Lundin, Inger, Sanna Auer and Ann Charlotte Hellgren. "Detection of 3,4-methylenedioxymethamphetamine (MDMA, ecstasy) by displacement of antibodies". *Sensors and Actuators B: Chemical*. 2011, 156(1). 28-34. <https://doi.org/10.1016/j.snb.2011.03.069>

Giammarco, James et al. "Towards universal enrichment nanocoating for IR-ATR waveguides". *Chemical Communications*. 2011, 47(32). 9104-9106. <https://doi.org/10.1039/c1cc12780b>

Sorianello, V. et al. "Thermally evaporated single-crystal Germanium on Silicon". *Thin Solid Films*. 2011, 519(22). 8037-8040. <https://doi.org/10.1016/j.tsf.2011.06.023>

Vapaavuori, Jaana et al. "Efficient surface structuring and photoalignment of supramolecular polymer-azobenzene complexes through rational chromophore design". *Journal of Materials Chemistry*. 2011, 21(39). 15437-15441. <https://doi.org/10.1039/c1jm12642c>

Wernersson, Erik et al. "Orientational dependence of the affinity of guanidinium ions to the water surface". *Journal of Physical Chemistry Part B*. 2011, 115(43). 12521-12526. <https://doi.org/10.1021/jp207499s>

Ghabchi, A. et al. "HVOF process control enabling strategies". *International Thermal Spray Conference and Exposition, ITSC 2012 - Air, Land, Water and the Human Body: Thermal Spray Science and Applications*. ASM International. 2012, 465-471.

Priimagi, Arri et al. "Location of the Azobenzene moieties within the cross-linked liquid-crystalline polymers can dictate the direction of photoinduced bending". *ACS Macro Letters*. 2012, 1(1). 96-99. <https://doi.org/10.1021/mz200056w>

Heikkinen, Jarkko J. et al. "Printable and flexible macroporous organosilica film with high protein adsorption capacity". *Thin Solid Films*. 2012, 520(6). 1934-1937. <https://doi.org/10.1016/j.tsf.2011.09.041>

Massera, Jonathan et al. "Crystallization mechanism of the bioactive glasses, 45S5 and S53P4". *JOURNAL OF THE AMERICAN CERAMIC SOCIETY*. 2012, 95(2). 607-613. <https://doi.org/10.1111/j.1551-2916.2011.05012.x>

Das, Amit et al. "A novel thermotropic elastomer based on highly-filled LDH-SSB composites". *Macromolecular Rapid Communications*. 2012, 33(4). 337-342. <https://doi.org/10.1002/marc.201100735>

Roaj, Sandip et al. "Highly exfoliated natural rubber/Clay composites by "propping-open procedure": The influence of fatty acid chain length on exfoliation". *Macromolecular Materials and Engineering*. 2012, 297(4). 369-383. <https://doi.org/10.1002/mame.201100185>

Subramaniam, Kalaivani et al. "Enhanced thermal stability of polychloroprene rubber composites with ionic liquid modified MWCNTs". *Polymer Degradation and Stability*. 2012, 97(5). 776-785. <https://doi.org/10.1016/j.polymdegradstab.2012.02.001>

Vazdar, Mario et al. "Behavior of 4-hydroxynonenal in phospholipid membranes". *Journal of Physical Chemistry Part B*. 2012, 116(22). 6411-6415. <https://doi.org/10.1021/jp3044219>

Subramaniam, Kalaivani, Amit Das and Gert Heinrich. "Highly conducting polychloroprene composites based on multi-walled carbon nanotubes and 1-butyl 3-methyl imidazolium bis(trifluoromethylsulphonyl)imide". *KGK: KAUTSCHUK GUMMI KUNSTSTOFFE*. 2012, 65(7-8). 44-46.

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

Vikholm-Lundin, Inger et al. "Cysteine-tagged chimeric avidin forms high binding capacity layers directly on gold". *Sensors and Actuators B: Chemical*. 2012, 171-172. 440-448. <https://doi.org/10.1016/j.snb.2012.05.008>

Kapgate, Bharat P. et al. "Effect of sol-gel derived in situ silica on the morphology and mechanical behavior of natural rubber and acrylonitrile butadiene rubber blends". *JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY*. 2012, 63(3). 501-509. <https://doi.org/10.1007/s10971-012-2812-9>

Gao, Wei et al. "Biomimetic surface modification of polycarbonateurethane film via phosphorylcholine-graft for resisting platelet adhesion". *Macromolecular Research*. 2012, 20(10). 1063-1069. <https://doi.org/10.1007/s13233-012-0152-9>

Mahimwalla, Zahid et al. "Azobenzene photomechanics: Prospects and potential applications". *Polymer Bulletin*. 2012, 69(8). 967-1006. <https://doi.org/10.1007/s00289-012-0792-0>

- Steinhauser, D. et al. "Influence of ionic liquids on the dielectric relaxation behavior of CNT based elastomer nanocomposites". *Express Polymer Letters*. 2012, 6(11). 927-936. <https://doi.org/10.3144/expresspolymlett.2012.98>
- Rasappa, Sozaraj et al. "Block copolymer lithography: Feature size control and extension by an over-etch technique". *Thin Solid Films*. 2012, 522. 318-323. <https://doi.org/10.1016/j.tsf.2012.09.017>
- Pluhařová, Eva et al. "Transforming anion instability into stability: Contrasting photoionization of three protonation forms of the phosphate ion upon moving into water". *Journal of Physical Chemistry Part B*. 2012, 116(44). 13254-13264. <https://doi.org/10.1021/jp306348b>
- Subramaniam, Kalaivani et al. "Elastomer composites based on carbon nanotubes and ionic liquid". *Rubber Chemistry and Technology*. 2013, 86(3). 367-400. <https://doi.org/10.5254/rct.13.86984>
- Debnath, Subhas Ch et al. "Naturally occurring amino acids: A suitable substitute of N-N-di-phenyl guanidine (DPG) in silica tyre formulation?". *KGK: KAUTSCHUK GUMMI KUNSTSTOFFE*. 2013, 66(1-2). 25-31.
- Vazdar, Mario, Pavel Jungwirth and Philip E. Mason. "Aqueous guanidinium-carbonate interactions by molecular dynamics and neutron scattering: Relevance to ion-protein interactions". *Journal of Physical Chemistry Part B*. 2013, 117(6). 1844-1848. <https://doi.org/10.1021/jp310719g>
- Pitkänen, H. et al. "Ab initio study of the surface properties of austenitic stainless steel alloys". *Surface Science*. 2013, 609. 190-194. <https://doi.org/10.1016/j.susc.2012.12.007>
- Pale, Ville et al. "Biomimetic zinc chlorin-poly(4-vinylpyridine) assemblies: Doping level dependent emission-absorption regimes". *Journal of Materials Chemistry C*. 2013, 1(11). 2166-2173. <https://doi.org/10.1039/c3tc00499f>
- Vapaavuori, Jaana et al. "Nanoindentation study of light-induced softening of supramolecular and covalently functionalized azo polymers". *Journal of Materials Chemistry C*. 2013, 1(16). 2806-2810. <https://doi.org/10.1039/c3tc30246f>
- Tan, Mingqi et al. "Immobilized bioactive agents onto polyurethane surface with heparin and phosphorylcholine group". *Macromolecular Research*. 2013, 21(5). 541-549. <https://doi.org/10.1007/s13233-013-1028-3>
- Štěpánková, Veronika et al. "Cation-specific effects on enzymatic catalysis driven by interactions at the tunnel mouth". *Journal of Physical Chemistry Part B*. 2013, 117(21). 6394-6402. <https://doi.org/10.1021/jp401506v>
- Thomann, O. et al. "Development and application of HVOF sprayed spinel protective coating for SOFC interconnects". *Journal of Thermal Spray Technology*. 2013, 22(5). 631-639. <https://doi.org/10.1007/s11666-012-9880-9>
- Oksa, Maria, Satu Tuurna, and Tommi Varis. "Increased lifetime for biomass and waste to energy power plant boilers with HVOF coatings: High temperature corrosion testing under chlorine-containing molten salt". *Journal of Thermal Spray Technology*. 2013, 22(5). 783-796. <https://doi.org/10.1007/s11666-013-9928-5>
- Paterová, Jana et al. "Reversal of the Hofmeister series: Specific ion effects on peptides". *Journal of Physical Chemistry Part B*. 2013, 117(27). 8150-8158. <https://doi.org/10.1021/jp405683s>
- Khan, M. Nuruzzaman et al. "Spectroscopic study of a DNA brush synthesized in situ by surface initiated enzymatic polymerization". *Journal of Physical Chemistry Part B*. 2013, 117(34). 9929-9938. <https://doi.org/10.1021/jp404774x>
- Kalimeri, Maria et al. "How conformational flexibility stabilizes the hyperthermophilic elongation factor G-domain". *Journal of Physical Chemistry Part B*. 2013, 117(44). 13775-13785. <https://doi.org/10.1021/jp407078z>

Hladilkova, Jana et al. "Release of halide ions from the buried active site of the haloalkane dehalogenase LinB revealed by stopped-flow fluorescence analysis and free energy calculations". *Journal of Physical Chemistry Part B*. 2013, 117(46). 14329-14335. <https://doi.org/10.1021/jp409040u>

Diban, Nazely et al. "Effect of surface morphology of poly( $\epsilon$ -caprolactone) scaffolds on adipose stem cell adhesion and proliferation". *Macromolecular symposia*. 2013, 334(1). 126-132. <https://doi.org/10.1002/masy.201300106>

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

German, Salvador Jimenez et al. "Proliferation and differentiation of adipose stem cells towards smooth muscle cells on poly(trimethylene carbonate) membranes". *Macromolecular symposia*. 2013, 334(1). 133-142. <https://doi.org/10.1002/masy.201300100>

Cummins, C. et al. "Self-assembly of polystyrene-block-poly(4-vinylpyridine) block copolymer on molecularly functionalized silicon substrates: Fabrication of inorganic nanostructured etchmask for lithographic use". *Journal of Materials Chemistry C*. 2013, 1(47). 7941-7951. <https://doi.org/10.1039/c3tc31498g>

Stepien, Milena et al. "Abrasion and compression resistance of liquid-flame-spray-deposited functional nanoparticle coatings on paper". *13th TAPPI Advanced Coating Fundamentals Symposium 2014*. TAPPI Press. 2014, 68-82.

Le, Hai Hong et al. "Effect of non-rubber components of NR on the carbon nanotube (CNT) localization in SBR/NR blends". *Macromolecular Materials and Engineering*. 2014, 299(5). 569-582. <https://doi.org/10.1002/mame.201300254>

Varis, T. et al. "Formation mechanisms, structure, and properties of HVOF-sprayed WC-CoCr coatings: An approach toward process maps". *Journal of Thermal Spray Technology*. 2014, 23(6). 1009-1018. <https://doi.org/10.1007/s11666-014-0110-5>

Mylläri, Ville, Tero Petri Ruoko and Pentti Järvelä. "The effects of UV irradiation to polyetheretherketone fibres: Characterization by different techniques". *Polymer Degradation and Stability*. 2014, 109. 278-284. <https://doi.org/10.1016/j.polymdegradstab.2014.08.003>

Eshwaran, S. B. et al. "Stearate Modified Zinc-Aluminum Layered Double Hydroxides and Acrylonitrile Butadiene Rubber Nanocomposites". *Polymer-Plastics Technology and Engineering*. 2014, 53(1). 65-73. <https://doi.org/10.1080/03602559.2013.843690>

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

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

Kuzmin, Michael G. et al. "Microphase mechanism of "superquenching" of luminescent probes in aqueous solutions of DNA and some other polyelectrolytes". *Journal of Physical Chemistry Part B*. 2014, 118(15). 4245-4252. <https://doi.org/10.1021/jp500713q>

Ghabchi, Arash et al. "Damage mechanisms and cracking behavior of thermal sprayed WC-CoCr coating under scratch testing". *Wear*. 2014, 313(1-2). 97-105. <https://doi.org/10.1016/j.wear.2014.02.017>

Mahmood, Nasir et al. "Carbon nanotubes-filled thermoplastic polyurethane-urea and carboxylated acrylonitrile butadiene rubber blend nanocomposites". *Journal of Applied Polymer Science*. 2014. 131(11). <https://doi.org/10.1002/app.40341>

Werner, Josephina et al. "Surface behavior of hydrated guanidinium and ammonium ions: A comparative study by photoelectron spectroscopy and molecular dynamics". *Journal of Physical Chemistry Part B*. 2014, 118(25). 7119-7127. <https://doi.org/10.1021/jp500867w>

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

Oksa, Maria, Tommi Varis and Kimmo Ruusuvuori. "Performance testing of iron based thermally sprayed HVOF coatings in a biomass-fired fluidised bed boiler". *Surface and Coatings Technology*. 2014, 251. 191-200. <https://doi.org/10.1016/j.surfcoat.2014.04.025>

Kapgate, Bharat P. et al. "Effect of silane integrated sol-gel derived in situ silica on the properties of nitrile rubber". *Journal of Applied Polymer Science*. 2014. 131(15). <https://doi.org/10.1002/app.40531>

Ojala, Niko et al. "Effects of composition and microstructure on the abrasive wear performance of quenched wear resistant steels". *Wear*. 2014, 317(1-2). 225-232. <https://doi.org/10.1016/j.wear.2014.06.003>

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

Goulet-Hanssens, Alexis et al. "Effect of head group size on the photoswitching applications of azobenzene Disperse Red 1 analogues". *Journal of Materials Chemistry C*. 2014, 2(36). 7505-7512. <https://doi.org/10.1039/c4tc00996g>

Rasappa, Sozaraj et al. "Rapid, Brushless Self-assembly of a PS-b-PDMS Block Copolymer for Nanolithography". *Colloids and Interface Science Communications*. 2014, 2. 1-5. <https://doi.org/10.1016/j.colcom.2014.07.001>

Wang, Xin et al. "A supramolecular approach to photoresponsive thermo/solvoplastic block copolymer elastomers". *Macromolecules*. 2014, 47(20). 7099-7108. <https://doi.org/10.1021/ma501278b>

Mohanty, Aruna Kumar et al. "Electromagnetic interference shielding effectiveness of MWCNT filled poly(ether sulfone) and poly(ether imide) nanocomposites". *Polymer Engineering and Science*. 2014, 54(11). 2560-2570. <https://doi.org/10.1002/pen.23804>

Tawade, Bhausaheb V. et al. "Processable aromatic polyesters based on bisphenol derived from cashew nut shell liquid: synthesis and characterization". *JOURNAL OF POLYMER RESEARCH*. 2014. 21(12). <https://doi.org/10.1007/s10965-014-0617-y>

Song, Xuemei et al. "Fabrication and Characterization of Amorphous Alumina-Yttria-Stabilized Zirconia Coatings by Air Plasma Spraying". *Journal of Thermal Spray Technology*. 2014, 23(8). 1302-1311. <https://doi.org/10.1007/s11666-014-0124-z>

Basu, Debdipta et al. "Unmodified LDH as reinforcing filler for XNBR and the development of flame-retardant elastomer composites". *Rubber Chemistry and Technology*. 2014, 87(4). 606-616. <https://doi.org/10.5254/rct.14.86920>

Palivec, Vladimír et al. "DNA lesion can facilitate base ionization: Vertical ionization energies of aqueous 8-oxoguanine and its nucleoside and nucleotide". *Journal of Physical Chemistry Part B*. 2014, 118(48). 13833-13837. <https://doi.org/10.1021/jp5111086>

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

Niittymäki, Minna et al. "Dielectric Breakdown Strength of Thermally Sprayed Ceramic Coatings: Effects of Different Test Arrangements". *Journal of Thermal Spray Technology*. 2015, 24(3). 542-551. <https://doi.org/10.1007/s11666-014-0211-1>

Milanti, A., H. Koivuluoto, and P. Vuoristo. "Influence of the Spray Gun Type on Microstructure and Properties of HVOF Sprayed Fe-Based Corrosion Resistant Coatings". *Journal of Thermal Spray Technology*. 2015, 24(7). 1312-1322. <https://doi.org/10.1007/s11666-015-0298-z>

Ojuva, Arto et al. "Mechanical performance and CO<sub>2</sub> uptake of ion-exchanged zeolite A structured by freeze-casting". *Journal of the European Ceramic Society*. 2015, 35(9). 2607-2618. <https://doi.org/10.1016/j.jeurceramsoc.2015.03.001>

Kalimeri, Maria, Philippe Derreumaux and Fabio Sterpone. "Are coarse-grained models apt to detect protein thermal stability? the case of OPEP force field". *Journal of Non-Crystalline Solids*. 2015, 407. 494-501. <https://doi.org/10.1016/j.jnoncrysol.2014.07.005>

Heiskanen, J. P. et al. "Aryl end-capped quaterthiophenes applied as anode interfacial layers in inverted organic solar cells". *Thin Solid Films*. 2015, 574. 196-206. <https://doi.org/10.1016/j.tsf.2014.12.007>

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

Saccone, Marco et al. "Supramolecular hierarchy among halogen and hydrogen bond donors in light-induced surface patterning". *Journal of Materials Chemistry C*. 2015, 3. 759-768. <https://doi.org/10.1039/c4tc02315c>

Fatarelle, Enrico et al. "Sulfonated polyetheretherketone/polypropylene polymer blends for the production of photoactive materials". *Journal of Applied Polymer Science*. 2015. 132(8). <https://doi.org/10.1002/app.41509>

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

Eshwaran, Subramani Bhagavatheswaran et al. "Exploring the role of stearic acid in modified zinc aluminum layered double hydroxides and their acrylonitrile butadiene rubber nanocomposites". *Journal of Applied Polymer Science*. 2015. 132(9). <https://doi.org/10.1002/app.41539>

Varis, T. et al. "High temperature corrosion of thermally sprayed NiCr and FeCr coatings covered with a KCl-K<sub>2</sub>SO<sub>4</sub> salt mixture". *Surface and Coatings Technology*. 2015, 265. 235-243. <https://doi.org/10.1016/j.surfcoat.2014.11.012>

Bolelli, G. et al. "Tribology of HVOF- and HVOF-sprayed WC-10Co4Cr hardmetal coatings: A comparative assessment". *Surface and Coatings Technology*. 2015, 265. 125-144. <https://doi.org/10.1016/j.surfcoat.2015.01.048>

Isotahdon, E. et al. "Corrosion mechanisms of sintered Nd-Fe-B magnets in the presence of water as vapour, pressurised vapour and liquid". *Journal of Alloys and Compounds*. 2015, 626. 349-359. <https://doi.org/10.1016/j.jallcom.2014.12.048>

Saarikoski, Eve, Marja Rissanen and Jukka Seppälä. "Effect of rheological properties of dissolved cellulose/microfibrillated cellulose blend suspensions on film forming". *Carbohydrate Polymers*. 2015, 119. 62-70. <https://doi.org/10.1016/j.carbpol.2014.11.033>

Karilainen, Topi et al. "Oxidation of cholesterol does not alter significantly its uptake into high-density lipoprotein particles". *Journal of Physical Chemistry Part B*. 2015, 119(13). 4594-4600. <https://doi.org/10.1021/acs.jpcc.5b00240>

Lindgren, M., R. Suihkonen, and J. Vuorinen. "Erosive wear of various stainless steel grades used as impeller blade materials in high temperature aqueous slurry". *Wear*. 2015, 328-329. 391-400. <https://doi.org/10.1016/j.wear.2015.03.014>

- Lindroos, Matti et al. "The effect of impact conditions on the wear and deformation behavior of wear resistant steels". *Wear*. 2015, 328-329. 197-205. <https://doi.org/10.1016/j.wear.2015.02.032>
- Song, Xuemei et al. "Effect of melting state on the thermal shock resistance and thermal conductivity of APS ZrO<sub>2</sub>-7.5wt.% Y<sub>2</sub>O<sub>3</sub> coatings". *Surface and Coatings Technology*. 2015, 270. 132-138. <https://doi.org/10.1016/j.surfcoat.2015.03.011>
- Hladílková, Jana et al. "Hydration of hydroxyl and amino groups examined by molecular dynamics and neutron scattering". *Journal of Physical Chemistry Part B*. 2015, 119(21). 6357-6365. <https://doi.org/10.1021/jp510528u>
- Manea, Liliana Rozemarie et al. "Equipment for obtaining polymeric nanofibres by electrospinning technology: II. The obtaining of polymeric nanofibers". *Materiale Plastice*. 2015, 52(2). 180-185.
- Dziewciuch, Monika et al. "PEGylated liposomes as carriers of hydrophobic porphyrins". *Journal of Physical Chemistry Part B*. 2015, 119(22). 6646-6657. <https://doi.org/10.1021/acs.jpbc.5b01351>
- Salpavaara, Timo et al. "Passive resonance sensor based method for monitoring particle suspensions". *Sensors and Actuators B: Chemical*. 2015, 219. 324-330. <https://doi.org/10.1016/j.snb.2015.04.121>
- Abou-Chahine, Fawzi et al. "Synthesis and Photophysical Properties of Two Diazaporphyrin-Porphyrin Hetero Dimers in Polar and Nonpolar Solutions". *Journal of Physical Chemistry Part B*. 2015, 119(24). 7328-7337. <https://doi.org/10.1021/jp510903a>
- Mylläri, Ville, Tero-Petri Ruoko, and Seppo Syrjäälä. "A comparison of rheology and FTIR in the study of polypropylene and polystyrene photodegradation". *Journal of Applied Polymer Science*. 2015. 132(28). <https://doi.org/10.1002/app.42246>
- Isoniemi, Tommi et al. "Measuring optical anisotropy in poly(3,4-ethylene dioxythiophene): poly(styrene sulfonate) films with added graphene". *Organic Electronics*. 2015, 25. 317-323. <https://doi.org/10.1016/j.orgel.2015.06.037>, <https://doi.org/10.1016/j.orgel.2015.06.037>
- Rahaman, Obaidur et al. "Role of Internal Water on Protein Thermal Stability: The Case of Homologous G Domains". *Journal of Physical Chemistry Part B*. 2015, 119(29). 8939-8949. <https://doi.org/10.1021/jp507571u>
- Timr, Štěpán et al. "Nonlinear Optical Properties of Fluorescent Dyes Allow for Accurate Determination of Their Molecular Orientations in Phospholipid Membranes". *Journal of Physical Chemistry Part B*. 2015, 119(30). 9706-9716. <https://doi.org/10.1021/acs.jpbc.5b05123>
- Kanerva, Ulla et al. "Evaluation of crushing strength of spray-dried MgAl<sub>2</sub>O<sub>4</sub> granule beds". *Ceramics International*. 2015, 41(7). 8494-8500. <https://doi.org/10.1016/j.ceramint.2015.03.056>
- Kwalek, Urszula et al. "Effect of Phosphatidic Acid on Biomembrane: Experimental and Molecular Dynamics Simulations Study". *Journal of Physical Chemistry Part B*. 2015, 119(31). 10042-10051. <https://doi.org/10.1021/acs.jpbc.5b03604>
- Tukiainen, Antti et al. "Unintentional boron contamination of MBE-grown GaInP/AlGaInP quantum wells". *Journal of Crystal Growth*. 2015, 425. 60-63. <https://doi.org/10.1016/j.jcrysgro.2015.02.048>
- Ter Schiphorst, Jeroen et al. "Molecular Design of Light-Responsive Hydrogels, for in Situ Generation of Fast and Reversible Valves for Microfluidic Applications". *Chemistry of Materials*. 2015, 27(17). 5925-5931. <https://doi.org/10.1021/acs.chemmater.5b01860>
- Milanti, A. et al. "Effect of spraying parameters on the microstructural and corrosion properties of HVOF-sprayed Fe-Cr-Ni-B-C coatings". *Surface and Coatings Technology*. 2015, 277. 81-90. <https://doi.org/10.1016/j.surfcoat.2015.07.018>

- Orlowski, Adam et al. "PIP2 and Talin Join Forces to Activate Integrin". *Journal of Physical Chemistry Part B*. 2015, 119(38). 12381-12389. <https://doi.org/10.1021/acs.jpccb.5b06457>
- Mylläri, Ville et al. "Characterization of thermally aged polyetheretherketone fibres: Mechanical, thermal, rheological and chemical property changes". *Polymer Degradation and Stability*. 2015, 120. 419-426. <https://doi.org/10.1016/j.polyimdegradstab.2015.08.003>
- Mylläri, Ville et al. "Production of sulfonated polyetheretherketone/polypropylene fibers for photoactive textiles". *Journal of Applied Polymer Science*. 2015. 132(39). <https://doi.org/10.1002/app.42595>
- Oksanen, V. et al. "Comparison of laboratory rolling-sliding wear tests with in-service wear of nodular cast iron rollers against wire ropes". *Wear*. 2015, 340-341. 73-81. <https://doi.org/10.1016/j.wear.2015.07.006>
- Vapaavuori, Jaana et al. "In Situ Photocontrol of Block Copolymer Morphology during Dip-Coating of Thin Films". *ACS Macro Letters*. 2015, 4(10). 1158-1162. <https://doi.org/10.1021/acsmacrolett.5b00483>
- Vapaavuori, Jaana et al. "Photomechanical Energy Transfer to Photopassive Polymers through Hydrogen and Halogen Bonds". *Macromolecules*. 2015, 48(20). 7535-7542. <https://doi.org/10.1021/acs.macromol.5b01813>
- Le, H. H. et al. "Effect of rubber polarity on selective wetting of carbon nanotubes in ternary blends". *Express Polymer Letters*. 2015, 9(11). 960-971. <https://doi.org/10.3144/expresspolymlett.2015.87>
- Massera, J. et al. "Processing and characterization of phosphate glasses containing CaAl<sub>2</sub>O<sub>4</sub>:Eu<sup>2+</sup>,Nd<sup>3+</sup> and SrAl<sub>2</sub>O<sub>4</sub>:Eu<sup>2+</sup>,Dy<sup>3+</sup> microparticles". *Journal of the European Ceramic Society*. 2015, 35(14). 3863-3871. <https://doi.org/10.1016/j.jeurceramsoc.2015.06.031>
- Auer, Sanna et al. "Rapid and sensitive detection of norovirus antibodies in human serum with a bilayer interferometry biosensor". *Sensors and Actuators B: Chemical*. 2015, 221. 507-514. <https://doi.org/10.1016/j.snb.2015.06.088>
- Kaksonen, Anna H. et al. "Chemical and bacterial leaching of metals from a smelter slag in acid solutions". *Hydrometallurgy*. 2016, 159. 46-53. <https://doi.org/10.1016/j.hydromet.2015.10.032>
- Bansod, Naresh D. et al. "Compatibilization of natural rubber/nitrile rubber blends by sol-gel nano-silica generated by in situ method". *JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY*. 2016, 80(2). 548-559. <https://doi.org/10.1007/s10971-016-4114-0>
- Hupa, Leena et al. "Dissolution behavior of the bioactive glass S53P4 when sodium is replaced by potassium, and calcium with magnesium or strontium". *Journal of Non-Crystalline Solids*. 2016, 41-46. <https://doi.org/10.1016/j.jnoncrysol.2015.03.026>
- Lahti, Johanna et al. "Improved properties for packaging materials by nanoscale surface modification and ALD barrier coating". *TAPPI International Conference on Nanotechnology for Renewable Materials 2016*. TAPPI Press. 2016, 684-706.
- Tuominen, J. et al. "Microstructural and abrasion wear characteristics of laser-clad tool steel coatings". *Surface Engineering*. 2016, 32(12). 923-933. <https://doi.org/10.1080/02670844.2016.1180496>
- Akamatsu, Norihisa et al. "Photoresponsive liquid-crystalline polymer films bilayered with an inverse opal structure". *JOURNAL OF PHOTOPOLYMER SCIENCE AND TECHNOLOGY*. 2016, 29(1). 145-148. <https://doi.org/10.2494/photopolymer.29.145>



- Jarnstrom, Lars et al. "Active packaging by paper coating". *14th TAPPI Advanced Coating Symposium 2016*. TAPPI Press. 2016, 88-92.
- Allolio, Christoph et al. "Guanidinium Pairing Facilitates Membrane Translocation". *Journal of Physical Chemistry Part B*. 2016, 120(1). 143-153. <https://doi.org/10.1021/acs.jpcc.5b10404>
- Salunke, Jagadish K. et al. "Phenothiazine and carbazole substituted pyrene based electroluminescent organic semiconductors for OLED devices". *Journal of Materials Chemistry C*. 2016, 4(5). 1009-1018. <https://doi.org/10.1039/c5tc03690a>
- Katava, Marina et al. "Stability and Function at High Temperature. What Makes a Thermophilic GTPase Different from Its Mesophilic Homologue". *Journal of Physical Chemistry Part B*. 2016, 120(10). 2721-2730. <https://doi.org/10.1021/acs.jpcc.6b00306>
- Kanerva, Ulla et al. "Chemical synthesis of WC-Co from water-soluble precursors: The effect of carbon and cobalt additions to WC synthesis". *International Journal of Refractory Metals and Hard Materials*. 2016, 56. 69-75. <https://doi.org/10.1016/j.ijrmhm.2015.11.014>
- Ma, Li et al. "DFT simulations and microkinetic modelling of 1-pentyne hydrogenation on Cu<sub>20</sub> model catalysts". *Journal of Molecular Graphics and Modelling*. 2016, 65. 61-70. <https://doi.org/10.1016/j.jmgm.2016.02.007>
- Janka, Leo et al. "Influence of heat treatment on the abrasive wear resistance of a Cr<sub>3</sub>C<sub>2</sub>NiCr coating deposited by an ethene-fuelled HVOF spray process". *Surface and Coatings Technology*. 2016, 291. 444-451. <https://doi.org/10.1016/j.surfcoat.2016.02.066>
- Soltani, I. et al. "Thermal, structural and optical properties of Er<sup>3+</sup> doped phosphate glasses containing silver nanoparticles". *Journal of Non-Crystalline Solids*. 2016, 438. 67-73. <https://doi.org/10.1016/j.jnoncrysol.2015.12.022>
- Milanti, A. et al. "Microstructure and Sliding Wear Behavior of Fe-Based Coatings Manufactured with HVOF and HVOF Thermal Spray Processes". *Journal of Thermal Spray Technology*. 2016, 25(5). 1040-1055. <https://doi.org/10.1007/s11666-016-0410-z>
- Sharma, Ramakant, Sagar Bhalerao and Dipti Gupta. "Effect of incorporation of CdS NPs on performance of PTB7: PCBM organic solar cells". *Organic Electronics: physics, materials, applications*. 2016, 33. 274-280. <https://doi.org/10.1016/j.orgel.2016.03.030>
- Poutanen, Mikko, Olli Ikkala, and Arri Priimägi. "Structurally Controlled Dynamics in Azobenzene-Based Supramolecular Self-Assemblies in Solid State". *Macromolecules*. 2016, 49(11). 4095-4101. <https://doi.org/10.1021/acs.macromol.6b00562>
- Kiilakoski, Jarkko et al. "Characterization of High-Velocity Single Particle Impacts on Plasma-Sprayed Ceramic Coatings". *Journal of Thermal Spray Technology*. 2016, 25. 1127-1137. <https://doi.org/10.1007/s11666-016-0428-2>
- Suihkonen, Reija et al. "Erosion wear of vinylester matrix composites in aqueous and acidic environments at elevated temperatures". *Wear*. 2016, 358-359. 7-16. <https://doi.org/10.1016/j.wear.2016.03.026>
- Bolelli, G. et al. "Sliding and abrasive wear behaviour of HVOF- and HVOF-sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr hardmetal coatings". *Wear*. 2016, 358-359. 32-50. <https://doi.org/10.1016/j.wear.2016.03.034>
- Cui, S. et al. "Novel oxyfluorophosphate glasses and glass-ceramics". *Journal of Non-Crystalline Solids*. 2016, 445-446. 40-44. <https://doi.org/10.1016/j.jnoncrysol.2016.05.005>

- Alekseev, Alexander et al. "The red, purple and blue modifications of polymeric unsymmetrical hydroxyalkadiynyl-N-arylcarbamate derivatives in Langmuir-Schaefer films". *Thin Solid Films*. 2016, 612. 463-471. <https://doi.org/10.1016/j.tsf.2016.06.044>
- Kapgate, Bharat P. et al. "Reinforced chloroprene rubber by in situ generated silica particles: Evidence of bound rubber on the silica surface". *Journal of Applied Polymer Science*. 2016. 133(30). <https://doi.org/10.1002/app.43717>
- Mylläri, Ville et al. "Detergent impurity effect on recycled HDPE: Properties after repetitive processing". *Journal of Applied Polymer Science*. 2016. 133(31). <https://doi.org/10.1002/app.43766>
- Lindgren, M., S. Santa-aho, and M. Vippola. "Barkhausen noise response of three different welded duplex stainless steels". *Insight*. 2016, 58(9). 480-486. <https://doi.org/10.1784/insi.2016.58.9.480>
- Robison, Aaron D. et al. "Polyarginine Interacts More Strongly and Cooperatively than Polylysine with Phospholipid Bilayers". *Journal of Physical Chemistry Part B*. 2016, 120(35). 9287-9296. <https://doi.org/10.1021/acs.jpcc.6b05604>
- Heinonen, Saara et al. "Photocatalytic and antibacterial properties of ZnO films with different surface topographies on stainless steel substrate". *Thin Solid Films*. 2016, 616. 842-849. <https://doi.org/10.1016/j.tsf.2016.10.002>
- Lindgren, M. et al. "Erosion–corrosion resistance of various stainless steel grades in high-temperature sulfuric acid solution". *Wear*. 2016, 364-365. 10-21. <https://doi.org/10.1016/j.wear.2016.06.007>
- Poikelispää, Minna et al. "Improvement of actuation performance of dielectric elastomers by barium titanate and carbon black fillers". *Journal of Applied Polymer Science*. 2016. 133(42). <https://doi.org/10.1002/app.44116>
- Varis, T. et al. "Optimization of HVOF Cr<sub>3</sub>C<sub>2</sub>-NiCr coating for increased fatigue performance". *Surface and Coatings Technology*. 2016, 305. 123-131. <https://doi.org/10.1016/j.surfcoat.2016.08.012>
- Sarjas, Heikki et al. "Abrasive-Erosive Wear of Thermally Sprayed Coatings from Experimental and Commercial Cr<sub>3</sub>C<sub>2</sub>-Based Powders". *Journal of Thermal Spray Technology*. 2017, 26(8). 2020–2029. <https://doi.org/10.1007/s11666-017-0638-2>
- Hyysalo, Anu et al. "Aligned Poly(ε-caprolactone) Nanofibers Guide the Orientation and Migration of Human Pluripotent Stem Cell-Derived Neurons, Astrocytes, and Oligodendrocyte Precursor Cells In Vitro". *MACROMOLECULAR BIOSCIENCE*. 2017. 17(7). <https://doi.org/10.1002/mabi.201600517>
- Janka, L. et al. "HVOF- and HVAF-Sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr Coatings Deposited from Feedstock Powders of Spherical Morphology: Microstructure Formation and High-Stress Abrasive Wear Resistance Up to 800 °C". *Journal of Thermal Spray Technology*. 2017, 26(7). 1720–1731. <https://doi.org/10.1007/s11666-017-0621-y>
- Oksanen, V. T., A. J. Lehtovaara and M. H. Kallio. "Load capacity of lubricated bismuth bronze bimetal bearing under elliptical sliding motion". *Wear*. 2017, 388-389. 72-80. <https://doi.org/10.1016/j.wear.2017.05.001>
- Salpavaara, Timo et al. "Non-destructive and wireless monitoring of biodegradable polymers". *Sensors and Actuators B: Chemical*. 2017, 251. 1018-1025. <https://doi.org/10.1016/j.snb.2017.05.116>
- Matikainen, V. et al. "Sliding wear behaviour of HVOF and HVAF sprayed Cr<sub>3</sub>C<sub>2</sub>-based coatings". *Wear*. 2017, 388-389. 57-71. <https://doi.org/10.1016/j.wear.2017.04.001>
- Morandi, Antonio et al. "The 5th international workshop on numerical modelling of high temperature superconductors". *Superconductor Science and Technology*. 2017. 30(8). <https://doi.org/10.1088/1361-6668/aa7676>

- Javanainen, Matti et al. "Two cations, two mechanisms: Interactions of sodium and calcium with zwitterionic lipid membranes". *Chemical Communications*. 2017, 53(39). 5380-5383. <https://doi.org/10.1039/c7cc02208e>
- Isotahdon, Elisa, Elina Huttunen-Saarivirta, and Veli Kuokkala. "Characterization of the microstructure and corrosion performance of Ce-alloyed Nd-Fe-B magnets". *Journal of Alloys and Compounds*. 2017, 692. 190-197. <https://doi.org/10.1016/j.jallcom.2016.09.058>
- Ruuskanen, J. et al. "Electromagnetic nonlinearities in a Roebel-cable-based accelerator magnet prototype: Variational approach". *Superconductor Science and Technology*. 2017. 30(2). <https://doi.org/10.1088/1361-6668/30/2/024008>
- Milani, Roberto et al. "Hierarchical Self-Assembly of Halogen-Bonded Block Copolymer Complexes into Upright Cylindrical Domains". *CheM*. 2017, 2(3). 417-426. <https://doi.org/10.1016/j.chempr.2017.02.003>
- Lopez-Iscoa, Pablo et al. "Effect of the addition of Al<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub> and ZnO on the thermal, structural and luminescence properties of Er<sup>3+</sup>-doped phosphate glasses". *Journal of Non-Crystalline Solids*. 2017, 460. 161-168. <https://doi.org/10.1016/j.jnoncrsol.2017.01.030>
- Saccone, Marco et al. "Halogen bonding stabilizes a cis-azobenzene derivative in the solid state: A crystallographic study". *ACTA CRYSTALLOGRAPHICA SECTION B : STRUCTURAL SCIENCE, CRYSTAL ENGINEERING AND MATERIALS*. 2017, 73(2). 227-233. <https://doi.org/10.1107/S2052520617003444>
- Mentink, M. and T Salmi. "Quench absorption coils: A quench protection concept for high-field superconducting accelerator magnets". *Superconductor Science and Technology*. 2017. 30(6). <https://doi.org/10.1088/1361-6668/aa6678>
- Rahaman, Obaidur et al. "Configurational Disorder of Water Hydrogen-Bond Network at the Protein Dynamical Transition". *Journal of Physical Chemistry Part B*. 2017, 121(28). 6792-6798. <https://doi.org/10.1021/acs.jpcc.7b03888>
- Poikelispää, Minna et al. "Vegetable fillers for electric stimuli responsive elastomers". *Journal of Applied Polymer Science*. 2017. 134(28). <https://doi.org/10.1002/app.45081>
- Matikainen, V. et al. "A Study of Cr<sub>3</sub>C<sub>2</sub>-Based HVOF- and HVOF-Sprayed Coatings: Microstructure and Carbide Retention". *Journal of Thermal Spray Technology*. 2017, 26(6). 1-18. <https://doi.org/10.1007/s11666-017-0578-x>
- Isakov, M. et al. "Systematic analysis of coating-substrate interactions in the presence of flow localization". *Surface and Coatings Technology*. 2017, 324. 264-280. <https://doi.org/10.1016/j.surfcoat.2017.05.040>
- Tkalich, Dmitry et al. "Wear of cemented tungsten carbide percussive drill-bit inserts: Laboratory and field study". *Wear*. 2017, 386-387. 106-117. <https://doi.org/10.1016/j.wear.2017.05.010>
- Heinonen, Saara et al. "Investigation of long-term chemical stability of structured ZnO films in aqueous solutions of varying conditions". *Thin Solid Films*. 2017, 638. 410-419. <https://doi.org/10.1016/j.tsf.2017.07.055>
- Välimäki, Hannu et al. "Fluorimetric oxygen sensor with an efficient optical read-out for in vitro cell models". *Sensors and Actuators B: Chemical*. 2017, 249. 738-746. <https://doi.org/10.1016/j.snb.2017.04.182>
- Christophliemk, Hanna et al. "Starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper and their effects of phase interactions". *Progress in Organic Coatings*. 2017, 111. 13-22. <https://doi.org/10.1016/j.porgcoat.2017.04.018>
- Sarlin, Essi et al. "Erosive wear of filled vinylester composites in water and acidic media at elevated temperature". *Wear*. 2017, 390-391. 84-92. <https://doi.org/10.1016/j.wear.2017.07.011>

- Santangelo, Paolo E. et al. "Infrared Thermography as a Non-destructive Testing Solution for Thermal Spray Metal Coatings". *Journal of Thermal Spray Technology*. 2017, 26(8). 1982–1993. <https://doi.org/10.1007/s11666-017-0642-6>
- Christophliemk, Hanna et al. "Oxygen and water vapor transmission rates of starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper". *Progress in Organic Coatings*. 2017, 113. 218-224. <https://doi.org/10.1016/j.porgcoat.2017.04.019>
- Lisitsyna, Ekaterina S. et al. "Time-Resolved Fluorescence Spectroscopy Reveals Fine Structure and Dynamics of Poly(L-lysine) and Polyethylenimine Based DNA Polyplexes". *Journal of Physical Chemistry B*. 2017, 121(48). 10782-10792. <https://doi.org/10.1021/acs.jpcc.7b08394>
- Saarimaa, Ville et al. "Supercritical carbon dioxide treatment of hot dip galvanized steel as a surface treatment before coating". *Surface and Coatings Technology*. 2017, 331. 137-142. <https://doi.org/10.1016/j.surfcoat.2017.10.047>
- Glorieux, Benoit et al. "Better understanding of the role of SiO<sub>2</sub>, P<sub>2</sub>O<sub>5</sub> and Al<sub>2</sub>O<sub>3</sub> on the spectroscopic properties of Yb<sup>3+</sup> doped silica sol-gel glasses". *Journal of Non-Crystalline Solids*. 2018, 482. 46-51. <https://doi.org/10.1016/j.jnoncrysol.2017.12.021>
- Saarimaa, Ville et al. "Convenient extraction method for quantification of thin zinc patina layers". *Surface and Interface Analysis*. 2018, 50(5). 564-570. <https://doi.org/10.1002/sia.6429>
- Durandin, Nikita A. et al. "Efficient photon upconversion at remarkably low annihilator concentrations in a liquid polymer matrix: when less is more". *Chemical Communications*. 2018, 54(99). 14029-14032. <https://doi.org/10.1039/c8cc07592a>
- Kiilakoski, J. et al. "Evaluating the toughness of APS and HVOF-sprayed Al<sub>2</sub>O<sub>3</sub>-ZrO<sub>2</sub>-coatings by in-situ- and macroscopic bending". *Journal of the European Ceramic Society*. 2018, 38(4). 1908-1918. <https://doi.org/10.1016/j.jeurceramsoc.2017.11.056>
- Shakun, Alexandra et al. "Improved electromechanical response in acrylic rubber by different carbon-based fillers". *Polymer Engineering and Science*. 2018, 58(3). 395-404. <https://doi.org/10.1002/pen.24586>
- Rajan, Rathish et al. "Modification of epoxy resin by silane-coupling agent to improve tensile properties of viscose fabric composites". *Polymer Bulletin*. 2018, 75(1). 167–195. <https://doi.org/10.1007/s00289-017-2022-2>
- Koivuluoto, Heli et al. "Novel Online Diagnostic Analysis for In-Flight Particle Properties in Cold Spraying". *Journal of Thermal Spray Technology*. 2018, 27(3). 423–432. <https://doi.org/10.1007/s11666-018-0685-3>
- Saarinen, M. et al. "Persistent luminescent particles containing bioactive glasses: Prospect toward tracking in-vivo implant mineralization using biophotonic ceramics". *Journal of the European Ceramic Society*. 2018, 38(1). 287-295. <https://doi.org/10.1016/j.jeurceramsoc.2017.08.024>
- Sulonen, Mira L.K. et al. "Simultaneous removal of tetrathionate and copper from simulated acidic mining water in bioelectrochemical and electrochemical systems". *Hydrometallurgy*. 2018, 176. 129-138. <https://doi.org/10.1016/j.hydromet.2018.01.023>
- Alekseev, Alexander et al. "Stable blue phase polymeric Langmuir-Schaefer films based on unsymmetrical hydroxyalkadiynyl N-arylcarbamate derivatives". *Thin Solid Films*. 2018, 645. 108-118. <https://doi.org/10.1016/j.tsf.2017.10.018>
- Vapaavuori, Jaana, C. Geraldine Bazuin, and Arri Priimagi. "Supramolecular design principles for efficient photoresponsive polymer-azobenzene complexes". *Journal of Materials Chemistry C*. 2018, 6(9). 2168-2188. <https://doi.org/10.1039/c7tc05005d>

- Bolelli, Giovanni et al. "Tribology of FeVCrC coatings deposited by HVOF and HVOF thermal spray processes". *Wear*. 2018, 394-395. 113-133. <https://doi.org/10.1016/j.wear.2017.10.014>
- Saccone, Marco et al. "Ortho-Fluorination of azophenols increases the mesophase stability of photoresponsive hydrogen-bonded liquid crystals". *Journal of Materials Chemistry C*. 2018, 6(37). 9958-9963. <https://doi.org/10.1039/c8tc02611d>
- Suokas, E. and J. Kuusipalo "Process time importance in the product properties evolution during extrusion coating of different LDPE grades". *15th TAPPI Advanced Coating Fundamentals Symposium 2018: Charlotte; United States; 14 April 2018 through 15 April 2018*. TAPPI Press. 2018, 151-159.
- Yury, Korobov et al. "Arc-sprayed Fe-based coatings from coredwires for wear and corrosion protection in power engineering". *Coatings*. 2018. 8(2). <https://doi.org/10.3390/coatings8020071>
- Vaikuntam, Sankar Raman et al. "Entrapped Styrene Butadiene Polymer Chains by Sol-Gel-Derived Silica Nanoparticles with Hierarchical Raspberry Structures". *Journal of Physical Chemistry B*. 2018, 122(6). 2010-2022. <https://doi.org/10.1021/acs.jpcc.7b11792>
- Hannula, Markku et al. "Improved Stability of Atomic Layer Deposited Amorphous TiO<sub>2</sub> Photoelectrode Coatings by Thermally Induced Oxygen Defects". *Chemistry of Materials*. 2018, 30(4). 1199-1208. <https://doi.org/10.1021/acs.chemmater.7b02938>
- Bhagavatheswaran, Eshwaran Subramani et al. "High-performance elastomeric strain sensors based on nanostructured carbon fillers for potential tire applications". *Materials Today Communications*. 2018, 14. 240-248. <https://doi.org/10.1016/j.mtcomm.2018.01.013>
- Karvinen, Jennika et al. "Soft hydrazone crosslinked hyaluronan- and alginate-based hydrogels as 3D supportive matrices for human pluripotent stem cell-derived neuronal cells". *Reactive and Functional Polymers*. 2018, 124. 29-39. <https://doi.org/10.1016/j.reactfunctpolym.2017.12.019>
- Janka, Leo et al. "Improving the high temperature abrasion resistance of thermally sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr coatings by WC addition". *Surface and Coatings Technology*. 2018, 337. 296-305. <https://doi.org/10.1016/j.surfcoat.2018.01.035>
- Poutanen, Mikko et al. "Thermal Isomerization of Hydroxyazobenzenes as a Platform for Vapor Sensing". *ACS Macro Letters*. 2018, 7(3). 381-386. <https://doi.org/10.1021/acsmacrolett.8b00093>
- Sassatelli, Paolo et al. "Properties of HVOF-sprayed Stellite-6 coatings". *Surface and Coatings Technology*. 2018, 338. 45-62. <https://doi.org/10.1016/j.surfcoat.2018.01.078>
- Matikainen, V. et al. "Effect of nozzle geometry on the microstructure and properties of hvaf-sprayed wc-10co4cr and cr3c2-25nicr coatings". *Journal of Thermal Spray Technology*. 2018, 27(4). 680-694. <https://doi.org/10.1007/s11666-018-0717-z>
- Magarkar, Aniket et al. "Membrane bound COMT isoform is an interfacial enzyme: General mechanism and new drug design paradigm". *Chemical Communications*. 2018, 54(28). 3440-3443. <https://doi.org/10.1039/c8cc00221e>
- Nugteren, J. Van et al. "Powering of an HTS dipole insert-magnet operated standalone in helium gas between 5 and 85 K". *Superconductor Science and Technology*. 2018. 31(6). <https://doi.org/10.1088/1361-6668/aab887>
- Melcr, Josef et al. "Accurate Binding of Sodium and Calcium to a POPC Bilayer by Effective Inclusion of Electronic Polarization". *Journal of Physical Chemistry B*. 2018, 122(16). 4546-4557. <https://doi.org/10.1021/acs.jpcc.7b12510>

Sarcan, F. et al. "A study of electric transport in n- and p-type modulation-doped GaInNAs/GaAs quantum well structures under a high electric field". *Semiconductor Science and Technology*. 2018. 33(6). <https://doi.org/10.1088/1361-6641/aabc39>

Ojha, N. et al. "Influence of the phosphate glass melt on the corrosion of functional particles occurring during the preparation of glass-ceramics". *Ceramics International*. 2018, 44(10). 11807-11811. <https://doi.org/10.1016/j.ceramint.2018.03.267>

Goyos-Ball, Lidia et al. "The effects of laser patterning 10CeTzP-Al<sub>2</sub>O<sub>3</sub> nanocomposite disc surfaces: Osseous differentiation and cellular arrangement in vitro". *Ceramics International*. 2018, 44(8). 9472-9478. <https://doi.org/10.1016/j.ceramint.2018.02.164>

Kaunisto, Kimmo et al. "The effect of carbon and nickel additions on the precursor synthesis of Cr<sub>3</sub>C<sub>2</sub>-Ni nanopowder". *Ceramics International*. 2018, 44(8). 9338-9346. <https://doi.org/10.1016/j.ceramint.2018.02.146>

Nommeots-Nomm, A. et al. "Luminescence of Er<sup>3+</sup> doped oxyfluoride phosphate glasses and glass-ceramics". *Journal of Alloys and Compounds*. 2018, 751. 224-230. <https://doi.org/10.1016/j.jallcom.2018.04.101>

Prando, G. A. et al. "Exciton localization and structural disorder of GaAs<sub>1-x</sub>Bi<sub>x</sub>/GaAs quantum wells grown by molecular beam epitaxy on (311)B GaAs substrates". *Semiconductor Science and Technology*. 2018. 33(8). <https://doi.org/10.1088/1361-6641/aad02e>

Cemlyn, Ben et al. "Near-threshold high spin amplification in a 1300 nm GaInNAs spin laser". *Semiconductor Science and Technology*. 2018. 33(9). <https://doi.org/10.1088/1361-6641/aad42e>

Bomberg, Malin et al. "Post operation inactivation of acidophilic bioleaching microorganisms using natural chloride-rich mine water". *Hydrometallurgy*. 2018, 180. 236-245. <https://doi.org/10.1016/j.hydromet.2018.06.013>

Kaksonen, Anna H. et al. "Recent progress in biohydrometallurgy and microbial characterisation". *Hydrometallurgy*. 2018, 180. 7-25. <https://doi.org/10.1016/j.hydromet.2018.06.018>

Rajan, Rathish et al. "Mechanical, thermal, and burning properties of viscose fabric composites: Influence of epoxy resin modification". *Journal of Applied Polymer Science*. 2018. 135(36). <https://doi.org/10.1002/app.46673>

Šutka, Andris et al. "Solvothermal synthesis derived Co-Ga codoped ZnO diluted magnetic degenerated semiconductor nanocrystals". *Journal of Alloys and Compounds*. 2018, 763. 164-172. <https://doi.org/10.1016/j.jallcom.2018.05.036>

Gunes, M. et al. "Optical properties of GaAs<sub>1-x</sub>Bi<sub>x</sub>/GaAs quantum well structures grown by molecular beam epitaxy on (100) and (311)B GaAs substrates". *Semiconductor Science and Technology*. 2018. 33(12). <https://doi.org/10.1088/1361-6641/aaea2e>

Joost, Urmas et al. "Reversible photodoping of TiO<sub>2</sub> nanoparticles". *Chemistry of Materials*. 2018, 30(24). 8968-8974. <https://doi.org/10.1021/acs.chemmater.8b04813>

Lopez-Iscoa, Pablo et al. "Design, processing, and characterization of an optical core-bioactive clad phosphate fiber for biomedical applications". *JOURNAL OF THE AMERICAN CERAMIC SOCIETY*. 2019. <https://doi.org/10.1111/jace.16553>

Mereuta, Alexandru et al. "Flip-chip Wafer-fused OP-VECSELs emitting 3.65 W at the 1.55-μm waveband". *IEEE Journal of Selected Topics in Quantum Electronics*. 2019. 25(6). <https://doi.org/10.1109/JSTQE.2019.2922819>

Passananti, Monica et al. "How well can we predict cluster fragmentation inside a mass spectrometer?". *Chemical Communications*. 2019, 55(42). 5946-5949. <https://doi.org/10.1039/c9cc02896j>

Shin, Mingue et al. "Low-dimensional formamidinium lead perovskite architectures via controllable solvent intercalation". *Journal of Materials Chemistry C*. 2019, 7(13). 3945-3951. <https://doi.org/10.1039/c9tc00379g>

Barberi, Jacopo et al. "Mechanical characterization of pore-graded bioactive glass scaffolds produced by robocasting". *Biomedical Glasses*. 2019, 5(1). 140-147. <https://doi.org/10.1515/bglass-2019-0012>

Kiilakoski, Jarkko et al. "Process Parameter Impact on Suspension-HVOF-Sprayed Cr<sub>2</sub>O<sub>3</sub> Coatings". *Journal of Thermal Spray Technology*. 2019. <https://doi.org/10.1007/s11666-019-00940-7>

Fliervoet, Lies A.L. et al. "Structure and Dynamics of Thermosensitive pDNA Polyplexes Studied by Time-Resolved Fluorescence Spectroscopy". *Biomacromolecules*. 2019. <https://doi.org/10.1021/acs.biomac.9b00896>

Banerjee, Shib Shankar et al. "Temperature scanning stress relaxation behavior of water responsive and mechanically adaptive elastomer nanocomposites". *Journal of Applied Polymer Science*. 2019. <https://doi.org/10.1002/app.48344>

Kiilakoski, Jarkko et al. "Characterization of Powder-Precursor HVOF-Sprayed Al<sub>2</sub>O<sub>3</sub>-YSZ/ZrO<sub>2</sub> Coatings". *Journal of Thermal Spray Technology*. 2019, 28(1-2). 98-107. <https://doi.org/10.1007/s11666-018-0816-x>

Reyes, Guillermo et al. "Solvent Welding and Imprinting Cellulose Nanofiber Films Using Ionic Liquids". *Biomacromolecules*. 2019, 20(1). 502-514. <https://doi.org/10.1021/acs.biomac.8b01554>

Karhu, Marjaana et al. "Mining tailings as raw materials for reaction-sintered aluminosilicate ceramics: Effect of mineralogical composition on microstructure and properties". *Ceramics International*. 2019, 45(4). 4840-4848. <https://doi.org/10.1016/j.ceramint.2018.11.180>

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

Asikainen, Sanja et al. "Hydrolysis and drug release from poly(ethylene glycol)-modified lactone polymers with open porosity". *European Polymer Journal*. 2019, 113. 165-175. <https://doi.org/10.1016/j.eurpolymj.2019.01.056>

Valtonen, Kati et al. "Comparison of various high-stress wear conditions and wear performance of martensitic steels". *Wear*. 2019, 426-427(Part A). 3-13. <https://doi.org/10.1016/j.wear.2018.12.006>

Vuoristo, Petri et al. "Corrosion properties of thermally sprayed bond coatings under plasma sprayed chromia coating in sulfuric acid solutions"., Azarmi, F., Lau, Y., Veilleux, J., Widener, C. Toma, F. Koivuluoto, H. Balani, K. Li, H. Shinoda, K. (editors). *International Thermal Spray Conference and Exposition, ITSC 2019: New Waves of Thermal Spray Technology for Sustainable Growth*. Proceedings of the International Thermal Spray Conference. ASM International. 2019, 923-930.

Hilska, Joonas et al. "Epitaxial phases of high Bi content GaSbBi alloys". *Journal of Crystal Growth*. 2019, 516. 67-71. <https://doi.org/10.1016/j.jcrysgro.2019.03.028>

Chintha, A. R. et al. "Role of fracture toughness in impact-abrasion wear". *Wear*. 2019, 428-429. 430-437. <https://doi.org/10.1016/j.wear.2019.03.028>

Banerjee, Shib Shankar et al. "Water-Responsive and Mechanically Adaptive Natural Rubber Composites by in Situ Modification of Mineral Filler Structures". *Journal of Physical Chemistry B*. 2019, 123(24). 5168-5175. <https://doi.org/10.1021/acs.jpcc.9b02125>

Matikainen, V. et al. "Erosion wear performance of WC-10Co4Cr and Cr<sub>3</sub>C<sub>2</sub>-25NiCr coatings sprayed with high-velocity thermal spray processes". *Surface and Coatings Technology*. 2019, 370. 196-212. <https://doi.org/10.1016/j.surfcoat.2019.04.067>

Ruuskanen, J. et al. "Modelling thermodynamics in a high erature superconducting dipole magnet: An inverse problem based approach". *Superconductor Science and Technology*. 2019. 32(9). <https://doi.org/10.1088/1361-6668/ab2bc9>

Kiilakoski, J. et al. "Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings". *Surface and Coatings Technology*. 2019, 371. 245-254. <https://doi.org/10.1016/j.surfcoat.2018.10.097>

Szczodra, A. et al. "Fluorine losses in Er<sup>3+</sup>oxyfluoride phosphate glasses and glass-ceramics". *Journal of Alloys and Compounds*. 2019, 797. 797-803. <https://doi.org/10.1016/j.jallcom.2019.05.151>

Lehmusto, Juho et al. "Detection of gaseous species during KCl-induced high-temperature corrosion by the means of CPFAAS and CI-API-TOF". *Materials and Corrosion*. 2019. <https://doi.org/10.1002/maco.201910964>

Kanerva, M. et al. "Antibacterial polymer fibres by rosin compounding and melt-spinning". *Materials Today Communications*. 2019. 20. <https://doi.org/10.1016/j.mtcomm.2019.05.003>

Calejo, M. Teresa et al. "Porous polybutylene succinate films enabling adhesion of human embryonic stem cell-derived retinal pigment epithelial cells (hESC-RPE)". *European Polymer Journal*. 2019, 118. 78-87. <https://doi.org/10.1016/j.eurpolymj.2019.05.041>

Dongho-Nguimdo, G. M. et al. "First principles prediction of the solar cell efficiency of chalcopyrite materials AgMX<sub>2</sub> (M=In, Al; X=S, Se, Te)". *Computational Condensed Matter*. 2019. 21. <https://doi.org/10.1016/j.cocom.2019.e00391>

Haiko, Oskari et al. "Effect of tempering on the impact-abrasive and abrasive wear resistance of ultra-high strength steels". *Wear*. 2019. 440-441. <https://doi.org/10.1016/j.wear.2019.203098>

Wani, Owies M., Albertus P. H. J. Schenning, and Arri Priimagi. "A bifacial colour-tunable system via combination of a cholesteric liquid crystal network and hydrogel". *Journal of Materials Chemistry C*. 2020, 8(30). 10191-10196. <https://doi.org/10.1039/d0tc02189j>

Saarimaa, Ville et al. "Assessment of pitting corrosion in bare and passivated (wet scCO<sub>2</sub>-induced patination and chemical passivation) hot-dip galvanized steel samples with SVET, FTIR, and SEM (EDS)". *Materials and Corrosion*. 2020. <https://doi.org/10.1002/maco.202011653>

Lehtonen, Joonas et al. "Cold gas spraying of a high-entropy CrFeNiMn equiatomic alloy". *Coatings*. 2020. 10(1). <https://doi.org/10.3390/coatings10010053>

Koivuluoto, Heli et al. "Cold-Sprayed Al6061 coatings: Online spray monitoring and influence of process parameters on coating properties". *Coatings*. 2020. 10(4). <https://doi.org/10.3390/coatings10040348>

Jönkkäri, Ilari et al. "Compounding and characterization of recycled multilayer plastic films". *Journal of Applied Polymer Science*. 2020. <https://doi.org/10.1002/app.49101>

Poikelispää, Minna et al. "Effect of carbon nanotubes and nanodiamonds on the heat storage ability of natural rubber composites". *Journal of Elastomers and Plastics*. 2020. <https://doi.org/10.1177/0095244320933977>

Donmez, O. et al. "Electronic transport in n-type modulation-doped AlGaAs/GaAsBi quantum well structures: Influence of Bi and thermal annealing on electron effective mass and electron mobility". *Semiconductor Science and Technology*. 2020. 35(2). <https://doi.org/10.1088/1361-6641/ab5d8d>

Shakun, Alexandra, Essi Sarlin, and Jyrki Vuorinen. "Energy dissipation in natural rubber latex films: The effect of stabilizers, leaching and acetone-treatment". *Journal of Applied Polymer Science*. 2020. <https://doi.org/10.1002/app.49609>



Varis, Tommi et al. "Evaluation of Residual Stresses and Their Influence on Cavitation Erosion Resistance of High Kinetic HVOF and HVOF-Sprayed WC-CoCr Coatings". *Journal of Thermal Spray Technology*. 2020. <https://doi.org/10.1007/s11666-020-01037-2>

Varis, Tommi et al. "Influence of powder properties on residual stresses formed in high-pressure liquid fuel HVOF sprayed WC-CoCr coatings". *Surface and Coatings Technology*. 2020. 388. <https://doi.org/10.1016/j.surfcoat.2020.125604>

Haußmann, Lukas et al. "Local Mechanical Properties at the Dendrite Scale of Ni-Based Superalloys Studied by Advanced High Temperature Indentation Creep and Micropillar Compression Tests"., Tin, Sammy, Hardy, Mark, Clews, Justin and Cormier, Jonathan Feng, Qiang Marcin, John O'Brien, Chris Suzuki, Akane (editors). *Superalloys 2020: Proceedings of the 14th International Symposium on Superalloys*. The Minerals, Metals and Materials Series. Springer. 2020, 273-281. [https://doi.org/10.1007/978-3-030-51834-9\\_26](https://doi.org/10.1007/978-3-030-51834-9_26)

Karhu, Marjaana et al. "Mining tailings as a raw material for glass-bonded thermally sprayed ceramic coatings: Microstructure and properties". *Journal of the European Ceramic Society*. 2020, 40(12). 4111-4121. <https://doi.org/10.1016/j.jeurceramsoc.2020.04.038>

Del Cerro, Paloma Roldán et al. "Novel borosilicate bioactive scaffolds with persistent luminescence". *Biomedical Glasses*. 2020, 6(1). 1-9. <https://doi.org/10.1515/bglass-2020-0001>

Poikelispää, Minna et al. "Phase-change material: Natural rubber composites for heat storage applications". *Rubber Chemistry and Technology*. 2020, 93(1). 208-221. <https://doi.org/10.5254/rct.19.81468>

Donmez, O. et al. "Power loss mechanisms in n-type modulation-doped AlGaAs/GaAsBi quantum well heterostructures". *Semiconductor Science and Technology*. 2020. 35(9). <https://doi.org/10.1088/1361-6641/ab94d9>

Khvorost, Taras A. et al. "Ultrafast Photochemistry of the  $[\text{Cr}(\text{NCS})_6]^{3-}$  Complex in Dimethyl Sulfoxide and Dimethylformamide upon Excitation into Ligand-Field Electronic State". *Journal of Physical Chemistry B*. 2020, 124(18). 3724-3733. <https://doi.org/10.1021/acs.jpcc.0c00088>

Hongisto, M. et al. "Transparent  $\text{Yb}^{3+}$  doped phosphate glass-ceramics". *Ceramics International*. 2020. <https://doi.org/10.1016/j.ceramint.2020.01.121>

Young, David C. et al. "Photostable orange-red fluorescent unsymmetrical diketopyrrolopyrrole- $\text{BF}_2$  hybrids". *Journal of Materials Chemistry C*. 2020, 8(23). 7708-7717. <https://doi.org/10.1039/d0tc01202e>

Tainio, J. M. et al. "Structure and in vitro dissolution of Mg and Sr containing borosilicate bioactive glasses for bone tissue engineering". *Journal of Non-Crystalline Solids*. 2020. 533. <https://doi.org/10.1016/j.jnoncrsol.2020.119893>

Matikainen, V., H. Koivuluoto, and P. Vuoristo. "A study of  $\text{Cr}_3\text{C}_2$ -based HVOF- and HVOF-sprayed coatings: Abrasion, dry particle erosion and cavitation erosion resistance". *Wear*. 2020. 446-447. <https://doi.org/10.1016/j.wear.2020.203188>

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

Arvani, Maedeh et al. "Additive manufacturing of monolithic supercapacitors with biopolymer separator". *Journal of Applied Electrochemistry*. 2020, 50(6). 689-697. <https://doi.org/10.1007/s10800-020-01423-2>

Palola, Sarianna et al. "Development in additive methods in aramid fiber surface modification to increase fiber-matrix adhesion: A review". *Coatings*. 2020. 10(6). <https://doi.org/10.3390/COATINGS10060556>

Haiko, Oskari et al. "Effect of prior austenite grain size on the abrasive wear resistance of ultra-high strength martensitic steels". *Wear*. 2020. 454-455. <https://doi.org/10.1016/j.wear.2020.203336>

Haiko, Oskari et al. "Characteristics of carbide-free medium-carbon bainitic steels in high-stress abrasive wear conditions". *Wear*. 2020. 456-457. <https://doi.org/10.1016/j.wear.2020.203386>

Ojha, N. et al. "Effect of heat-treatment on the upconversion of NaYF<sub>4</sub>:Yb<sup>3+</sup>, Er<sup>3+</sup> nanocrystals containing silver phosphate glass". *Journal of Non-Crystalline Solids*. 2020. 544. <https://doi.org/10.1016/j.jnoncrysol.2020.120243>

Juoksukangas, Janne et al. "Avoiding the initial adhesive friction peak in fretting". *Wear*. 2020. 460-461. <https://doi.org/10.1016/j.wear.2020.203353>

Donadei, Valentina et al. "Lubricated icephobic coatings prepared by flame spraying with hybrid feedstock injection". *Surface and Coatings Technology*. 2020. 403. <https://doi.org/10.1016/j.surfcoat.2020.126396>