

Donadei V, Koivuluoto H, Sarlin E, Vuoristo P. **Lubricated icephobic coatings prepared by flame spraying with hybrid feedstock injection.** Surface and Coatings Technology. 2020 Dec 15;403. 126396. <https://doi.org/10.1016/j.surfcoat.2020.126396>

Juoksukangas J, Hintikka J, Lehtovaara A, Mäntylä A, Vaara J, Frondelius T. **Avoiding the initial adhesive friction peak in fretting.** Wear. 2020 Nov 15;460-461. 203353. <https://doi.org/10.1016/j.wear.2020.203353>

Haiko O, Kaikkonen P, Somani M, Valtonen K, Kömi J. **Characteristics of carbide-free medium-carbon bainitic steels in high-stress abrasive wear conditions.** Wear. 2020 Sep 15;456-457. 203386. <https://doi.org/10.1016/j.wear.2020.203386>

Ojha N, Bogdan M, Galatus R, Petit L. **Effect of heat-treatment on the upconversion of NaYF₄:Yb³⁺, Er³⁺ nanocrystals containing silver phosphate glass.** Journal of Non-Crystalline Solids. 2020 Sep 15;544. 120243. <https://doi.org/10.1016/j.jnoncrysol.2020.120243>

Haiko O, Javaheri V, Valtonen K, Kaijalainen A, Hannula J, Kömi J. **Effect of prior austenite grain size on the abrasive wear resistance of ultra-high strength martensitic steels.** Wear. 2020 Aug 15;454-455. 203336. <https://doi.org/10.1016/j.wear.2020.203336>

Arvani M, Keskinen J, Railanmaa A, Siljander S, Björkqvist T, Tuukkanen S et al. **Additive manufacturing of monolithic supercapacitors with biopolymer separator.** Journal of Applied Electrochemistry. 2020 Jun 1;50(6):689-697. <https://doi.org/10.1007/s10800-020-01423-2>

Palola S, Vuorinen J, Noordermeer JWM, Sarlin E. **Development in additive methods in aramid fiber surface modification to increase fiber-matrix adhesion: A review.** Coatings. 2020 Jun 1;10(6). 556. <https://doi.org/10.3390/COATINGS10060556>

Javanainen M, Ollila OHS, Martinez-Seara H. **Rotational Diffusion of Membrane Proteins in Crowded Membranes.** Journal of Physical Chemistry B. 2020 Apr 16;124(15):2994-3001. <https://doi.org/10.1021/acs.jpcc.0c00884>

Matikainen V, Koivuluoto H, Vuoristo P. **A study of Cr₃C₂-based HVOF- and HVOF-sprayed coatings: Abrasion, dry particle erosion and cavitation erosion resistance.** Wear. 2020 Apr 15;446-447. 203188. <https://doi.org/10.1016/j.wear.2020.203188>

Tainio JM, Salazar DAA, Nommeots-Nomm A, Roiland C, Bureau B, Neuville DR 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 Apr 1;533. 119893. <https://doi.org/10.1016/j.jnoncrysol.2020.119893>

Young DC, Tasior M, Laurent AD, Dobrzycki Ł, Cyrański MK, Tkachenko N et al. **Photostable orange-red fluorescent unsymmetrical diketopyrrolopyrrole-BF₂ hybrids.** Journal of Materials Chemistry C. 2020 Apr;8(23):7708-7717. <https://doi.org/10.1039/d0tc01202e>

Hongisto M, Veber A, Boetti NG, Danto S, Jubera V, Petit L. **Transparent Yb³⁺ doped phosphate glass-ceramics.** Ceramics International. 2020 Jan 1. <https://doi.org/10.1016/j.ceramint.2020.01.121>

Wani OM, Schenning APHJ, Priimagi A. **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 V, Fuertes N, Persson D, Zavalis T, Kaleva A, Nikkanen J-P et al. **Assessment of pitting corrosion in bare and passivated (wet scCO₂-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 J, Koivuluoto H, Ge Y, Juselius A, Hannula SP. **Cold gas spraying of a high-entropy CrFeNiMn equiatomic alloy.** Coatings. 2020;10(1). 53. <https://doi.org/10.3390/coatings10010053>

Koivuluoto H, Larjo J, Marini D, Pulci G, Marra F. **Cold-Sprayed Al6061 coatings: Online spray monitoring and influence of process parameters on coating properties.** *Coatings*. 2020;10(4). 348. <https://doi.org/10.3390/coatings10040348>

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

Poikelispää M, Honkanen M, Vippola M, Sarlin E. **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, Aydin M, Ardali, Yildirim S, Tıraş E, Nutku F 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). 025009. <https://doi.org/10.1088/1361-6641/ab5d8d>

Shakun A, Sarlin E, Vuorinen J. **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 T, Suhonen T, Laakso J, Jokipii M, Vuoristo P. **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 T, Suhonen T, Jokipii M, Vuoristo P. **Influence of powder properties on residual stresses formed in high-pressure liquid fuel HVOF sprayed WC-CoCr coatings.** *Surface and Coatings Technology*. 2020;388. 125604. <https://doi.org/10.1016/j.surfcoat.2020.125604>

Haußmann L, Neumeier S, Kolb M, Ast J, Mohanty G, Michler J et al. **Local Mechanical Properties at the Dendrite Scale of Ni-Based Superalloys Studied by Advanced High Temperature Indentation Creep and Micropillar Compression Tests.** In Tin S, Hardy M, Clews J, Cormier J, Feng Q, Marcin J, O'Brien C, Suzuki A, editors, *Superalloys 2020: Proceedings of the 14th International Symposium on Superalloys*. Springer. 2020. p. 273-281. (The Minerals, Metals and Materials Series). https://doi.org/10.1007/978-3-030-51834-9_26

Karhu M, Lagerbom J, Honkanen M, Huttunen-Saarivirta E, Kiilakoski J, Vuoristo P 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 PR, Teittinen H, Norrbo I, Lastusaari M, Massera J, Petit L. **Novel borosilicate bioactive scaffolds with persistent luminescence.** *Biomedical Glasses*. 2020;6(1):1-9. <https://doi.org/10.1515/bglass-2020-0001>

Poikelispää M, Ruokangas S, Honkanen M, Vippola M, Sarlin E. **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, Aydin M, Ardali, Yildirim S, Tıraş E, Erol A et al. **Power loss mechanisms in n-type modulation-doped AlGaAs/GaAsBi quantum well heterostructures.** *Semiconductor Science and Technology*. 2020;35(9). 095038. <https://doi.org/10.1088/1361-6641/ab94d9>

Khvorost TA, Beliaev LY, Potalueva E, Laptenkova AV, Selyutin AA, Bogachev NA et al. **Ultrafast Photochemistry of the [Cr(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>

Haiko O, Valtonen K, Kajjalainen A, Uusikallio S, Hannula J, Liimatainen T et al. **Effect of tempering on the impact-abrasive and abrasive wear resistance of ultra-high strength steels.** *Wear*. 2019 Dec 15;440-441. <https://doi.org/10.1016/j.wear.2019.203098>

Dongho-Nguimdo GM, Igumbor E, Zambou S, Joubert DP. **First principles prediction of the solar cell efficiency of chalcopyrite materials AgMX_2 (M=In, Al; X=S, Se, Te)**. Computational Condensed Matter. 2019 Dec 1;21. e00391. <https://doi.org/10.1016/j.cocom.2019.e00391>

Calejo MT, Haapala A, Skottman H, Kellomäki M. **Porous polybutylene succinate films enabling adhesion of human embryonic stem cell-derived retinal pigment epithelial cells (hESC-RPE)**. European Polymer Journal. 2019 Sep 1;118:78-87. <https://doi.org/10.1016/j.eurpolymj.2019.05.041>

Kanerva M, Puolakka A, Takala TM, Elert AM, Mylläri V, Jönkkäri I et al. **Antibacterial polymer fibres by rosin compounding and melt-spinning**. Materials Today Communications. 2019 Sep;20. 100527. <https://doi.org/10.1016/j.mtcomm.2019.05.003>

Lehmusto J, Olin M, Viljanen J, Kalliokoski J, Mylläri F, Toivonen J 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 Aug 30. <https://doi.org/10.1002/maco.201910964>

Kiilakoski J, Langlade C, Koivuluoto H, Vuoristo P. **Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings**. Surface and Coatings Technology. 2019 Aug 15;371:245-254. <https://doi.org/10.1016/j.surfcoat.2018.10.097>

Szczodra A, Mardoukhi A, Hokka M, Boetti NG, Petit L. **Fluorine losses in Er^{3+} oxyfluoride phosphate glasses and glass-ceramics**. Journal of Alloys and Compounds. 2019 Aug 15;797:797-803. <https://doi.org/10.1016/j.jallcom.2019.05.151>

Ruuskanen J, Stenvall A, Lahtinen V, Nugteren JV, Kirby G, Murtomäki J. **Modelling thermodynamics in a high erature superconducting dipole magnet: An inverse problem based approach**. Superconductor Science and Technology. 2019 Aug 2;32(9). 094007. <https://doi.org/10.1088/1361-6668/ab2bc9>

Matikainen V, Rubio Peregrina S, Ojala N, Koivuluoto H, Schubert J, Houdková et al. **Erosion wear performance of WC-10Co4Cr and Cr_3C_2 -25NiCr coatings sprayed with high-velocity thermal spray processes**. Surface and Coatings Technology. 2019 Jul 25;370:196-212. <https://doi.org/10.1016/j.surfcoat.2019.04.067>

Banerjee SS, Hait S, Natarajan TS, Wießner S, Stöckelhuber KW, Jehnichen D et al. **Water-Responsive and Mechanically Adaptive Natural Rubber Composites by in Situ Modification of Mineral Filler Structures**. Journal of Physical Chemistry B. 2019 Jun 20;123(24):5168-5175. <https://doi.org/10.1021/acs.jpcc.9b02125>

Hilksa J, Koivusalo E, Puustinen J, Suomalainen S, Guina M. **Epitaxial phases of high Bi content GaSbBi alloys**. Journal of Crystal Growth. 2019 Jun 15;516:67-71. <https://doi.org/10.1016/j.jcrysgro.2019.03.028>

Chintha AR, Valtonen K, Kuokkala VT, Kundu S, Peet MJ, Bhadeshia HKDH. **Role of fracture toughness in impact-abrasion wear**. Wear. 2019 Jun 15;428-429:430-437. <https://doi.org/10.1016/j.wear.2019.03.028>

Vuoristo P, Varis T, Meschini D, Bolelli G, Lusvarghi L. **Corrosion properties of thermally sprayed bond coatings under plasma sprayed chromia coating in sulfuric acid solutions**. In 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. ASM International. 2019. p. 923-930. (Proceedings of the International Thermal Spray Conference).

Valtonen K, Ojala N, Haiko O, Kuokkala V-T. **Comparison of various high-stress wear conditions and wear performance of martensitic steels**. Wear. 2019 Apr 30;426-427(Part A):3-13. <https://doi.org/10.1016/j.wear.2018.12.006>

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

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

Karhu M, Lagerbom J, Solismaa S, Honkanen M, Ismailov A, Räsänen ML et al. **Mining tailings as raw materials for reaction-sintered aluminosilicate ceramics: Effect of mineralogical composition on microstructure and properties.** Ceramics International. 2019 Mar;45(4):4840-4848. <https://doi.org/10.1016/j.ceramint.2018.11.180>

Reyes G, Borghei M, King AWT, Lahti J, Rojas OJ. **Solvent Welding and Imprinting Cellulose Nanofiber Films Using Ionic Liquids.** Biomacromolecules. 2019 Jan 14;20(1):502-514. <https://doi.org/10.1021/acs.biomac.8b01554>

Kiilakoski J, Puranen J, Heinonen E, Koivuluoto H, Vuoristo P. **Characterization of Powder-Precursor HVOF-Sprayed Al₂O₃-YSZ/ZrO₂ Coatings.** Journal of Thermal Spray Technology. 2019 Jan;28(1-2):98-107. <https://doi.org/10.1007/s11666-018-0816-x>

Lopez-Iscoa P, Ojha N, Pugliese D, Mishra A, Gumenyuk R, Boetti NG 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 A, Nechay K, Caliman A, Suruceanu G, Rudra A, Gallo P 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 M, Zapadinsky E, Zanca T, Kangasluoma J, Mylly N, Rissanen MP 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 M, Kim J, Jung YK, Ruoko T-P, Priimagi A, Walsh A et al. **Low-dimensional formamidinium lead perovskite architectures via controllable solvent intercalation.** Journal of Materials Chemistry C. 2019;7(13):3945-3951. <https://doi.org/10.1039/c9tc00379g>

Barberi J, Nommeots-Nomm A, Fiume E, Verné E, Massera J, Bairo F. **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 J, Trache R, Björklund S, Joshi S, Vuoristo P. **Process Parameter Impact on Suspension-HVOF-Sprayed Cr₂O₃ Coatings.** Journal of Thermal Spray Technology. 2019. <https://doi.org/10.1007/s11666-019-00940-7>

Fliervoet LAL, Lisitsyna ES, Durandin NA, Kotsis I, Maas-Bakker RFM, Yliperttula M 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 SS, Natarajan TS, Subramani B. E, Wießner S, Janke A, Heinrich G et al. **Temperature scanning stress relaxation behavior of water responsive and mechanically adaptive elastomer nanocomposites.** Journal of Applied Polymer Science. 2019. 48344. <https://doi.org/10.1002/app.48344>

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

Gunes M, Ukelge MO, Donmez O, Erol A, Gumus C, Alghamdi H et al. **Optical properties of GaAs_{1-x}Bi_x/GaAs quantum well structures grown by molecular beam epitaxy on (100) and (311)B GaAs substrates.** Semiconductor Science and Technology. 2018 Nov 13;33(12). 124015. <https://doi.org/10.1088/1361-6641/aaea2e>

Šutka A, Käämbre T, Joost U, Kooser K, Kook M, Duarte RF et al. **Solvothermal synthesis derived Co-Ga codoped ZnO diluted magnetic degenerated semiconductor nanocrystals**. Journal of Alloys and Compounds. 2018 Sep 30;763:164-172. <https://doi.org/10.1016/j.jallcom.2018.05.036>

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

Bomberg M, Miettinen H, Wahlström M, Kaartinen T, Ahoranta S, Lakaniemi A-M et al. **Post operation inactivation of acidophilic bioleaching microorganisms using natural chloride-rich mine water**. Hydrometallurgy. 2018 Sep 1;180:236-245. <https://doi.org/10.1016/j.hydromet.2018.06.013>

Kaksonen AH, Boxall NJ, Gumulya Y, Khaleque HN, Morris C, Bohu T et al. **Recent progress in biohydrometallurgy and microbial characterisation**. Hydrometallurgy. 2018 Sep 1;180:7-25. <https://doi.org/10.1016/j.hydromet.2018.06.018>

Cemlyn B, Adams M, Harbord E, Li N, Henning ID, Oulton R et al. **Near-threshold high spin amplification in a 1300 nm GaInNAs spin laser**. Semiconductor Science and Technology. 2018 Aug 1;33(9). 094005. <https://doi.org/10.1088/1361-6641/aad42e>

Prando GA, Orsi Gordo V, Puustinen J, Hilska J, Alghamdi HM, Som G et al. **Exciton localization and structural disorder of GaAs_{1-x}Bi_x/GaAs quantum wells grown by molecular beam epitaxy on (311)B GaAs substrates**. Semiconductor Science and Technology. 2018 Jul 17;33(8). 084002. <https://doi.org/10.1088/1361-6641/aad02e>

Nommeots-Nomm A, Boetti NG, Salminen T, Massera J, Hokka M, Petit L. **Luminescence of Er³⁺ doped oxyfluoride phosphate glasses and glass-ceramics**. Journal of Alloys and Compounds. 2018 Jun 30;751:224-230. <https://doi.org/10.1016/j.jallcom.2018.04.101>

Kaunisto K, Kotilainen M, Karhu M, Lagerbom J, Vuorinen T, Honkanen M et al. **The effect of carbon and nickel additions on the precursor synthesis of Cr₃C₂-Ni nanopowder**. Ceramics International. 2018 Jun 1;44(8):9338-9346. <https://doi.org/10.1016/j.ceramint.2018.02.146>

Ojha N, Laihin T, Salminen T, Lastusaari M, Petit L. **Influence of the phosphate glass melt on the corrosion of functional particles occurring during the preparation of glass-ceramics**. Ceramics International. 2018 Jun;44(10):11807-11811. <https://doi.org/10.1016/j.ceramint.2018.03.267>

Goyos-Ball L, Prado C, Díaz R, Fernández E, Ismailov A, Kumpulainen T et al. **The effects of laser patterning 10CeTZP-Al₂O₃ nanocomposite disc surfaces: Osseous differentiation and cellular arrangement in vitro**. Ceramics International. 2018 Jun;44(8):9472-9478. <https://doi.org/10.1016/j.ceramint.2018.02.164>

Sarcan F, Mutlu S, Cokduygulular E, Donmez O, Erol A, Puustinen J 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 May 4;33(6). 064003. <https://doi.org/10.1088/1361-6641/aabc39>

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

Nugteren JV, Kirby G, Bajas H, Bajko M, Ballarino A, Bottura L et al. **Powering of an HTS dipole insert-magnet operated standalone in helium gas between 5 and 85 K**. Superconductor Science and Technology. 2018 Apr 25;31(6). 065002. <https://doi.org/10.1088/1361-6668/aab887>

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

Matikainen V, Koivuluoto H, Vuoristo P, Schubert J, Houdková. **Effect of nozzle geometry on the microstructure and properties of hvaf-sprayed wc-10co4cr and cr3c2-25nicr coatings.** Journal of Thermal Spray Technology. 2018 Apr 1;27(4):680-694. <https://doi.org/10.1007/s11666-018-0717-z>

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

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

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

Bhagavatheswaran ES, Vaikuntam SR, Stöckelhuber KW, Wießner S, Heinrich G, Das A. **High-performance elastomeric strain sensors based on nanostructured carbon fillers for potential tire applications.** Materials Today Communications. 2018 Mar 1;14:240-248. <https://doi.org/10.1016/j.mtcomm.2018.01.013>

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

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

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

Yury K, Filippov M, Makarov A, Malygina I, Soboleva N, Fantozzi D et al. **Arc-sprayed Fe-based coatings from coredwires for wear and corrosion protection in power engineering.** Coatings. 2018 Feb 1;8(2). 71. <https://doi.org/10.3390/coatings8020071>

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

Suokas E, Kuusipalo J. **Process time importance in the product properties evolution during extrusion coating of different LDPE grades.** In 15th TAPPI Advanced Coating Fundamentals Symposium 2018: Charlotte; United States; 14 April 2018 through 15 April 2018. TAPPI Press. 2018. p. 151-159

Glorieux B, Salminen T, Massera J, Lastusaari M, Petit L. **Better understanding of the role of SiO₂, P₂O₅ and Al₂O₃ on the spectroscopic properties of Yb³⁺ 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 V, Kaleva A, Paunikallio T, Nikkanen J-P, Heinonen S, Levänen E et al. **Convenient extraction method for quantification of thin zinc patina layers.** Surface and Interface Analysis. 2018;50(5):564-570. <https://doi.org/10.1002/sia.6429>

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

Kiilakoski J, Musalek R, Lukac F, Koivuluoto H, Vuoristo P. **Evaluating the toughness of APS and HVOF-sprayed Al₂O₃-ZrO₂-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 A, Poikelispää M, Das A, Vuorinen J. **Improved electromechanical response in acrylic rubber by different carbon-based fillers.** Polymer Engineering and Science. 2018;58(3):395-404. <https://doi.org/10.1002/pen.24586>

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

Koivuluoto H, Matikainen V, Larjo J, Vuoristo P. **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, Nommeots-Nomm A, Hokka M, Laurila J, Norrbo I, Lastusaari 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 MLK, Kokko ME, Lakaniemi A-M, Puhakka JA. **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 A, Ihalainen P, Ivanov A, Domnin I, Rosqvist E, Lemmetyinen H 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 J, Bazuin CG, Priimagi A. **Supramolecular design principles for efficient photoresponsive polymer-azobenzene complexes.** Journal of Materials Chemistry C. 2018;6(9):2168-2188. <https://doi.org/10.1039/c7tc05005d>

Bolelli G, Bursi M, Lusvarghi L, Manfredini T, Matikainen V, Rigon R 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>

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

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

Christophliemk H, Johansson C, Ullsten H, Järnström L. **Oxygen and water vapor transmission rates of starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper.** Progress in Organic Coatings. 2017 Dec 1;113:218-224. <https://doi.org/10.1016/j.porgcoat.2017.04.019>

Santangelo PE, Allesina G, Bolelli G, Lusvarghi L, Matikainen V, Vuoristo P. **Infrared Thermography as a Non-destructive Testing Solution for Thermal Spray Metal Coatings.** Journal of Thermal Spray Technology. 2017 Dec;26(8):1982-1993. <https://doi.org/10.1007/s11666-017-0642-6>

Sarlin E, Saarimäki M, Sironen R, Lindgren M, Siljander S, Kanerva M et al. **Erosive wear of filled vinyl ester composites in water and acidic media at elevated temperature.** Wear. 2017 Nov 15;390-391:84-92. <https://doi.org/10.1016/j.wear.2017.07.011>

Välimäki H, Verho J, Kreutzer J, Kattiparambil Rajan D, Ryyänen T, Pekkanen-Mattila M et al. **Fluorimetric oxygen sensor with an efficient optical read-out for in vitro cell models.** Sensors and Actuators B: Chemical. 2017 Oct 1;249:738-746. <https://doi.org/10.1016/j.snb.2017.04.182>

Christophliemk H, Ullsten H, Johansson C, Järnström L. **Starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper and their effects of phase interactions.** Progress in Organic Coatings. 2017 Oct 1;111:13-22. <https://doi.org/10.1016/j.porgcoat.2017.04.018>

Heinonen S, Nikkanen J-P, Huttunen-Saarivirta E, Levänen E. **Investigation of long-term chemical stability of structured ZnO films in aqueous solutions of varying conditions.** Thin Solid Films. 2017 Sep 30;638:410-419. <https://doi.org/10.1016/j.tsf.2017.07.055>

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

Tkalich D, Li CC, Kane A, Saai A, Tkalich D, Yastrebov VA et al. **Wear of cemented tungsten carbide percussive drill-bit inserts: Laboratory and field study.** Wear. 2017 Sep 15;386-387:106-117. <https://doi.org/10.1016/j.wear.2017.05.010>

Matikainen V, Bolelli G, Koivuluoto H, Honkanen M, Vippola M, Lusvarghi L et al. **A Study of Cr₃C₂-Based HVOF- and HVOF-Sprayed Coatings: Microstructure and Carbide Retention.** Journal of Thermal Spray Technology. 2017 Aug;26(6):1-18. <https://doi.org/10.1007/s11666-017-0578-x>

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

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

Mentink M, Salmi T. **Quench absorption coils: A quench protection concept for high-field superconducting accelerator magnets.** Superconductor Science and Technology. 2017 May 3;30(6). 064002. <https://doi.org/10.1088/1361-6668/aa6678>

Saccone M, Siiskonen A, Fernandez-Palacio F, Priimägi A, Terraneo G, Resnati G 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 Apr 1;73(2):227-233. <https://doi.org/10.1107/S2052520617003444>

Lopez-Iscoa P, Petit L, Massera J, Janner D, Boetti NG, Pugliese D et al. **Effect of the addition of Al₂O₃, TiO₂ and ZnO on the thermal, structural and luminescence properties of Er³⁺-doped phosphate glasses.** Journal of Non-Crystalline Solids. 2017 Mar 15;460:161-168. <https://doi.org/10.1016/j.jnoncrysol.2017.01.030>

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

Ruuskanen J, Stenvall A, Lahtinen V, Pardo E. **Electromagnetic nonlinearities in a Roebel-cable-based accelerator magnet prototype: Variational approach.** Superconductor Science and Technology. 2017 Feb 1;30(2). 024008. <https://doi.org/10.1088/1361-6668/30/2/024008>

Isotahdon E, Huttunen-Saarivirta E, Kuokkala V. **Characterization of the microstructure and corrosion performance of Ce-alloyed Nd-Fe-B magnets.** Journal of Alloys and Compounds. 2017 Jan;692:190-197. <https://doi.org/10.1016/j.jallcom.2016.09.058>

Sarjas H, Surzhenkov A, Juhani K, Antonov M, Adoberg E, Kulu P et al. **Abrasive-Erosive Wear of Thermally Sprayed Coatings from Experimental and Commercial Cr₃C₂-Based Powders**. Journal of Thermal Spray Technology. 2017;26(8):2020–2029. <https://doi.org/10.1007/s11666-017-0638-2>

Hyysalo A, Ristola M, Joki T, Honkanen M, Vippola M, Narkilahti S. **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). 1600517. <https://doi.org/10.1002/mabi.201600517>

Janka L, Norpoth J, Trache R, Thiele S, Berger LM. **HVOF- and HVAF-Sprayed Cr₃C₂-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 VT, Lehtovaara AJ, Kallio MH. **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 T, Hänninen A, Antniemi A, Lekkala J, Kellomäki M. **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, Bolelli G, Koivuluoto H, Sassatelli P, Lusvarghi L, Vuoristo P. **Sliding wear behaviour of HVOF and HVAF sprayed Cr₃C₂-based coatings**. Wear. 2017;388-389:57-71. <https://doi.org/10.1016/j.wear.2017.04.001>

Morandi A, Ainslie MD, Grilli F, Stenvall A. **The 5th international workshop on numerical modelling of high temperature superconductors**. Superconductor Science and Technology. 2017;30(8). 080201. <https://doi.org/10.1088/1361-6668/aa7676>

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

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

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

Lindgren M, Siljander S, Suihkonen R, Pohjanne P, Vuorinen J. **Erosion–corrosion resistance of various stainless steel grades in high-temperature sulfuric acid solution**. Wear. 2016 Oct 15;364-365:10-21. <https://doi.org/10.1016/j.wear.2016.06.007>

Heinonen S, Kannisto M, Nikkanen J-P, Huttunen-Saarivirta E, Karp M, Levänen E. **Photocatalytic and antibacterial properties of ZnO films with different surface topographies on stainless steel substrate**. Thin Solid Films. 2016 Oct 1;616:842-849. <https://doi.org/10.1016/j.tsf.2016.10.002>

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

Lindgren M, Santa-aho S, Vippola M. **Barkhausen noise response of three different welded duplex stainless steels**. Insight . 2016 Sep 1;58(9):480-486. <https://doi.org/10.1784/insi.2016.58.9.480>

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

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

Cui S, Massera J, Lastusaari M, Hupa L, Petit L. **Novel oxyfluorophosphate glasses and glass-ceramics.** Journal of Non-Crystalline Solids. 2016 Aug 1;445-446:40-44. <https://doi.org/10.1016/j.jnoncrysol.2016.05.005>

Alekseev A, Ihalainen P, Ivanov A, Domnin I, Klechkovskaya V, Orekhov A et al. **The red, purple and blue modifications of polymeric unsymmetrical hydroxyalkadiynyl-N-arylcarbamate derivatives in Langmuir-Schaefer films.** Thin Solid Films. 2016 Aug 1;612:463-471. <https://doi.org/10.1016/j.tsf.2016.06.044>

Suihkonen R, Lindgren M, Siljander S, Sarlin E, Vuorinen J. **Erosion wear of vinyl ester matrix composites in aqueous and acidic environments at elevated temperatures.** Wear. 2016 Jul 15;358-359:7-16. <https://doi.org/10.1016/j.wear.2016.03.026>

Bolelli G, Berger LM, Börner T, Koivuluoto H, Matikainen V, Lusvarghi L et al. **Sliding and abrasive wear behaviour of HVOF- and HVAF-sprayed Cr₃C₂-NiCr hardmetal coatings.** Wear. 2016 Jul 15;358-359:32-50. <https://doi.org/10.1016/j.wear.2016.03.034>

Kiilakoski J, Lindroos M, Apostol M, Koivuluoto H, Kuokkala V-T, Vuoristo P. **Characterization of High-Velocity Single Particle Impacts on Plasma-Sprayed Ceramic Coatings.** Journal of Thermal Spray Technology. 2016 Jun 24;25:1127-1137. <https://doi.org/10.1007/s11666-016-0428-2>

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

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

Milanti A, Matikainen V, Bolelli G, Koivuluoto H, Lusvarghi L, Vuoristo P. **Microstructure and Sliding Wear Behavior of Fe-Based Coatings Manufactured with HVOF and HVAF Thermal Spray Processes.** Journal of Thermal Spray Technology. 2016 Jun;25(5):1040-1055. <https://doi.org/10.1007/s11666-016-0410-z>

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

Soltani I, Hraiech S, Horchani-Naifer K, Massera J, Petit L, Férid M. **Thermal, structural and optical properties of Er³⁺ doped phosphate glasses containing silver nanoparticles.** Journal of Non-Crystalline Solids. 2016 Apr 15;438:67-73. <https://doi.org/10.1016/j.jnoncrysol.2015.12.022>

Kanerva U, Karhu M, Lagerbom J, Kronlöf A, Honkanen M, Turunen E 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 Apr 1;56:69-75. <https://doi.org/10.1016/j.ijrmhm.2015.11.014>

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

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

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

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

Jarnstrom L, Johansson K, Kuusipalo J, Jonsson L. **Active packaging by paper coating.** In 14th TAPPI Advanced Coating Symposium 2016. TAPPI Press. 2016. p. 88-92

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

Hupa L, Fagerlund S, Massera J, Björkvik L. **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.jnoncrsol.2015.03.026>

Lahti J, Lavonen J, Lahtinen K, Johansson P, Seppänen T, Cameron DC. **Improved properties for packaging materials by nanoscale surface modification and ALD barrier coating.** In TAPPI International Conference on Nanotechnology for Renewable Materials 2016. Vol. 2. TAPPI Press. 2016. p. 684-706

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

Auer S, Koho T, Uusi-Kerttula H, Vesikari T, Blazevic V, Hytönen VP. **Rapid and sensitive detection of norovirus antibodies in human serum with a bilayer interferometry biosensor.** Sensors and Actuators B: Chemical. 2015 Dec 31;221:507-514. <https://doi.org/10.1016/j.snb.2015.06.088>

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

Massera J, Gaussiran M, Gluchowski P, Lastusaari M, Hupa L, Petit L. **Processing and characterization of phosphate glasses containing CaAl₂O₄:Eu²⁺,Nd³⁺ and SrAl₂O₄:Eu²⁺,Dy³⁺ microparticles.** Journal of the European Ceramic Society. 2015 Nov 1;35(14):3863-3871. <https://doi.org/10.1016/j.jeurceramsoc.2015.06.031>

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

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

Oksanen V, Valtonen K, Andersson P, Vaajoki A, Laukkanen A, Holmberg K et al. **Comparison of laboratory rolling-sliding wear tests with in-service wear of nodular cast iron rollers against wire ropes.** Wear. 2015 Oct 15;340-341:73-81. <https://doi.org/10.1016/j.wear.2015.07.006>

Mylläri V, Ruoko T-P, Vuorinen J, Lemmetyinen H. **Characterization of thermally aged polyetheretherketone fibres: Mechanical, thermal, rheological and chemical property changes.** Polymer Degradation and Stability. 2015 Oct 1;120:419-426. <https://doi.org/10.1016/j.polymdegradstab.2015.08.003>

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

Orlowski A, Kukkurainen S, Pöyry A, Rissanen S, Vattulainen I, Hytönen VP et al. **PIP2 and Talin Join Forces to Activate Integrin.** Journal of Physical Chemistry Part B. 2015 Sep 24;119(38):12381-12389. <https://doi.org/10.1021/acs.jpcc.5b06457>

Milanti A, Matikainen V, Koivuluoto H, Bolelli G, Lusvarghi L, Vuoristo P. **Effect of spraying parameters on the microstructural and corrosion properties of HVAF-sprayed Fe-Cr-Ni-B-C coatings.** Surface and Coatings Technology. 2015 Sep 15;277:81-90. <https://doi.org/10.1016/j.surfcoat.2015.07.018>

Ter Schiphorst J, Coleman S, Stumpel JE, Ben Azouz A, Diamond D, Schenning APHJ. **Molecular Design of Light-Responsive Hydrogels, for in Situ Generation of Fast and Reversible Valves for Microfluidic Applications.** Chemistry of Materials. 2015 Sep 8;27(17):5925-5931. <https://doi.org/10.1021/acs.chemmater.5b01860>

Tukiainen A, Likonen J, Toikkanen L, Leinonen T. **Unintentional boron contamination of MBE-grown GaInP/AlGaInP quantum wells.** Journal of Crystal Growth. 2015 Sep 1;425:60-63. <https://doi.org/10.1016/j.jcrysgro.2015.02.048>

Kwolek U, Kulig W, Wydro P, Nowakowska M, Róg T, Kepczynski M. **Effect of Phosphatidic Acid on Biomembrane: Experimental and Molecular Dynamics Simulations Study.** Journal of Physical Chemistry Part B. 2015 Aug 6;119(31):10042-10051. <https://doi.org/10.1021/acs.jpcc.5b03604>

Kanerva U, Suhonen T, Lagerbom J, Levänen E. **Evaluation of crushing strength of spray-dried MgAl₂O₄ granule beds.** Ceramics International. 2015 Aug 1;41(7):8494-8500. <https://doi.org/10.1016/j.ceramint.2015.03.056>

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

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

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

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

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

Salpavaara T, Järveläinen M, Seppälä S, Yli-Hallila T, Verho J, Vilkkio M et al. **Passive resonance sensor based method for monitoring particle suspensions.** *Sensors and Actuators B: Chemical.* 2015 Jun 8;219:324-330. <https://doi.org/10.1016/j.snb.2015.04.121>

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

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

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

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

Lindgren M, Suihkonen R, Vuorinen J. **Erosive wear of various stainless steel grades used as impeller blade materials in high temperature aqueous slurry.** *Wear.* 2015 Apr 5;328-329:391-400. <https://doi.org/10.1016/j.wear.2015.03.014>

Lindroos M, Ratia V, Apostol M, Valtonen K, Laukkanen A, Molnar W et al. **The effect of impact conditions on the wear and deformation behavior of wear resistant steels.** *Wear.* 2015 Apr 5;328-329:197-205. <https://doi.org/10.1016/j.wear.2015.02.032>

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

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

Isotahdon E, Huttunen-Saarivirta E, Heinonen S, Kuokkala VT, Paju M. **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 Mar 25;626:349-359. <https://doi.org/10.1016/j.jallcom.2014.12.048>

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

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

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

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

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

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

Kalimeri M, Derreumaux P, Sterpone F. **Are coarse-grained models apt to detect protein thermal stability? the case of OPEP force field.** Journal of Non-Crystalline Solids. 2015 Jan 1;407:494-501. <https://doi.org/10.1016/j.jnoncrysol.2014.07.005>

Heiskanen JP, Manninen VM, Pankov D, Omar WAE, Kastinen T, Hukka TI et al. **Aryl end-capped quaterthiophenes applied as anode interfacial layers in inverted organic solar cells.** Thin Solid Films. 2015 Jan 1;574:196-206. <https://doi.org/10.1016/j.tsf.2014.12.007>

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

Niittymäki M, Lahti K, Suhonen T, Metsäjoki J. **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, Koivuluoto H, Vuoristo P. **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 A, Järveläinen M, Bauer M, Keskinen L, Valkonen M, Akhtar F et al. **Mechanical performance and CO₂ 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>

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

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

Basu D, Das A, Jacobgeorge J, Wang DY, Stöckelhuber K, Wagenknecht U et al. **Unmodified LDH as reinforcing filler for XNBR and the development of flame-retardant elastomer composites.** Rubber Chemistry and Technology. 2014 Dec 1;87(4):606-616. <https://doi.org/10.5254/rct.14.86920>

Song X, Suhonen T, Varis T, Huang L, Zheng X, Zeng Y. **Fabrication and Characterization of Amorphous Alumina-Yttria-Stabilized Zirconia Coatings by Air Plasma Spraying.** Journal of Thermal Spray Technology. 2014 Nov 25;23(8):1302-1311. <https://doi.org/10.1007/s11666-014-0124-z>

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

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

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

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

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

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

Ojala N, Valtonen K, Heino V, Kallio M, Aaltonen J, Siitonen P et al. **Effects of composition and microstructure on the abrasive wear performance of quenched wear resistant steels.** Wear. 2014 Sep 15;317(1-2):225-232. <https://doi.org/10.1016/j.wear.2014.06.003>

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

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

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

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

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

Ghabchi A, Sampath S, Holmberg K, Varis T. **Damage mechanisms and cracking behavior of thermal sprayed WC-CoCr coating under scratch testing.** Wear. 2014 May 15;313(1-2):97-105. <https://doi.org/10.1016/j.wear.2014.02.017>

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

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

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

Eshwaran SB, Basu D, Kutlu B, Leuteritz A, Wagenknecht U, Stöckelhuber KW et al. **Stearate Modified Zinc-Aluminum Layered Double Hydroxides and Acrylonitrile Butadiene Rubber Nanocomposites.** Polymer-Plastics Technology and Engineering. 2014 Jan;53(1):65-73. <https://doi.org/10.1080/03602559.2013.843690>

Stepien M, Chinga-Carrasco G, Saarinen JJ, Teisala H, Tuominen M, Haapanen J et al. **Abrasion and compression resistance of liquid-flame-spray-deposited functional nanoparticle coatings on paper.** In 13th TAPPI Advanced Coating Fundamentals Symposium 2014. TAPPI Press. 2014. p. 68-82

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

Varis T, Suhonen T, Ghabchi A, Valarezo A, Sampath S, Liu X 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 V, Ruoko TP, Järvelä P. **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>

Cummins C, Borah D, Rasappa S, Chaudhari A, Ghoshal T, O'Driscoll BMD et al. **Self-assembly of polystyrene-block-poly(4-vinylpyridine) block copolymer on molecularly functionalized silicon substrates: Fabrication of inorganic nanostructured etchmask for lithographic use.** Journal of Materials Chemistry C. 2013 Dec 21;1(47):7941-7951. <https://doi.org/10.1039/c3tc31498g>

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

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

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

Hladilkova J, Prokop Z, Chaloupkova R, Damborsky J, Jungwirth P. **Release of halide ions from the buried active site of the haloalkane dehalogenase LinB revealed by stopped-flow fluorescence analysis and free energy calculations.** Journal of Physical Chemistry Part B. 2013 Nov 21;117(46):14329-14335. <https://doi.org/10.1021/jp409040u>

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

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

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

Thomann O, Pihlatie M, Rautanen M, Himanen O, Lagerbom J, Mäkinen M et al. **Development and application of HVOF sprayed spinel protective coating for SOFC interconnects.** Journal of Thermal Spray Technology. 2013 Jun;22(5):631-639. <https://doi.org/10.1007/s11666-012-9880-9>

Oksa M, Tuurna S, Varis T. **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 Jun;22(5):783-796. <https://doi.org/10.1007/s11666-013-9928-5>

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

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

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

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

Pitkänen H, Alatalo M, Puisto A, Ropo M, Kokko K, Vitos L. **Ab initio study of the surface properties of austenitic stainless steel alloys.** Surface Science. 2013 Mar;609:190-194. <https://doi.org/10.1016/j.susc.2012.12.007>

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

Debnath SC, Das A, Basu D, Heinrich G. **Naturally occurring amino acids: A suitable substitute of N-N'-di-phenyl guanidine (DPG) in silica tyre formulation?** KGK: KAUTSCHUK GUMMI KUNSTSTOFFE. 2013 Jan;66(1-2):25-31.

Subramaniam K, Das A, Stöckelhuber KW, Heinrich G. **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>

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

Rasappa S, Borah D, Senthamaraiannan R, Faulkner CC, Shaw MT, Gleeson P et al. **Block copolymer lithography: Feature size control and extension by an over-etch technique.** Thin Solid Films. 2012 Nov 1;522:318-323. <https://doi.org/10.1016/j.tsf.2012.09.017>

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

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

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

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

Vikholm-Lundin I, Auer S, Paakkunainen M, Määttä JAE, Munter T, Leppiniemi J et al. **Cysteine-tagged chimeric avidin forms high binding capacity layers directly on gold.** *Sensors and Actuators B: Chemical*. 2012 Aug;171-172:440-448. <https://doi.org/10.1016/j.snb.2012.05.008>

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

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

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

Subramaniam K, Das A, Häußler L, Harnisch C, Stöckelhuber KW, Heinrich G. **Enhanced thermal stability of polychloroprene rubber composites with ionic liquid modified MWCNTs.** *Polymer Degradation and Stability*. 2012 May;97(5):776-785. <https://doi.org/10.1016/j.polydegradstab.2012.02.001>

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

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

Massera J, Fagerlund S, Hupa L, Hupa M. **Crystallization mechanism of the bioactive glasses, 45S5 and S53P4.** *JOURNAL OF THE AMERICAN CERAMIC SOCIETY*. 2012 Feb;95(2):607-613. <https://doi.org/10.1111/j.1551-2916.2011.05012.x>

Heikkinen JJ, Kivimäki L, Hytönen VP, Kulomaa MS, Hormi OEO. **Printable and flexible macroporous organosilica film with high protein adsorption capacity.** *Thin Solid Films*. 2012 Jan 1;520(6):1934-1937. <https://doi.org/10.1016/j.tsf.2011.09.041>

Ghabchi A, Varis T, Holmberg K, Sampath S. **HVOF process control enabling strategies.** In *International Thermal Spray Conference and Exposition, ITSC 2012 - Air, Land, Water and the Human Body: Thermal Spray Science and Applications*. ASM International. 2012. p. 465-471

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

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

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

Sorianello V, Colace L, Nardone M, Assanto G. **Thermally evaporated single-crystal Germanium on Silicon.** Thin Solid Films. 2011 Sep 1;519(22):8037-8040. <https://doi.org/10.1016/j.tsf.2011.06.023>

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

Vikholm-Lundin I, Auer S, Hellgren AC. **Detection of 3,4-methylenedioxyamphetamine (MDMA, ecstasy) by displacement of antibodies.** Sensors and Actuators B: Chemical. 2011 Aug 10;156(1):28-34. <https://doi.org/10.1016/j.snb.2011.03.069>

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

Zorzi GK, Párraga JE, Seijo B, Sánchez A. **Hybrid nanoparticle design based on cationized gelatin and the polyanions dextran sulfate and chondroitin sulfate for ocular gene therapy.** MACROMOLECULAR BIOSCIENCE. 2011 Jul 7;11(7):905-913. <https://doi.org/10.1002/mabi.201100005>

Tuurna S, Varis T, Penttilä K, Ruusuvoori K, Holmström S, Yli-Olli S. **Optimised selection of new protective coatings for biofuel boiler applications.** Materials and Corrosion-Werkstoffe und Korrosion. 2011 Jul;62(7):642-649. <https://doi.org/10.1002/maco.201005898>

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

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

Rooj S, Das A, Heinrich G. **Preintercalation of an organic accelerator into nanogalleries and preparation of ethylene propylene diene terpolymer rubber-clay nanocomposites.** POLYMER JOURNAL. 2011 Mar;43(3):285-292. <https://doi.org/10.1038/pj.2010.132>

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

Lagerbom J, Ritvonen T, Suhonen T, Varis T. **Gas atomized thermal spray powders of various metals and alloys.** In Proceedings of the Euro International Powder Metallurgy Congress and Exhibition, Euro PM 2011. Vol. 2. European Powder Metallurgy Association (EPMA). 2011

Koivusaari KJ, Rantala TT, Leppävuori S. **Calculated electronic density of states and structural properties of tetrahedral amorphous carbon.** Diamond and Related Materials. 2000 Apr;9(3):736-740. [https://doi.org/10.1016/S0925-9635\(99\)00286-1](https://doi.org/10.1016/S0925-9635(99)00286-1)

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

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