

- Donadei, V, Koivuluoto, H, Sarlin, E & Vuoristo, P 2020, 'Lubricated icephobic coatings prepared by flame spraying with hybrid feedstock injection', *Surface and Coatings Technology*, vol. 403, 126396. <https://doi.org/10.1016/j.surfcoat.2020.126396>
- Juoksukangas, J, Hintikka, J, Lehtovaara, A, Mäntylä, A, Vaara, J & Frondelius, T 2020, 'Avoiding the initial adhesive friction peak in fretting', *Wear*, vol. 460-461, 203353. <https://doi.org/10.1016/j.wear.2020.203353>
- Ojha, N, Bogdan, M, Galatus, R & Petit, L 2020, 'Effect of heat-treatment on the upconversion of  $\text{NaYF}_4:\text{Yb}^{3+}, \text{Er}^{3+}$  nanocrystals containing silver phosphate glass', *Journal of Non-Crystalline Solids*, vol. 544, 120243. <https://doi.org/10.1016/j.jnoncrysol.2020.120243>
- Haiko, O, Kaikkonen, P, Somani, M, Valtonen, K & Kömi, J 2020, 'Characteristics of carbide-free medium-carbon bainitic steels in high-stress abrasive wear conditions', *Wear*, vol. 456-457, 203386. <https://doi.org/10.1016/j.wear.2020.203386>
- Haiko, O, Javaheri, V, Valtonen, K, Kaijalainen, A, Hannula, J & Kömi, J 2020, 'Effect of prior austenite grain size on the abrasive wear resistance of ultra-high strength martensitic steels', *Wear*, vol. 454-455, 203336. <https://doi.org/10.1016/j.wear.2020.203336>
- Arvani, M, Keskinen, J, Railanmaa, A, Siljander, S, Björkqvist, T, Tuukkanen, S & Lupo, D 2020, 'Additive manufacturing of monolithic supercapacitors with biopolymer separator', *Journal of Applied Electrochemistry*, vol. 50, no. 6, pp. 689-697. <https://doi.org/10.1007/s10800-020-01423-2>
- Javanainen, M, Ollila, OHS & Martinez-Seara, H 2020, 'Rotational Diffusion of Membrane Proteins in Crowded Membranes', *Journal of Physical Chemistry B*, vol. 124, no. 15, pp. 2994-3001. <https://doi.org/10.1021/acs.jpcc.0c00884>
- Matikainen, V, Koivuluoto, H & Vuoristo, P 2020, 'A study of  $\text{Cr}_3\text{C}_2$ -based HVOF- and HVOF-sprayed coatings: Abrasion, dry particle erosion and cavitation erosion resistance', *Wear*, vol. 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, Brauer, DS & Massera, J 2020, 'Structure and in vitro dissolution of Mg and Sr containing borosilicate bioactive glasses for bone tissue engineering', *Journal of Non-Crystalline Solids*, vol. 533, 119893. <https://doi.org/10.1016/j.jnoncrysol.2020.119893>
- Young, DC, Tasiar, M, Laurent, AD, Dobrzycki, Ł, Cyrański, MK, Tkachenko, N, Jacquemin, D & Gryko, DT 2020, 'Photostable orange-red fluorescent unsymmetrical diketopyrrolopyrrole- $\text{BF}_2$  hybrids', *Journal of Materials Chemistry C*, vol. 8, no. 23, pp. 7708-7717. <https://doi.org/10.1039/d0tc01202e>
- Hongisto, M, Veber, A, Boetti, NG, Danto, S, Jubera, V & Petit, L 2020, 'Transparent  $\text{Yb}^{3+}$  doped phosphate glass-ceramics', *Ceramics International*. <https://doi.org/10.1016/j.ceramint.2020.01.121>
- Lehtonen, J, Koivuluoto, H, Ge, Y, Juselius, A & Hannula, SP 2020, 'Cold gas spraying of a high-entropy CrFeNiMn equiatomic alloy', *Coatings*, vol. 10, no. 1, 53. <https://doi.org/10.3390/coatings10010053>
- Jönkkäri, I, Poliakova, V, Mylläri, V, Anderson, R, Andersson, M & Vuorinen, J 2020, 'Compounding and characterization of recycled multilayer plastic films', *Journal of Applied Polymer Science*. <https://doi.org/10.1002/app.49101>
- Donmez, O, Aydın, M, Ardali, Yildirim, S, Tıraş, E, Nutku, F, Cetinkaya, C, okduygulular, E, Puustinen, J, Hilska, J, Guina, M & Erol, A 2020, '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*, vol. 35, no. 2, 025009. <https://doi.org/10.1088/1361-6641/ab5d8d>
- Varis, T, Suhonen, T, Jokipii, M & Vuoristo, P 2020, 'Influence of powder properties on residual stresses formed in high-pressure liquid fuel HVOF sprayed WC-CoCr coatings', *Surface and Coatings Technology*, vol. 388, 125604. <https://doi.org/10.1016/j.surfcoat.2020.125604>

Khvorost, TA, Beliaev, LY, Potalueva, E, Laptenkova, AV, Selyutin, AA, Bogachev, NA, Skripkin, MY, Ryazantsev, MN, Tkachenko, N & Mereshchenko, AS 2020, 'Ultrafast Photochemistry of the  $[\text{Cr}(\text{NCS})_6]^{3-}$  Complex in Dimethyl Sulfoxide and Dimethylformamide upon Excitation into Ligand-Field Electronic State', *Journal of Physical Chemistry B*, vol. 124, no. 18, pp. 3724-3733. <https://doi.org/10.1021/acs.jpcc.0c00088>

Koivuluoto, H, Larjo, J, Marini, D, Pulci, G & Marra, F 2020, 'Cold-Sprayed Al6061 coatings: Online spray monitoring and influence of process parameters on coating properties', *Coatings*, vol. 10, no. 4, 348. <https://doi.org/10.3390/coatings10040348>

Del Cerro, PR, Teittinen, H, Norrbo, I, Lastusaari, M, Massera, J & Petit, L 2020, 'Novel borosilicate bioactive scaffolds with persistent luminescence', *Biomedical Glasses*, vol. 6, no. 1, pp. 1-9. <https://doi.org/10.1515/bglass-2020-0001>

Varis, T, Suhonen, T, Laakso, J, Jokipii, M & Vuoristo, P 2020, 'Evaluation of Residual Stresses and Their Influence on Cavitation Erosion Resistance of High Kinetic HVOF and HVAF-Sprayed WC-CoCr Coatings', *Journal of Thermal Spray Technology*. <https://doi.org/10.1007/s11666-020-01037-2>

Poikelispää, M, Ruokangas, S, Honkanen, M, Vippola, M & Sarlin, E 2020, 'Phase-change material: Natural rubber composites for heat storage applications', *Rubber Chemistry and Technology*, vol. 93, no. 1, pp. 208-221. <https://doi.org/10.5254/rct.19.81468>

Poikelispää, M, Honkanen, M, Vippola, M & Sarlin, E 2020, 'Effect of carbon nanotubes and nanodiamonds on the heat storage ability of natural rubber composites', *Journal of Elastomers and Plastics*. <https://doi.org/10.1177/0095244320933977>

Saarimaa, V, Fuertes, N, Persson, D, Zavalis, T, Kaleva, A, Nikkanen, J-P, Levänen, E & Heydari, G 2020, 'Assessment of pitting corrosion in bare and passivated (wet  $\text{scCO}_2$ -induced patination and chemical passivation) hot-dip galvanized steel samples with SVET, FTIR, and SEM (EDS)', *Materials and Corrosion*. <https://doi.org/10.1002/maco.202011653>

Karhu, M, Lagerbom, J, Honkanen, M, Huttunen-Saarivirta, E, Kiilakoski, J, Vuoristo, P, Solismaa, S & Kivikytö-Reponen, P 2020, 'Mining tailings as a raw material for glass-bonded thermally sprayed ceramic coatings: Microstructure and properties', *Journal of the European Ceramic Society*, vol. 40, no. 12, pp. 4111-4121. <https://doi.org/10.1016/j.jeurceramsoc.2020.04.038>

Wani, OM, Schenning, APHJ & Priimagi, A 2020, 'A bifacial colour-tunable system via combination of a cholesteric liquid crystal network and hydrogel', *Journal of Materials Chemistry C*, vol. 8, no. 30, pp. 10191-10196. <https://doi.org/10.1039/d0tc02189j>

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

Donmez, O, Aydin, M, Ardali, Yildirim, S, Tıraş, E, Erol, A, Puustinen, J, Hilska, J & Guina, M 2020, 'Power loss mechanisms in n-type modulation-doped AlGaAs/GaAsBi quantum well heterostructures', *Semiconductor Science and Technology*, vol. 35, no. 9, 095038. <https://doi.org/10.1088/1361-6641/ab94d9>

Haiko, O, Valtonen, K, Kajjalainen, A, Uusikallio, S, Hannula, J, Liimatainen, T & Kömi, J 2019, 'Effect of tempering on the impact-abrasive and abrasive wear resistance of ultra-high strength steels', *Wear*, vol. 440-441. <https://doi.org/10.1016/j.wear.2019.203098>

Dongho-Nguimdo, GM, Igumbor, E, Zambou, S & Joubert, DP 2019, 'First principles prediction of the solar cell efficiency of chalcopyrite materials  $\text{AgMX}_2$  (M=In, Al; X=S, Se, Te)', *Computational Condensed Matter*, vol. 21, e00391. <https://doi.org/10.1016/j.cocom.2019.e00391>

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

Kanerva, M, Puolakka, A, Takala, TM, Elert, AM, Mylläri, V, Jönkkäri, I, Sarlin, E, Seitsonen, J, Ruokolainen, J, Saris, P & Vuorinen, J 2019, 'Antibacterial polymer fibres by rosin compounding and melt-spinning', *Materials Today Communications*, vol. 20, 100527. <https://doi.org/10.1016/j.mtcomm.2019.05.003>

Lehmusto, J, Olin, M, Viljanen, J, Kalliokoski, J, Mylläri, F, Toivonen, J, Dal Maso, M & Hupa, L 2019, 'Detection of gaseous species during KCl-induced high-temperature corrosion by the means of CPFAAS and CI-API-TOF', *Materials and Corrosion*. <https://doi.org/10.1002/maco.201910964>

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

Szczodra, A, Mardoukhi, A, Hokka, M, Boetti, NG & Petit, L 2019, 'Fluorine losses in Er<sup>3+</sup> oxyfluoride phosphate glasses and glass-ceramics', *Journal of Alloys and Compounds*, vol. 797, pp. 797-803. <https://doi.org/10.1016/j.jallcom.2019.05.151>

Ruuskanen, J, Stenvall, A, Lahtinen, V, Nugteren, JV, Kirby, G & Murtomäki, J 2019, 'Modelling thermodynamics in a high erature superconducting dipole magnet: An inverse problem based approach', *Superconductor Science and Technology*, vol. 32, no. 9, 094007. <https://doi.org/10.1088/1361-6668/ab2bc9>

Matikainen, V, Rubio Peregrina, S, Ojala, N, Koivuluoto, H, Schubert, J, Houdková, & Vuoristo, P 2019, '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*, vol. 370, pp. 196-212. <https://doi.org/10.1016/j.surfcoat.2019.04.067>

Banerjee, SS, Hait, S, Natarajan, TS, Wießner, S, Stöckelhuber, KW, Jehnichen, D, Janke, A, Fischer, D, Heinrich, G, Busfield, JJC & Das, A 2019, 'Water-Responsive and Mechanically Adaptive Natural Rubber Composites by in Situ Modification of Mineral Filler Structures', *Journal of Physical Chemistry B*, vol. 123, no. 24, pp. 5168-5175. <https://doi.org/10.1021/acs.jpcc.9b02125>

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

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

Valtonen, K, Ojala, N, Haiko, O & Kuokkala, V-T 2019, 'Comparison of various high-stress wear conditions and wear performance of martensitic steels', *Wear*, vol. 426-427, no. Part A, pp. 3-13. <https://doi.org/10.1016/j.wear.2018.12.006>

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

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

Karhu, M, Lagerbom, J, Solismaa, S, Honkanen, M, Ismailov, A, Räisänen, ML, Huttunen-Saarivirta, E, Levänen, E & Kivikytö-Reponen, P 2019, 'Mining tailings as raw materials for reaction-sintered aluminosilicate ceramics: Effect of mineralogical composition on microstructure and properties', *Ceramics International*, vol. 45, no. 4, pp. 4840-4848. <https://doi.org/10.1016/j.ceramint.2018.11.180>

Reyes, G, Borghei, M, King, AWT, Lahti, J & Rojas, OJ 2019, 'Solvent Welding and Imprinting Cellulose Nanofiber Films Using Ionic Liquids', *Biomacromolecules*, vol. 20, no. 1, pp. 502-514. <https://doi.org/10.1021/acs.biomac.8b01554>

Kiilakoski, J, Puranen, J, Heinonen, E, Koivuluoto, H & Vuoristo, P 2019, '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*, vol. 28, no. 1-2, pp. 98-107. <https://doi.org/10.1007/s11666-018-0816-x>

Shin, M, Kim, J, Jung, YK, Ruoko, T-P, Priimagi, A, Walsh, A & Shin, B 2019, 'Low-dimensional formamidinium lead perovskite architectures via controllable solvent intercalation', *Journal of Materials Chemistry C*, vol. 7, no. 13, pp. 3945-3951. <https://doi.org/10.1039/c9tc00379g>

Lopez-Iscoa, P, Ojha, N, Pugliese, D, Mishra, A, Gumenyuk, R, Boetti, NG, Janner, D, Troles, J, Bureau, B, Boussard-Plédel, C, Massera, J, Milanese, D & Petit, L 2019, 'Design, processing, and characterization of an optical core-bioactive clad phosphate fiber for biomedical applications', *JOURNAL OF THE AMERICAN CERAMIC SOCIETY*. <https://doi.org/10.1111/jace.16553>

Mereuta, A, Nechay, K, Caliman, A, Suruceanu, G, Rudra, A, Gallo, P, Guina, M & Kapon, E 2019, 'Flip-chip Wafer-fused OP-VECSELs emitting 3.65 W at the 1.55-μm waveband', *IEEE Journal of Selected Topics in Quantum Electronics*, vol. 25, no. 6. <https://doi.org/10.1109/JSTQE.2019.2922819>

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

Fliervoet, LAL, Lisitsyna, ES, Durandin, NA, Kotsis, I, Maas-Bakker, RFM, Yliperttula, M, Hennink, WE, Vuorimaa-Laukkanen, E & Vermonden, T 2019, 'Structure and Dynamics of Thermosensitive pDNA Polyplexes Studied by Time-Resolved Fluorescence Spectroscopy', *Biomacromolecules*. <https://doi.org/10.1021/acs.biomac.9b00896>

Kiilakoski, J, Trache, R, Björklund, S, Joshi, S & Vuoristo, P 2019, 'Process Parameter Impact on Suspension-HVOF-Sprayed Cr<sub>2</sub>O<sub>3</sub> Coatings', *Journal of Thermal Spray Technology*. <https://doi.org/10.1007/s11666-019-00940-7>

Barberi, J, Nommeots-Nomm, A, Fiume, E, Verné, E, Massera, J & Baino, F 2019, 'Mechanical characterization of pore-graded bioactive glass scaffolds produced by robocasting', *Biomedical Glasses*, vol. 5, no. 1, pp. 140-147. <https://doi.org/10.1515/bglass-2019-0012>

Passananti, M, Zapadinsky, E, Zanca, T, Kangasluoma, J, Myllys, N, Rissanen, MP, Kurtén, T, Ehn, M, Attoui, M & Vehkamäki, H 2019, 'How well can we predict cluster fragmentation inside a mass spectrometer?', *Chemical Communications*, vol. 55, no. 42, pp. 5946-5949. <https://doi.org/10.1039/c9cc02896j>

Joost, U, Sutka, A, Oja, M, Smits, K, Doebelin, N, Loot, A, Järvekülg, M, Hirsimäki, M, Valden, M & Nommiste, E 2018, 'Reversible photodoping of TiO<sub>2</sub> nanoparticles', *Chemistry of Materials*, vol. 30, no. 24, pp. 8968-8974. <https://doi.org/10.1021/acs.chemmater.8b04813>

Gunes, M, Ukelge, MO, Donmez, O, Erol, A, Gumus, C, Alghamdi, H, Galeti, HVA, Henini, M, Schmidbauer, M, Hilska, J, Puustinen, J & Guina, M 2018, '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*, vol. 33, no. 12, 124015. <https://doi.org/10.1088/1361-6641/aaea2e>

Šutka, A, Käämbre, T, Joost, U, Kooser, K, Kook, M, Duarte, RF, Kisand, V, Maiorov, M, Döbelin, N & Smits, K 2018, 'Solvothermal synthesis derived Co-Ga codoped ZnO diluted magnetic degenerated semiconductor nanocrystals', *Journal of Alloys and Compounds*, vol. 763, pp. 164-172. <https://doi.org/10.1016/j.jallcom.2018.05.036>

- Rajan, R, Rainosalo, E, Ramamoorthy, SK, Thomas, SP, Zavašnik, J, Vuorinen, J & Skrifvars, M 2018, 'Mechanical, thermal, and burning properties of viscose fabric composites: Influence of epoxy resin modification', *Journal of Applied Polymer Science*, vol. 135, no. 36, 46673. <https://doi.org/10.1002/app.46673>
- Kaksonen, AH, Boxall, NJ, Gumulya, Y, Khaleque, HN, Morris, C, Bohu, T, Cheng, KY, Usher, KM & Lakaniemi, A-M 2018, 'Recent progress in biohydrometallurgy and microbial characterisation', *Hydrometallurgy*, vol. 180, pp. 7-25. <https://doi.org/10.1016/j.hydromet.2018.06.018>
- Bomberg, M, Miettinen, H, Wahlström, M, Kaartinen, T, Ahoranta, S, Lakaniemi, A-M & Kinnunen, P 2018, 'Post operation inactivation of acidophilic bioleaching microorganisms using natural chloride-rich mine water', *Hydrometallurgy*, vol. 180, pp. 236-245. <https://doi.org/10.1016/j.hydromet.2018.06.013>
- Cemlyn, B, Adams, M, Harbord, E, Li, N, Henning, ID, Oulton, R, Korpijärvi, VM & Guina, M 2018, 'Near-threshold high spin amplification in a 1300 nm GaInNAs spin laser', *Semiconductor Science and Technology*, vol. 33, no. 9, 094005. <https://doi.org/10.1088/1361-6641/aad42e>
- Prando, GA, Orsi Gordo, V, Puustinen, J, Hilska, J, Alghamdi, HM, Som, G, Gunes, M, Akyol, M, Souto, S, Rodrigues, AD, Galeti, HVA, Henini, M, Gobato, YG & Guina, M 2018, '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*, vol. 33, no. 8, 084002. <https://doi.org/10.1088/1361-6641/aad02e>
- Nommeots-Nomm, A, Boetti, NG, Salminen, T, Massera, J, Hokka, M & Petit, L 2018, 'Luminescence of Er<sup>3+</sup> doped oxyfluoride phosphate glasses and glass-ceramics', *Journal of Alloys and Compounds*, vol. 751, pp. 224-230. <https://doi.org/10.1016/j.jallcom.2018.04.101>
- Kaunisto, K, Kotilainen, M, Karhu, M, Lagerbom, J, Vuorinen, T, Honkanen, M, Vippola, M & Turunen, E 2018, 'The effect of carbon and nickel additions on the precursor synthesis of Cr<sub>3</sub>C<sub>2</sub>-Ni nanopowder', *Ceramics International*, vol. 44, no. 8, pp. 9338-9346. <https://doi.org/10.1016/j.ceramint.2018.02.146>
- Goyos-Ball, L, Prado, C, Díaz, R, Fernández, E, Ismailov, A, Kumpulainen, T, Levänen, E, Torrecillas, R & Fernández, A 2018, '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*, vol. 44, no. 8, pp. 9472-9478. <https://doi.org/10.1016/j.ceramint.2018.02.164>
- Ojha, N, Laihin, T, Salminen, T, Lastusaari, M & Petit, L 2018, 'Influence of the phosphate glass melt on the corrosion of functional particles occurring during the preparation of glass-ceramics', *Ceramics International*, vol. 44, no. 10, pp. 11807-11811. <https://doi.org/10.1016/j.ceramint.2018.03.267>
- Sarcan, F, Mutlu, S, Cokduygular, E, Donmez, O, Erol, A, Puustinen, J & Guina, M 2018, '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*, vol. 33, no. 6, 064003. <https://doi.org/10.1088/1361-6641/aabc39>
- Melcr, J, Martinez-Seara, H, Nencini, R, Kolafa, J, Jungwirth, P & Ollila, OHS 2018, 'Accurate Binding of Sodium and Calcium to a POPC Bilayer by Effective Inclusion of Electronic Polarization', *Journal of Physical Chemistry B*, vol. 122, no. 16, pp. 4546-4557. <https://doi.org/10.1021/acs.jpcc.7b12510>
- Nugteren, JV, Kirby, G, Bajas, H, Bajko, M, Ballarino, A, Bottura, L, Chiuchiolo, A, Contat, PA, Dhallé, M, Durante, M, Fazilleau, P, Fontalva, A, Gao, P, Goldacker, W, Kate, HT, Kario, A, Lahtinen, V, Lorin, C, Markelov, A, Mazet, J, Molodyk, A, Murtomäki, J, Long, N, Perez, J, Petrone, C, Pincot, F, Rijk, GD, Rossi, L, Russenschuck, S, Ruuskanen, J, Schmitz, K, Stenvall, A, Usoskin, A, Willering, G & Yang, Y 2018, 'Powering of an HTS dipole insert-magnet operated standalone in helium gas between 5 and 85 K', *Superconductor Science and Technology*, vol. 31, no. 6, 065002. <https://doi.org/10.1088/1361-6668/aab887>
- Magarkar, A, Parkkila, P, Viitala, T, Lajunen, T, Mobarak, E, Licari, G, Cramariuc, O, Vauthey, E, Róg, T & Bunker, A 2018, 'Membrane bound COMT isoform is an interfacial enzyme: General mechanism and new drug design paradigm', *Chemical Communications*, vol. 54, no. 28, pp. 3440-3443. <https://doi.org/10.1039/c8cc00221e>

Matikainen, V, Koivuluoto, H, Vuoristo, P, Schubert, J & Houdková 2018, 'Effect of nozzle geometry on the microstructure and properties of hvaf-sprayed wc-10co4cr and cr3c2-25nicr coatings', *Journal of Thermal Spray Technology*, vol. 27, no. 4, pp. 680-694. <https://doi.org/10.1007/s11666-018-0717-z>

Sassatelli, P, Bolelli, G, Lassinantti Gualtieri, M, Heinonen, E, Honkanen, M, Lusvarghi, L, Manfredini, T, Rigon, R & Vippola, M 2018, 'Properties of HVOF-sprayed Stellite-6 coatings', *Surface and Coatings Technology*, vol. 338, pp. 45-62. <https://doi.org/10.1016/j.surfcoat.2018.01.078>

Poutanen, M, Ahmed, Z, Rautkari, L, Ikkala, O & Priimägi, A 2018, 'Thermal Isomerization of Hydroxyazobenzenes as a Platform for Vapor Sensing', *ACS Macro Letters*, vol. 7, no. 3, pp. 381-386. <https://doi.org/10.1021/acsmacrolett.8b00093>

Janka, L, Berger, LM, Norpoth, J, Trache, R, Thiele, S, Tomastik, C, Matikainen, V & Vuoristo, P 2018, 'Improving the high temperature abrasion resistance of thermally sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr coatings by WC addition', *Surface and Coatings Technology*, vol. 337, pp. 296-305. <https://doi.org/10.1016/j.surfcoat.2018.01.035>

Karvinen, J, Joki, T, Ylä-Outinen, L, Koivisto, JT, Narkilahti, S & Kellomäki, M 2018, 'Soft hydrazone crosslinked hyaluronan- and alginate-based hydrogels as 3D supportive matrices for human pluripotent stem cell-derived neuronal cells', *Reactive and Functional Polymers*, vol. 124, pp. 29-39. <https://doi.org/10.1016/j.reactfunctpolym.2017.12.019>

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

Hannula, M, Ali-Löyty, H, Lahtonen, K, Sarlin, E, Saari, J & Valden, M 2018, 'Improved Stability of Atomic Layer Deposited Amorphous TiO<sub>2</sub> Photoelectrode Coatings by Thermally Induced Oxygen Defects', *Chemistry of Materials*, vol. 30, no. 4, pp. 1199-1208. <https://doi.org/10.1021/acs.chemmater.7b02938>

Vaikuntam, SR, Stöckelhuber, KW, Subramani Bhagavatheswaran, E, Wießner, S, Scheler, U, Saalwächter, K, Formanek, P, Heinrich, G & Das, A 2018, 'Entrapped Styrene Butadiene Polymer Chains by Sol-Gel-Derived Silica Nanoparticles with Hierarchical Raspberry Structures', *Journal of Physical Chemistry B*, vol. 122, no. 6, pp. 2010-2022. <https://doi.org/10.1021/acs.jpcc.7b11792>

Yury, K, Filippov, M, Makarov, A, Malygina, I, Soboleva, N, Fantozzi, D, Andrea, M, Koivuluoto, H & Vuoristo, P 2018, 'Arc-sprayed Fe-based coatings from coredwires for wear and corrosion protection in power engineering', *Coatings*, vol. 8, no. 2, 71. <https://doi.org/10.3390/coatings8020071>

Saccone, M, Kuntze, K, Ahmed, Z, Siiskonen, A, Giese, M & Priimägi, A 2018, 'Ortho-Fluorination of azophenols increases the mesophase stability of photoresponsive hydrogen-bonded liquid crystals', *Journal of Materials Chemistry C*, vol. 6, no. 37, pp. 9958-9963. <https://doi.org/10.1039/c8tc02611d>

Shakun, A, Poikelispää, M, Das, A & Vuorinen, J 2018, 'Improved electromechanical response in acrylic rubber by different carbon-based fillers', *Polymer Engineering and Science*, vol. 58, no. 3, pp. 395-404. <https://doi.org/10.1002/pen.24586>

Rajan, R, Rainosalo, E, Thomas, SP, Ramamoorthy, SK, Zavašnik, J, Vuorinen, J & Skrifvars, M 2018, 'Modification of epoxy resin by silane-coupling agent to improve tensile properties of viscose fabric composites', *Polymer Bulletin*, vol. 75, no. 1, pp. 167-195. <https://doi.org/10.1007/s00289-017-2022-2>

Saarinen, M, Nommeots-Nomm, A, Hokka, M, Laurila, J, Norrbo, I, Lastusaari, M, Massera, J & Petit, L 2018, 'Persistent luminescent particles containing bioactive glasses: Prospect toward tracking in-vivo implant mineralization using biophotonic ceramics', *Journal of the European Ceramic Society*, vol. 38, no. 1, pp. 287-295. <https://doi.org/10.1016/j.jeurceramsoc.2017.08.024>

Bolelli, G, Bursi, M, Lusvarghi, L, Manfredini, T, Matikainen, V, Rigon, R, Sassatelli, P & Vuoristo, P 2018, 'Tribology of FeVCrC coatings deposited by HVOF and HVOF thermal spray processes', *Wear*, vol. 394-395, pp. 113-133. <https://doi.org/10.1016/j.wear.2017.10.014>

Alekseev, A, Ihalainen, P, Ivanov, A, Domnin, I, Rosqvist, E, Lemmetyinen, H, Vuorimaa-Laukkanen, E, Peltonen, J & Vyaz'min, S 2018, 'Stable blue phase polymeric Langmuir-Schaefer films based on unsymmetrical hydroxyalkadiynyl N-arylcarbamate derivatives', *Thin Solid Films*, vol. 645, pp. 108-118. <https://doi.org/10.1016/j.tsf.2017.10.018>

Kiilakoski, J, Musalek, R, Lukac, F, Koivuluoto, H & Vuoristo, P 2018, '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*, vol. 38, no. 4, pp. 1908-1918. <https://doi.org/10.1016/j.jeurceramsoc.2017.11.056>

Glorieux, B, Salminen, T, Massera, J, Lastusaari, M & Petit, L 2018, '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*, vol. 482, pp. 46-51. <https://doi.org/10.1016/j.jnoncrysol.2017.12.021>

Koivuluoto, H, Matikainen, V, Larjo, J & Vuoristo, P 2018, 'Novel Online Diagnostic Analysis for In-Flight Particle Properties in Cold Spraying', *Journal of Thermal Spray Technology*, vol. 27, no. 3, pp. 423-432. <https://doi.org/10.1007/s11666-018-0685-3>

Sulonen, MLK, Kokko, ME, Lakaniemi, A-M & Puhakka, JA 2018, 'Simultaneous removal of tetrathionate and copper from simulated acidic mining water in bioelectrochemical and electrochemical systems', *Hydrometallurgy*, vol. 176, pp. 129-138. <https://doi.org/10.1016/j.hydromet.2018.01.023>

Saarimaa, V, Kaleva, A, Paunikallio, T, Nikkanen, J-P, Heinonen, S, Levänen, E, Väisänen, P & Markkula, A 2018, 'Convenient extraction method for quantification of thin zinc patina layers', *Surface and Interface Analysis*, vol. 50, no. 5, pp. 564-570. <https://doi.org/10.1002/sia.6429>

Durandin, NA, Isokuortti, J, Efimov, A, Vuorimaa-Laukkanen, E, Tkachenko, NV & Laaksonen, T 2018, 'Efficient photon upconversion at remarkably low annihilator concentrations in a liquid polymer matrix: when less is more', *Chemical Communications*, vol. 54, no. 99, pp. 14029-14032. <https://doi.org/10.1039/c8cc07592a>

Saarimaa, V, Kaleva, A, Nikkanen, J-P, Heinonen, S, Levänen, E, Väisänen, P, Markkula, A & Juhanoja, J 2017, 'Supercritical carbon dioxide treatment of hot dip galvanized steel as a surface treatment before coating', *Surface and Coatings Technology*, vol. 331, pp. 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, Yliperttula, M & Vuorimaa-Laukkanen, E 2017, 'Time-Resolved Fluorescence Spectroscopy Reveals Fine Structure and Dynamics of Poly(L-lysine) and Polyethylenimine Based DNA Polyplexes', *Journal of Physical Chemistry B*, vol. 121, no. 48, pp. 10782-10792. <https://doi.org/10.1021/acs.jpcc.7b08394>

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

Santangelo, PE, Allesina, G, Bolelli, G, Lusvarghi, L, Matikainen, V & Vuoristo, P 2017, 'Infrared Thermography as a Non-destructive Testing Solution for Thermal Spray Metal Coatings', *Journal of Thermal Spray Technology*, vol. 26, no. 8, pp. 1982-1993. <https://doi.org/10.1007/s11666-017-0642-6>

Sarlin, E, Saarimäki, M, Sironen, R, Lindgren, M, Siljander, S, Kanerva, M & Vuorinen, J 2017, 'Erosive wear of filled vinylester composites in water and acidic media at elevated temperature', *Wear*, vol. 390-391, pp. 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, Ahola, A, Tappura, K, Kallio, P & Lekkala, J 2017, 'Fluorimetric oxygen sensor with an efficient optical read-out for in vitro cell models', *Sensors and Actuators B: Chemical*, vol. 249, pp. 738-746. <https://doi.org/10.1016/j.snb.2017.04.182>

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

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

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

Tkalich, D, Li, CC, Kane, A, Saai, A, Tkalich, D, Yastrebov, VA, Hokka, M, Kuokkala, V-T, Bengtsson, M & From, A 2017, 'Wear of cemented tungsten carbide percussive drill-bit inserts: Laboratory and field study', *Wear*, vol. 386-387, pp. 106-117. <https://doi.org/10.1016/j.wear.2017.05.010>

Matikainen, V, Bolelli, G, Koivuluoto, H, Honkanen, M, Vippola, M, Lusvarghi, L & Vuoristo, P 2017, '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*, vol. 26, no. 6, pp. 1-18. <https://doi.org/10.1007/s11666-017-0578-x>

Rahaman, O, Kalimeri, M, Katava, M, Paciaroni, A & Sterpone, F 2017, 'Configurational Disorder of Water Hydrogen-Bond Network at the Protein Dynamical Transition', *Journal of Physical Chemistry Part B*, vol. 121, no. 28, pp. 6792-6798. <https://doi.org/10.1021/acs.jpcc.7b03888>

Poikelispää, M, Shakun, A, Sarlin, E, Das, A & Vuorinen, J 2017, 'Vegetable fillers for electric stimuli responsive elastomers', *Journal of Applied Polymer Science*, vol. 134, no. 28, 45081. <https://doi.org/10.1002/app.45081>

Mentink, M & Salmi, T 2017, 'Quench absorption coils: A quench protection concept for high-field superconducting accelerator magnets', *Superconductor Science and Technology*, vol. 30, no. 6, 064002. <https://doi.org/10.1088/1361-6668/aa6678>

Saccone, M, Siiskonen, A, Fernandez-Palacio, F, Priimägi, A, Terraneo, G, Resnati, G & Metrangolo, P 2017, 'Halogen bonding stabilizes a cis-azobenzene derivative in the solid state: A crystallographic study', *ACTA CRYSTALLOGRAPHICA SECTION B: STRUCTURAL SCIENCE, CRYSTAL ENGINEERING AND MATERIALS*, vol. 73, no. 2, pp. 227-233. <https://doi.org/10.1107/S2052520617003444>

Lopez-Iscoa, P, Petit, L, Massera, J, Janner, D, Boetti, NG, Pugliese, D, Fiorilli, S, Novara, C, Giorgis, F & Milanese, D 2017, '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*, vol. 460, pp. 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, Giancane, G, Saccone, M, Priimägi, A, Metrangolo, P & Ikkala, O 2017, 'Hierarchical Self-Assembly of Halogen-Bonded Block Copolymer Complexes into Upright Cylindrical Domains', *Chem*, vol. 2, no. 3, pp. 417-426. <https://doi.org/10.1016/j.chempr.2017.02.003>

Ruuskanen, J, Stenvall, A, Lahtinen, V & Pardo, E 2017, 'Electromagnetic nonlinearities in a Roebel-cable-based accelerator magnet prototype: Variational approach', *Superconductor Science and Technology*, vol. 30, no. 2, 024008. <https://doi.org/10.1088/1361-6668/30/2/024008>



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

Hyysalo, A, Ristola, M, Joki, T, Honkanen, M, Vippola, M & Narkilahti, S 2017, 'Aligned Poly( $\epsilon$ -caprolactone) Nanofibers Guide the Orientation and Migration of Human Pluripotent Stem Cell-Derived Neurons, Astrocytes, and Oligodendrocyte Precursor Cells In Vitro', *MACROMOLECULAR BIOSCIENCE*, vol. 17, no. 7, 1600517. <https://doi.org/10.1002/mabi.201600517>

Matikainen, V, Bolelli, G, Koivuluoto, H, Sassatelli, P, Lusvarghi, L & Vuoristo, P 2017, 'Sliding wear behaviour of HVOF and HVOF sprayed  $\text{Cr}_3\text{C}_2$ -based coatings', *Wear*, vol. 388-389, pp. 57-71. <https://doi.org/10.1016/j.wear.2017.04.001>

Oksanen, VT, Lehtovaara, AJ & Kallio, MH 2017, 'Load capacity of lubricated bismuth bronze bimetal bearing under elliptical sliding motion', *Wear*, vol. 388-389, pp. 72-80. <https://doi.org/10.1016/j.wear.2017.05.001>

Salpavaara, T, Hänninen, A, Antniemi, A, Lekkala, J & Kellomäki, M 2017, 'Non-destructive and wireless monitoring of biodegradable polymers', *Sensors and Actuators B: Chemical*, vol. 251, pp. 1018-1025. <https://doi.org/10.1016/j.snb.2017.05.116>

Javanainen, M, Melcrová, A, Magarkar, A, Jurkiewicz, P, Hof, M, Jungwirth, P & Martinez-Seara, H 2017, 'Two cations, two mechanisms: Interactions of sodium and calcium with zwitterionic lipid membranes', *Chemical Communications*, vol. 53, no. 39, pp. 5380-5383. <https://doi.org/10.1039/c7cc02208e>

Janka, L, Norpoth, J, Trache, R, Thiele, S & Berger, LM 2017, 'HVOF- and HVOF-Sprayed  $\text{Cr}_3\text{C}_2$ -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*, vol. 26, no. 7, pp. 1720-1731. <https://doi.org/10.1007/s11666-017-0621-y>

Sarjas, H, Surzhenkov, A, Juhani, K, Antonov, M, Adoberg, E, Kulu, P, Viljus, M, Traksmäa, R, Matikainen, V & Vuoristo, P 2017, 'Abrasive-Erosive Wear of Thermally Sprayed Coatings from Experimental and Commercial  $\text{Cr}_3\text{C}_2$ -Based Powders', *Journal of Thermal Spray Technology*, vol. 26, no. 8, pp. 2020-2029. <https://doi.org/10.1007/s11666-017-0638-2>

Varis, T, Suhonen, T, Calonius, O, Čuban, J & Pietola, M 2016, 'Optimization of HVOF  $\text{Cr}_3\text{C}_2$ -NiCr coating for increased fatigue performance', *Surface and Coatings Technology*, vol. 305, pp. 123-131. <https://doi.org/10.1016/j.surfcoat.2016.08.012>

Poikelispää, M, Shakun, A, Das, A & Vuorinen, J 2016, 'Improvement of actuation performance of dielectric elastomers by barium titanate and carbon black fillers', *Journal of Applied Polymer Science*, vol. 133, no. 42, 44116. <https://doi.org/10.1002/app.44116>

Lindgren, M, Siljander, S, Suihkonen, R, Pohjanne, P & Vuorinen, J 2016, 'Erosion-corrosion resistance of various stainless steel grades in high-temperature sulfuric acid solution', *Wear*, vol. 364-365, pp. 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 2016, 'Photocatalytic and antibacterial properties of ZnO films with different surface topographies on stainless steel substrate', *Thin Solid Films*, vol. 616, pp. 842-849. <https://doi.org/10.1016/j.tsf.2016.10.002>

Robison, AD, Sun, S, Poyton, MF, Johnson, GA, Pellois, JP, Jungwirth, P, Vazdar, M & Cremer, PS 2016, 'Polyarginine Interacts More Strongly and Cooperatively than Polylysine with Phospholipid Bilayers', *Journal of Physical Chemistry Part B*, vol. 120, no. 35, pp. 9287-9296. <https://doi.org/10.1021/acs.jpcc.6b05604>

Lindgren, M, Santa-aho, S & Vippola, M 2016, 'Barkhausen noise response of three different welded duplex stainless steels', *Insight*, vol. 58, no. 9, pp. 480-486. <https://doi.org/10.1784/insi.2016.58.9.480>

Mylläri, V, Hartikainen, S, Poliakova, V, Anderson, R, Jönkkäri, I, Pasanen, P, Andersson, M & Vuorinen, J 2016, 'Detergent impurity effect on recycled HDPE: Properties after repetitive processing', *Journal of Applied Polymer Science*, vol. 133, no. 31, 43766. <https://doi.org/10.1002/app.43766>

Kapgate, BP, Das, C, Das, A, Basu, D, Wiessner, S, Reuter, U & Heinrich, G 2016, 'Reinforced chloroprene rubber by in situ generated silica particles: Evidence of bound rubber on the silica surface', *Journal of Applied Polymer Science*, vol. 133, no. 30, 43717. <https://doi.org/10.1002/app.43717>

Alekseev, A, Ihalainen, P, Ivanov, A, Domnin, I, Klechkovskaya, V, Orekhov, A, Lemmetyinen, H, Vuorimaa-Laukkanen, E, Peltonen, J & Vyaz'min, S 2016, 'The red, purple and blue modifications of polymeric unsymmetrical hydroxyalkadiynyl-N-arylcabamate derivatives in Langmuir-Schaefer films', *Thin Solid Films*, vol. 612, pp. 463-471. <https://doi.org/10.1016/j.tsf.2016.06.044>

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

Bolelli, G, Berger, LM, Börner, T, Koivuluoto, H, Matikainen, V, Lusvarghi, L, Lyphout, C, Markocsan, N, Nylén, P, Sassatelli, P, Trache, R & Vuoristo, P 2016, 'Sliding and abrasive wear behaviour of HVOF- and HVOF-sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr hardmetal coatings', *Wear*, vol. 358-359, pp. 32-50. <https://doi.org/10.1016/j.wear.2016.03.034>

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

Kiilakoski, J, Lindroos, M, Apostol, M, Koivuluoto, H, Kuokkala, V-T & Vuoristo, P 2016, 'Characterization of High-Velocity Single Particle Impacts on Plasma-Sprayed Ceramic Coatings', *Journal of Thermal Spray Technology*, vol. 25, pp. 1127-1137. <https://doi.org/10.1007/s11666-016-0428-2>

Poutanen, M, Ikkala, O & Priimägi, A 2016, 'Structurally Controlled Dynamics in Azobenzene-Based Supramolecular Self-Assemblies in Solid State', *Macromolecules*, vol. 49, no. 11, pp. 4095-4101. <https://doi.org/10.1021/acs.macromol.6b00562>

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

Milanti, A, Matikainen, V, Bolelli, G, Koivuluoto, H, Lusvarghi, L & Vuoristo, P 2016, 'Microstructure and Sliding Wear Behavior of Fe-Based Coatings Manufactured with HVOF and HVOF Thermal Spray Processes', *Journal of Thermal Spray Technology*, vol. 25, no. 5, pp. 1040-1055. <https://doi.org/10.1007/s11666-016-0410-z>

Soltani, I, Hraiech, S, Horchani-Naifer, K, Massera, J, Petit, L & Férid, M 2016, 'Thermal, structural and optical properties of Er<sup>3+</sup> doped phosphate glasses containing silver nanoparticles', *Journal of Non-Crystalline Solids*, vol. 438, pp. 67-73. <https://doi.org/10.1016/j.jnoncrysol.2015.12.022>

Janka, L, Norpoth, J, Trache, R & Berger, LM 2016, '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*, vol. 291, pp. 444-451. <https://doi.org/10.1016/j.surfcoat.2016.02.066>

Kanerva, U, Karhu, M, Lagerbom, J, Kronlöf, A, Honkanen, M, Turunen, E & Laitinen, T 2016, '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*, vol. 56, pp. 69-75. <https://doi.org/10.1016/j.ijrmhm.2015.11.014>

Ma, L, Melander, M, Weckman, T, Lipasti, S, Laasonen, K & Akola, J 2016, 'DFT simulations and microkinetic modelling of 1-pentyne hydrogenation on Cu<sub>2</sub>O model catalysts', *Journal of Molecular Graphics and Modelling*, vol. 65, pp. 61-70. <https://doi.org/10.1016/j.jmkgm.2016.02.007>

Katava, M, Kalimeri, M, Stirnemann, G & Sterpone, F 2016, 'Stability and Function at High Temperature. What Makes a Thermophilic GTPase Different from Its Mesophilic Homologue', *Journal of Physical Chemistry Part B*, vol. 120, no. 10, pp. 2721-2730. <https://doi.org/10.1021/acs.jpccb.6b00306>

Salunke, JK, Wong, FL, Feron, K, Manzhos, S, Lo, MF, Shinde, D, Patil, A, Lee, CS, Roy, VAL, Sonar, P & Wadgaonkar, PP 2016, 'Phenothiazine and carbazole substituted pyrene based electroluminescent organic semiconductors for OLED devices', *Journal of Materials Chemistry C*, vol. 4, no. 5, pp. 1009-1018. <https://doi.org/10.1039/c5tc03690a>

Allolio, C, Baxova, K, Vazdar, M & Jungwirth, P 2016, 'Guanidinium Pairing Facilitates Membrane Translocation', *Journal of Physical Chemistry Part B*, vol. 120, no. 1, pp. 143-153. <https://doi.org/10.1021/acs.jpccb.5b10404>

Kaksonen, AH, Särkijärvi, S, Puhakka, JA, Peuraniemi, E, Junnikkala, S & Tuovinen, OH 2016, 'Chemical and bacterial leaching of metals from a smelter slag in acid solutions', *Hydrometallurgy*, vol. 159, pp. 46-53. <https://doi.org/10.1016/j.hydromet.2015.10.032>

Hupa, L, Fagerlund, S, Massera, J & Björkvik, L 2016, 'Dissolution behavior of the bioactive glass S53P4 when sodium is replaced by potassium, and calcium with magnesium or strontium', *Journal of Non-Crystalline Solids*, pp. 41-46. <https://doi.org/10.1016/j.jnoncrysol.2015.03.026>

Bansod, ND, Kapgate, BP, Das, C, Das, A, Basu, D & Debnath, SC 2016, 'Compatibilization of natural rubber/nitrile rubber blends by sol-gel nano-silica generated by in situ method', *JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY*, vol. 80, no. 2, pp. 548-559. <https://doi.org/10.1007/s10971-016-4114-0>

Tuominen, J, Näkki, J, Pajukoski, H, Hyvärinen, L & Vuoristo, P 2016, 'Microstructural and abrasion wear characteristics of laser-clad tool steel coatings', *Surface Engineering*, vol. 32, no. 12, pp. 923-933. <https://doi.org/10.1080/02670844.2016.1180496>

Akamatsu, N, Aizawa, M, Tatsumi, R, Hisano, K, Priimägi, A & Shishido, A 2016, 'Photoresponsive liquid-crystalline polymer films bilayered with an inverse opal structure', *JOURNAL OF PHOTOPOLYMER SCIENCE AND TECHNOLOGY*, vol. 29, no. 1, pp. 145-148. <https://doi.org/10.2494/photopolymer.29.145>

Auer, S, Koho, T, Uusi-Kerttula, H, Vesikari, T, Blazevic, V & Hytönen, VP 2015, 'Rapid and sensitive detection of norovirus antibodies in human serum with a bilayer interferometry biosensor', *Sensors and Actuators B: Chemical*, vol. 221, pp. 507-514. <https://doi.org/10.1016/j.snb.2015.06.088>

Massera, J, Gaussiran, M, Gluchowski, P, Lastusaari, M, Hupa, L & Petit, L 2015, '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*, vol. 35, no. 14, pp. 3863-3871. <https://doi.org/10.1016/j.jeurceramsoc.2015.06.031>

Le, HH, Parsaker, M, Sriharish, MN, Henning, S, Menzel, M, Wießner, S, Das, A, Do, QK, Heinrich, G & Radosch, HJ 2015, 'Effect of rubber polarity on selective wetting of carbon nanotubes in ternary blends', *Express Polymer Letters*, vol. 9, no. 11, pp. 960-971. <https://doi.org/10.3144/expresspolymlett.2015.87>

Vapaavuori, J, Heikkinen, ITS, Dichiarante, V, Resnati, G, Metrangolo, P, Sabat, RG, Bazuin, CG, Priimägi, A & Pellerin, C 2015, 'Photomechanical Energy Transfer to Photopassive Polymers through Hydrogen and Halogen Bonds', *Macromolecules*, vol. 48, no. 20, pp. 7535-7542. <https://doi.org/10.1021/acs.macromol.5b01813>

Vapaavuori, J, Grosrenaud, J, Pellerin, C & Bazuin, CG 2015, 'In Situ Photocontrol of Block Copolymer Morphology during Dip-Coating of Thin Films', *ACS Macro Letters*, vol. 4, no. 10, pp. 1158-1162. <https://doi.org/10.1021/acsmacrolett.5b00483>

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

Mylläri, V, Fatarella, E, Ruzzante, M, Pogni, R, Baratto, MC, Skrifvars, M, Syrjälä, S & Järvelä, P 2015, 'Production of sulfonated polyetheretherketone/polypropylene fibers for photoactive textiles', *Journal of Applied Polymer Science*, vol. 132, no. 39, 42595. <https://doi.org/10.1002/app.42595>

Mylläri, V, Ruoko, T-P, Vuorinen, J & Lemmetyinen, H 2015, 'Characterization of thermally aged polyetheretherketone fibres: Mechanical, thermal, rheological and chemical property changes', *Polymer Degradation and Stability*, vol. 120, pp. 419-426. <https://doi.org/10.1016/j.polymdegradstab.2015.08.003>

Orlowski, A, Kukkurainen, S, Pöyry, A, Rissanen, S, Vattulainen, I, Hytönen, VP & Róg, T 2015, 'PIP2 and Talin Join Forces to Activate Integrin', *Journal of Physical Chemistry Part B*, vol. 119, no. 38, pp. 12381-12389. <https://doi.org/10.1021/acs.jpcc.5b06457>

Milanti, A, Matikainen, V, Koivuluoto, H, Bolelli, G, Lusvardi, L & Vuoristo, P 2015, 'Effect of spraying parameters on the microstructural and corrosion properties of HVAF-sprayed Fe-Cr-Ni-B-C coatings', *Surface and Coatings Technology*, vol. 277, pp. 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 2015, 'Molecular Design of Light-Responsive Hydrogels, for in Situ Generation of Fast and Reversible Valves for Microfluidic Applications', *Chemistry of Materials*, vol. 27, no. 17, pp. 5925-5931. <https://doi.org/10.1021/acs.chemmater.5b01860>

Tukiainen, A, Likonen, J, Toikkanen, L & Leinonen, T 2015, 'Unintentional boron contamination of MBE-grown GaInP/AlGaInP quantum wells', *Journal of Crystal Growth*, vol. 425, pp. 60-63. <https://doi.org/10.1016/j.jcrysgro.2015.02.048>

Kwolek, U, Kulig, W, Wydro, P, Nowakowska, M, Róg, T & Kepczynski, M 2015, 'Effect of Phosphatidic Acid on Biomembrane: Experimental and Molecular Dynamics Simulations Study', *Journal of Physical Chemistry Part B*, vol. 119, no. 31, pp. 10042-10051. <https://doi.org/10.1021/acs.jpcc.5b03604>

Kanerva, U, Suhonen, T, Lagerbom, J & Levänen, E 2015, 'Evaluation of crushing strength of spray-dried MgAl<sub>2</sub>O<sub>4</sub> granule beds', *Ceramics International*, vol. 41, no. 7, pp. 8494-8500. <https://doi.org/10.1016/j.ceramint.2015.03.056>

Timr, Š, Brabec, J, Bondar, A, Ryba, T, Železný, M, Lazar, J & Jungwirth, P 2015, 'Nonlinear Optical Properties of Fluorescent Dyes Allow for Accurate Determination of Their Molecular Orientations in Phospholipid Membranes', *Journal of Physical Chemistry Part B*, vol. 119, no. 30, pp. 9706-9716. <https://doi.org/10.1021/acs.jpcc.5b05123>

Rahaman, O, Kalimeri, M, Melchionna, S, Hénin, J & Sterpone, F 2015, 'Role of Internal Water on Protein Thermal Stability: The Case of Homologous G Domains', *Journal of Physical Chemistry Part B*, vol. 119, no. 29, pp. 8939-8949. <https://doi.org/10.1021/jp507571u>

Isoniemi, T, Tuukkanen, S, Cameron, DC, Simonen, J & Toppari, JJ 2015, 'Measuring optical anisotropy in poly(3,4-ethylene dioxythiophene): poly(styrene sulfonate) films with added graphene', *Organic Electronics*, vol. 25, pp. 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 2015, 'A comparison of rheology and FTIR in the study of polypropylene and polystyrene photodegradation', *Journal of Applied Polymer Science*, vol. 132, no. 28, 42246. <https://doi.org/10.1002/app.42246>

Abou-Chahine, F, Fujii, D, Imahori, H, Nakano, H, Tkachenko, NV, Matano, Y & Lemmetyinen, H 2015, 'Synthesis and Photophysical Properties of Two Diazaporphyrin-Porphyrin Hetero Dimers in Polar and Nonpolar Solutions', *Journal of Physical Chemistry Part B*, vol. 119, no. 24, pp. 7328-7337. <https://doi.org/10.1021/jp510903a>

Salpavaara, T, Järveläinen, M, Seppälä, S, Yli-Hallila, T, Verho, J, Vilkkö, M, Lekkala, J & Levänen, E 2015, 'Passive resonance sensor based method for monitoring particle suspensions', *Sensors and Actuators B: Chemical*, vol. 219, pp. 324-330. <https://doi.org/10.1016/j.snb.2015.04.121>

Dzieciuch, M, Rissanen, S, Szydłowska, N, Bunker, A, Kumorek, M, Jamróz, D, Vattulainen, I, Nowakowska, M, Róg, T & Kepczynski, M 2015, 'PEGylated liposomes as carriers of hydrophobic porphyrins', *Journal of Physical Chemistry Part B*, vol. 119, no. 22, pp. 6646-6657. <https://doi.org/10.1021/acs.jpcc.5b01351>

Manea, LR, Cramariuc, B, Popescu, V, Cramariuc, R, Sandu, I & Cramariuc, O 2015, 'Equipment for obtaining polymeric nanofibres by electrospinning technology: II. The obtaining of polymeric nanofibers', *Materiale Plastice*, vol. 52, no. 2, pp. 180-185.

Hladílková, J, Fischer, HE, Jungwirth, P & Mason, PE 2015, 'Hydration of hydroxyl and amino groups examined by molecular dynamics and neutron scattering', *Journal of Physical Chemistry Part B*, vol. 119, no. 21, pp. 6357-6365. <https://doi.org/10.1021/jp510528u>

Song, X, Liu, Z, Suhonen, T, Varis, T, Huang, L, Zheng, X & Zeng, Y 2015, 'Effect of melting state on the thermal shock resistance and thermal conductivity of APS ZrO<sub>2</sub>-7.5wt.% Y<sub>2</sub>O<sub>3</sub> coatings', *Surface and Coatings Technology*, vol. 270, pp. 132-138. <https://doi.org/10.1016/j.surfcoat.2015.03.011>

Lindroos, M, Ratia, V, Apostol, M, Valtonen, K, Laukkanen, A, Molnar, W, Holmberg, K & Kuokkala, VT 2015, 'The effect of impact conditions on the wear and deformation behavior of wear resistant steels', *Wear*, vol. 328-329, pp. 197-205. <https://doi.org/10.1016/j.wear.2015.02.032>

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

Karilainen, T, Timr, Š, Vattulainen, I & Jungwirth, P 2015, 'Oxidation of cholesterol does not alter significantly its uptake into high-density lipoprotein particles', *Journal of Physical Chemistry Part B*, vol. 119, no. 13, pp. 4594-4600. <https://doi.org/10.1021/acs.jpcc.5b00240>

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

Isotahdon, E, Huttunen-Saarivirta, E, Heinonen, S, Kuokkala, VT & Paju, M 2015, 'Corrosion mechanisms of sintered Nd-Fe-B magnets in the presence of water as vapour, pressurised vapour and liquid', *Journal of Alloys and Compounds*, vol. 626, pp. 349-359. <https://doi.org/10.1016/j.jallcom.2014.12.048>

Bolelli, G, Berger, LM, Börner, T, Koivuluoto, H, Lusvarghi, L, Lyphout, C, Markocsan, N, Matikainen, V, Nylén, P, Sassatelli, P, Trache, R & Vuoristo, P 2015, 'Tribology of HVOF- and HVOF-sprayed WC-10Co4Cr hardmetal coatings: A comparative assessment', *Surface and Coatings Technology*, vol. 265, pp. 125-144. <https://doi.org/10.1016/j.surfcoat.2015.01.048>

Varis, T, Bankiewicz, D, Yrjas, P, Oksa, M, Suhonen, T, Tuurna, S, Ruusuvoori, K & Holmström, S 2015, 'High temperature corrosion of thermally sprayed NiCr and FeCr coatings covered with a KCl-K<sub>2</sub>SO<sub>4</sub> salt mixture', *Surface and Coatings Technology*, vol. 265, pp. 235-243. <https://doi.org/10.1016/j.surfcoat.2014.11.012>

Eshwaran, SB, Basu, D, Vaikuntam, SR, Kutlu, B, Wiessner, S, Das, A, Naskar, K & Heinrich, G 2015, 'Exploring the role of stearic acid in modified zinc aluminum layered double hydroxides and their acrylonitrile butadiene rubber nanocomposites', *Journal of Applied Polymer Science*, vol. 132, no. 9, 41539. <https://doi.org/10.1002/app.41539>

Shin, J, Cherstvy, AG & Metzler, R 2015, 'Polymer looping is controlled by macromolecular crowding, spatial confinement, and chain stiffness', *ACS Macro Letters*, vol. 4, no. 2, pp. 202-206. <https://doi.org/10.1021/mz500709w>

Fatarelle, E, Mylläri, V, Ruzzante, M, Pogni, R, Baratto, MC, Skrifvars, M, Syrjälä, S & Järvelä, P 2015, 'Sulfonated polyetheretherketone/polypropylene polymer blends for the production of photoactive materials', *Journal of Applied Polymer Science*, vol. 132, no. 8, 41509. <https://doi.org/10.1002/app.41509>

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

Yi, H, Albrecht, M, Valkonen, A & Rissanen, K 2015, 'Perfluoro-1,1'-biphenyl and perfluoronaphthalene and their derivatives as  $\pi$ -acceptors for anions', *New Journal of Chemistry*, vol. 39, no. 1, pp. 746-749. <https://doi.org/10.1039/c4nj01654h>

Heiskanen, JP, Manninen, VM, Pankov, D, Omar, WAE, Kastinen, T, Hukka, TI, Lemmetyinen, HJ & Hormi, OEO 2015, 'Aryl end-capped quaterthiophenes applied as anode interfacial layers in inverted organic solar cells', *Thin Solid Films*, vol. 574, pp. 196-206. <https://doi.org/10.1016/j.tsf.2014.12.007>

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

Niittymäki, M, Lahti, K, Suhonen, T & Metsäjoki, J 2015, 'Dielectric Breakdown Strength of Thermally Sprayed Ceramic Coatings: Effects of Different Test Arrangements', *Journal of Thermal Spray Technology*, vol. 24, no. 3, pp. 542-551. <https://doi.org/10.1007/s11666-014-0211-1>

Ojuva, A, Järveläinen, M, Bauer, M, Keskinen, L, Valkonen, M, Akhtar, F, Levänen, E & Bergström, L 2015, 'Mechanical performance and CO<sub>2</sub> uptake of ion-exchanged zeolite A structured by freeze-casting', *Journal of the European Ceramic Society*, vol. 35, no. 9, pp. 2607-2618. <https://doi.org/10.1016/j.jeurceramsoc.2015.03.001>

Milanti, A, Koivuluoto, H & Vuoristo, P 2015, 'Influence of the Spray Gun Type on Microstructure and Properties of HVOF Sprayed Fe-Based Corrosion Resistant Coatings', *Journal of Thermal Spray Technology*, vol. 24, no. 7, pp. 1312-1322. <https://doi.org/10.1007/s11666-015-0298-z>

Palivec, V, Pluharová, E, Unger, I, Winter, B & Jungwirth, P 2014, 'DNA lesion can facilitate base ionization: Vertical ionization energies of aqueous 8-oxoguanine and its nucleoside and nucleotide', *Journal of Physical Chemistry Part B*, vol. 118, no. 48, pp. 13833-13837. <https://doi.org/10.1021/jp5111086>

Basu, D, Das, A, Jacobgeorge, J, Wang, DY, Stöckelhuber, K, Wagenknecht, U, Leuteritz, A, Kutlu, B, Reuter, U & Heinrich, G 2014, 'Unmodified LDH as reinforcing filler for XNBR and the development of flame-retardant elastomer composites', *Rubber Chemistry and Technology*, vol. 87, no. 4, pp. 606-616. <https://doi.org/10.5254/rct.14.86920>

Song, X, Suhonen, T, Varis, T, Huang, L, Zheng, X & Zeng, Y 2014, 'Fabrication and Characterization of Amorphous Alumina-Yttria-Stabilized Zirconia Coatings by Air Plasma Spraying', *Journal of Thermal Spray Technology*, vol. 23, no. 8, pp. 1302-1311. <https://doi.org/10.1007/s11666-014-0124-z>

Tawade, BV, Salunke, JK, Sane, PS & Wadgaonkar, PP 2014, 'Processable aromatic polyesters based on bisphenol derived from cashew nut shell liquid: synthesis and characterization', *JOURNAL OF POLYMER RESEARCH*, vol. 21, no. 12. <https://doi.org/10.1007/s10965-014-0617-y>

Mohanty, AK, Ghosh, A, Sawai, P, Pareek, K, Banerjee, S, Das, A, Pötschke, P, Heinrich, G & Voit, B 2014, 'Electromagnetic interference shielding effectiveness of MWCNT filled poly(ether sulfone) and poly(ether imide) nanocomposites', *Polymer Engineering and Science*, vol. 54, no. 11, pp. 2560-2570. <https://doi.org/10.1002/pen.23804>

Wang, X, Vapaavuori, J, Zhao, Y & Bazuin, CG 2014, 'A supramolecular approach to photoresponsive thermo/solvoplastic block copolymer elastomers', *Macromolecules*, vol. 47, no. 20, pp. 7099-7108. <https://doi.org/10.1021/ma501278b>

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

Goulet-Hanssens, A, Corkery, TC, Priimagi, A & Barrett, CJ 2014, 'Effect of head group size on the photoswitching applications of azobenzene Disperse Red 1 analogues', *Journal of Materials Chemistry C*, vol. 2, no. 36, pp. 7505-7512. <https://doi.org/10.1039/c4tc00996g>

Priimagi, A, Barrett, CJ & Shishido, A 2014, 'Recent twists in photoactuation and photoalignment control', *Journal of Materials Chemistry C*, vol. 2, no. 35, pp. 7155-7162. <https://doi.org/10.1039/c4tc01236d>

Ojala, N, Valtonen, K, Heino, V, Kallio, M, Aaltonen, J, Siitonen, P & Kuokkala, VT 2014, 'Effects of composition and microstructure on the abrasive wear performance of quenched wear resistant steels', *Wear*, vol. 317, no. 1-2, pp. 225-232. <https://doi.org/10.1016/j.wear.2014.06.003>

Kapgate, BP, Das, C, Basu, D, Das, A, Heinrich, G & Reuter, U 2014, 'Effect of silane integrated sol-gel derived in situ silica on the properties of nitrile rubber', *Journal of Applied Polymer Science*, vol. 131, no. 15, 40531. <https://doi.org/10.1002/app.40531>

Oksa, M, Varis, T & Ruusuvaori, K 2014, 'Performance testing of iron based thermally sprayed HVOF coatings in a biomass-fired fluidised bed boiler', *Surface and Coatings Technology*, vol. 251, pp. 191-200. <https://doi.org/10.1016/j.surfcoat.2014.04.025>

Kohagen, M, Mason, PE & Jungwirth, P 2014, 'Accurate description of calcium solvation in concentrated aqueous solutions', *Journal of Physical Chemistry Part B*, vol. 118, no. 28, pp. 7902-7909. <https://doi.org/10.1021/jp5005693>

Werner, J, Wernersson, E, Ekholm, V, Ottosson, N, Öhrwall, G, Heyda, J, Persson, I, Söderström, J, Jungwirth, P & Björneholm, O 2014, 'Surface behavior of hydrated guanidinium and ammonium ions: A comparative study by photoelectron spectroscopy and molecular dynamics', *Journal of Physical Chemistry Part B*, vol. 118, no. 25, pp. 7119-7127. <https://doi.org/10.1021/jp500867w>

Mahmood, N, Khan, AU, Stöckelhuber, KW, Das, A, Jehnichen, D & Heinrich, G 2014, 'Carbon nanotubes-filled thermoplastic polyurethane-urea and carboxylated acrylonitrile butadiene rubber blend nanocomposites', *Journal of Applied Polymer Science*, vol. 131, no. 11. <https://doi.org/10.1002/app.40341>

Ghabchi, A, Sampath, S, Holmberg, K & Varis, T 2014, 'Damage mechanisms and cracking behavior of thermal sprayed WC-CoCr coating under scratch testing', *Wear*, vol. 313, no. 1-2, pp. 97-105. <https://doi.org/10.1016/j.wear.2014.02.017>

Kuzmin, MG, Soboleva, IV, Durandin, NA, Lisitsyna, ES & Kuzmin, VA 2014, 'Microphase mechanism of "superquenching" of luminescent probes in aqueous solutions of DNA and some other polyelectrolytes', *Journal of Physical Chemistry Part B*, vol. 118, no. 15, pp. 4245-4252. <https://doi.org/10.1021/jp500713q>

Priimagi, A & Shevchenko, A 2014, 'Azopolymer-based micro- and nanopatterning for photonic applications', *Journal of Polymer Science. Part B, Polymer Physics*, vol. 52, no. 3, pp. 163-182. <https://doi.org/10.1002/polb.23390>

Kulig, W & Agmon, N 2014, '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*, vol. 118, no. 1, pp. 278-286. <https://doi.org/10.1021/jp410446d>

Eshwaran, SB, Basu, D, Kutlu, B, Leuteritz, A, Wagenknecht, U, Stöckelhuber, KW, Naskar, K, Das, A & Heinrich, G 2014, 'Stearate Modified Zinc-Aluminum Layered Double Hydroxides and Acrylonitrile Butadiene Rubber Nanocomposites', *Polymer-Plastics Technology and Engineering*, vol. 53, no. 1, pp. 65-73. <https://doi.org/10.1080/03602559.2013.843690>

Mylläri, V, Ruoko, TP & Järvelä, P 2014, 'The effects of UV irradiation to polyetheretherketone fibres: Characterization by different techniques', *Polymer Degradation and Stability*, vol. 109, pp. 278-284. <https://doi.org/10.1016/j.polyimdegradstab.2014.08.003>

Le, HH, Parsekar, M, Ilisch, S, Henning, S, Das, A, Stöckelhuber, KW, Beiner, M, Ho, CA, Adhikari, R, Wießner, S, Heinrich, G & Radusch, HJ 2014, 'Effect of non-rubber components of NR on the carbon nanotube (CNT) localization in SBR/NR blends', *Macromolecular Materials and Engineering*, vol. 299, no. 5, pp. 569-582. <https://doi.org/10.1002/mame.201300254>

Cummins, C, Borah, D, Rasappa, S, Chaudhari, A, Ghoshal, T, O'Driscoll, BMD, Carolan, P, Petkov, N, Holmes, JD & Morris, MA 2013, 'Self-assembly of polystyrene-block-poly(4-vinylpyridine) block copolymer on molecularly functionalized silicon substrates: Fabrication of inorganic nanostructured etchmask for lithographic use', *Journal of Materials Chemistry C*, vol. 1, no. 47, pp. 7941-7951. <https://doi.org/10.1039/c3tc31498g>

German, SJ, Behbahani, M, Miettinen, S, Grijpma, DW & Haimi, SP 2013, 'Proliferation and differentiation of adipose stem cells towards smooth muscle cells on poly(trimethylene carbonate) membranes', *Macromolecular symposia*, vol. 334, no. 1, pp. 133-142. <https://doi.org/10.1002/masy.201300100>

Diban, N, Haimi, SP, Bolhuis-Versteeg, L, Teixeira, S, Miettinen, S, Poot, AA, Grijpma, DW & Stamatialis, D 2013, 'Effect of surface morphology of poly( $\epsilon$ -caprolactone) scaffolds on adipose stem cell adhesion and proliferation', *Macromolecular symposia*, vol. 334, no. 1, pp. 126-132. <https://doi.org/10.1002/masy.201300106>

Gebraad, AWH, Miettinen, S, Grijpma, DW & Haimi, SP 2013, 'Human adipose stem cells in chondrogenic differentiation medium without growth factors differentiate towards annulus fibrosus phenotype in vitro', *Macromolecular symposia*, vol. 334, no. 1, pp. 49-56. <https://doi.org/10.1002/masy.201300104>

Hladilkova, J, Prokop, Z, Chaloupkova, R, Damborsky, J & Jungwirth, P 2013, 'Release of halide ions from the buried active site of the haloalkane dehalogenase LinB revealed by stopped-flow fluorescence analysis and free energy calculations', *Journal of Physical Chemistry Part B*, vol. 117, no. 46, pp. 14329-14335. <https://doi.org/10.1021/jp409040u>

Kalimeri, M, Rahaman, O, Melchionna, S & Sterpone, F 2013, 'How conformational flexibility stabilizes the hyperthermophilic elongation factor G-domain', *Journal of Physical Chemistry Part B*, vol. 117, no. 44, pp. 13775-13785. <https://doi.org/10.1021/jp407078z>

Khan, MN, Tjong, V, Chilkoti, A & Zharnikov, M 2013, 'Spectroscopic study of a DNA brush synthesized in situ by surface initiated enzymatic polymerization', *Journal of Physical Chemistry Part B*, vol. 117, no. 34, pp. 9929-9938. <https://doi.org/10.1021/jp404774x>

Paterová, J, Rembert, KB, Heyda, J, Kurra, Y, Okur, HI, Liu, WR, Hilty, C, Cremer, PS & Jungwirth, P 2013, 'Reversal of the Hofmeister series: Specific ion effects on peptides', *Journal of Physical Chemistry Part B*, vol. 117, no. 27, pp. 8150-8158. <https://doi.org/10.1021/jp405683s>

Štěpánková, V, Paterová, J, Damborský, J, Jungwirth, P, Chaloupková, R & Heyda, J 2013, 'Cation-specific effects on enzymatic catalysis driven by interactions at the tunnel mouth', *Journal of Physical Chemistry Part B*, vol. 117, no. 21, pp. 6394-6402. <https://doi.org/10.1021/jp401506v>

Tan, M, Feng, Y, Wang, H, Zhang, L, Khan, M, Guo, J, Chen, Q & Liu, J 2013, 'Immobilized bioactive agents onto polyurethane surface with heparin and phosphorylcholine group', *Macromolecular Research*, vol. 21, no. 5, pp. 541-549. <https://doi.org/10.1007/s13233-013-1028-3>



Vapaavuori, J, Mahimwalla, Z, Chromik, RR, Kaivola, M, Priimagi, A & Barrett, CJ 2013, 'Nanoindentation study of light-induced softening of supramolecular and covalently functionalized azo polymers', *Journal of Materials Chemistry C*, vol. 1, no. 16, pp. 2806-2810. <https://doi.org/10.1039/c3tc30246f>

Pale, V, Nikkonen, T, Vapaavuori, J, Kostianen, M, Kavakka, J, Selin, J, Tittonen, I & Helaja, J 2013, 'Biomimetic zinc chlorin-poly(4-vinylpyridine) assemblies: Doping level dependent emission-absorption regimes', *Journal of Materials Chemistry C*, vol. 1, no. 11, pp. 2166-2173. <https://doi.org/10.1039/c3tc00499f>

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

Vazdar, M, Jungwirth, P & Mason, PE 2013, 'Aqueous guanidinium-carbonate interactions by molecular dynamics and neutron scattering: Relevance to ion-protein interactions', *Journal of Physical Chemistry Part B*, vol. 117, no. 6, pp. 1844-1848. <https://doi.org/10.1021/jp310719g>

Debnath, SC, Das, A, Basu, D & Heinrich, G 2013, 'Naturally occurring amino acids: A suitable substitute of N-N'-diphenyl guanidine (DPG) in silica tyre formulation?', *KGK: KAUTSCHUK GUMMI KUNSTSTOFFE*, vol. 66, no. 1-2, pp. 25-31.

Subramaniam, K, Das, A, Stöckelhuber, KW & Heinrich, G 2013, 'Elastomer composites based on carbon nanotubes and ionic liquid', *Rubber Chemistry and Technology*, vol. 86, no. 3, pp. 367-400. <https://doi.org/10.5254/rct.13.86984>

Pluhařová, E, Ončák, M, Seidel, R, Schroeder, C, Schroeder, W, Winter, B, Bradforth, SE, Jungwirth, P & Slaviček, P 2012, 'Transforming anion instability into stability: Contrasting photoionization of three protonation forms of the phosphate ion upon moving into water', *Journal of Physical Chemistry Part B*, vol. 116, no. 44, pp. 13254-13264. <https://doi.org/10.1021/jp306348b>

Rasappa, S, Borah, D, Senthamarakannan, R, Faulkner, CC, Shaw, MT, Gleeson, P, Holmes, JD & Morris, MA 2012, 'Block copolymer lithography: Feature size control and extension by an over-etch technique', *Thin Solid Films*, vol. 522, pp. 318-323. <https://doi.org/10.1016/j.tsf.2012.09.017>

Steinhauser, D, Subramaniam, K, Das, A, Heinrich, G & Klüppel, M 2012, 'Influence of ionic liquids on the dielectric relaxation behavior of CNT based elastomer nanocomposites', *Express Polymer Letters*, vol. 6, no. 11, pp. 927-936. <https://doi.org/10.3144/expresspolymlett.2012.98>

Mahimwalla, Z, Yager, KG, Mamiya, JI, Shishido, A, Priimagi, A & Barrett, CJ 2012, 'Azobenzene photomechanics: Prospects and potential applications', *Polymer Bulletin*, vol. 69, no. 8, pp. 967-1006. <https://doi.org/10.1007/s00289-012-0792-0>

Gao, W, Feng, Y, Lu, J, Khan, M & Guo, J 2012, 'Biomimetic surface modification of polycarbonateurethane film via phosphorylcholine-graft for resisting platelet adhesion', *Macromolecular Research*, vol. 20, no. 10, pp. 1063-1069. <https://doi.org/10.1007/s13233-012-0152-9>

Kapgate, BP, Das, C, Das, A, Basu, D, Reuter, U & Heinrich, G 2012, 'Effect of sol-gel derived in situ silica on the morphology and mechanical behavior of natural rubber and acrylonitrile butadiene rubber blends', *JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY*, vol. 63, no. 3, pp. 501-509. <https://doi.org/10.1007/s10971-012-2812-9>

Vikholm-Lundin, I, Auer, S, Paakkunainen, M, Määttä, JAE, Munter, T, Leppiniemi, J, Hytönen, VP & Tappura, K 2012, 'Cysteine-tagged chimeric avidin forms high binding capacity layers directly on gold', *Sensors and Actuators B: Chemical*, vol. 171-172, pp. 440-448. <https://doi.org/10.1016/j.snb.2012.05.008>

Mason, PE, Wernersson, E & Jungwirth, P 2012, 'Accurate description of aqueous carbonate ions: An effective polarization model verified by neutron scattering', *Journal of Physical Chemistry Part B*, vol. 116, no. 28, pp. 8145-8153. <https://doi.org/10.1021/jp3008267>

Subramaniam, K, Das, A & Heinrich, G 2012, 'Highly conducting polychloroprene composites based on multi-walled carbon nanotubes and 1-butyl 3-methyl imidazolium bis(trifluoromethylsulphonyl)imide', *KGK: KAUTSCHUK GUMMI KUNSTSTOFFE*, vol. 65, no. 7-8, pp. 44-46.

Vazdar, M, Jurkiewicz, P, Hof, M, Jungwirth, P & Cwiklik, L 2012, 'Behavior of 4-hydroxynonenal in phospholipid membranes', *Journal of Physical Chemistry Part B*, vol. 116, no. 22, pp. 6411-6415. <https://doi.org/10.1021/jp3044219>

Subramaniam, K, Das, A, Häußler, L, Harnisch, C, Stöckelhuber, KW & Heinrich, G 2012, 'Enhanced thermal stability of polychloroprene rubber composites with ionic liquid modified MWCNTs', *Polymer Degradation and Stability*, vol. 97, no. 5, pp. 776-785. <https://doi.org/10.1016/j.polymdegradstab.2012.02.001>

Rooj, S, Das, A, Stöckelhuber, KW, Reuter, U & Heinrich, G 2012, 'Highly exfoliated natural rubber/Clay composites by "propping-open procedure": The influence of fatty-acid chain length on exfoliation', *Macromolecular Materials and Engineering*, vol. 297, no. 4, pp. 369-383. <https://doi.org/10.1002/mame.201100185>

Das, A, George, JJ, Kutlu, B, Leuteritz, A, Wang, DY, Rooj, S, Jurk, R, Rajeshbabu, R, Stöckelhuber, KW, Galiatsatos, V & Heinrich, G 2012, 'A novel thermotropic elastomer based on highly-filled LDH-SSB composites', *Macromolecular Rapid Communications*, vol. 33, no. 4, pp. 337-342. <https://doi.org/10.1002/marc.201100735>

Massera, J, Fagerlund, S, Hupa, L & Hupa, M 2012, 'Crystallization mechanism of the bioactive glasses, 45S5 and S53P4', *JOURNAL OF THE AMERICAN CERAMIC SOCIETY*, vol. 95, no. 2, pp. 607-613. <https://doi.org/10.1111/j.1551-2916.2011.05012.x>

Heikkinen, JJ, Kivimäki, L, Hytönen, VP, Kulomaa, MS & Hormi, OEO 2012, 'Printable and flexible macroporous organosilica film with high protein adsorption capacity', *Thin Solid Films*, vol. 520, no. 6, pp. 1934-1937. <https://doi.org/10.1016/j.tsf.2011.09.041>

Priimagi, A, Shimamura, A, Kondo, M, Hiraoka, T, Kubo, S, Mamiya, JI, Kinoshita, M, Ikeda, T & Shishido, A 2012, 'Location of the Azobenzene moieties within the cross-linked liquid-crystalline polymers can dictate the direction of photoinduced bending', *ACS Macro Letters*, vol. 1, no. 1, pp. 96-99. <https://doi.org/10.1021/mz200056w>

Wernersson, E, Heyda, J, Vazdar, M, Lund, M, Mason, PE & Jungwirth, P 2011, 'Orientational dependence of the affinity of guanidinium ions to the water surface', *Journal of Physical Chemistry Part B*, vol. 115, no. 43, pp. 12521-12526. <https://doi.org/10.1021/jp207499s>

Vapaavuori, J, Valtavirta, V, Alasaarela, T, Mamiya, JI, Priimagi, A, Shishido, A & Kaivola, M 2011, 'Efficient surface structuring and photoalignment of supramolecular polymer-azobenzene complexes through rational chromophore design', *Journal of Materials Chemistry*, vol. 21, no. 39, pp. 15437-15441. <https://doi.org/10.1039/c1jm12642c>

Sorianello, V, Colace, L, Nardone, M & Assanto, G 2011, 'Thermally evaporated single-crystal Germanium on Silicon', *Thin Solid Films*, vol. 519, no. 22, pp. 8037-8040. <https://doi.org/10.1016/j.tsf.2011.06.023>

Giammarco, J, Zdyrko, B, Petit, L, Musgraves, JD, Hu, J, Agarwal, A, Kimerling, L, Richardson, K & Luzinov, I 2011, 'Towards universal enrichment nanocoating for IR-ATR waveguides', *Chemical Communications*, vol. 47, no. 32, pp. 9104-9106. <https://doi.org/10.1039/c1cc12780b>

Vikholm-Lundin, I, Auer, S & Hellgren, AC 2011, 'Detection of 3,4-methylenedioxymethamphetamine (MDMA, ecstasy) by displacement of antibodies', *Sensors and Actuators B: Chemical*, vol. 156, no. 1, pp. 28-34. <https://doi.org/10.1016/j.snb.2011.03.069>

Heyda, J, Kožíšek, M, Bednárova, L, Thompson, G, Konvalinka, J, Vondrášek, J & Jungwirth, P 2011, 'Urea and guanidinium induced denaturation of a Trp-cage miniprotein', *Journal of Physical Chemistry Part B*, vol. 115, no. 28, pp. 8910-8924. <https://doi.org/10.1021/jp200790h>

- Zorzi, GK, Párraga, JE, Seijo, B & Sánchez, A 2011, 'Hybrid nanoparticle design based on cationized gelatin and the polyanions dextran sulfate and chondroitin sulfate for ocular gene therapy', *MACROMOLECULAR BIOSCIENCE*, vol. 11, no. 7, pp. 905-913. <https://doi.org/10.1002/mabi.201100005>
- Tuurna, S, Varis, T, Penttilä, K, Ruusuvoori, K, Holmström, S & Yli-Olli, S 2011, 'Optimised selection of new protective coatings for biofuel boiler applications', *Materials and Corrosion-Werkstoffe und Korrosion*, vol. 62, no. 7, pp. 642-649. <https://doi.org/10.1002/maco.201005898>
- Das, A, Wang, DY, Leuteritz, A, Subramaniam, K, Greenwell, HC, Wagenknecht, U & Heinrich, G 2011, 'Preparation of zinc oxide free, transparent rubber nanocomposites using a layered double hydroxide filler', *Journal of Materials Chemistry*, vol. 21, no. 20, pp. 7194-7200. <https://doi.org/10.1039/c0jm03784b>
- Takahashi, H, Maruyama, K, Karino, Y, Morita, A, Nakano, M, Jungwirth, P & Matubayasi, N 2011, 'Energetic origin of proton affinity to the air/water interface', *Journal of Physical Chemistry Part B*, vol. 115, no. 16, pp. 4745-4751. <https://doi.org/10.1021/jp2015676>
- Rooj, S, Das, A & Heinrich, G 2011, 'Preintercalation of an organic accelerator into nanogalleries and preparation of ethylene propylene diene terpolymer rubber-clay nanocomposites', *POLYMER JOURNAL*, vol. 43, no. 3, pp. 285-292. <https://doi.org/10.1038/pj.2010.132>
- Pluhařová, E, Jungwirth, P, Bradforth, SE & Slaviček, P 2011, 'Ionization of purine tautomers in nucleobases, nucleosides, and nucleotides: From the gas phase to the aqueous environment', *Journal of Physical Chemistry Part B*, vol. 115, no. 5, pp. 1294-1305. <https://doi.org/10.1021/jp110388v>
- Koivusaari, KJ, Rantala, TT & Leppävuori, S 2000, 'Calculated electronic density of states and structural properties of tetrahedral amorphous carbon', *Diamond and Related Materials*, vol. 9, no. 3, pp. 736-740. [https://doi.org/10.1016/S0925-9635\(99\)00286-1](https://doi.org/10.1016/S0925-9635(99)00286-1)
- Rantala, TT, Rosén, A & Helsing, B 1986, 'A Finite Cluster Approach to the Electron-Hole Pair Damping of the Adsorbate Vibration: CO Adsorbed on Cu(100)', *Studies in Surface Science and Catalysis*, vol. 26, no. C, pp. 173-181. [https://doi.org/10.1016/S0167-2991\(09\)61238-6](https://doi.org/10.1016/S0167-2991(09)61238-6)
- Palola, S, Vuorinen, J, Noordermeer, JWM & Sarlin, E 2020, 'Development in additive methods in aramid fiber surface modification to increase fiber-matrix adhesion: A review', *Coatings*, vol. 10, no. 6, 556. <https://doi.org/10.3390/COATINGS10060556>
- Vapaavuori, J, Bazuin, CG & Priimagi, A 2018, 'Supramolecular design principles for efficient photoresponsive polymer-azobenzene complexes', *Journal of Materials Chemistry C*, vol. 6, no. 9, pp. 2168-2188. <https://doi.org/10.1039/c7tc05005d>
- Stumpel, JE, Broer, DJ & Schenning, APHJ 2014, 'Stimuli-responsive photonic polymer coatings', *Chemical Communications*, vol. 50, no. 100, pp. 15839-15848. <https://doi.org/10.1039/c4cc05072j>
- Varis, T, Suhonen, T, Ghabchi, A, Valarezo, A, Sampath, S, Liu, X & Hannula, SP 2014, 'Formation mechanisms, structure, and properties of HVOF-sprayed WC-CoCr coatings: An approach toward process maps', *Journal of Thermal Spray Technology*, vol. 23, no. 6, pp. 1009-1018. <https://doi.org/10.1007/s11666-014-0110-5>
- Thomann, O, Pihlatie, M, Rautanen, M, Himanen, O, Lagerbom, J, Mäkinen, M, Varis, T, Suhonen, T & Kiviaho, J 2013, 'Development and application of HVOF sprayed spinel protective coating for SOFC interconnects', *Journal of Thermal Spray Technology*, vol. 22, no. 5, pp. 631-639. <https://doi.org/10.1007/s11666-012-9880-9>
- Oksa, M, Tuurna, S & Varis, T 2013, '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*, vol. 22, no. 5, pp. 783-796. <https://doi.org/10.1007/s11666-013-9928-5>

Vuoristo, P, Varis, T, Meschini, D, Bolelli, G & Lusvarghi, L 2019, Corrosion properties of thermally sprayed bond coatings under plasma sprayed chromia coating in sulfuric acid solutions. in F Azarmi, Y Lau, J Veilleux, C Widener, F Toma, H Koivuluoto, K Balani, H Li & K Shinoda (eds), *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, pp. 923-930, International Thermal Spray Conference, 1/01/00.

Suokas, E & Kuusipalo, J 2018, 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, pp. 151-159, TAPPI Advanced Coating Fundamentals Symposium, 1/01/00.

Jarnstrom, L, Johansson, K, Kuusipalo, J & Jonsson, L 2016, Active packaging by paper coating. in *14th TAPPI Advanced Coating Symposium 2016*. TAPPI Press, pp. 88-92, 14th TAPPI Advanced Coating Symposium 2016, Stockholm, Sweden, 4/10/16.

Lahti, J, Lavonen, J, Lahtinen, K, Johansson, P, Seppänen, T & Cameron, DC 2016, 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, pp. 684-706, TAPPI International Conference on Nanotechnology for Renewable Materials, 1/01/00.

Stepien, M, Chinga-Carrasco, G, Saarinen, JJ, Teisala, H, Tuominen, M, Haapanen, J, Kuusipalo, J, Mäkelä, JM & Toivakka, M 2014, Abrasion and compression resistance of liquid-flame-spray-deposited functional nanoparticle coatings on paper. in *13th TAPPI Advanced Coating Fundamentals Symposium 2014*. TAPPI Press, pp. 68-82, TAPPI Advanced Coating Fundamentals Symposium, 1/01/00.

Ghabchi, A, Varis, T, Holmberg, K & Sampath, S 2012, 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, pp. 465-471, International Thermal Spray Conference and Exposition - Air, Land, Water and the Human Body: Thermal Spray Science and Applications, ITSC 2012, Houston, TX, United States, 21/05/12.

Lagerbom, J, Ritvonen, T, Suhonen, T & Varis, T 2011, 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), European International Powder Metallurgy Congress and Exhibition, Euro PM 2011, Barcelona, Spain, 9/10/11.

Morandi, A, Ainslie, MD, Grilli, F & Stenvall, A 2017, 'The 5th international workshop on numerical modelling of high temperature superconductors', *Superconductor Science and Technology*, vol. 30, no. 8, 080201. <https://doi.org/10.1088/1361-6668/aa7676>

Mäkinen, J, Vehanen, A, Hautojärvi, P, Huomo, H, Lahtinen, J, Nieminen, RM & Valkealahti, S 1986, 'Vacancy-type defect distributions near argon sputtered Al(100) surface studied by variable-energy positrons and molecular dynamics simulations', *Surface Science*, vol. 175, no. 2, pp. 385-414. [https://doi.org/10.1016/0039-6028\(86\)90242-6](https://doi.org/10.1016/0039-6028(86)90242-6)