

- Saari, J., Ali-Löytty, H., & Valden, M. (2018). *Role of Oxide Defects in ALD grown TiO<sub>2</sub> Coatings on Performance as Photoanode Protection Layer*. Paper presented at Optics & Photonics Days 2018, Jyväskylä, Finland.
- Hannula, M. K., Lahtonen, K. T., Isotalo, T. J., Saari, J. S., & Valden, M. O. (2016). *Thermal Modification of ALD Grown Titanium Oxide Ultra Thin Film for Photoanode Applications*. Paper presented at Symposium on Future Prospects for Photonics, Tampere, Finland.
- Mäkinen, J., Vehanen, A., Hautojärvi, P., Huomo, H., Lahtinen, J., Nieminen, R. M., & Valkealahti, S. (1986). Vacancy-type defect distributions near argon sputtered Al(100) surface studied by variable-energy positrons and molecular dynamics simulations. *Surface Science*, 175(2), 385-414. [https://doi.org/10.1016/0039-6028\(86\)90242-6](https://doi.org/10.1016/0039-6028(86)90242-6)
- Saari, J. (2017). *Atomikerroskasvatusmenetelmällä kasvatetun titaanidioksidikalvon ominaisuudet valosähkökemiallisessa veden hajottamisessa*.
- Matikainen, V., Koivuluoto, H., Milanti, A., & Vuoristo, P. (2015). Advanced coatings by novel high-kinetic thermal spray processes. *Materia*, 73(1), 46-50.
- Kiilakoski, J., Lukac, F., Koivuluoto, H., & Vuoristo, P. (2017). Cavitation wear characteristics of Al<sub>2</sub>O<sub>3</sub>-ZrO<sub>2</sub>-ceramic coatings deposited by APS and HVOF -processes. In *International Thermal Spray Conference ITSC 2017, Conference Proceedings: June 7-9, 2017, Düsseldorf, Germany*. (Vol. 336, pp. 928-933). (DVS-Berichte / DVS - Deutscher Verband für Schweißen und Verwandte Verfahren e.V.). Düsseldorf: DVS Media GmbH.
- Kiilakoski, J., Lutoschkin, A., Plachetta, M., Apostol, M., Koivuluoto, H., Killinger, A., & Vuoristo, P. (2016). Fracture Characteristics of High-Velocity Suspension Flame-Sprayed Aluminum Oxide Coatings. In *International Thermal Spray Conference & Exposition, ITSC 2016* (pp. 466-471). DVS Media GmbH.
- Matikainen, V., Rubio Peregrina, S., Ojala, N., Koivuluoto, H., Schubert, J., Houdková, & Vuoristo, P. (2019). Slurry and dry particle erosion wear properties of WC-10Co4Cr and Cr<sub>3</sub>C<sub>2</sub>-25NiCr hardmetal coatings deposited by HVOF and HVOF spray processes. *Tribologia*, 36(1-2), 58-61. <https://doi.org/10.30678/FJT.83590>
- Haiko, O., Heino, V., Porter, D. A., Uusitalo, J., & Kömi, J. (2019). Effect of microstructure on the abrasive wear resistance of steels with hardness 450 HV. *Tribologia*, 36(1), 54-57. <https://doi.org/10.30678/FJT.82443>
- 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* (pp. 923-930). (Proceedings of the International Thermal Spray Conference). ASM International.
- Suokas, E., & Kuusipalo, J. (2018). Process time importance in the product properties evolvement 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* (pp. 151-159). TAPPI Press.
- Jarnstrom, L., Johansson, K., Kuusipalo, J., & Jonsson, L. (2016). Active packaging by paper coating. In *14th TAPPI Advanced Coating Symposium 2016* (pp. 88-92). TAPPI Press.
- Saarinen, J. J., Valtakari, D., Bollström, R., Stepien, M., Haapanen, J., Mäkelä, J. M., & Toivakka, M. (2016). Roll-to-roll application of photocatalytic TiO<sub>2</sub> nanoparticles for printed functionality. In *Advanced Manufacturing, Electronics and Microsystems: TechConnect Briefs 2016* (Vol. 4, pp. 47-50). TechConnect.
- Lahti, J., Lavonen, J., Lahtinen, K., Johansson, P., Seppänen, T., & Cameron, D. C. (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, pp. 684-706). TAPPI Press.

Kiilakoski, J., Lindroos, M., Matikainen, V., Apostol, N., Koivuluoto, H., & Vuoristo, P. (2015). Characterization Of High-Velocity Single Particle Impacts On Thermally Sprayed Ceramic Coatings. Unpublished. In *International Thermal Spray Conference & Exposition 2015*

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* (pp. 465-471). ASM International.

Stepien, M., Saarinen, J. J., Teisala, H., Tuominen, M., Aromaa, M., Kuusipalo, J., ... Toivakka, M. (2010). Adjustable wetting properties of paperboard by liquid flame spray process. In *11th Advanced Coating Fundamentals Symposium Proceedings: The Latest Advances in Coating Research and Development* (pp. 80-88)

Rubio Hernandez, R. (2009). CLC a Colored Liquid Crystal: Prototype Description and Design Opportunities. In *Proceedings of the 11th International Conference: Glass Performance Days*

Rubio Hernandez, R., Marshall-Berenguer, R., & De la Flor San Vicente, L. (2004). Envolvente de Vidrio Electrocrómico. In *Foro ARCA II. Arquitectura y Calidad de vida. : Edificación y sostenibilidad: un compromiso posible*

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

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

Varis, T., Suhonen, T., Ghabchi, A., Valarezo, A., Sampath, S., Liu, X., & Hannula, S. P. (2014). Formation mechanisms, structure, and properties of HVOF-sprayed WC-CoCr coatings: An approach toward process maps. *Journal of Thermal Spray Technology*, *23*(6), 1009-1018. <https://doi.org/10.1007/s11666-014-0110-5>

Thomann, O., Pihlatie, M., Rautanen, M., Himanen, O., Lagerbom, J., Mäkinen, M., ... Kiviaho, J. (2013). Development and application of HVOF sprayed spinel protective coating for SOFC interconnects. *Journal of Thermal Spray Technology*, *22*(5), 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*, *22*(5), 783-796. <https://doi.org/10.1007/s11666-013-9928-5>

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

Sarlin, E., Honkanen, M., Lindgren, M., Laihonon, P., Juutilainen, M., Vippola, M., & Vuorinen, J. (2020). The effect of substrate pre-treatment on durability of rubber-stainless steel adhesion. *Surfaces and Interfaces*, *21*, [100646]. <https://doi.org/10.1016/j.surfin.2020.100646>

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

Huttunen-Saarivirta, E., Kilpi, L., Pasanen, A. T., Salminen, T., & Ronkainen, H. (2020). Tribocorrosion behaviour of tin bronze CuSn12 under a sliding motion in NaCl containing environment: Contact to inert vs. reactive counterbody. *Tribology International*, *151*, [106389]. <https://doi.org/10.1016/j.triboint.2020.106389>

Baratto, C., Golovanova, V., Faglia, G., Hakola, H., Niemi, T., Tkachenko, N., ... Golovanov, V. (2020). On the alignment of ZnO nanowires by Langmuir – Blodgett technique for sensing application. *Applied Surface Science*, 528, [146959]. <https://doi.org/10.1016/j.apsusc.2020.146959>

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*, 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*, 454-455, [203336]. <https://doi.org/10.1016/j.wear.2020.203336>

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

Matikainen, V., Koivuluoto, H., & Vuoristo, P. (2020). A study of Cr<sub>3</sub>C<sub>2</sub>-based HVOF- and HVOF-sprayed coatings: Abrasion, dry particle erosion and cavitation erosion resistance. *Wear*, 446-447, [203188]. <https://doi.org/10.1016/j.wear.2020.203188>

Hongisto, M., Veber, A., Boetti, N. G., Danto, S., Jubera, V., & Petit, L. (2020). Transparent Yb<sup>3+</sup> 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, S. P. (2020). Cold gas spraying of a high-entropy CrFeNiMn equiatomic alloy. *Coatings*, 10(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*, [e49101]. <https://doi.org/10.1002/app.49101>

Tofanello, A., Freitas, A. L. M., Carvalho, W. M., Salminen, T., Niemi, T., & Souza, F. L. (2020). Hematite Surface Modification toward Efficient Sunlight-Driven Water Splitting Activity: The Role of Gold Nanoparticle Addition. *Journal of Physical Chemistry C*. <https://doi.org/10.1021/acs.jpcc.9b11966>

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*, 388, [125604]. <https://doi.org/10.1016/j.surfcoat.2020.125604>

Khvorost, T. A., Beliaev, L. Y., Potalueva, E., Laptchenkova, A. V., Selyutin, A. A., Bogachev, N. A., ... Mereshchenko, A. S. (2020). Ultrafast Photochemistry of the [Cr(NCS)<sub>6</sub>]<sup>3-</sup> Complex in Dimethyl Sulfoxide and Dimethylformamide upon Excitation into Ligand-Field Electronic State. *Journal of Physical Chemistry B*, 124(18), 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*, 10(4), [348]. <https://doi.org/10.3390/coatings10040348>

Del Cerro, P. R., Teittinen, H., Norrbo, I., Lastusaari, M., Massera, J., & Petit, L. (2020). Novel borosilicate bioactive scaffolds with persistent luminescence. *Biomedical Glasses*, 6(1), 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 HVOF-Sprayed WC-CoCr Coatings. *Journal of Thermal Spray Technology*. <https://doi.org/10.1007/s11666-020-01037-2>

Saarimaa, V., Fuertes, N., Persson, D., Zavalis, T., Kaleva, A., Nikkanen, J-P., ... 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>

Palmolahti, L., Ali-Löyty, H., Khan, R., Saari, J., Tkachenko, N. V., & Valden, M. (2020). Modification of Surface States of Hematite-Based Photoanodes by Submonolayer of  $\text{TiO}_2$  for Enhanced Solar Water Splitting. *Journal of Physical Chemistry C*, 124(24), 13094-13101. <https://doi.org/10.1021/acs.jpcc.0c00798>

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>

Ghazy, A., Safdar, M., Lastusaari, M., Aho, A., Tukiainen, A., Savin, H., ... Karppinen, M. (2020). Luminescent  $(\text{Er,Ho})_2\text{O}_3$  thin films by ALD to enhance the performance of silicon solar cells. *Solar Energy Materials and Solar Cells*, 219, [110787]. <https://doi.org/10.1016/j.solmat.2020.110787>

Haiko, O., Valtonen, K., Kaijalainen, 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*, 440-441. <https://doi.org/10.1016/j.wear.2019.203098>

Mäntylä, A., Hintikka, J., Frondelius, T., Vaara, J., Lehtovaara, A., & Juoksukangas, J. (2019). Prediction of contact condition and surface damage by simulating variable friction coefficient and wear. *Tribology International*, [106054]. <https://doi.org/10.1016/j.triboint.2019.106054>

Hintikka, J., Mäntylä, A., Vaara, J., Frondelius, T., Juoksukangas, J., & Lehtovaara, A. (2019). Running-in in fretting, transition from near-stable friction regime to gross sliding. *Tribology International*, 143, [106073]. <https://doi.org/10.1016/j.triboint.2019.106073>

Mäntyranta, A., Heino, V., Isotahdon, E., Salminen, T., & Huttunen-Saarivirta, E. (2019). Tribocorrosion behaviour of two low-alloy steel grades in simulated waste solution. *Tribology International*, 138, 250-262. <https://doi.org/10.1016/j.triboint.2019.05.032>

Lehmusto, J., Olin, M., Viljanen, J., Kalliokoski, J., Mylläri, F., Toivonen, J., ... 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*, 371, 245-254. <https://doi.org/10.1016/j.surfcoat.2018.10.097>

Rissanen, I., & Laurson, L. (2019). Magnetic non-contact friction from domain wall dynamics actuated by oscillatory mechanical motion. *Journal of Physics D: Applied Physics*, 52(44), [445002]. <https://doi.org/10.1088/1361-6463/ab351f>

Matikainen, V., Rubio Peregrina, S., Ojala, N., Koivuluoto, H., Schubert, J., Houdková, & Vuoristo, P. (2019). Erosion wear performance of WC-10Co4Cr and  $\text{Cr}_3\text{C}_2$ -25NiCr coatings sprayed with high-velocity thermal spray processes. *Surface and Coatings Technology*, 370, 196-212. <https://doi.org/10.1016/j.surfcoat.2019.04.067>

Juoksukangas, J., Nurmi, V., Hintikka, J., Vippola, M., Lehtovaara, A., Mäntylä, A., ... Frondelius, T. (2019). Characterization of cracks formed in large flat-on-flat fretting contact. *International Journal of Fatigue*, 124, 361-370. <https://doi.org/10.1016/j.ijfatigue.2019.03.004>

Banerjee, S. S., Hait, S., Natarajan, T. S., Wießner, S., Stöckelhuber, K. W., Jehnichen, D., ... Das, A. (2019). Water-Responsive and Mechanically Adaptive Natural Rubber Composites by in Situ Modification of Mineral Filler Structures. *Journal of Physical Chemistry B*, 123(24), 5168-5175. <https://doi.org/10.1021/acs.jpcc.9b02125>

- Isoaho, R., Aho, A., Tukiainen, A., Aho, T., Raappana, M., Salminen, T., ... Guina, M. (2019). Photovoltaic properties of low-bandgap (0.7–0.9eV) lattice-matched GaInNAsSb solar junctions grown by molecular beam epitaxy on GaAs. *Solar Energy Materials and Solar Cells*, 195, 198–203. <https://doi.org/10.1016/j.solmat.2019.02.030>
- Chintha, A. R., Valtonen, K., Kuokkala, V. T., Kundu, S., Peet, M. J., & Bhadeshia, H. K. D. H. (2019). Role of fracture toughness in impact-abrasion wear. *Wear*, 428–429, 430–437. <https://doi.org/10.1016/j.wear.2019.03.028>
- Ferraris, S., Nommeots-Nomm, A., Spriano, S., Vernè, E., & Massera, J. (2019). Surface reactivity and silanization ability of borosilicate and Mg-Sr-based bioactive glasses. *Applied Surface Science*, 475, 43–55. <https://doi.org/10.1016/j.apsusc.2018.12.218>
- Valtonen, K., Ojala, N., Haiko, O., & Kuokkala, V-T. (2019). Comparison of various high-stress wear conditions and wear performance of martensitic steels. *Wear*, 426–427(Part A), 3–13. <https://doi.org/10.1016/j.wear.2018.12.006>
- Nurmi, V., Hintikka, J., Juoksukangas, J., Honkanen, M., Vippola, M., Lehtovaara, A., ... Frondelius, T. (2019). The formation and characterization of fretting-induced degradation layers using quenched and tempered steel. *Tribology International*, 131, 258–267. <https://doi.org/10.1016/j.triboint.2018.09.012>
- Hintikka, J., Mäntylä, A., Vaara, J., Frondelius, T., & Lehtovaara, A. (2019). Stable and unstable friction in fretting contacts. *Tribology International*, 131, 73–82. <https://doi.org/10.1016/j.triboint.2018.10.014>
- Karhu, M., Lagerbom, J., Solismaa, S., Honkanen, M., Ismailov, A., Räisänen, M. L., ... Kivikytö-Reponen, P. (2019). Mining tailings as raw materials for reaction-sintered aluminosilicate ceramics: Effect of mineralogical composition on microstructure and properties. *Ceramics International*, 45(4), 4840–4848. <https://doi.org/10.1016/j.ceramint.2018.11.180>
- 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*, 28(1-2), 98–107. <https://doi.org/10.1007/s11666-018-0816-x>
- Huttunen-Saarivirta, E., Isotahdon, E., Metsäjoki, J., Salminen, T., Ronkainen, H., & Carpén, L. (2019). Behaviour of leaded tin bronze in simulated seawater in the absence and presence of tribological contact with alumina counterbody: Corrosion, wear and tribocorrosion. *Tribology International*, 129, 257–271. <https://doi.org/10.1016/j.triboint.2018.08.021>
- Valtonen, K., Ratia, V., Ramakrishnan, K. R., Apostol, M., Terva, J., & Kuokkala, V-T. (2019). Impact wear and mechanical behavior of steels at subzero temperatures. *Tribology International*, 129, 476–493. <https://doi.org/10.1016/j.triboint.2018.08.016>
- Haapanen, J., Aromaa, M., Teisala, H., Juuti, P., Tuominen, M., Sillanpää, M., ... Mäkelä, J. M. (2019). On the limit of superhydrophobicity: Defining the minimum amount of TiO<sub>2</sub> nanoparticle coating. *Materials Research Express*, 6(3), [035004]. <https://doi.org/10.1088/2053-1591/aaf2ee>
- Linjamaa, A., Lehtovaara, A., Kallio, M., & Léger, A. (2019). Running-in effects on friction of journal bearings under slow sliding speeds. *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*. <https://doi.org/10.1177/1350650119864758>
- Banerjee, S. S., Natarajan, T. S., Subramani B., E., Wießner, S., Janke, A., Heinrich, G., & Das, A. (2019). Temperature scanning stress relaxation behavior of water responsive and mechanically adaptive elastomer nanocomposites. *Journal of Applied Polymer Science*, [48344]. <https://doi.org/10.1002/app.48344>
- 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*, 5(1), 140-147. <https://doi.org/10.1515/bglass-2019-0012>

Passananti, M., Zapadinsky, E., Zanca, T., Kangasluoma, J., Myllys, N., Rissanen, M. P., ... Vehkamäki, H. (2019). How well can we predict cluster fragmentation inside a mass spectrometer? *Chemical Communications*, 55(42), 5946-5949. <https://doi.org/10.1039/c9cc02896j>

Rajan, R., Rainosalu, E., Ramamoorthy, S. K., Thomas, S. P., Zavašnik, J., Vuorinen, J., & Skrifvars, M. (2018). Mechanical, thermal, and burning properties of viscose fabric composites: Influence of epoxy resin modification. *Journal of Applied Polymer Science*, 135(36), [46673]. <https://doi.org/10.1002/app.46673>

Hiltunen, A., Ruoko, T-P., Iivonen, T., Lahtonen, K., Ali-Löytty, H., Sarlin, E., ... Tkachenko, N. (2018). Design aspects of all atomic layer deposited TiO<sub>2</sub>-Fe<sub>2</sub>O<sub>3</sub> scaffold-absorber photoanodes for water splitting. *Sustainable Energy & Fuels*, 2(9), 2124-2130. <https://doi.org/10.1039/C8SE00252E>

Kulju, S., Riegger, L., Koltay, P., Mattila, K., & Hyväluoma, J. (2018). Fluid flow simulations meet high-speed video: Computer vision comparison of droplet dynamics. *Journal of Colloid and Interface Science*, 522, 48-56. <https://doi.org/10.1016/j.jcis.2018.03.053>

Mikkonen, R., & Mäntysalo, M. (2018). Evaluation of screen printed silver trace performance and long-term reliability against environmental stress on a low surface energy substrate. *Microelectronics Reliability*, 86, 54-65. <https://doi.org/10.1016/j.microrel.2018.05.010>

Kaunisto, K., Kotilainen, M., Karhu, M., Lagerbom, J., Vuorinen, T., Honkanen, 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*, 44(8), 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., ... 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*, 44(8), 9472-9478. <https://doi.org/10.1016/j.ceramint.2018.02.164>

Ojha, N., Laihinne, 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*, 44(10), 11807-11811. <https://doi.org/10.1016/j.ceramint.2018.03.267>

Rasappa, S., Schulte, L., Borah, D., Hulkkonen, H., Ndoni, S., Salminen, T., ... Niemi, T. (2018). Morphology evolution of PS-b-PDMS block copolymer and its hierarchical directed self-assembly on block copolymer templates. *Microelectronic Engineering*, 192, 1-7. <https://doi.org/10.1016/j.mee.2018.02.002>

Sutka, A., Timusk, M., Joost, U., Ignatans, R., & Maiorov, M. (2018). Switchable light reflectance in dilute magneto-optical colloids based on nickel ferrite nanowires. *e-Journal of Surface Science and Nanotechnology*, 16, 119-121. <https://doi.org/10.1380/ejsnt.2018.119>

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

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

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

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*, 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., ... Vippola, M. (2018). Properties of HVOF-sprayed Stellite-6 coatings. *Surface and Coatings Technology*, 338, 45-62. <https://doi.org/10.1016/j.surfcoat.2018.01.078>

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

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

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

Bolelli, G., Bursi, M., Lusvarghi, L., Manfredini, T., Matikainen, V., Rigon, R., ... Vuoristo, P. (2018). Tribology of FeVCrC coatings deposited by HVOF and HVOF thermal spray processes. *Wear*, 394-395, 113-133. <https://doi.org/10.1016/j.wear.2017.10.014>

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

Cappelluti, F., Kim, D., van Eerden, M., Cédola, A. P., Aho, T., Bissels, G., ... Guina, M. (2018). Light-trapping enhanced thin-film III-V quantum dot solar cells fabricated by epitaxial lift-off. *Solar Energy Materials and Solar Cells*, 181, 83-92. <https://doi.org/10.1016/j.solmat.2017.12.014>

Vuorinen, E., Heino, V., Ojala, N., Haiko, O., & Hedayati, A. (2018). Erosive-abrasive wear behavior of carbide-free bainitic and boron steels compared in simulated field conditions. *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*, 232(1), 3-13. <https://doi.org/10.1177/1350650117739125>

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*, 27(3), 423-432. <https://doi.org/10.1007/s11666-018-0685-3>

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

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

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

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

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*, 113, 218-224. <https://doi.org/10.1016/j.porgcoat.2017.04.019>

Santangelo, P. E., 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*, 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., & Vuorinen, J. (2017). Erosive wear of filled vinylester composites in water and acidic media at elevated temperature. *Wear*, 390-391, 84-92. <https://doi.org/10.1016/j.wear.2017.07.011>

Holmberg, K., Kivikytö-Reponen, P., Härkisaari, P., Valtonen, K., & Erdemir, A. (2017). Global energy consumption due to friction and wear in the mining industry. *Tribology International*, 115, 116-139. <https://doi.org/10.1016/j.triboint.2017.05.010>

Brobbe, K. J., Haapanen, J., Gunell, M., Mäkelä, J. M., Eerola, E., Toivakka, M., & Saarinen, J. J. (2017). One-step flame synthesis of silver nanoparticles for roll-to-roll production of antibacterial paper. *Applied Surface Science*, 420, 558-565. <https://doi.org/10.1016/j.apsusc.2017.05.143>

Välimäki, H., Verho, J., Kreutzer, J., Kattiparambil Rajan, D., Ryyänen, T., Pekkanen-Mattila, M., ... Lekkala, J. (2017). Fluorimetric oxygen sensor with an efficient optical read-out for in vitro cell models. *Sensors and Actuators B: Chemical*, 249, 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*, 111, 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*, 638, 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*, 324, 264-280. <https://doi.org/10.1016/j.surfcoat.2017.05.040>

Tkalich, D., Li, C. C., Kane, A., Saai, A., Tkalich, D., Yastrebov, V. A., ... From, A. (2017). Wear of cemented tungsten carbide percussive drill-bit inserts: Laboratory and field study. *Wear*, 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., & 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*, 26(6), 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*, 121(28), 6792-6798. <https://doi.org/10.1021/acs.jpccb.7b03888>

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



- Palola, S., Sarlin, E., Kolahgar Azari, S., Koutsos, V., & Vuorinen, J. (2017). Microwave induced hierarchical nanostructures on aramid fibers and their influence on adhesion properties in a rubber matrix. *Applied Surface Science*, 410, 145-153. <https://doi.org/10.1016/j.apsusc.2017.03.070>
- Kotilainen, M., Krumpolec, R., Franta, D., Souček, P., Homola, T., Cameron, D. C., & Vuoristo, P. (2017). Hafnium oxide thin films as a barrier against copper diffusion in solar absorbers. *Solar Energy Materials and Solar Cells*, 166, 140-146. <https://doi.org/10.1016/j.solmat.2017.02.033>
- Baek, J., Umeyama, T., Stranius, K., Yamada, H., Tkachenko, N. V., & Imahori, H. (2017). Long-Range Observation of Exciplex Formation and Decay Mediated by One-Dimensional Bridges. *Journal of Physical Chemistry C*, 121(25), 13952-13961. <https://doi.org/10.1021/acs.jpcc.7b04483>
- Ma, L., Laasonen, K., & Akola, J. (2017). Catalytic Activity of AuCu Clusters on MgO(100): Effect of Alloy Composition for CO Oxidation. *Journal of Physical Chemistry C*, 121(20), 10876-10886. <https://doi.org/10.1021/acs.jpcc.6b12054>
- Goh, J.-Q., Akola, J., & Ferrando, R. (2017). Geometric Structure and Chemical Ordering of Large AuCu Clusters: A Computational Study. *Journal of Physical Chemistry C*, 121(20), 10809-10816. <https://doi.org/10.1021/acs.jpcc.6b11958>
- Virkki, K., Hakola, H., Urbani, M., Tejerina, L., Ince, M., Martínez-Díaz, M. V., ... Tkachenko, N. V. (2017). Photoinduced Electron Injection from Zinc Phthalocyanines into Zinc Oxide Nanorods: Aggregation Effects. *Journal of Physical Chemistry C*, 121(17), 9594-9605. <https://doi.org/10.1021/acs.jpcc.7b01562>
- Hintikka, J., Lehtovaara, A., & Mäntylä, A. (2017). Third Particle Ejection Effects on Wear with Quenched and Tempered Steel Fretting Contact. *TRIBOLOGY TRANSACTIONS*, 60(1), 70-78. <https://doi.org/10.1080/10402004.2016.1146813>
- Vuori, L., Ali-Löytty, H., Lahtonen, K., Hannula, M., Lehtonen, E., Niu, Y., & Valden, M. (2017). Improved corrosion properties of Hot Dip Galvanized Steel by nanomolecular silane layers as hybrid interface between zinc and top coatings. *Corrosion*, 73(2). <https://doi.org/10.5006/2206>
- Matikainen, V., Bolelli, G., Koivuluoto, H., Sassatelli, P., Lusvarghi, L., & Vuoristo, P. (2017). Sliding wear behaviour of HVOF and HVOF sprayed Cr<sub>3</sub>C<sub>2</sub>-based coatings. *Wear*, 388-389, 57-71. <https://doi.org/10.1016/j.wear.2017.04.001>
- Oksanen, V. T., Lehtovaara, A. J., & Kallio, M. H. (2017). Load capacity of lubricated bismuth bronze bimetal bearing under elliptical sliding motion. *Wear*, 388-389, 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*, 251, 1018-1025. <https://doi.org/10.1016/j.snb.2017.05.116>
- Lampio, K., & Karvinen, R. (2017). Optimization of convectively cooled heat sinks. *Microelectronics Reliability*, 79, 473-479. <https://doi.org/10.1016/j.microrel.2017.06.011>
- Javanainen, M., Melcrová, A., Magarkar, A., Jurkiewicz, P., Hof, M., Jungwirth, P., & Martinez-Seara, H. (2017). Two cations, two mechanisms: Interactions of sodium and calcium with zwitterionic lipid membranes. *Chemical Communications*, 53(39), 5380-5383. <https://doi.org/10.1039/c7cc02208e>
- Janka, L., Norpoth, J., Trache, R., Thiele, S., & Berger, L. M. (2017). HVOF- and HVOF-Sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr Coatings Deposited from Feedstock Powders of Spherical Morphology: Microstructure Formation and High-Stress Abrasive Wear Resistance Up to 800 °C. *Journal of Thermal Spray Technology*, 26(7), 1720-1731. <https://doi.org/10.1007/s11666-017-0621-y>

Sarjas, H., Surzhenkov, A., Juhani, K., Antonov, M., Adoberg, E., Kulu, P., ... Vuoristo, P. (2017). Abrasive-Erosive Wear of Thermally Sprayed Coatings from Experimental and Commercial Cr<sub>3</sub>C<sub>2</sub>-Based Powders. *Journal of Thermal Spray Technology*, 26(8), 2020–2029. <https://doi.org/10.1007/s11666-017-0638-2>

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

Haiko, O., Miettunen, I., Porter, D., Ojala, N., Ratia, V., Heino, V., & Kempainen, A. (2017). Effect of finish rolling and quench stop temperatures on impact-abrasive wear resistance of 0.35 % carbon direct-quenched steel. *Tribologia*, 35(1-2), 5-21.

Tuominen, M., Teisala, H., Haapanen, J., Mäkelä, J. M., Honkanen, M., Vippola, M., ... Swerin, A. (2016). Superamphiphobic overhang structured coating on a biobased material. *Applied Surface Science*, 389, 135-143. <https://doi.org/10.1016/j.apsusc.2016.05.095>

Varis, T., Suhonen, T., Calonijs, O., Čuban, J., & Pietola, M. (2016). Optimization of HVOF Cr<sub>3</sub>C<sub>2</sub>-NiCr coating for increased fatigue performance. *Surface and Coatings Technology*, 305, 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*, 133(42), [44116]. <https://doi.org/10.1002/app.44116>

Juoksukangas, J., Lehtovaara, A., & Mäntylä, A. (2016). Experimental and numerical investigation of fretting fatigue behavior in bolted joints. *Tribology International*, 103, 440-448. <https://doi.org/10.1016/j.triboint.2016.07.021>

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*, 364-365, 10-21. <https://doi.org/10.1016/j.wear.2016.06.007>

Juoksukangas, J., Lehtovaara, A., & Mäntylä, A. (2016). A comparison of relative displacement fields between numerical predictions and experimental results in fretting contact. *Proceedings of the Institution of Mechanical Engineers Part J: Journal of Engineering Tribology*, 230(10), 1273-1287. <https://doi.org/10.1177/1350650116633573>

Myllymäki, S., Putaala, J., Hannu, J., Kunnari, E., & Mäntysalo, M. (2016). RF measurements to pinpoint defects in inkjet-printed, thermally and mechanically stressed coplanar waveguides. *Microelectronics Reliability*, 65, 142-150. <https://doi.org/10.1016/j.microrel.2016.08.021>

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*, 616, 842-849. <https://doi.org/10.1016/j.tsf.2016.10.002>

Robison, A. D., Sun, S., Poyton, M. F., Johnson, G. A., Pellois, J. P., Jungwirth, P., ... Cremer, P. S. (2016). Polyarginine Interacts More Strongly and Cooperatively than Polylysine with Phospholipid Bilayers. *Journal of Physical Chemistry Part B*, 120(35), 9287-9296. <https://doi.org/10.1021/acs.jpcc.6b05604>

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

Kapgate, B. P., Das, C., Das, A., Basu, D., Wiessner, S., Reuter, U., & Heinrich, G. (2016). Reinforced chloroprene rubber by in situ generated silica particles: Evidence of bound rubber on the silica surface. *Journal of Applied Polymer Science*, 133(30), [43717]. <https://doi.org/10.1002/app.43717>

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

Bolelli, G., Berger, L. M., Börner, T., Koivuluoto, H., Matikainen, V., Lusvarghi, L., ... 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*, 358-359, 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*, 358-359, 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*, 25, 1127-1137. <https://doi.org/10.1007/s11666-016-0428-2>

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*, 25(5), 1040-1055. <https://doi.org/10.1007/s11666-016-0410-z>

Polojärvi, V., Aho, A., Tukiainen, A., Raappana, M., Aho, T., Schramm, A., & Guina, M. (2016). Influence of As/group-III flux ratio on defects formation and photovoltaic performance of GaInNAs solar cells. *Solar Energy Materials and Solar Cells*, 149, 213-220. <https://doi.org/10.1016/j.solmat.2016.01.024>

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

Janka, L., Norpoth, J., Trache, R., & Berger, L. M. (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*, 291, 444-451. <https://doi.org/10.1016/j.surfcoat.2016.02.066>

Heydari, G., Sedighi Moghaddam, M., Tuominen, M., Fielden, M., Haapanen, J., Mäkelä, J. M., & Claesson, P. M. (2016). Wetting hysteresis induced by temperature changes: Supercooled water on hydrophobic surfaces. *Journal of Colloid and Interface Science*, 468, 21-33. <https://doi.org/10.1016/j.jcis.2016.01.040>

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

Selvan, N. T., Eshwaran, S. B., Das, A., Stöckelhuber, K. W., Wießner, S., Pötschke, P., ... Heinrich, G. (2016). Piezoresistive natural rubber-multiwall carbon nanotube nanocomposite for sensor applications. *Sensors and Actuators, A: Physical*, 239, 102-113. <https://doi.org/10.1016/j.sna.2016.01.004>

Ali-Löytty, H., Louie, M. W., Singh, M. R., Li, L., Sanchez Casalongue, H. G., Ogasawara, H., ... Friebel, D. (2016). Ambient-Pressure XPS Study of a Ni-Fe Electrocatalyst for the Oxygen Evolution Reaction. *Journal of Physical Chemistry C*, 120(4), 2247-2253. <https://doi.org/10.1021/acs.jpcc.5b10931>

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

Andersson, P., Kilpi, L., Holmberg, K., Vaajoki, A., & Oksanen, V. (2016). Static friction measurements on steel against uncoated and coated cast iron. *Tribologia*, 34(1-2), 5-40.

Hintikka, J., Lehtovaara, A., & Mäntylä, A. (2016). Normal displacements in non-Coulomb friction conditions during fretting. *Tribology International*, *94*, 633-639. <https://doi.org/10.1016/j.triboint.2015.10.029>

Kotilainen, M., Honkanen, M., Mizohata, K., & Vuoristo, P. (2016). Influence of temperature-induced copper diffusion on degradation of selective chromium oxy-nitride solar absorber coatings. *Solar Energy Materials and Solar Cells*, *145*, 323-332. <https://doi.org/10.1016/j.solmat.2015.10.034>

Bolelli, G., Milanti, A., Lusvarghi, L., Trombi, L., Koivuluoto, H., & Vuoristo, P. (2016). Wear and impact behaviour of High Velocity Air-Fuel sprayed Fe-Cr-Ni-B-C alloy coatings. *Tribology International*, *95*, 372-390. <https://doi.org/10.1016/j.triboint.2015.11.036>

Ratia, V., Valtonen, K., Kemppainen, A., & Kuokkala, V. T. (2016). The role of edge-concentrated wear in impact-abrasion testing. *Tribology Online*, *11*(2), 410-416. <https://doi.org/10.2474/trol.11.410>

Tuominen, J., Näkki, J., Pajukoski, H., Hyvärinen, L., & Vuoristo, P. (2016). Microstructural and abrasion wear characteristics of laser-clad tool steel coatings. *Surface Engineering*, *32*(12), 923-933. <https://doi.org/10.1080/02670844.2016.1180496>

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

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

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

Tamminen, P., Viheriäkoski, T., Sydänheimo, L., & Ukkonen, L. (2015). ESD qualification data used as the basis for building electrostatic discharge protected areas. *Journal of Electrostatics*, *77*, 174-181. [3024]. <https://doi.org/10.1016/j.elstat.2015.08.009>

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

Kiilakoski, J., Eronen, V., & Vuoristo, P. (2015). Wear Properties of Thermally Sprayed Tungsten-Carbide Coatings in Paper Machine Environments. *Tribologia - Finnish Journal of Tribology*, *33*(2), 29.

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

Milanti, A., Matikainen, V., Koivuluoto, H., Bolelli, G., Lusvarghi, 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*, *277*, 81-90. <https://doi.org/10.1016/j.surfcoat.2015.07.018>

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

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

Kwolek, U., Kulig, W., Wydro, P., Nowakowska, M., Róg, T., & Kepczynski, M. (2015). Effect of Phosphatidic Acid on Biomembrane: Experimental and Molecular Dynamics Simulations Study. *Journal of Physical Chemistry Part B*, 119(31), 10042-10051. <https://doi.org/10.1021/acs.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*, 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., & Jungwirth, P. (2015). Nonlinear Optical Properties of Fluorescent Dyes Allow for Accurate Determination of Their Molecular Orientations in Phospholipid Membranes. *Journal of Physical Chemistry Part B*, 119(30), 9706-9716. <https://doi.org/10.1021/acs.jpcc.5b05123>

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

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

Hintikka, J., Lehtovaara, A., & Mäntylä, A. (2015). Fretting-induced friction and wear in large flat-on-flat contact with quenched and tempered steel. *Tribology International*, 92, 191-202. <https://doi.org/10.1016/j.triboint.2015.06.008>

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

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

Salpavaara, T., Järveläinen, M., Seppälä, S., Yli-Hallila, T., Verho, J., Vilkkö, M., ... Levänen, E. (2015). Passive resonance sensor based method for monitoring particle suspensions. *Sensors and Actuators B: Chemical*, 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., ... Kepczynski, M. (2015). PEGylated liposomes as carriers of hydrophobic porphyrins. *Journal of Physical Chemistry Part B*, 119(22), 6646-6657. <https://doi.org/10.1021/acs.jpcc.5b01351>

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

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*, 270, 132-138. <https://doi.org/10.1016/j.surfcoat.2015.03.011>

Lindroos, M., Ratia, V., Apostol, M., Valtonen, K., Laukkanen, A., Molnar, W., ... Kuokkala, V. T. (2015). The effect of impact conditions on the wear and deformation behavior of wear resistant steels. *Wear*, 328-329, 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*, 328-329, 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*, 119(13), 4594-4600. <https://doi.org/10.1021/acs.jpcc.5b00240>

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

Varis, T., Bankiewicz, D., Yrjas, P., Oksa, M., Suhonen, T., Tuurna, S., ... Holmström, S. (2015). High temperature corrosion of thermally sprayed NiCr and FeCr coatings covered with a KCl-K<sub>2</sub>SO<sub>4</sub> salt mixture. *Surface and Coatings Technology*, 265, 235-243. <https://doi.org/10.1016/j.surfcoat.2014.11.012>

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

Fatarelle, E., Mylläri, V., Ruzzante, M., Pogni, R., Baratto, M. C., Skrifvars, M., ... Järvelä, P. (2015). Sulfonated polyetheretherketone/polypropylene polymer blends for the production of photoactive materials. *Journal of Applied Polymer Science*, 132(8), [41509]. <https://doi.org/10.1002/app.41509>

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

Ratia, V., Rojacz, H., Terva, J., Valtonen, K., Badisch, E., & Kuokkala, V. T. (2015). Effect of Multiple Impacts on the Deformation of Wear-Resistant Steels. *Tribology Letters*, 57(2), [15]. <https://doi.org/10.1007/s11249-014-0460-7>

Heiskanen, J. P., Manninen, V. M., Pankov, D., Omar, W. A. E., Kastinen, T., Hukka, T. I., ... Hormi, O. E. O. (2015). Aryl end-capped quaterthiophenes applied as anode interfacial layers in inverted organic solar cells. *Thin Solid Films*, 574, 196-206. <https://doi.org/10.1016/j.tsf.2014.12.007>

Björling, M., Miettinen, J., Marklund, P., Lehtovaara, A., & Larsson, R. (2015). The correlation between gear contact friction and ball on disc friction measurements. *Tribology International*, 83, 114-119. <https://doi.org/10.1016/j.triboint.2014.11.007>

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*, 24(3), 542-551. <https://doi.org/10.1007/s11666-014-0211-1>

Singh, S., Valkama, M., Epp, M., Anttila, L., Schlecker, W., & Ingber, E. (2015). Digital correction of frequency response mismatches in 2-channel time-interleaved ADCs using adaptive I/Q signal processing. *Analog Integrated Circuits and Signal Processing*, 82(3), 543-555. <https://doi.org/10.1007/s10470-014-0476-9>

Lindroos, M., Apostol, M., Heino, V., Valtonen, K., Laukkanen, A., Holmberg, K., & Kuokkala, V. T. (2015). The deformation, strain hardening, and wear behavior of chromium-alloyed hadfield steel in abrasive and impact conditions. *Tribology Letters*, 57(3), [24]. <https://doi.org/10.1007/s11249-015-0477-6>

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*, 24(7), 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*, *118*(48), 13833-13837. <https://doi.org/10.1021/jp5111086>

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*, *23*(8), 1302-1311. <https://doi.org/10.1007/s11666-014-0124-z>

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

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

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

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

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

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

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

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

Aho, A., Polojärvi, V., Korpijärvi, V. M., Salmi, J., Tukiainen, A., Laukkanen, P., & Guina, M. (2014). Composition dependent growth dynamics in molecular beam epitaxy of GaInNAs solar cells. *Solar Energy Materials and Solar Cells*, *124*, 150-158. <https://doi.org/10.1016/j.solmat.2014.01.044>

Kuzmin, M. G., Soboleva, I. V., Durandin, N. A., Lisitsyna, E. S., & Kuzmin, V. A. (2014). Microphase mechanism of "superquenching" of luminescent probes in aqueous solutions of DNA and some other polyelectrolytes. *Journal of Physical Chemistry Part B*, *118*(15), 4245-4252. <https://doi.org/10.1021/jp500713q>

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

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

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

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

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

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

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

Paterová, J., Rembert, K. B., Heyda, J., Kurra, Y., Okur, H. I., Liu, W. R., ... Jungwirth, P. (2013). Reversal of the Hofmeister series: Specific ion effects on peptides. *Journal of Physical Chemistry Part B*, 117(27), 8150-8158. <https://doi.org/10.1021/jp405683s>

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

Borah, D., Rasappa, S., Senthamarikannan, R., Shaw, M. T., Holmes, J. D., & Morris, M. A. (2013). The sensitivity of random polymer brush-lamellar polystyrene-b-polymethylmethacrylate block copolymer systems to process conditions. *Journal of Colloid and Interface Science*, 393(1), 192-202. <https://doi.org/10.1016/j.jcis.2012.10.070>

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*, 609, 190-194. <https://doi.org/10.1016/j.susc.2012.12.007>

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

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

Rasappa, S., Borah, D., Senthamarikannan, R., Faulkner, C. C., Shaw, M. T., Gleeson, P., ... Morris, M. A. (2012). Block copolymer lithography: Feature size control and extension by an over-etch technique. *Thin Solid Films*, 522, 318-323. <https://doi.org/10.1016/j.tsf.2012.09.017>

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

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



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

Koskela, J. E., Vapaavuori, J., Hautala, J., Priimagi, A., Faul, C. F. J., Kaivola, M., & Ras, R. H. A. (2012). Surface-relief gratings and stable birefringence inscribed using light of broad spectral range in supramolecular polymer-bisazobenzene complexes. *Journal of Physical Chemistry C*, *116*(3), 2363-2370. <https://doi.org/10.1021/jp210706n>

Heikkinen, J. J., Kivimäki, L., Hytönen, V. P., Kulomaa, M. S., & Hormi, O. E. O. (2012). Printable and flexible macroporous organosilica film with high protein adsorption capacity. *Thin Solid Films*, *520*(6), 1934-1937. <https://doi.org/10.1016/j.tsf.2011.09.041>

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

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

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

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

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

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

Borah, D., Shaw, M. T., Rasappa, S., Farrell, R. A., O'Mahony, C., Faulkner, C. M., ... Morris, M. A. (2011). Plasma etch technologies for the development of ultra-small feature size transistor devices. *Journal of Physics D: Applied Physics*, *44*(17), [174012]. <https://doi.org/10.1088/0022-3727/44/17/174012>

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

Soriano, V., Colace, L., Assanto, G., & Nardone, M. (2011). Micro-Raman characterization of Germanium thin films evaporated on various substrates. *Microelectronic Engineering*, *88*(4), 492-495. <https://doi.org/10.1016/j.mee.2010.10.028>

Colace, L., Soriano, V., Romagnoli, M., Socci, L., & Assanto, G. (2011). Optical power monitors in Ge monolithically integrated on SOI chips. *Microelectronic Engineering*, *88*(4), 514-517. <https://doi.org/10.1016/j.mee.2010.10.033>

Soriano, V., Colace, L., Assanto, G., Notargiacomo, A., Armani, N., Rossi, F., & Ferrari, C. (2011). Thermal evaporation of Ge on Si for near infrared detectors: Material and device characterization. *Microelectronic Engineering*, *88*(4), 526-529. <https://doi.org/10.1016/j.mee.2010.09.024>

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

Gupta, S. K., Wu, H. H., Kwak, K. J., Casal, P., Nicholson, T. R., Wen, X., ... Lee, S. C. (2011). Interfacial design and structure of protein/polymer films on oxidized AlGaN surfaces. *Journal of Physics D: Applied Physics*, 44(3), [34010]. <https://doi.org/10.1088/0022-3727/44/3/034010>

Caglayan, H., Bulu, I., & Ozbay, E. (2009). Observation of off-axis directional beaming via subwavelength asymmetric metallic gratings. *Journal of Physics D: Applied Physics*, 42(4), [045105]. <https://doi.org/10.1088/0022-3727/42/4/045105>

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

Milne, D., Wilson, J. I. B., Rantala, T. T., & Lenkkeri, J. (1989). Morphological and structural changes in laser CVD of silicon: comparison of theoretical temperature calculations with experimental results. *Applied Surface Science*, 43(1-4), 81-86. [https://doi.org/10.1016/0169-4332\(89\)90194-3](https://doi.org/10.1016/0169-4332(89)90194-3)

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

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