

Saari, Jesse ; Ali-Löytty, Harri ; Valden, Mika. / **Role of Oxide Defects in ALD grown TiO₂ Coatings on Performance as Photoanode Protection Layer**. Paper presented at Optics & Photonics Days 2018, Jyväskylä, Finland.

Hannula, Markku Kalevi ; Lahtonen, Kimmo Tapio ; Isotalo, Tero Jesse ; Saari, Jesse Samuli ; Valden, Mika Olavi. / **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. / **Vacancy-type defect distributions near argon sputtered Al(100) surface studied by variable-energy positrons and molecular dynamics simulations**. In: Surface Science. 1986 ; Vol. 175, No. 2. pp. 385-414.

Saari, Jesse. / **Atomikerroskasvatusmenetelmällä kasvatetun titaanidioksidikalvon ominaisuudet valosähkökemiallisessa veden hajottamisessa**. 2017. 74 p.

Matikainen, Ville ; Koivuluoto, Heli ; Milanti, Andrea ; Vuoristo, Petri. / **Advanced coatings by novel high-kinetic thermal spray processes**. In: Materia. 2015 ; Vol. 73, No. 1. pp. 46-50.

Kiilakoski, Jarkko ; Lukac, Frantisek ; Koivuluoto, Heli ; Vuoristo, Petri. / **Cavitation wear characteristics of Al₂O₃-ZrO₂-ceramic coatings deposited by APS and HVOF -processes**. International Thermal Spray Conference ITSC 2017, Conference Proceedings: June 7-9, 2017, Düsseldorf, Germany.. Vol. 336 Düsseldorf : DVS Media GmbH, 2017. pp. 928-933 (DVS-Berichte / DVS - Deutscher Verband für Schweißen und Verwandte Verfahren e.V.).

Kiilakoski, Jarkko ; Lutoschkin, Axel ; Plachetta, Martin ; Apostol, Marian ; Koivuluoto, Heli ; Killinger, Andreas ; Vuoristo, Petri. / **Fracture Characteristics of High-Velocity Suspension Flame-Sprayed Aluminum Oxide Coatings**. International Thermal Spray Conference & Exposition, ITSC 2016. DVS Media GmbH, 2016. pp. 466-471

Matikainen, V. ; Rubio Peregrina, S. ; Ojala, N. ; Koivuluoto, H. ; Schubert, J. ; Houdková, ; Vuoristo, P. / **Slurry and dry particle erosion wear properties of WC-10Co4Cr and Cr₃C₂-25NiCr hardmetal coatings deposited by HVOF and HVOF spray processes**. In: Tribologia. 2019 ; Vol. 36, No. 1-2. pp. 58-61.

Haiko, O. ; Heino, V. ; Porter, D. A. ; Uusitalo, J. ; Kömi, J. / **Effect of microstructure on the abrasive wear resistance of steels with hardness 450 HV**. In: Tribologia. 2019 ; Vol. 36, No. 1. pp. 54-57.

Vuoristo, Petri ; Varis, Tommi ; Meschini, Damiano ; Bolelli, Giovanni ; Lusvarghi, Luca. / **Corrosion properties of thermally sprayed bond coatings under plasma sprayed chromia coating in sulfuric acid solutions**. International Thermal Spray Conference and Exposition, ITSC 2019: New Waves of Thermal Spray Technology for Sustainable Growth. editor / F. Azarmi ; Y. Lau ; J. Veilleux ; C. Widener ; F. Toma ; H. Koivuluoto ; K. Balani ; H. Li ; K. Shinoda. ASM International, 2019. pp. 923-930 (Proceedings of the International Thermal Spray Conference).

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

Jarnstrom, Lars ; Johansson, Kristin ; Kuusipalo, Jurkka ; Jonsson, Leif. / **Active packaging by paper coating**. 14th TAPPI Advanced Coating Symposium 2016. TAPPI Press, 2016. pp. 88-92

Saarinen, J. J. ; Valtakari, D. ; Bollström, R. ; Stepien, M. ; Haapanen, J. ; Mäkelä, J. M. ; Toivakka, M. / **Roll-to-roll application of photocatalytic TiO₂ nanoparticles for printed functionality**. Advanced Manufacturing, Electronics and Microsystems: TechConnect Briefs 2016. Vol. 4 TechConnect, 2016. pp. 47-50

Lahti, Johanna ; Lavonen, Juho ; Lahtinen, Kimmo ; Johansson, Petri ; Seppänen, Tarja ; Cameron, David C. / **Improved properties for packaging materials by nanoscale surface modification and ALD barrier coating**. TAPPI International Conference on Nanotechnology for Renewable Materials 2016. Vol. 2 TAPPI Press, 2016. pp. 684-706

Kiilakoski, Jarkko ; Lindroos, Matti ; Matikainen, Ville ; Apostol, Nicolae ; Koivuluoto, Heli ; Vuoristo, Petri. / **Characterization Of High-Velocity Single Particle Impacts On Thermally Sprayed Ceramic Coatings**. International Thermal Spray Conference & Exposition 2015. 2015.

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

Stepien, Milcna ; Saarinen, Jarkko J. ; Teisala, Hannu ; Tuominen, Mikko ; Aromaa, Mikko ; Kuusipalo, Jurkka ; Mäkelä, Jyrki ; Toivakka, Martti. / **Adjustable wetting properties of paperboard by liquid flame spray process**. 11th Advanced Coating Fundamentals Symposium Proceedings: The Latest Advances in Coating Research and Development. 2010. pp. 80-88

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

Rubio Hernandez, Rosana ; Marshall-Berenguer, Roser ; De la Flor San Vicente, Luis. / **Envolvente de Vidrio Electrocrómico**. Foro ARCA II. Arquitectura y Calidad de vida. : Edificación y sostenibilidad: un compromiso posible. 2004.

Palola, Sarianna ; Vuorinen, Jyrki ; Noordermeer, Jacques W.M. ; Sarlin, Essi. / **Development in additive methods in aramid fiber surface modification to increase fiber-matrix adhesion : A review**. In: Coatings. 2020 ; Vol. 10, No. 6.

Stumpel, Jelle E. ; Broer, Dirk J. ; Schenning, Albertus P H J. / **Stimuli-responsive photonic polymer coatings**. In: Chemical Communications. 2014 ; Vol. 50, No. 100. pp. 15839-15848.

Varis, T. ; Suhonen, T. ; Ghabchi, A. ; Valarezo, A. ; Sampath, S. ; Liu, X. ; Hannula, S. P. / **Formation mechanisms, structure, and properties of HVOF-sprayed WC-CoCr coatings : An approach toward process maps**. In: Journal of Thermal Spray Technology. 2014 ; Vol. 23, No. 6. pp. 1009-1018.

Thomann, O. ; Pihlatie, M. ; Rautanen, M. ; Himanen, O. ; Lagerbom, J. ; Mäkinen, M. ; Varis, T. ; Suhonen, T. ; Kiviaho, J. / **Development and application of HVOF sprayed spinel protective coating for SOFC interconnects**. In: Journal of Thermal Spray Technology. 2013 ; Vol. 22, No. 5. pp. 631-639.

Oksa, Maria ; Tuurna, Satu ; Varis, Tommi. / **Increased lifetime for biomass and waste to energy power plant boilers with HVOF coatings : High temperature corrosion testing under chlorine-containing molten salt**. In: Journal of Thermal Spray Technology. 2013 ; Vol. 22, No. 5. pp. 783-796.

Donadei, Valentina ; Koivuluoto, Heli ; Sarlin, Essi ; Vuoristo, Petri. / **Lubricated icephobic coatings prepared by flame spraying with hybrid feedstock injection**. In: Surface and Coatings Technology. 2020 ; Vol. 403.

Sarlin, E. ; Honkanen, M. ; Lindgren, M. ; Laihonon, P. ; Juutilainen, M. ; Vippola, M. ; Vuorinen, J. / **The effect of substrate pre-treatment on durability of rubber-stainless steel adhesion**. In: Surfaces and Interfaces. 2020 ; Vol. 21.

Juoksukangas, Janne ; Hintikka, Jouko ; Lehtovaara, Arto ; Mäntylä, Antti ; Vaara, Joonas ; Frondelius, Tero. / **Avoiding the initial adhesive friction peak in fretting**. In: Wear. 2020 ; Vol. 460-461.

Huttunen-Saarivirta, E. ; Kilpi, L. ; Pasanen, A. T. ; Salminen, T. ; Ronkainen, H. / **Tribocorrosion behaviour of tin bronze CuSn12 under a sliding motion in NaCl containing environment : Contact to inert vs. reactive counterbody**. In: Tribology International. 2020 ; Vol. 151.

Baratto, Camilla ; Golovanova, Viktoria ; Faglia, Guido ; Hakola, Hanna ; Niemi, Tapio ; Tkachenko, Nikolai ; Nazarchuk, Bohdan ; Golovanov, Viacheslav. / **On the alignment of ZnO nanowires by Langmuir – Blodgett technique for sensing application**. In: Applied Surface Science. 2020 ; Vol. 528.

Haiko, Oskari ; Kaikkonen, Pentti ; Somani, Mahesh ; Valtonen, Kati ; Kömi, Jukka. / **Characteristics of carbide-free medium-carbon bainitic steels in high-stress abrasive wear conditions.** In: *Wear.* 2020 ; Vol. 456-457.

Haiko, Oskari ; Javaheri, Vahid ; Valtonen, Kati ; Kaijalainen, Antti ; Hannula, Jaakko ; Kömi, Jukka. / **Effect of prior austenite grain size on the abrasive wear resistance of ultra-high strength martensitic steels.** In: *Wear.* 2020 ; Vol. 454-455.

Javanainen, Matti ; Ollila, O. H. Samuli ; Martinez-Seara, Hector. / **Rotational Diffusion of Membrane Proteins in Crowded Membranes.** In: *Journal of Physical Chemistry B.* 2020 ; Vol. 124, No. 15. pp. 2994-3001.

Matikainen, V. ; Koivuluoto, H. ; Vuoristo, P. / **A study of Cr₃C₂-based HVOF- and HVOF-sprayed coatings : Abrasion, dry particle erosion and cavitation erosion resistance.** In: *Wear.* 2020 ; Vol. 446-447.

Hongisto, M. ; Veber, A. ; Boetti, N. G. ; Danto, S. ; Jubera, V. ; Petit, L. / **Transparent Yb³⁺ doped phosphate glass-ceramics.** In: *Ceramics International.* 2020.

Lehtonen, Joonas ; Koivuluoto, Heli ; Ge, Yanling ; Juselius, Aapo ; Hannula, Simo Pekka. / **Cold gas spraying of a high-entropy CrFeNiMn equiatomic alloy.** In: *Coatings.* 2020 ; Vol. 10, No. 1.

Jönkkäri, Ilari ; Poliakova, Valeria ; Mylläri, Ville ; Anderson, Reetta ; Andersson, Mirja ; Vuorinen, Jyrki. / **Compounding and characterization of recycled multilayer plastic films.** In: *Journal of Applied Polymer Science.* 2020.

Tofanello, Aryane ; Freitas, Andre L.M. ; Carvalho, Waldemir M. ; Salminen, Turkka ; Niemi, Tapio ; Souza, Flavio L. / **Hematite Surface Modification toward Efficient Sunlight-Driven Water Splitting Activity : The Role of Gold Nanoparticle Addition.** In: *Journal of Physical Chemistry C.* 2020.

Varis, Tommi ; Suhonen, Tomi ; Jokipii, Mika ; Vuoristo, Petri. / **Influence of powder properties on residual stresses formed in high-pressure liquid fuel HVOF sprayed WC-CoCr coatings.** In: *Surface and Coatings Technology.* 2020 ; Vol. 388.

Khvorost, Taras A. ; Beliaev, Leonid Yu ; Potalueva, Ekaterina ; Laptchenkova, Anastasia V. ; Selyutin, Artem A. ; Bogachev, Nikita A. ; Skripkin, Mikhail Yu ; Ryazantsev, Mikhail N. ; Tkachenko, Nikolai ; Mereshchenko, Andrey S. / **Ultrafast Photochemistry of the [Cr(NCS)₆]³⁻ Complex in Dimethyl Sulfoxide and Dimethylformamide upon Excitation into Ligand-Field Electronic State.** In: *Journal of Physical Chemistry B.* 2020 ; Vol. 124, No. 18. pp. 3724-3733.

Koivuluoto, Heli ; Larjo, Jussi ; Marini, Danilo ; Pulci, Giovanni ; Marra, Francesco. / **Cold-Sprayed Al6061 coatings : Online spray monitoring and influence of process parameters on coating properties.** In: *Coatings.* 2020 ; Vol. 10, No. 4.

Del Cerro, Paloma Roldán ; Teittinen, Henriikka ; Norrbo, Isabella ; Lastusaari, Mika ; Massera, Jonathan ; Petit, Laetitia. / **Novel borosilicate bioactive scaffolds with persistent luminescence.** In: *Biomedical Glasses.* 2020 ; Vol. 6, No. 1. pp. 1-9.

Varis, Tommi ; Suhonen, Tomi ; Laakso, Jarmo ; Jokipii, Mika ; Vuoristo, Petri. / **Evaluation of Residual Stresses and Their Influence on Cavitation Erosion Resistance of High Kinetic HVOF and HVOF-Sprayed WC-CoCr Coatings.** In: *Journal of Thermal Spray Technology.* 2020.

Saarimaa, Ville ; Fuertes, Nuria ; Persson, Dan ; Zavalis, Tommy ; Kaleva, Aaretti ; Nikkanen, Juha-Pekka ; Levänen, Erkki ; Heydari, Golrokh. / **Assessment of pitting corrosion in bare and passivated (wet scCO₂-induced patination and chemical passivation) hot-dip galvanized steel samples with SVET, FTIR, and SEM (EDS).** In: *Materials and Corrosion.* 2020.

Palmolahti, Lauri ; Ali-Löytty, Harri ; Khan, Ramsha ; Saari, Jesse ; Tkachenko, Nikolai V. ; Valden, Mika. / **Modification of Surface States of Hematite-Based Photoanodes by Submonolayer of TiO₂ for Enhanced Solar Water Splitting.** In: *Journal of Physical Chemistry C.* 2020 ; Vol. 124, No. 24. pp. 13094-13101.

Shakun, Alexandra ; Sarlin, Essi ; Vuorinen, Jyrki. / **Energy dissipation in natural rubber latex films : The effect of stabilizers, leaching and acetone-treatment.** In: Journal of Applied Polymer Science. 2020.

Ghazy, Amr ; Safdar, Muhammad ; Lastusaari, Mika ; Aho, Arto ; Tukiainen, Antti ; Savin, Hele ; Guina, Mircea ; Karppinen, Maarit. / **Luminescent (Er,Ho)₂O₃ thin films by ALD to enhance the performance of silicon solar cells.** In: Solar Energy Materials and Solar Cells. 2020 ; Vol. 219.

Haiko, Oskari ; Valtonen, Kati ; Kaijalainen, Antti ; Uusikallio, Sampo ; Hannula, Jaakko ; Liimatainen, Tommi ; Kömi, Jukka. / **Effect of tempering on the impact-abrasive and abrasive wear resistance of ultra-high strength steels.** In: Wear. 2019 ; Vol. 440-441.

Mäntylä, A. ; Hintikka, J. ; Frondelius, T. ; Vaara, J. ; Lehtovaara, A. ; Juoksukangas, J. / **Prediction of contact condition and surface damage by simulating variable friction coefficient and wear.** In: Tribology International. 2019.

Hintikka, Jouko ; Mäntylä, Antti ; Vaara, Joonas ; Frondelius, Tero ; Juoksukangas, Janne ; Lehtovaara, Arto. / **Running-in in fretting, transition from near-stable friction regime to gross sliding.** In: Tribology International. 2019 ; Vol. 143.

Mäntyranta, Aino ; Heino, Vuokko ; Isotahdon, Elisa ; Salminen, Turkka ; Huttunen-Saarivirta, Elina. / **Tribocorrosion behaviour of two low-alloy steel grades in simulated waste solution.** In: Tribology International. 2019 ; Vol. 138. pp. 250-262.

Lehmusto, Juho ; Olin, Miska ; Viljanen, Jan ; Kalliokoski, Joni ; Mylläri, Fanni ; Toivonen, Juha ; Dal Maso, Miikka ; Hupa, Leena. / **Detection of gaseous species during KCl-induced high-temperature corrosion by the means of CPFAAS and CI-API-TOF.** In: Materials and Corrosion. 2019.

Kiilakoski, J. ; Langlade, Cécile ; Koivuluoto, H. ; Vuoristo, P. / **Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings.** In: Surface and Coatings Technology. 2019 ; Vol. 371. pp. 245-254.

Rissanen, Ilari ; Laurson, Lasse. / **Magnetic non-contact friction from domain wall dynamics actuated by oscillatory mechanical motion.** In: Journal of Physics D: Applied Physics. 2019 ; Vol. 52, No. 44.

Matikainen, V. ; Rubio Peregrina, S. ; Ojala, N. ; Koivuluoto, H. ; Schubert, J. ; Houdková, ; Vuoristo, P. / **Erosion wear performance of WC-10Co4Cr and Cr₃C₂-25NiCr coatings sprayed with high-velocity thermal spray processes.** In: Surface and Coatings Technology. 2019 ; Vol. 370. pp. 196-212.

Juoksukangas, Janne ; Nurmi, Verner ; Hintikka, Jouko ; Vippola, Minnamari ; Lehtovaara, Arto ; Mäntylä, Antti ; Vaara, Joonas ; Frondelius, Tero. / **Characterization of cracks formed in large flat-on-flat fretting contact.** In: International Journal of Fatigue. 2019 ; Vol. 124. pp. 361-370.

Banerjee, Shib Shankar ; Hait, Sakrit ; Natarajan, Tamil Selvan ; Wießner, Sven ; Stöckelhuber, Klaus Werner ; Jehnichen, Dieter ; Janke, Andreas ; Fischer, Dieter ; Heinrich, Gert ; Busfield, James J.C. ; Das, Amit. / **Water-Responsive and Mechanically Adaptive Natural Rubber Composites by in Situ Modification of Mineral Filler Structures.** In: Journal of Physical Chemistry B. 2019 ; Vol. 123, No. 24. pp. 5168-5175.

Isoaho, Riku ; Aho, Arto ; Tukiainen, Antti ; Aho, Timo ; Raappana, Marianna ; Salminen, Turkka ; Reuna, Jarno ; Guina, Mircea. / **Photovoltaic properties of low-bandgap (0.7–0.9eV) lattice-matched GaInNAsSb solar junctions grown by molecular beam epitaxy on GaAs.** In: Solar Energy Materials and Solar Cells. 2019 ; Vol. 195. pp. 198-203.

Chintha, A. R. ; Valtonen, K. ; Kuokkala, V. T. ; Kundu, S. ; Peet, M. J. ; Bhadeshia, H. K.D.H. / **Role of fracture toughness in impact-abrasion wear.** In: Wear. 2019 ; Vol. 428-429. pp. 430-437.

Ferraris, S. ; Nommeots-Nomm, A. ; Spriano, S. ; Vernè, E. ; Massera, J. / **Surface reactivity and silanization ability of borosilicate and Mg-Sr-based bioactive glasses**. In: Applied Surface Science. 2019 ; Vol. 475. pp. 43-55.

Valtonen, Kati ; Ojala, Niko ; Haiko, Oskari ; Kuokkala, Veli-Tapani. / **Comparison of various high-stress wear conditions and wear performance of martensitic steels**. In: Wear. 2019 ; Vol. 426-427, No. Part A. pp. 3-13.

Nurmi, Verner ; Hintikka, Jouko ; Juoksukangas, Janne ; Honkanen, Mari ; Vippola, Minnamari ; Lehtovaara, Arto ; Mäntylä, Antti ; Vaara, Joonas ; Frondelius, Tero. / **The formation and characterization of fretting-induced degradation layers using quenched and tempered steel**. In: Tribology International. 2019 ; Vol. 131. pp. 258-267.

Hintikka, Jouko ; Mäntylä, Antti ; Vaara, Joonas ; Frondelius, Tero ; Lehtovaara, Arto. / **Stable and unstable friction in fretting contacts**. In: Tribology International. 2019 ; Vol. 131. pp. 73-82.

Karhu, Marjaana ; Lagerbom, Juha ; Solismaa, Soili ; Honkanen, Mari ; Ismailov, Arnold ; Räisänen, Marja Liisa ; Huttunen-Saarivirta, Elina ; Levänen, Erkki ; Kivikytö-Reponen, Päivi. / **Mining tailings as raw materials for reaction-sintered aluminosilicate ceramics : Effect of mineralogical composition on microstructure and properties**. In: Ceramics International. 2019 ; Vol. 45, No. 4. pp. 4840-4848.

Kiilakoski, Jarkko ; Puranen, Jouni ; Heinonen, Esa ; Koivuluoto, Heli ; Vuoristo, Petri. / **Characterization of Powder-Precursor HVOF-Sprayed Al_2O_3 -YSZ/ ZrO_2 Coatings**. In: Journal of Thermal Spray Technology. 2019 ; Vol. 28, No. 1-2. pp. 98-107.

Huttunen-Saarivirta, E. ; Isotahdon, E. ; Metsäjoki, J. ; Salminen, T. ; Ronkainen, H. ; Carpén, L. / **Behaviour of leaded tin bronze in simulated seawater in the absence and presence of tribological contact with alumina counterbody : Corrosion, wear and tribocorrosion**. In: Tribology International. 2019 ; Vol. 129. pp. 257-271.

Valtonen, Kati ; Ratia, Vilma ; Ramakrishnan, Karthik Ram ; Apostol, Marian ; Terva, Juuso ; Kuokkala, Veli-Tapani. / **Impact wear and mechanical behavior of steels at subzero temperatures**. In: Tribology International. 2019 ; Vol. 129. pp. 476-493.

Haapanen, Janne ; Aromaa, Mikko ; Teisala, Hannu ; Juuti, Paxton ; Tuominen, Mikko ; Sillanpää, Markus ; Stepien, Milena ; Saarinen, Jarkko J. ; Toivakka, Martti ; Kuusipalo, Jurkka ; Mäkelä, Jyrki M. / **On the limit of superhydrophobicity : Defining the minimum amount of TiO_2 nanoparticle coating**. In: Materials Research Express. 2019 ; Vol. 6, No. 3.

Linjamaa, A. ; Lehtovaara, A. ; Kallio, M. ; Léger, A. / **Running-in effects on friction of journal bearings under slow sliding speeds**. In: Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology. 2019.

Banerjee, Shib Shankar ; Natarajan, Tamil S. ; Subramani B., Eshwaran ; Wießner, Sven ; Janke, Andreas ; Heinrich, Gert ; Das, Amit. / **Temperature scanning stress relaxation behavior of water responsive and mechanically adaptive elastomer nanocomposites**. In: Journal of Applied Polymer Science. 2019.

Kiilakoski, Jarkko ; Trache, Richard ; Björklund, Stefan ; Joshi, Shrikant ; Vuoristo, Petri. / **Process Parameter Impact on Suspension-HVOF-Sprayed Cr_2O_3 Coatings**. In: Journal of Thermal Spray Technology. 2019.

Barberi, Jacopo ; Nommeots-Nomm, Amy ; Fiume, Elisa ; Verné, Enrica ; Massera, Jonathan ; Bairo, Francesco. / **Mechanical characterization of pore-graded bioactive glass scaffolds produced by robocasting**. In: Biomedical Glasses. 2019 ; Vol. 5, No. 1. pp. 140-147.

Passananti, Monica ; Zapadinsky, Evgeni ; Zanca, Tommaso ; Kangasluoma, Juha ; Myllys, Nanna ; Rissanen, Matti P. ; Kurtén, Theo ; Ehn, Mikael ; Attoui, Michel ; Vehkamäki, Hanna. / **How well can we predict cluster fragmentation inside a mass spectrometer?**. In: Chemical Communications. 2019 ; Vol. 55, No. 42. pp. 5946-5949.

Rajan, Rathish ; Rainosalo, Egidija ; Ramamoorthy, Sunil Kumar ; Thomas, Selvin P. ; Zavašnik, Janez ; Vuorinen, Jyrki ; Skrifvars, Mikael. / **Mechanical, thermal, and burning properties of viscose fabric composites : Influence of epoxy resin modification**. In: Journal of Applied Polymer Science. 2018 ; Vol. 135, No. 36.

Hiltunen, Arto ; Ruoko, Tero-Petri ; Iivonen, Tomi ; Lahtonen, Kimmo ; Ali-Löytty, Harri ; Sarlin, Essi ; Valden, Mika ; Leskelä, Markku ; Tkachenko, Nikolai. / **Design aspects of all atomic layer deposited TiO₂-Fe₂O₃ scaffold-absorber photoanodes for water splitting.** In: Sustainable Energy & Fuels. 2018 ; Vol. 2, No. 9. pp. 2124-2130.

Kulju, S. ; Riegger, L. ; Koltay, P. ; Mattila, K. ; Hyväluoma, J. / **Fluid flow simulations meet high-speed video : Computer vision comparison of droplet dynamics.** In: Journal of Colloid and Interface Science. 2018 ; Vol. 522. pp. 48-56.

Mikkonen, Riikka ; Mäntysalo, Matti. / **Evaluation of screen printed silver trace performance and long-term reliability against environmental stress on a low surface energy substrate.** In: Microelectronics Reliability. 2018 ; Vol. 86. pp. 54-65.

Kaunisto, Kimmo ; Kotilainen, Minna ; Karhu, Marjaana ; Lagerbom, Juha ; Vuorinen, Tommi ; Honkanen, Mari ; Vippola, Minnamari ; Turunen, Erja. / **The effect of carbon and nickel additions on the precursor synthesis of Cr₃C₂-Ni nanopowder .** In: Ceramics International. 2018 ; Vol. 44, No. 8. pp. 9338-9346.

Goyos-Ball, Lidia ; Prado, Catuxa ; Díaz, Raquel ; Fernández, Elisa ; Ismailov, Arnold ; Kumpulainen, Tero ; Levänen, Erkki ; Torrecillas, Ramón ; Fernández, Adolfo. / **The effects of laser patterning 10CeTZP-Al₂O₃ nanocomposite disc surfaces : Osseous differentiation and cellular arrangement in vitro.** In: Ceramics International. 2018 ; Vol. 44, No. 8. pp. 9472-9478.

Ojha, N. ; Laihinne, T. ; Salminen, T. ; Lastusaari, M. ; Petit, L. / **Influence of the phosphate glass melt on the corrosion of functional particles occurring during the preparation of glass-ceramics.** In: Ceramics International. 2018 ; Vol. 44, No. 10. pp. 11807-11811.

Rasappa, Sozaraj ; Schulte, Lars ; Borah, Dipu ; Hulkkonen, Hanna ; Ndoni, Sokol ; Salminen, Turkka ; Sentharamaikanan, Ramsankar ; Morris, Michael A. ; Niemi, Tapio. / **Morphology evolution of PS-b-PDMS block copolymer and its hierarchical directed self-assembly on block copolymer templates.** In: Microelectronic Engineering. 2018 ; Vol. 192. pp. 1-7.

Sutka, Andris ; Timusk, Martin ; Joost, Urmas ; Ignatans, Reinis ; Maiorov, Mikhail. / **Switchable light reflectance in dilute magneto-optical colloids based on nickel ferrite nanowires.** In: e-Journal of Surface Science and Nanotechnology. 2018 ; Vol. 16. pp. 119-121.

Harra, Juha ; Tuominen, Mikko ; Juuti, Paxton ; Rissler, Jenny ; Koivuluoto, Heli ; Haapanen, Janne ; Niemelä-Anttonen, Henna ; Stenroos, Christian ; Teisala, Hannu ; Lahti, Johanna ; Kuusipalo, Jurkka ; Vuoristo, Petri ; Mäkelä, Jyrki M. / **Characteristics of nFOG, an aerosol-based wet thin film coating technique.** In: Journal of Coatings Technology Research. 2018 ; Vol. 15, No. 3. pp. 623-632.

Melcr, Josef ; Martinez-Seara, Hector ; Nencini, Ricky ; Kolafa, Jiří ; Jungwirth, Pavel ; Ollila, O. H. Samuli. / **Accurate Binding of Sodium and Calcium to a PPOC Bilayer by Effective Inclusion of Electronic Polarization.** In: Journal of Physical Chemistry B. 2018 ; Vol. 122, No. 16. pp. 4546-4557.

Magarkar, Aniket ; Parkkila, Petteri ; Viitala, Tapani ; Lajunen, Tatu ; Mobarak, Edouard ; Licari, Giuseppe ; Cramariuc, Oana ; Vauthey, Eric ; Róg, Tomasz ; Bunker, Alex. / **Membrane bound COMT isoform is an interfacial enzyme : General mechanism and new drug design paradigm.** In: Chemical Communications. 2018 ; Vol. 54, No. 28. pp. 3440-3443.

Matikainen, V. ; Koivuluoto, H. ; Vuoristo, P. ; Schubert, J. ; Houdková. / **Effect of nozzle geometry on the microstructure and properties of hvaf-sprayed wc-10co4cr and cr3c2-25nicr coatings.** In: Journal of Thermal Spray Technology. 2018 ; Vol. 27, No. 4. pp. 680-694.

Sassatelli, Paolo ; Bolelli, Giovanni ; Lassinantti Gualtieri, Magdalena ; Heinonen, Esa ; Honkanen, Mari ; Lusvarghi, Luca ; Manfredini, Tiziano ; Rigon, Rinaldo ; Vippola, Minnamari. / **Properties of HVOF-sprayed Stellite-6 coatings.** In: Surface and Coatings Technology. 2018 ; Vol. 338. pp. 45-62.

Janka, Leo ; Berger, Lutz Michael ; Norpoth, Jonas ; Trache, Richard ; Thiele, Sven ; Tomastik, Christian ; Matikainen, Ville ; Vuoristo, Petri. / **Improving the high temperature abrasion resistance of thermally sprayed Cr₃C₂-NiCr coatings by WC addition.** In: Surface and Coatings Technology. 2018 ; Vol. 337. pp. 296-305.

Vaikuntam, Sankar Raman ; Stöckelhuber, Klaus Werner ; Subramani Bhagavatheswaran, Eshwaran ; Wießner, Sven ; Scheler, Ulrich ; Saalwächter, Kay ; Formanek, Petr ; Heinrich, Gert ; Das, Amit. / **Entrapped Styrene Butadiene Polymer Chains by Sol-Gel-Derived Silica Nanoparticles with Hierarchical Raspberry Structures.** In: Journal of Physical Chemistry B. 2018 ; Vol. 122, No. 6. pp. 2010-2022.

Yury, Korobov ; Filippov, Michael ; Makarov, Aleksey ; Malygina, Irina ; Soboleva, Natalia ; Fantozzi, Davide ; Andrea, Milanti ; Koivuluoto, Heli ; Vuoristo, Petri. / **Arc-sprayed Fe-based coatings from coredwires for wear and corrosion protection in power engineering.** In: Coatings. 2018 ; Vol. 8, No. 2.

Bollelli, Giovanni ; Bursi, Marcello ; Lusvardi, Luca ; Manfredini, Tiziano ; Matikainen, Ville ; Rigon, Rinaldo ; Sassatelli, Paolo ; Vuoristo, Petri. / **Tribology of FeVCrC coatings deposited by HVOF and HVAF thermal spray processes.** In: Wear. 2018 ; Vol. 394-395. pp. 113-133.

Alekseev, Alexander ; Ihalainen, Petri ; Ivanov, Artem ; Domnin, Ivan ; Rosqvist, Emil ; Lemmetyinen, Helge ; Vuorimaa-Laukkanen, Elina ; Peltonen, Jouko ; Vyaz'min, Sergey. / **Stable blue phase polymeric Langmuir-Schaefer films based on unsymmetrical hydroxyalkadiynyl N-arylcarbamate derivatives.** In: Thin Solid Films. 2018 ; Vol. 645. pp. 108-118.

Cappelluti, F. ; Kim, D. ; van Eerden, M. ; Cédola, A. P. ; Aho, T. ; Bissels, G. ; Elsehrawy, F. ; Wu, J. ; Liu, H. ; Mulder, P. ; Bauhuis, G. ; Schermer, J. ; Niemi, T. ; Guina, M. / **Light-trapping enhanced thin-film III-V quantum dot solar cells fabricated by epitaxial lift-off.** In: Solar Energy Materials and Solar Cells. 2018 ; Vol. 181. pp. 83-92.

Vuorinen, E. ; Heino, V. ; Ojala, N. ; Haiko, O. ; Hedayati, A. / **Erosive-abrasive wear behavior of carbide-free bainitic and boron steels compared in simulated field conditions.** In: Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology. 2018 ; Vol. 232, No. 1. pp. 3-13.

Koivuluoto, Heli ; Matikainen, Ville ; Larjo, Jussi ; Vuoristo, Petri. / **Novel Online Diagnostic Analysis for In-Flight Particle Properties in Cold Spraying.** In: Journal of Thermal Spray Technology. 2018 ; Vol. 27, No. 3. pp. 423-432.

Saarimaa, Ville ; Kaleva, Aaretti ; Paunikallio, Teemu ; Nikkanen, Juha-Pekka ; Heinonen, Saara ; Levänen, Erkki ; Väisänen, Pasi ; Markkula, Antti. / **Convenient extraction method for quantification of thin zinc patina layers.** In: Surface and Interface Analysis. 2018 ; Vol. 50, No. 5. pp. 564-570.

Durandin, Nikita A. ; Isokuortti, Jussi ; Efimov, Alexander ; Vuorimaa-Laukkanen, Elina ; Tkachenko, Nikolai V. ; Laaksonen, Timo. / **Efficient photon upconversion at remarkably low annihilator concentrations in a liquid polymer matrix: when less is more.** In: Chemical Communications. 2018 ; Vol. 54, No. 99. pp. 14029-14032.

Saarimaa, Ville ; Kaleva, Aaretti ; Nikkanen, Juha-Pekka ; Heinonen, Saara ; Levänen, Erkki ; Väisänen, Pasi ; Markkula, Antti ; Juhanoja, Jyrki. / **Supercritical carbon dioxide treatment of hot dip galvanized steel as a surface treatment before coating.** In: Surface and Coatings Technology. 2017 ; Vol. 331. pp. 137-142.

Lisitsyna, Ekaterina S. ; Ketola, Tiia-Maaria ; Morin-Picardat, Emmanuelle ; Liang, Huamin ; Hanzlíková, Martina ; Urtti, Arto ; Yliperttula, Marjo ; Vuorimaa-Laukkanen, Elina. / **Time-Resolved Fluorescence Spectroscopy Reveals Fine Structure and Dynamics of Poly(L-lysine) and Polyethylenimine Based DNA Polyplexes.** In: Journal of Physical Chemistry B. 2017 ; Vol. 121, No. 48. pp. 10782-10792.

Christophliemk, Hanna ; Johansson, Caisa ; Ullsten, Henrik ; Järnström, Lars. / **Oxygen and water vapor transmission rates of starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper.** In: Progress in Organic Coatings. 2017 ; Vol. 113. pp. 218-224.

Santangelo, Paolo E. ; Allesina, Giulio ; Bolelli, Giovanni ; Lusvarghi, Luca ; Matikainen, Ville ; Vuoristo, Petri. / **Infrared Thermography as a Non-destructive Testing Solution for Thermal Spray Metal Coatings**. In: Journal of Thermal Spray Technology. 2017 ; Vol. 26, No. 8. pp. 1982–1993.

Sarlin, Essi ; Saarimäki, Meri ; Sironen, Reija ; Lindgren, Mari ; Siljander, Sanna ; Kanerva, Mikko ; Vuorinen, Jyrki. / **Erosive wear of filled vinylester composites in water and acidic media at elevated temperature**. In: Wear. 2017 ; Vol. 390-391. pp. 84-92.

Holmberg, Kenneth ; Kivikytö-Reponen, Päivi ; Härkisaari, Pirita ; Valtonen, Kati ; Erdemir, Ali. / **Global energy consumption due to friction and wear in the mining industry**. In: Tribology International. 2017 ; Vol. 115. pp. 116-139.

Brobbey, Kofi J. ; Haapanen, Janne ; Gunell, Marianne ; Mäkelä, Jyrki M. ; Eerola, Erkki ; Toivakka, Martti ; Saarinen, Jarkko J. / **One-step flame synthesis of silver nanoparticles for roll-to-roll production of antibacterial paper**. In: Applied Surface Science. 2017 ; Vol. 420. pp. 558-565.

Välimäki, Hannu ; Verho, Jarmo ; Kreutzer, Joose ; Kattipparambil Rajan, Dhanesh ; Ryyänen, Tomi ; Pekkanen-Mattila, Mari ; Ahola, Antti ; Tappura, Kirsi ; Kallio, Pasi ; Lekkala, Jukka. / **Fluorimetric oxygen sensor with an efficient optical read-out for in vitro cell models**. In: Sensors and Actuators B: Chemical. 2017 ; Vol. 249. pp. 738-746.

Christophliemk, Hanna ; Ullsten, Henrik ; Johansson, Caisa ; Järnström, Lars. / **Starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper and their effects of phase interactions**. In: Progress in Organic Coatings. 2017 ; Vol. 111. pp. 13-22.

Heinonen, Saara ; Nikkanen, Juha-Pekka ; Huttunen-Saarivirta, Elina ; Levänen, Erkki. / **Investigation of long-term chemical stability of structured ZnO films in aqueous solutions of varying conditions**. In: Thin Solid Films. 2017 ; Vol. 638. pp. 410-419.

Isakov, M. ; Matikainen, V. ; Koivuluoto, H. ; May, M. / **Systematic analysis of coating-substrate interactions in the presence of flow localization**. In: Surface and Coatings Technology. 2017 ; Vol. 324. pp. 264-280.

Tkalich, Dmitry ; Li, Charlie C. ; Kane, Alexandre ; Saai, Afaf ; Tkalich, Dmitry ; Yastrebov, Vladislav A. ; Hokka, Mikko ; Kuokkala, Veli-Tapani ; Bengtsson, Maria ; From, Anna. / **Wear of cemented tungsten carbide percussive drill-bit inserts : Laboratory and field study**. In: Wear. 2017 ; Vol. 386-387. pp. 106-117.

Matikainen, V. ; Bolelli, G. ; Koivuluoto, H. ; Honkanen, M. ; Vippola, M. ; Lusvarghi, L. ; Vuoristo, P. / **A Study of Cr₃C₂-Based HVOF- and HVAF-Sprayed Coatings : Microstructure and Carbide Retention**. In: Journal of Thermal Spray Technology. 2017 ; Vol. 26, No. 6. pp. 1-18.

Rahaman, Obaidur ; Kalimeri, Maria ; Katava, Marina ; Paciaroni, Alessandro ; Sterpone, Fabio. / **Configurational Disorder of Water Hydrogen-Bond Network at the Protein Dynamical Transition**. In: Journal of Physical Chemistry Part B. 2017 ; Vol. 121, No. 28. pp. 6792-6798.

Poikelispää, Minna ; Shakun, Alexandra ; Sarlin, Essi ; Das, Amit ; Vuorinen, Jyrki. / **Vegetable fillers for electric stimuli responsive elastomers**. In: Journal of Applied Polymer Science. 2017 ; Vol. 134, No. 28.

Palola, S. ; Sarlin, E. ; Kolahgar Azari, S. ; Koutsos, V. ; Vuorinen, J. / **Microwave induced hierarchical nanostructures on aramid fibers and their influence on adhesion properties in a rubber matrix**. In: Applied Surface Science. 2017 ; Vol. 410. pp. 145-153.

Kotilainen, Minna ; Krumpolec, Richard ; Franta, Daniel ; Souček, Pavel ; Homola, Tomáš ; Cameron, David C. ; Vuoristo, Petri. / **Hafnium oxide thin films as a barrier against copper diffusion in solar absorbers**. In: Solar Energy Materials and Solar Cells. 2017 ; Vol. 166. pp. 140-146.

Baek, Jinseok ; Umeyama, Tomokazu ; Stranius, Kati ; Yamada, Hiroki ; Tkachenko, Nikolai V. ; Imahori, Hiroshi. / **Long-Range Observation of Exciplex Formation and Decay Mediated by One-Dimensional Bridges**. In: Journal of Physical Chemistry C. 2017 ; Vol. 121, No. 25. pp. 13952-13961.

Ma, Li ; Laasonen, Kari ; Akola, Jaakko. / **Catalytic Activity of AuCu Clusters on MgO(100) : Effect of Alloy Composition for CO Oxidation**. In: Journal of Physical Chemistry C. 2017 ; Vol. 121, No. 20. pp. 10876-10886.

Goh, Jing-Qiang ; Akola, Jaakko ; Ferrando, Riccardo. / **Geometric Structure and Chemical Ordering of Large AuCu Clusters : A Computational Study**. In: Journal of Physical Chemistry C. 2017 ; Vol. 121, No. 20. pp. 10809-10816.

Virkki, Kirsi ; Hakola, Hanna ; Urbani, Maxence ; Tejerina, Lara ; Ince, Mine ; Martínez-Díaz, M. Victoria ; Torres, Tomás ; Golovanova, Viktoria ; Golovanov, Viacheslav ; Tkachenko, Nikolai V. / **Photoinduced Electron Injection from Zinc Phthalocyanines into Zinc Oxide Nanorods : Aggregation Effects**. In: Journal of Physical Chemistry C. 2017 ; Vol. 121, No. 17. pp. 9594-9605.

Hintikka, Jouko ; Lehtovaara, Arto ; Mäntylä, Antti. / **Third Particle Ejection Effects on Wear with Quenched and Tempered Steel Fretting Contact**. In: TRIBOLOGY TRANSACTIONS. 2017 ; Vol. 60, No. 1. pp. 70-78.

Vuori, Leena ; Ali-Löyty, Harri ; Lahtonen, Kimmo ; Hannula, Markku ; Lehtonen, Elina ; Niu, Yuran ; Valden, Mika. / **Improved corrosion properties of Hot Dip Galvanized Steel by nanomolecular silane layers as hybrid interface between zinc and top coatings**. In: Corrosion. 2017 ; Vol. 73, No. 2.

Matikainen, V. ; Bolelli, G. ; Koivuluoto, H. ; Sassatelli, P. ; Lusvarghi, L. ; Vuoristo, P. / **Sliding wear behaviour of HVOF and HVOF sprayed Cr₃C₂-based coatings**. In: Wear. 2017 ; Vol. 388-389. pp. 57-71.

Oksanen, V. T. ; Lehtovaara, A. J. ; Kallio, M. H. / **Load capacity of lubricated bismuth bronze bimetal bearing under elliptical sliding motion**. In: Wear. 2017 ; Vol. 388-389. pp. 72-80.

Salpavaara, Timo ; Hänninen, Alekski ; Antniemi, Anni ; Lekkala, Jukka ; Kellomäki, Minna. / **Non-destructive and wireless monitoring of biodegradable polymers**. In: Sensors and Actuators B: Chemical. 2017 ; Vol. 251. pp. 1018-1025.

Lampio, Kaj ; Karvinen, Reijo. / **Optimization of convectively cooled heat sinks**. In: Microelectronics Reliability. 2017 ; Vol. 79. pp. 473-479.

Javanainen, Matti ; Melcrová, Adéla ; Magarkar, Aniket ; Jurkiewicz, Piotr ; Hof, Martin ; Jungwirth, Pavel ; Martinez-Seara, Hector. / **Two cations, two mechanisms : Interactions of sodium and calcium with zwitterionic lipid membranes**. In: Chemical Communications. 2017 ; Vol. 53, No. 39. pp. 5380-5383.

Janka, L. ; Norpoth, J. ; Trache, R. ; Thiele, S. ; Berger, L. M. / **HVOF- and HVOF-Sprayed Cr₃C₂-NiCr Coatings Deposited from Feedstock Powders of Spherical Morphology : Microstructure Formation and High-Stress Abrasive Wear Resistance Up to 800 °C**. In: Journal of Thermal Spray Technology. 2017 ; Vol. 26, No. 7. pp. 1720-1731.

Sarjas, Heikki ; Surzhenkov, Andrei ; Juhani, Kristjan ; Antonov, Maksim ; Adoberg, Eron ; Kulu, Priit ; Viljus, Mart ; Traksmäa, Rainer ; Matikainen, Ville ; Vuoristo, Petri. / **Abrasive-Erosive Wear of Thermally Sprayed Coatings from Experimental and Commercial Cr₃C₂-Based Powders**. In: Journal of Thermal Spray Technology. 2017 ; Vol. 26, No. 8. pp. 2020-2029.

Baek, Jinseok ; Umeyama, Tomokazu ; Mizuno, Satoshi ; Tkachenko, Nikolai V. ; Imahori, Hiroshi. / **Photophysical properties of porphyrin dimer-single-walled carbon nanotube linked systems**. In: Journal of Physical Chemistry C. 2017 ; Vol. 121, No. 39.

Haiko, O. ; Miettunen, I. ; Porter, D. ; Ojala, N. ; Ratia, V. ; Heino, V. ; Kemppainen, A. / **Effect of finish rolling and quench stop temperatures on impact-abrasive wear resistance of 0.35 % carbon direct-quenched steel**. In: Tribologia. 2017 ; Vol. 35, No. 1-2. pp. 5-21.

Tuominen, Mikko ; Teisala, Hannu ; Haapanen, Janne ; Mäkelä, Jyrki M. ; Honkanen, Mari ; Vippola, Minnamari ; Bardage, Stig ; Wålinder, Magnus E P ; Swerin, Agne. / **Superamphiphobic overhang structured coating on a biobased material**. In: Applied Surface Science. 2016 ; Vol. 389. pp. 135-143.

Varis, T. ; Suhonen, T. ; Calonius, O. ; Čuban, J. ; Pietola, M. / **Optimization of HVOF Cr₃C₂-NiCr coating for increased fatigue performance**. In: Surface and Coatings Technology. 2016 ; Vol. 305. pp. 123-131.

Poikelispää, Minna ; Shakun, Alexandra ; Das, Amit ; Vuorinen, Jyrki. / **Improvement of actuation performance of dielectric elastomers by barium titanate and carbon black fillers**. In: Journal of Applied Polymer Science. 2016 ; Vol. 133, No. 42.

Juoksukangas, Janne ; Lehtovaara, Arto ; Mäntylä, Antti. / **Experimental and numerical investigation of fretting fatigue behavior in bolted joints**. In: Tribology International. 2016 ; Vol. 103. pp. 440-448.

Lindgren, M. ; Siljander, S. ; Suihkonen, R. ; Pohjanne, P. ; Vuorinen, J. / **Erosion–corrosion resistance of various stainless steel grades in high-temperature sulfuric acid solution**. In: Wear. 2016 ; Vol. 364-365. pp. 10-21.

Juoksukangas, J. ; Lehtovaara, A. ; Mäntylä, A. / **A comparison of relative displacement fields between numerical predictions and experimental results in fretting contact**. In: Proceedings of the institution of Mechanical Engineers Part J: Journal of Engineering Tribology. 2016 ; Vol. 230, No. 10. pp. 1273-1287.

Myllymäki, Sami ; Putaala, Jussi ; Hannu, Jari ; Kunnari, Esa ; Mäntysalo, Matti. / **RF measurements to pinpoint defects in inkjet-printed, thermally and mechanically stressed coplanar waveguides**. In: Microelectronics Reliability. 2016 ; Vol. 65. pp. 142-150.

Heinonen, Saara ; Kannisto, Matti ; Nikkanen, Juha-Pekka ; Huttunen-Saarivirta, Elina ; Karp, Matti ; Levänen, Erkki. / **Photocatalytic and antibacterial properties of ZnO films with different surface topographies on stainless steel substrate**. In: Thin Solid Films. 2016 ; Vol. 616. pp. 842-849.

Robison, Aaron D. ; Sun, Simou ; Poyton, Matthew F. ; Johnson, Gregory A. ; Pellois, Jean Philippe ; Jungwirth, Pavel ; Vazdar, Mario ; Cremer, Paul S. / **Polyarginine Interacts More Strongly and Cooperatively than Polylysine with Phospholipid Bilayers**. In: Journal of Physical Chemistry Part B. 2016 ; Vol. 120, No. 35. pp. 9287-9296.

Mylläri, Ville ; Hartikainen, Samuel ; Poliakova, Valeria ; Anderson, Reetta ; Jönkkäri, Ilari ; Pasanen, Pertti ; Andersson, Mirja ; Vuorinen, Jyrki. / **Detergent impurity effect on recycled HDPE : Properties after repetitive processing**. In: Journal of Applied Polymer Science. 2016 ; Vol. 133, No. 31.

Kapgate, Bharat P. ; Das, Chayan ; Das, Amit ; Basu, Debdipta ; Wiessner, Sven ; Reuter, Uta ; Heinrich, Gert. / **Reinforced chloroprene rubber by in situ generated silica particles : Evidence of bound rubber on the silica surface**. In: Journal of Applied Polymer Science. 2016 ; Vol. 133, No. 30.

Alekseev, Alexander ; Ihalainen, Petri ; Ivanov, Artem ; Domnin, Ivan ; Klechkovskaya, Vera ; Orekhov, Anton ; Lemmetyinen, Helge ; Vuorimaa-Laukkanen, Elina ; Peltonen, Jouko ; Vyaz'min, Sergey. / **The red, purple and blue modifications of polymeric unsymmetrical hydroxyalkadiynyl-N-arylcarbamate derivatives in Langmuir-Schaefer films**. In: Thin Solid Films. 2016 ; Vol. 612. pp. 463-471.

Bolelli, G. ; Berger, L. M. ; Börner, T. ; Koivuluoto, H. ; Matikainen, V. ; Lusvarghi, L. ; Lyphout, C. ; Markocsan, N. ; Nylén, P. ; Sassatelli, P. ; Trache, R. ; Vuoristo, P. / **Sliding and abrasive wear behaviour of HVOF- and HVOF-sprayed Cr₃C₂-NiCr hardmetal coatings**. In: Wear. 2016 ; Vol. 358-359. pp. 32-50.

- Suihkonen, Reija ; Lindgren, Mari ; Siljander, Sanna ; Sarlin, Essi ; Vuorinen, Jyrki. / **Erosion wear of vinylester matrix composites in aqueous and acidic environments at elevated temperatures**. In: *Wear*. 2016 ; Vol. 358-359. pp. 7-16.
- Kiilakoski, Jarkko ; Lindroos, Matti ; Apostol, Marian ; Koivuluoto, Heli ; Kuokkala, Veli-Tapani ; Vuoristo, Petri. / **Characterization of High-Velocity Single Particle Impacts on Plasma-Sprayed Ceramic Coatings**. In: *Journal of Thermal Spray Technology*. 2016 ; Vol. 25. pp. 1127-1137.
- Milanti, A. ; Matikainen, V. ; Bolelli, G. ; Koivuluoto, H. ; Lusvardi, L. ; Vuoristo, P. / **Microstructure and Sliding Wear Behavior of Fe-Based Coatings Manufactured with HVOF and HVOF Thermal Spray Processes**. In: *Journal of Thermal Spray Technology*. 2016 ; Vol. 25, No. 5. pp. 1040-1055.
- Polojärvi, Ville ; Aho, Arto ; Tukiainen, Antti ; Raappana, Marianna ; Aho, Timo ; Schramm, Andreas ; Guina, Mircea. / **Influence of As/group-III flux ratio on defects formation and photovoltaic performance of GaInNAs solar cells**. In: *Solar Energy Materials and Solar Cells*. 2016 ; Vol. 149. pp. 213-220.
- Hakola, Hanna ; Sariola-Leikas, Essi ; Efimov, Alexander ; Tkachenko, Nikolai V. / **Effect of Hole Transporting Material on Charge Transfer Processes in Zinc Phthalocyanine Sensitized ZnO Nanorods**. In: *Journal of Physical Chemistry C*. 2016 ; Vol. 120, No. 13. pp. 7044-7051.
- Janka, Leo ; Norpoth, Jonas ; Trache, Richard ; Berger, Lutz Michael. / **Influence of heat treatment on the abrasive wear resistance of a Cr₃C₂NiCr coating deposited by an ethene-fuelled HVOF spray process**. In: *Surface and Coatings Technology*. 2016 ; Vol. 291. pp. 444-451.
- Heydari, Golrokh ; Sedighi Moghaddam, Maziar ; Tuominen, Mikko ; Fielden, Matthew ; Haapanen, Janne ; Mäkelä, Jyrki M. ; Claesson, Per M. / **Wetting hysteresis induced by temperature changes : Supercooled water on hydrophobic surfaces**. In: *Journal of Colloid and Interface Science*. 2016 ; Vol. 468. pp. 21-33.
- Katava, Marina ; Kalimeri, Maria ; Stirnemann, Guillaume ; Sterpone, Fabio. / **Stability and Function at High Temperature. What Makes a Thermophilic GTPase Different from Its Mesophilic Homologue**. In: *Journal of Physical Chemistry Part B*. 2016 ; Vol. 120, No. 10. pp. 2721-2730.
- Selvan, N. Tamil ; Eshwaran, S. B. ; Das, A. ; Stöckelhuber, K. W. ; Wießner, S. ; Pötschke, P. ; Nando, G. B. ; Chervanyov, A. I. ; Heinrich, G. / **Piezoresistive natural rubber-multiwall carbon nanotube nanocomposite for sensor applications**. In: *Sensors and Actuators, A: Physical*. 2016 ; Vol. 239. pp. 102-113.
- Ali-Löytty, Harri ; Louie, Mary W. ; Singh, Meenesh R. ; Li, Lin ; Sanchez Casalongue, Hernan G. ; Ogasawara, Hirohito ; Crumlin, Ethan J. ; Liu, Zhi ; Bell, Alexis T. ; Nilsson, Anders ; Friebel, Daniel. / **Ambient-Pressure XPS Study of a Ni-Fe Electrocatalyst for the Oxygen Evolution Reaction**. In: *Journal of Physical Chemistry C*. 2016 ; Vol. 120, No. 4. pp. 2247-2253.
- Allolio, Christoph ; Baxova, Katarina ; Vazdar, Mario ; Jungwirth, Pavel. / **Guanidinium Pairing Facilitates Membrane Translocation**. In: *Journal of Physical Chemistry Part B*. 2016 ; Vol. 120, No. 1. pp. 143-153.
- Andersson, P. ; Kilpi, L. ; Holmberg, K. ; Vaajoki, A. ; Oksanen, V. / **Static friction measurements on steel against uncoated and coated cast iron**. In: *Tribologia*. 2016 ; Vol. 34, No. 1-2. pp. 5-40.
- Hintikka, Jouko ; Lehtovaara, Arto ; Mäntylä, Antti. / **Normal displacements in non-Coulomb friction conditions during fretting**. In: *Tribology International*. 2016 ; Vol. 94. pp. 633-639.
- Kotilainen, M. ; Honkanen, M. ; Mizohata, K. ; Vuoristo, P. / **Influence of temperature-induced copper diffusion on degradation of selective chromium oxy-nitride solar absorber coatings**. In: *Solar Energy Materials and Solar Cells*. 2016 ; Vol. 145. pp. 323-332.

Bolelli, Giovanni ; Milanti, Andrea ; Lusvarghi, Luca ; Trombi, Lorenzo ; Koivuluoto, Heli ; Vuoristo, Petri. / **Wear and impact behaviour of High Velocity Air-Fuel sprayed Fe-Cr-Ni-B-C alloy coatings**. In: Tribology International. 2016 ; Vol. 95. pp. 372-390.

Ratia, Vilma ; Valtonen, Kati ; Kemppainen, Anu ; Kuokkala, Veli Tapani. / **The role of edge-concentrated wear in impact-abrasion testing**. In: Tribology Online. 2016 ; Vol. 11, No. 2. pp. 410-416.

Tuominen, J. ; Näkki, J. ; Pajukoski, H. ; Hyvärinen, L. ; Vuoristo, P. / **Microstructural and abrasion wear characteristics of laser-clad tool steel coatings**. In: Surface Engineering. 2016 ; Vol. 32, No. 12. pp. 923-933.

Auer, Sanna ; Koho, Tiia ; Uusi-Kerttula, Hanni ; Vesikari, Timo ; Blazevic, Vesna ; Hytönen, Vesa P. / **Rapid and sensitive detection of norovirus antibodies in human serum with a bilayer interferometry biosensor**. In: Sensors and Actuators B: Chemical. 2015 ; Vol. 221. pp. 507-514.

Oksanen, V. ; Valtonen, K. ; Andersson, P. ; Vaajoki, A. ; Laukkanen, A. ; Holmberg, K. ; Kuokkala, V. T. / **Comparison of laboratory rolling-sliding wear tests with in-service wear of nodular cast iron rollers against wire ropes**. In: Wear. 2015 ; Vol. 340-341. pp. 73-81.

Mylläri, Ville ; Fatarella, Enrico ; Ruzzante, Marco ; Pogni, Rebecca ; Baratto, Maria Camilla ; Skrifvars, Mikael ; Syrjälä, Seppo ; Järvelä, Pentti. / **Production of sulfonated polyetheretherketone/polypropylene fibers for photoactive textiles**. In: Journal of Applied Polymer Science. 2015 ; Vol. 132, No. 39.

Tamminen, Pasi ; Viheriäkoski, Toni ; Sydänheimo, Lauri ; Ukkonen, Leena. / **ESD qualification data used as the basis for building electrostatic discharge protected areas**. In: Journal of Electrostatics. 2015 ; Vol. 77. pp. 174-181.

Orlowski, Adam ; Kukkurainen, Sampo ; Pöyry, Annika ; Rissanen, Sami ; Vattulainen, Ilpo ; Hytönen, Vesa P. ; Róg, Tomasz. / **PIP2 and Talin Join Forces to Activate Integrin**. In: Journal of Physical Chemistry Part B. 2015 ; Vol. 119, No. 38. pp. 12381-12389.

Kiilakoski, J. ; Eronen, V. ; Vuoristo, P. / **Wear Properties of Thermally Sprayed Tungsten-Carbide Coatings in Paper Machine Environments**. In: Tribologia - Finnish Journal of Tribology. 2015 ; Vol. 33, No. 2. pp. 29.

Bhagavatheswaran, Eshwaran Subramani ; Parsekar, Meenali ; Das, Amit ; Le, Hai Hong ; Wiessner, Sven ; Stöckelhuber, Klaus Werner ; Schmaucks, Gerd ; Heinrich, Gert. / **Construction of an Interconnected Nanostructured Carbon Black Network : Development of Highly Stretchable and Robust Elastomeric Conductors**. In: Journal of Physical Chemistry C. 2015 ; Vol. 119, No. 37. pp. 21723-21731.

Milanti, A. ; Matikainen, V. ; Koivuluoto, H. ; Bolelli, G. ; Lusvarghi, L. ; Vuoristo, P. / **Effect of spraying parameters on the microstructural and corrosion properties of HVOF-sprayed Fe-Cr-Ni-B-C coatings**. In: Surface and Coatings Technology. 2015 ; Vol. 277. pp. 81-90.

Goh, Jing Qiang ; Akola, Jaakko. / **Superatom Model for Ag-S Nanocluster with Delocalized Electrons**. In: Journal of Physical Chemistry C. 2015 ; Vol. 119, No. 36. pp. 21165-21172.

Lepcha, A. ; Maccato, C. ; Mettenböcker, A. ; Andreu, T. ; Mayrhofer, L. ; Walter, M. ; Olthof, S. ; Ruoko, T. P. ; Klein, A. ; Moseler, M. ; Meerholz, K. ; Morante, J. R. ; Barreca, D. ; Mathur, S. / **Electrospun Black Titania Nanofibers : Influence of Hydrogen Plasma-Induced Disorder on the Electronic Structure and Photoelectrochemical Performance**. In: Journal of Physical Chemistry C. 2015 ; Vol. 119, No. 33. pp. 18835-18842.

Kwolek, Urszula ; Kulig, Waldemar ; Wydro, Paweł ; Nowakowska, Maria ; Róg, Tomasz ; Kepczynski, Mariusz. / **Effect of Phosphatidic Acid on Biomembrane : Experimental and Molecular Dynamics Simulations Study**. In: Journal of Physical Chemistry Part B. 2015 ; Vol. 119, No. 31. pp. 10042-10051.

Kanerva, Ulla ; Suhonen, Tomi ; Lagerbom, Juha ; Levänen, Erkki. / **Evaluation of crushing strength of spray-dried MgAl₂O₄ granule beds**. In: *Ceramics International*. 2015 ; Vol. 41, No. 7. pp. 8494-8500.

Timr, Štěpán ; Brabec, Jiří ; Bondar, Alexey ; Ryba, Tomáš ; Železný, Miloš ; Lazar, Josef ; Jungwirth, Pavel. / **Nonlinear Optical Properties of Fluorescent Dyes Allow for Accurate Determination of Their Molecular Orientations in Phospholipid Membranes**. In: *Journal of Physical Chemistry Part B*. 2015 ; Vol. 119, No. 30. pp. 9706-9716.

Virkki, Kirsi ; Demir, Sinem ; Lemmetyinen, Helge ; Tkachenko, Nikolai V. / **Photoinduced Electron Transfer in CdSe/ZnS Quantum Dot-Fullerene Hybrids**. In: *Journal of Physical Chemistry C*. 2015 ; Vol. 119, No. 31. pp. 17561-17572.

Rahaman, Obaidur ; Kalimeri, Maria ; Melchionna, Simone ; Hénin, Jérôme ; Sterpone, Fabio. / **Role of Internal Water on Protein Thermal Stability : The Case of Homologous G Domains**. In: *Journal of Physical Chemistry Part B*. 2015 ; Vol. 119, No. 29. pp. 8939-8949.

Hintikka, Jouko ; Lehtovaara, Arto ; Mäntylä, Antti. / **Fretting-induced friction and wear in large flat-on-flat contact with quenched and tempered steel**. In: *Tribology International*. 2015 ; Vol. 92. pp. 191-202.

Mylläri, Ville ; Ruoko, Tero-Petri ; Syrjälä, Seppo. / **A comparison of rheology and FTIR in the study of polypropylene and polystyrene photodegradation**. In: *Journal of Applied Polymer Science*. 2015 ; Vol. 132, No. 28.

Abou-Chahine, Fawzi ; Fujii, Daisuke ; Imahori, Hiroshi ; Nakano, Haruyuki ; Tkachenko, Nikolai V. ; Matano, Yoshihiro ; Lemmetyinen, Helge. / **Synthesis and Photophysical Properties of Two Diazaporphyrin-Porphyrin Hetero Dimers in Polar and Nonpolar Solutions**. In: *Journal of Physical Chemistry Part B*. 2015 ; Vol. 119, No. 24. pp. 7328-7337.

Salpavaara, Timo ; Järveläinen, Matti ; Seppälä, Sari ; Yli-Hallila, Teemu ; Verho, Jarmo ; Vilkkö, Matti ; Lekkala, Jukka ; Levänen, Erkki. / **Passive resonance sensor based method for monitoring particle suspensions**. In: *Sensors and Actuators B: Chemical*. 2015 ; Vol. 219. pp. 324-330.

Dzieciuch, Monika ; Rissanen, Sami ; Szydłowska, Natalia ; Bunker, Alex ; Kumorek, Marta ; Jamróz, Dorota ; Vattulainen, Ilpo ; Nowakowska, Maria ; Róg, Tomasz ; Kepczynski, Mariusz. / **PEGylated liposomes as carriers of hydrophobic porphyrins**. In: *Journal of Physical Chemistry Part B*. 2015 ; Vol. 119, No. 22. pp. 6646-6657.

Hladílková, Jana ; Fischer, Henry E. ; Jungwirth, Pavel ; Mason, Philip E. / **Hydration of hydroxyl and amino groups examined by molecular dynamics and neutron scattering**. In: *Journal of Physical Chemistry Part B*. 2015 ; Vol. 119, No. 21. pp. 6357-6365.

Song, Xuemei ; Liu, Ziwei ; Suhonen, Tomi ; Varis, Tommi ; Huang, Liping ; Zheng, Xuebin ; Zeng, Yi. / **Effect of melting state on the thermal shock resistance and thermal conductivity of APS ZrO₂-7.5wt.% Y₂O₃ coatings**. In: *Surface and Coatings Technology*. 2015 ; Vol. 270. pp. 132-138.

Lindroos, Matti ; Ratia, Vilma ; Apostol, Marian ; Valtonen, Kati ; Laukkanen, Anssi ; Molnar, Wolfgang ; Holmberg, Kenneth ; Kuokkala, Veli Tapani. / **The effect of impact conditions on the wear and deformation behavior of wear resistant steels**. In: *Wear*. 2015 ; Vol. 328-329. pp. 197-205.

Lindgren, M. ; Suihkonen, R. ; Vuorinen, J. / **Erosive wear of various stainless steel grades used as impeller blade materials in high temperature aqueous slurry**. In: *Wear*. 2015 ; Vol. 328-329. pp. 391-400.

Karilainen, Topi ; Timr, Štěpán ; Vattulainen, Ilpo ; Jungwirth, Pavel. / **Oxidation of cholesterol does not alter significantly its uptake into high-density lipoprotein particles**. In: *Journal of Physical Chemistry Part B*. 2015 ; Vol. 119, No. 13. pp. 4594-4600.

Bolelli, G. ; Berger, L. M. ; Börner, T. ; Koivuluoto, H. ; Lusvarghi, L. ; Lyphout, C. ; Markocsan, N. ; Matikainen, V. ; Nylén, P. ; Sassatelli, P. ; Trache, R. ; Vuoristo, P. / **Tribology of HVOF- and HVOF-sprayed WC-10Co4Cr hardmetal coatings : A comparative assessment**. In: *Surface and Coatings Technology*. 2015 ; Vol. 265. pp. 125-144.

Varis, T. ; Bankiewicz, D. ; Yrjas, P. ; Oksa, M. ; Suhonen, T. ; Tuurna, S. ; Ruusuvuori, K. ; Holmström, S. / **High temperature corrosion of thermally sprayed NiCr and FeCr coatings covered with a KCl-K₂SO₄ salt mixture**. In: Surface and Coatings Technology. 2015 ; Vol. 265. pp. 235-243.

Eshwaran, Subramani Bhagavatheswaran ; Basu, Debdipta ; Vaikuntam, Sankar Raman ; Kutlu, Burak ; Wiessner, Sven ; Das, Amit ; Naskar, Kinsuk ; Heinrich, Gert. / **Exploring the role of stearic acid in modified zinc aluminum layered double hydroxides and their acrylonitrile butadiene rubber nanocomposites**. In: Journal of Applied Polymer Science. 2015 ; Vol. 132, No. 9.

Fatarelle, Enrico ; Mylläri, Ville ; Ruzzante, Marco ; Pogni, Rebecca ; Baratto, Maria Camilla ; Skrifvars, Mikael ; Syrjälä, Seppo ; Järvelä, Pentti. / **Sulfonated polyetheretherketone/polypropylene polymer blends for the production of photoactive materials**. In: Journal of Applied Polymer Science. 2015 ; Vol. 132, No. 8.

Goh, Jing-Qiang ; Malola, Sami ; Häkkinen, Hannu ; Akola, Jaakko. / **Silver sulfide nanoclusters and the superatom model**. In: Journal of Physical Chemistry C. 2015 ; Vol. 119, No. 3. pp. 1583-1590.

Ratia, Vilma ; Rojacz, Harald ; Terva, Juuso ; Valtonen, Kati ; Badisch, Ewald ; Kuokkala, Veli Tapani. / **Effect of Multiple Impacts on the Deformation of Wear-Resistant Steels**. In: Tribology Letters. 2015 ; Vol. 57, No. 2.

Heiskanen, J. P. ; Manninen, V. M. ; Pankov, D. ; Omar, W. A. E. ; Kastinen, T. ; Hukka, T. I. ; Lemmetyinen, H. J. ; Hormi, O. E. O. / **Aryl end-capped quaterthiophenes applied as anode interfacial layers in inverted organic solar cells**. In: Thin Solid Films. 2015 ; Vol. 574. pp. 196-206.

Björling, M. ; Miettinen, J. ; Marklund, P. ; Lehtovaara, A. ; Larsson, R. / **The correlation between gear contact friction and ball on disc friction measurements**. In: Tribology International. 2015 ; Vol. 83. pp. 114-119.

Niittymäki, Minna ; Lahti, Kari ; Suhonen, Tomi ; Metsäjoki, Jarkko. / **Dielectric Breakdown Strength of Thermally Sprayed Ceramic Coatings : Effects of Different Test Arrangements**. In: Journal of Thermal Spray Technology. 2015 ; Vol. 24, No. 3. pp. 542-551.

Singh, Simran ; Valkama, Mikko ; Epp, Michael ; Anttila, Lauri ; Schlecker, Wolfgang ; Ingber, Elmar. / **Digital correction of frequency response mismatches in 2-channel time-interleaved ADCs using adaptive I/Q signal processing**. In: Analog Integrated Circuits and Signal Processing. 2015 ; Vol. 82, No. 3. pp. 543-555.

Lindroos, Matti ; Apostol, Marian ; Heino, Vuokko ; Valtonen, Kati ; Laukkanen, Anssi ; Holmberg, Kenneth ; Kuokkala, Veli Tapani. / **The deformation, strain hardening, and wear behavior of chromium-alloyed hadfield steel in abrasive and impact conditions**. In: Tribology Letters. 2015 ; Vol. 57, No. 3.

Milanti, A. ; Koivuluoto, H. ; Vuoristo, P. / **Influence of the Spray Gun Type on Microstructure and Properties of HVOF Sprayed Fe-Based Corrosion Resistant Coatings**. In: Journal of Thermal Spray Technology. 2015 ; Vol. 24, No. 7. pp. 1312-1322.

Palivec, Vladimír ; Pluharová, Eva ; Unger, Isaak ; Winter, Bernd ; Jungwirth, Pavel. / **DNA lesion can facilitate base ionization : Vertical ionization energies of aqueous 8-oxoguanine and its nucleoside and nucleotide**. In: Journal of Physical Chemistry Part B. 2014 ; Vol. 118, No. 48. pp. 13833-13837.

Song, Xuemei ; Suhonen, Tomi ; Varis, Tommi ; Huang, Liping ; Zheng, Xuebin ; Zeng, Yi. / **Fabrication and Characterization of Amorphous Alumina-Yttria-Stabilized Zirconia Coatings by Air Plasma Spraying**. In: Journal of Thermal Spray Technology. 2014 ; Vol. 23, No. 8. pp. 1302-1311.

Rasappa, Sozaraj ; Schulte, Lars ; Borah, Dipu ; Morris, Michael A. ; Ndoni, Sokol. / **Rapid, Brushless Self-assembly of a PS-b-PDMS Block Copolymer for Nanolithography**. In: Colloids and Interface Science Communications. 2014 ; Vol. 2. pp. 1-5.

Ojala, Niko ; Valtonen, Kati ; Heino, Vuokko ; Kallio, Marke ; Aaltonen, Joonas ; Siitonen, Pekka ; Kuokkala, Veli Tapani. / **Effects of composition and microstructure on the abrasive wear performance of quenched wear resistant steels.** In: *Wear*. 2014 ; Vol. 317, No. 1-2. pp. 225-232.

Kapgate, Bharat P. ; Das, Chayan ; Basu, Debdipta ; Das, Amit ; Heinrich, Gert ; Reuter, Uta. / **Effect of silane integrated sol-gel derived in situ silica on the properties of nitrile rubber.** In: *Journal of Applied Polymer Science*. 2014 ; Vol. 131, No. 15.

Oksa, Maria ; Varis, Tommi ; Ruusuvaori, Kimmo. / **Performance testing of iron based thermally sprayed HVOF coatings in a biomass-fired fluidised bed boiler.** In: *Surface and Coatings Technology*. 2014 ; Vol. 251. pp. 191-200.

Kohagen, Miriam ; Mason, Philip E. ; Jungwirth, Pavel. / **Accurate description of calcium solvation in concentrated aqueous solutions.** In: *Journal of Physical Chemistry Part B*. 2014 ; Vol. 118, No. 28. pp. 7902-7909.

Werner, Josephina ; Wernersson, Erik ; Ekholm, Victor ; Ottosson, Niklas ; Öhrwall, Gunnar ; Heyda, Jan ; Persson, Ingmar ; Söderström, Johan ; Jungwirth, Pavel ; Björneholm, Olle. / **Surface behavior of hydrated guanidinium and ammonium ions : A comparative study by photoelectron spectroscopy and molecular dynamics.** In: *Journal of Physical Chemistry Part B*. 2014 ; Vol. 118, No. 25. pp. 7119-7127.

Mahmood, Nasir ; Khan, Asad Ullah ; Stöckelhuber, Klaus Werner ; Das, Amit ; Jehnichen, Dieter ; Heinrich, Gert. / **Carbon nanotubes-filled thermoplastic polyurethane-urea and carboxylated acrylonitrile butadiene rubber blend nanocomposites.** In: *Journal of Applied Polymer Science*. 2014 ; Vol. 131, No. 11.

Ghabchi, Arash ; Sampath, Sanjay ; Holmberg, Kenneth ; Varis, Tommi. / **Damage mechanisms and cracking behavior of thermal sprayed WC-CoCr coating under scratch testing.** In: *Wear*. 2014 ; Vol. 313, No. 1-2. pp. 97-105.

Aho, Arto ; Polojärvi, Ville ; Korpjärvi, Ville Markus ; Salmi, Joel ; Tukiainen, Antti ; Laukkanen, Pekka ; Guina, Mircea. / **Composition dependent growth dynamics in molecular beam epitaxy of GaInNAs solar cells.** In: *Solar Energy Materials and Solar Cells*. 2014 ; Vol. 124. pp. 150-158.

Kuzmin, Michael G. ; Soboleva, Irina V. ; Durandin, Nikita A. ; Lisitsyna, Ekaterina S. ; Kuzmin, Vladimir A. / **Microphase mechanism of "superquenching" of luminescent probes in aqueous solutions of DNA and some other polyelectrolytes.** In: *Journal of Physical Chemistry Part B*. 2014 ; Vol. 118, No. 15. pp. 4245-4252.

Khan, M. Nuruzzaman ; Zharnikov, Michael. / **Fabrication of ssDNA/oligo(ethylene glycol) monolayers by promoted exchange reaction with thiol and disulfide substituents.** In: *Journal of Physical Chemistry C*. 2014 ; Vol. 118, No. 6. pp. 3093-3101.

Kulig, Waldemar ; Agmon, Noam. / **Both zundel and eigen isomers contribute to the IR spectrum of the gas-phase H9O4 + cluster.** In: *Journal of Physical Chemistry Part B*. 2014 ; Vol. 118, No. 1. pp. 278-286.

Khan, M. Nuruzzaman ; Zharnikov, Michael. / **Fabrication of ssDNA/Oligo(ethylene glycol) monolayers and patterns by exchange reaction promoted by ultraviolet light irradiation.** In: *Journal of Physical Chemistry C*. 2013 ; Vol. 117, No. 47. pp. 24883-24893.

Hladilkova, Jana ; Prokop, Zbynek ; Chaloupkova, Radka ; Damborsky, Jiri ; Jungwirth, Pavel. / **Release of halide ions from the buried active site of the haloalkane dehalogenase LinB revealed by stopped-flow fluorescence analysis and free energy calculations.** In: *Journal of Physical Chemistry Part B*. 2013 ; Vol. 117, No. 46. pp. 14329-14335.

Kalimeri, Maria ; Rahaman, Obaidur ; Melchionna, Simone ; Sterpone, Fabio. / **How conformational flexibility stabilizes the hyperthermophilic elongation factor G-domain.** In: *Journal of Physical Chemistry Part B*. 2013 ; Vol. 117, No. 44. pp. 13775-13785.

Khan, M. Nuruzzaman ; Tjong, Vinalia ; Chilkoti, Ashutosh ; Zharnikov, Michael. / **Spectroscopic study of a DNA brush synthesized in situ by surface initiated enzymatic polymerization**. In: Journal of Physical Chemistry Part B. 2013 ; Vol. 117, No. 34. pp. 9929-9938.

Khan, M. Nuruzzaman ; Zharnikov, Michael. / **Irradiation promoted exchange reaction with disulfide substituents**. In: Journal of Physical Chemistry C. 2013 ; Vol. 117, No. 28. pp. 14534-14543.

Paterová, Jana ; Rembert, Kelvin B. ; Heyda, Jan ; Kurra, Yadagiri ; Okur, Halil I. ; Liu, Wenshe R. ; Hilty, Christian ; Cremer, Paul S. ; Jungwirth, Pavel. / **Reversal of the Hofmeister series : Specific ion effects on peptides**. In: Journal of Physical Chemistry Part B. 2013 ; Vol. 117, No. 27. pp. 8150-8158.

Štěpánková, Veronika ; Paterová, Jana ; Damborský, Jiří ; Jungwirth, Pavel ; Chaloupková, Radka ; Heyda, Jan. / **Cation-specific effects on enzymatic catalysis driven by interactions at the tunnel mouth**. In: Journal of Physical Chemistry Part B. 2013 ; Vol. 117, No. 21. pp. 6394-6402.

Borah, Dipu ; Rasappa, Sozaraj ; Senthamarakannan, Ramsankar ; Shaw, Matthew T. ; Holmes, Justin D. ; Morris, Michael A. / **The sensitivity of random polymer brush-lamellar polystyrene-b-polymethylmethacrylate block copolymer systems to process conditions**. In: Journal of Colloid and Interface Science. 2013 ; Vol. 393, No. 1. pp. 192-202.

Pitkänen, H. ; Alatalo, M. ; Puisto, A. ; Ropo, M. ; Kokko, K. ; Vitos, L. / **Ab initio study of the surface properties of austenitic stainless steel alloys**. In: Surface Science. 2013 ; Vol. 609. pp. 190-194.

Vazdar, Mario ; Jungwirth, Pavel ; Mason, Philip E. / **Aqueous guanidinium-carbonate interactions by molecular dynamics and neutron scattering : Relevance to ion-protein interactions**. In: Journal of Physical Chemistry Part B. 2013 ; Vol. 117, No. 6. pp. 1844-1848.

Pluhařová, Eva ; Ončák, Milan ; Seidel, Robert ; Schroeder, Christi ; Schroeder, William ; Winter, Bernd ; Bradforth, Stephen E. ; Jungwirth, Pavel ; Slaviček, Petr. / **Transforming anion instability into stability : Contrasting photoionization of three protonation forms of the phosphate ion upon moving into water**. In: Journal of Physical Chemistry Part B. 2012 ; Vol. 116, No. 44. pp. 13254-13264.

Rasappa, Sozaraj ; Borah, Dipu ; Senthamarakannan, Ramsankar ; Faulkner, Colm C. ; Shaw, Matthew T. ; Gleeson, Peter ; Holmes, Justin D. ; Morris, Michael A. / **Block copolymer lithography : Feature size control and extension by an over-etch technique**. In: Thin Solid Films. 2012 ; Vol. 522. pp. 318-323.

Vikholm-Lundin, Inger ; Auer, Sanna ; Paakkunainen, Maija ; Määttä, Juha A E ; Munter, Tony ; Leppiniemi, Jenni ; Hytönen, Vesa P. ; Tappura, Kirsi. / **Cysteine-tagged chimeric avidin forms high binding capacity layers directly on gold**. In: Sensors and Actuators B: Chemical. 2012 ; Vol. 171-172. pp. 440-448.

Mason, Philip E. ; Wernersson, Erik ; Jungwirth, Pavel. / **Accurate description of aqueous carbonate ions : An effective polarization model verified by neutron scattering**. In: Journal of Physical Chemistry Part B. 2012 ; Vol. 116, No. 28. pp. 8145-8153.

Vazdar, Mario ; Jurkiewicz, Piotr ; Hof, Martin ; Jungwirth, Pavel ; Cwiklik, Lukasz. / **Behavior of 4-hydroxynonenal in phospholipid membranes**. In: Journal of Physical Chemistry Part B. 2012 ; Vol. 116, No. 22. pp. 6411-6415.

Koskela, Jenni E. ; Vapaavuori, Jaana ; Hautala, Juho ; Priimagi, Arri ; Faul, Charl F J ; Kaivola, Matti ; Ras, Robin H A. / **Surface-relief gratings and stable birefringence inscribed using light of broad spectral range in supramolecular polymer-bisazobenzene complexes**. In: Journal of Physical Chemistry C. 2012 ; Vol. 116, No. 3. pp. 2363-2370.

Heikkinen, Jarkko J. ; Kivimäki, Liisa ; Hytönen, Vesa P. ; Kulomaa, Markku S. ; Hormi, Osmo E O. / **Printable and flexible macroporous organosilica film with high protein adsorption capacity**. In: Thin Solid Films. 2012 ; Vol. 520, No. 6. pp. 1934-1937.

Wernersson, Erik ; Heyda, Jan ; Vazdar, Mario ; Lund, Mikael ; Mason, Philip E. ; Jungwirth, Pavel. / **Oriental dependence of the affinity of guanidinium ions to the water surface**. In: Journal of Physical Chemistry Part B. 2011 ; Vol. 115, No. 43. pp. 12521-12526.

Sorianello, V. ; Colace, L. ; Nardone, M. ; Assanto, G. / **Thermally evaporated single-crystal Germanium on Silicon**. In: Thin Solid Films. 2011 ; Vol. 519, No. 22. pp. 8037-8040.

Giammarco, James ; Zdyrko, Bogdan ; Petit, Laetitia ; Musgraves, J. David ; Hu, Juejun ; Agarwal, Anu ; Kimerling, Lionel ; Richardson, Kathleen ; Luzinov, Igor. / **Towards universal enrichment nanocoating for IR-ATR waveguides**. In: Chemical Communications. 2011 ; Vol. 47, No. 32. pp. 9104-9106.

Vikholm-Lundin, Inger ; Auer, Sanna ; Hellgren, Ann Charlotte. / **Detection of 3,4-methylenedioxymethamphetamine (MDMA, ecstasy) by displacement of antibodies**. In: Sensors and Actuators B: Chemical. 2011 ; Vol. 156, No. 1. pp. 28-34.

Heyda, Jan ; Kožíšek, Milan ; Bednárova, Lucie ; Thompson, Gary ; Konvalinka, Jan ; Vondrášek, Jiří ; Jungwirth, Pavel. / **Urea and guanidinium induced denaturation of a Trp-cage miniprotein**. In: Journal of Physical Chemistry Part B. 2011 ; Vol. 115, No. 28. pp. 8910-8924.

Tuurna, S. ; Varis, T. ; Penttilä, K. ; Ruusuvuori, K. ; Holmström, S. ; Yli-Olli, S. / **Optimised selection of new protective coatings for biofuel boiler applications**. In: Materials and Corrosion-Werkstoffe und Korrosion. 2011 ; Vol. 62, No. 7. pp. 642-649.

Borah, D. ; Shaw, M. T. ; Rasappa, S. ; Farrell, R. A. ; O'Mahony, C. ; Faulkner, C. M. ; Bosea, M. ; Gleeson, P. ; Holmes, J. D. ; Morris, M. A. / **Plasma etch technologies for the development of ultra-small feature size transistor devices**. In: Journal of Physics D: Applied Physics. 2011 ; Vol. 44, No. 17.

Takahashi, Hideaki ; Maruyama, Kunihiro ; Karino, Yasuhito ; Morita, Akihiro ; Nakano, Masayoshi ; Jungwirth, Pavel ; Matubayasi, Nobuyuki. / **Energetic origin of proton affinity to the air/water interface**. In: Journal of Physical Chemistry Part B. 2011 ; Vol. 115, No. 16. pp. 4745-4751.

Sorianello, V. ; Colace, L. ; Assanto, G. ; Nardone, M. / **Micro-Raman characterization of Germanium thin films evaporated on various substrates**. In: Microelectronic Engineering. 2011 ; Vol. 88, No. 4. pp. 492-495.

Colace, L. ; Sorianello, V. ; Romagnoli, M. ; Socci, L. ; Assanto, G. / **Optical power monitors in Ge monolithically integrated on SOI chips**. In: Microelectronic Engineering. 2011 ; Vol. 88, No. 4. pp. 514-517.

Sorianello, V. ; Colace, L. ; Assanto, G. ; Notargiacomo, A. ; Armani, N. ; Rossi, F. ; Ferrari, C. / **Thermal evaporation of Ge on Si for near infrared detectors : Material and device characterization**. In: Microelectronic Engineering. 2011 ; Vol. 88, No. 4. pp. 526-529.

Pluhařová, Eva ; Jungwirth, Pavel ; Bradforth, Stephen E. ; Slaviček, Petr. / **Ionization of purine tautomers in nucleobases, nucleosides, and nucleotides : From the gas phase to the aqueous environment**. In: Journal of Physical Chemistry Part B. 2011 ; Vol. 115, No. 5. pp. 1294-1305.

Gupta, Samit K. ; Wu, Hao Hsuan ; Kwak, Kwang J. ; Casal, Patricia ; Nicholson, Theodore R. ; Wen, Xuejin ; Anisha, R. ; Bhushan, Bharat ; Berger, Paul R. ; Lu, Wu ; Brillson, Leonard J. ; Lee, Stephen Craig. / **Interfacial design and structure of protein/polymer films on oxidized AlGaIn surfaces**. In: Journal of Physics D: Applied Physics. 2011 ; Vol. 44, No. 3.

Caglayan, H. ; Bulu, I. ; Ozbay, E. / **Observation of off-axis directional beaming via subwavelength asymmetric metallic gratings**. In: Journal of Physics D: Applied Physics. 2009 ; Vol. 42, No. 4.

Koivusaari, K. Jarmo ; Rantala, Tapio T. ; Leppävuori, Seppo. / **Calculated electronic density of states and structural properties of tetrahedral amorphous carbon**. In: Diamond and Related Materials. 2000 ; Vol. 9, No. 3. pp. 736-740.

Milne, D. ; Wilson, J. I B ; Rantala, T. T. ; Lenkkeri, J. / **Morphological and structural changes in laser CVD of silicon : comparison of theoretical temperature calculations with experimental results**. In: Applied Surface Science. 1989 ; Vol. 43, No. 1-4. pp. 81-86.

Levoska, J. ; Rantala, T. T. ; Lenkkeri, J. / **Numerical simulation of temperature distributions in layered structures during laser processing**. In: Applied Surface Science. 1989 ; Vol. 36, No. 1-4. pp. 12-22.

Rantala, T. T. ; Rosén, A. ; Helsing, B. / **A Finite Cluster Approach to the Electron-Hole Pair Damping of the Adsorbate Vibration : CO Adsorbed on Cu(100)**. In: Studies in Surface Science and Catalysis. 1986 ; Vol. 26, No. C. pp. 173-181.