

Lubricated icephobic coatings prepared by flame spraying with hybrid feedstock injection. / Donadei, Valentina; Koivuluoto, Heli; Sarlin, Essi; Vuoristo, Petri.
In: Surface and Coatings Technology, Vol. 403, 126396, 15.12.2020.
Research output: Contribution to journal › Article › Scientific › peer-review

The effect of substrate pre-treatment on durability of rubber-stainless steel adhesion. / Sarlin, E.; Honkanen, M.; Lindgren, M.; Laihonon, P.; Juutilainen, M.; Vippola, M.; Vuorinen, J.
In: Surfaces and Interfaces, Vol. 21, 100646, 01.12.2020.
Research output: Contribution to journal › Article › Scientific › peer-review

Avoiding the initial adhesive friction peak in fretting. / Juuksukangas, Janne; Hintikka, Jouko; Lehtovaara, Arto; Mäntylä, Antti; Vaara, Joonas; Frondelius, Tero.
In: Wear, Vol. 460-461, 203353, 15.11.2020.
Research output: Contribution to journal › Article › Scientific › peer-review

Tribocorrosion behaviour of tin bronze CuSn12 under a sliding motion in NaCl containing environment : Contact to inert vs. reactive counterbody. / Huttunen-Saarivirta, E.; Kilpi, L.; Pasanen, A. T.; Salminen, T.; Ronkainen, H.
In: Tribology International, Vol. 151, 106389, 01.11.2020.
Research output: Contribution to journal › Article › Scientific › peer-review

Characteristics of carbide-free medium-carbon bainitic steels in high-stress abrasive wear conditions. / Haiko, Oskari; Kaikkonen, Pentti; Somani, Mahesh; Valtonen, Kati; Kömi, Jukka.
In: Wear, Vol. 456-457, 203386, 15.09.2020.
Research output: Contribution to journal › Article › Scientific › peer-review

Effect of prior austenite grain size on the abrasive wear resistance of ultra-high strength martensitic steels. / Haiko, Oskari; Javaheri, Vahid; Valtonen, Kati; Kaijalainen, Antti; Hannula, Jaakko; Kömi, Jukka.
In: Wear, Vol. 454-455, 203336, 15.08.2020.
Research output: Contribution to journal › Article › Scientific › peer-review

On the alignment of ZnO nanowires by Langmuir – Blodgett technique for sensing application. / Baratto, Camilla; Golovanova, Viktoria; Faglia, Guido; Hakola, Hanna; Niemi, Tapio; Tkachenko, Nikolai; Nazarchuk, Bohdan; Golovanov, Viacheslav.
In: Applied Surface Science, Vol. 528, 146959, 30.10.2020.
Research output: Contribution to journal › Article › Scientific › peer-review

Rotational Diffusion of Membrane Proteins in Crowded Membranes. / Javanainen, Matti; Ollila, O. H. Samuli; Martinez-Seara, Hector.
In: Journal of Physical Chemistry B, Vol. 124, No. 15, 16.04.2020, p. 2994-3001.
Research output: Contribution to journal › Article › Scientific › peer-review

A study of Cr₃C₂-based HVOF- and HVAF-sprayed coatings : Abrasion, dry particle erosion and cavitation erosion resistance. / Matikainen, V.; Koivuluoto, H.; Vuoristo, P.
In: Wear, Vol. 446-447, 203188, 15.04.2020.
Research output: Contribution to journal › Article › Scientific › peer-review

Transparent Yb³⁺ doped phosphate glass-ceramics. / Hongisto, M.; Veber, A.; Boetti, N. G.; Danto, S.; Jubera, V.; Petit, L.
In: Ceramics International, 01.01.2020.
Research output: Contribution to journal › Article › Scientific › peer-review

Cold gas spraying of a high-entropy CrFeNiMn equiatomic alloy. / Lehtonen, Joonas; Koivuluoto, Heli; Ge, Yanling; Juselius, Aapo; Hannula, Simo Pekka.
In: Coatings, Vol. 10, No. 1, 53, 2020.
Research output: Contribution to journal › Article › Scientific › peer-review

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

Research output: Contribution to journal › Article › Scientific › peer-review

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

In: Journal of Physical Chemistry C, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Influence of powder properties on residual stresses formed in high-pressure liquid fuel HVOF sprayed WC-CoCr coatings. / Varis, Tommi; Suhonen, Tomi; Jokipii, Mika; Vuoristo, Petri.

In: Surface and Coatings Technology, Vol. 388, 125604, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Ultrafast Photochemistry of the $[\text{Cr}(\text{NCS})_6]^{3-}$ Complex in Dimethyl Sulfoxide and Dimethylformamide upon Excitation into Ligand-Field Electronic State. / 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.

In: Journal of Physical Chemistry B, Vol. 124, No. 18, 2020, p. 3724-3733.

Research output: Contribution to journal › Article › Scientific › peer-review

Cold-Sprayed Al6061 coatings : Online spray monitoring and influence of process parameters on coating properties. / Koivuluoto, Heli; Larjo, Jussi; Marini, Danilo; Pulci, Giovanni; Marra, Francesco.

In: Coatings, Vol. 10, No. 4, 348, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Novel borosilicate bioactive scaffolds with persistent luminescence. / Del Cerro, Paloma Roldán; Teittinen, Henriikka; Norrbo, Isabella; Lastusaari, Mika; Massera, Jonathan; Petit, Laetitia.

In: Biomedical Glasses, Vol. 6, No. 1, 2020, p. 1-9.

Research output: Contribution to journal › Article › Scientific › peer-review

Evaluation of Residual Stresses and Their Influence on Cavitation Erosion Resistance of High Kinetic HVOF and HVAF-Sprayed WC-CoCr Coatings. / Varis, Tommi; Suhonen, Tomi; Laakso, Jarmo; Jokipii, Mika; Vuoristo, Petri.

In: Journal of Thermal Spray Technology, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Assessment of pitting corrosion in bare and passivated (wet scCO_2 -induced patination and chemical passivation) hot-dip galvanized steel samples with SVET, FTIR, and SEM (EDS). / Saarimaa, Ville; Fuertes, Nuria; Persson, Dan; Zavalis, Tommy; Kaleva, Aaretti; Nikkanen, Juha-Pekka; Levänen, Erkki; Heydari, Golrokh.

In: Materials and Corrosion, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Modification of Surface States of Hematite-Based Photoanodes by Submonolayer of TiO_2 for Enhanced Solar Water Splitting. / Palmolahti, Lauri; Ali-Löytty, Harri; Khan, Ramsha; Saari, Jesse; Tkachenko, Nikolai V.; Valden, Mika.

In: Journal of Physical Chemistry C, Vol. 124, No. 24, 2020, p. 13094-13101.

Research output: Contribution to journal › Article › Scientific › peer-review

Energy dissipation in natural rubber latex films : The effect of stabilizers, leaching and acetone-treatment. / Shakun, Alexandra; Sarlin, Essi; Vuorinen, Jyrki.

In: Journal of Applied Polymer Science, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Luminescent $(\text{Er},\text{Ho})_2\text{O}_3$ thin films by ALD to enhance the performance of silicon solar cells. / Ghazy, Amr; Safdar, Muhammad; Lastusaari, Mika; Aho, Arto; Tukiainen, Antti; Savin, Hele; Guina, Mircea; Karppinen, Maarit.

In: Solar Energy Materials and Solar Cells, Vol. 219, 110787, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Effect of tempering on the impact-abrasive and abrasive wear resistance of ultra-high strength steels. / Haiko, Oskari; Valtonen, Kati; Kaijalainen, Antti; Uusikallio, Sampo; Hannula, Jaakko; Liimatainen, Tommi; Kömi, Jukka.
In: *Wear*, Vol. 440-441, 15.12.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

Prediction of contact condition and surface damage by simulating variable friction coefficient and wear. / Mäntylä, A.; Hintikka, J.; Frondelius, T.; Vaara, J.; Lehtovaara, A.; Juoksukangas, J.
In: *Tribology International*, 05.11.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

Running-in in fretting, transition from near-stable friction regime to gross sliding. / Hintikka, Jouko; Mäntylä, Antti; Vaara, Joonas; Frondelius, Tero; Juoksukangas, Janne; Lehtovaara, Arto.
In: *Tribology International*, Vol. 143, 106073, 11.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

Tribocorrosion behaviour of two low-alloy steel grades in simulated waste solution. / Mäntyranta, Aino; Heino, Vuokko; Isotahdon, Elisa; Salminen, Turkka; Huttunen-Saarivirta, Elina.
In: *Tribology International*, Vol. 138, 01.10.2019, p. 250-262.

Research output: Contribution to journal › Article › Scientific › peer-review

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

In: *Materials and Corrosion*, 30.08.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings. / Kiilakoski, J.; Langlade, Cécile; Koivuluoto, H.; Vuoristo, P.

In: *Surface and Coatings Technology*, Vol. 371, 15.08.2019, p. 245-254.

Research output: Contribution to journal › Article › Scientific › peer-review

Magnetic non-contact friction from domain wall dynamics actuated by oscillatory mechanical motion. / Rissanen, Ilari; Laurson, Lasse.

In: *Journal of Physics D: Applied Physics*, Vol. 52, No. 44, 445002, 13.08.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

Erosion wear performance of WC-10Co4Cr and Cr₃C₂-25NiCr coatings sprayed with high-velocity thermal spray processes. / Matikainen, V.; Rubio Peregrina, S.; Ojalä, N.; Koivuluoto, H.; Schubert, J.; Houdková, ; Vuoristo, P.

In: *Surface and Coatings Technology*, Vol. 370, 25.07.2019, p. 196-212.

Research output: Contribution to journal › Article › Scientific › peer-review

Characterization of cracks formed in large flat-on-flat fretting contact. / Juoksukangas, Janne; Nurmi, Verner; Hintikka, Jouko; Vippola, Minnamari; Lehtovaara, Arto; Mäntylä, Antti; Vaara, Joonas; Frondelius, Tero.

In: *International Journal of Fatigue*, Vol. 124, 07.2019, p. 361-370.

Research output: Contribution to journal › Article › Scientific › peer-review

Water-Responsive and Mechanically Adaptive Natural Rubber Composites by in Situ Modification of Mineral Filler Structures. / 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.

In: *Journal of Physical Chemistry B*, Vol. 123, No. 24, 20.06.2019, p. 5168-5175.

Research output: Contribution to journal › Article › Scientific › peer-review

Photovoltaic properties of low-bandgap (0.7–0.9eV) lattice-matched GaInNAsSb solar junctions grown by molecular beam epitaxy on GaAs. / Isoaho, Riku; Aho, Arto; Tukiainen, Antti; Aho, Timo; Raappana, Marianna; Salminen, Turkka; Reuna, Jarno; Guina, Mircea.

In: Solar Energy Materials and Solar Cells, Vol. 195, 15.06.2019, p. 198-203.
Research output: Contribution to journal > Article > Scientific > peer-review

Role of fracture toughness in impact-abrasion wear. / Chintha, A. R.; Valtonen, K.; Kuokkala, V. T.; Kundu, S.; Peet, M. J.; Bhadeshia, H. K.D.H.

In: Wear, Vol. 428-429, 15.06.2019, p. 430-437.
Research output: Contribution to journal > Article > Scientific > peer-review

Surface reactivity and silanization ability of borosilicate and Mg-Sr-based bioactive glasses. / Ferraris, S.; Nommeots-Nomm, A.; Spriano, S.; Vernè, E.; Massera, J.

In: Applied Surface Science, Vol. 475, 01.05.2019, p. 43-55.
Research output: Contribution to journal > Article > Scientific > peer-review

Comparison of various high-stress wear conditions and wear performance of martensitic steels. / Valtonen, Kati; Ojala, Niko; Haiko, Oskari; Kuokkala, Veli-Tapani.

In: Wear, Vol. 426-427, No. Part A, 30.04.2019, p. 3-13.
Research output: Contribution to journal > Article > Scientific > peer-review

The formation and characterization of fretting-induced degradation layers using quenched and tempered steel. / Nurmi, Verner; Hintikka, Jouko; Juoksukangas, Janne; Honkanen, Mari; Vippola, Minnamari; Lehtovaara, Arto; Mäntylä, Antti; Vaara, Joonas; Frondelius, Tero.

In: Tribology International, Vol. 131, 01.03.2019, p. 258-267.
Research output: Contribution to journal > Article > Scientific > peer-review

Stable and unstable friction in fretting contacts. / Hintikka, Jouko; Mäntylä, Antti; Vaara, Joonas; Frondelius, Tero; Lehtovaara, Arto.

In: Tribology International, Vol. 131, 01.03.2019, p. 73-82.
Research output: Contribution to journal > Article > Scientific > peer-review

Mining tailings as raw materials for reaction-sintered aluminosilicate ceramics : Effect of mineralogical composition on microstructure and properties. / Karhu, Marjaana; Lagerbom, Juha; Solismaa, Soili; Honkanen, Mari; Ismailov, Arnold; Räisänen, Marja Liisa; Huttunen-Saarivirta, Elina; Levänen, Erkki; Kivikytö-Reponen, Päivi.

In: Ceramics International, Vol. 45, No. 4, 03.2019, p. 4840-4848.
Research output: Contribution to journal > Article > Scientific > peer-review

Characterization of Powder-Precursor HVOF-Sprayed Al₂O₃-YSZ/ZrO₂ Coatings. / Kiilakoski, Jarkko; Puranen, Jouni; Heinonen, Esa; Koivuluoto, Heli; Vuoristo, Petri.

In: Journal of Thermal Spray Technology, Vol. 28, No. 1-2, 01.2019, p. 98-107.
Research output: Contribution to journal > Article > Scientific > peer-review

Behaviour of leaded tin bronze in simulated seawater in the absence and presence of tribological contact with alumina counterbody : Corrosion, wear and tribocorrosion. / Huttunen-Saarivirta, E.; Isotahdon, E.; Metsäjoki, J.; Salminen, T.; Ronkainen, H.; Carpén, L.

In: Tribology International, Vol. 129, 2019, p. 257-271.
Research output: Contribution to journal > Article > Scientific > peer-review

Impact wear and mechanical behavior of steels at subzero temperatures. / Valtonen, Kati; Ratia, Vilma; Ramakrishnan, Karthik Ram; Apostol, Marian; Terva, Juuso; Kuokkala, Veli-Tapani.

In: Tribology International, Vol. 129, 2019, p. 476-493.
Research output: Contribution to journal > Article > Scientific > peer-review

On the limit of superhydrophobicity : Defining the minimum amount of TiO₂ nanoparticle coating. / Haapanen, Janne; Aromaa, Mikko; Teisala, Hannu; Juuti, Paxton; Tuominen, Mikko; Sillanpää, Markus; Stepien, Milena; Saarinen, Jarkko J.; Toivakka, Martti; Kuusipalo, Jurkka; Mäkelä, Jyrki M.

In: Materials Research Express, Vol. 6, No. 3, 035004, 2019.
Research output: Contribution to journal > Article > Scientific > peer-review

Running-in effects on friction of journal bearings under slow sliding speeds. / Linjamaa, A.; Lehtovaara, A.; Kallio, M.; Léger, A.

In: Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2019.

Research output: Contribution to journal › Article › Scientific › peer-review

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

In: Journal of Applied Polymer Science, 2019.

Research output: Contribution to journal › Article › Scientific › peer-review

Process Parameter Impact on Suspension-HVOF-Sprayed Cr₂O₃ Coatings. / Kiilakoski, Jarkko; Trache, Richard; Björklund, Stefan; Joshi, Shrikant; Vuoristo, Petri.

In: Journal of Thermal Spray Technology, 2019.

Research output: Contribution to journal › Article › Scientific › peer-review

Mechanical characterization of pore-graded bioactive glass scaffolds produced by robocasting. / Barberi, Jacopo; Nommeots-Nomm, Amy; Fiume, Elisa; Verné, Enrica; Massera, Jonathan; Bairo, Francesco.

In: Biomedical Glasses, Vol. 5, No. 1, 2019, p. 140-147.

Research output: Contribution to journal › Article › Scientific › peer-review

How well can we predict cluster fragmentation inside a mass spectrometer? / Passananti, Monica; Zapadinsky, Evgeni; Zanca, Tommaso; Kangasluoma, Juha; Mylly, Nanna; Rissanen, Matti P.; Kurtén, Theo; Ehn, Mikael; Attoui, Michel; Vehkamäki, Hanna.

In: Chemical Communications, Vol. 55, No. 42, 2019, p. 5946-5949.

Research output: Contribution to journal › Article › Scientific › peer-review

Mechanical, thermal, and burning properties of viscose fabric composites : Influence of epoxy resin modification. / Rajan, Rathish; Rainosalu, Egidija; Ramamoorthy, Sunil Kumar; Thomas, Selvin P.; Zavašnik, Janez; Vuorinen, Jyrki; Skrifvars, Mikael.

In: Journal of Applied Polymer Science, Vol. 135, No. 36, 46673, 20.09.2018.

Research output: Contribution to journal › Article › Scientific › peer-review

Design aspects of all atomic layer deposited TiO₂-Fe₂O₃ scaffold-absorber photoanodes for water splitting. / Hiltunen, Arto; Ruoko, Tero-Petri; Iivonen, Tomi; Lahtonen, Kimmo; Ali-Löyty, Harri; Sarlin, Essi; Valden, Mika; Leskelä, Markku; Tkachenko, Nikolai.

In: Sustainable Energy & Fuels, Vol. 2, No. 9, 31.07.2018, p. 2124-2130.

Research output: Contribution to journal › Article › Scientific › peer-review

Fluid flow simulations meet high-speed video : Computer vision comparison of droplet dynamics. / Kulju, S.; Riegger, L.; Koltay, P.; Mattila, K.; Hyväluoma, J.

In: Journal of Colloid and Interface Science, Vol. 522, 15.07.2018, p. 48-56.

Research output: Contribution to journal › Article › Scientific › peer-review

Evaluation of screen printed silver trace performance and long-term reliability against environmental stress on a low surface energy substrate. / Mikkonen, Riikka; Mäntysalo, Matti.

In: Microelectronics Reliability, Vol. 86, 01.07.2018, p. 54-65.

Research output: Contribution to journal › Article › Scientific › peer-review

The effect of carbon and nickel additions on the precursor synthesis of Cr₃C₂-Ni nanopowder. / Kaunisto, Kimmo; Kotilainen, Minna; Karhu, Marjaana; Lagerbom, Juha; Vuorinen, Tommi; Honkanen, Mari; Vippola, Minnamari; Turunen, Erja.

In: Ceramics International, Vol. 44, No. 8, 01.06.2018, p. 9338-9346.

Research output: Contribution to journal › Article › Scientific › peer-review

The effects of laser patterning 10CeTZP-Al₂O₃ nanocomposite disc surfaces : Osseous differentiation and cellular arrangement in vitro. / Goyos-Ball, Lidia; Prádo, Catuxa; Díaz, Raquel; Fernández, Elisa; Ismailov, Arnold; Kumpulainen, Tero; Levänen, Erkki; Torrecillas, Ramón; Fernández, Adolfo.

In: *Ceramics International*, Vol. 44, No. 8, 06.2018, p. 9472-9478.

Research output: Contribution to journal > Article > Scientific > peer-review

Influence of the phosphate glass melt on the corrosion of functional particles occurring during the preparation of glass-ceramics. / Ojha, N.; Laihinen, T.; Salminen, T.; Lastusaari, M.; Petit, L.

In: *Ceramics International*, Vol. 44, No. 10, 06.2018, p. 11807-11811.

Research output: Contribution to journal > Article > Scientific > peer-review

Morphology evolution of PS-b-PDMS block copolymer and its hierarchical directed self-assembly on block copolymer templates. / Rasappa, Sozaraj; Schulte, Lars; Borah, Dipu; Hulkkonen, Hanna; Ndoni, Sokol; Salminen, Turkka; Sentharamanian, Ramsankar; Morris, Michael A.; Niemi, Tapio.

In: *Microelectronic Engineering*, Vol. 192, 15.05.2018, p. 1-7.

Research output: Contribution to journal > Article > Scientific > peer-review

Switchable light reflectance in dilute magneto-optical colloids based on nickel ferrite nanowires. / Sutka, Andris; Timusk, Martin; Joost, Urmas; Ignatans, Reinis; Maiorov, Mikhail.

In: *e-Journal of Surface Science and Nanotechnology*, Vol. 16, 02.05.2018, p. 119-121.

Research output: Contribution to journal > Article > Scientific > peer-review

Characteristics of nFOG, an aerosol-based wet thin film coating technique. / 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.

In: *Journal of Coatings Technology Research*, Vol. 15, No. 3, 05.2018, p. 623-632.

Research output: Contribution to journal > Article > Scientific > peer-review

Accurate Binding of Sodium and Calcium to a POPC Bilayer by Effective Inclusion of Electronic Polarization. / Melcr, Josef; Martinez-Seara, Hector; Nencini, Ricky; Kolafa, Jiří; Jungwirth, Pavel; Ollila, O. H. Samuli.

In: *Journal of Physical Chemistry B*, Vol. 122, No. 16, 26.04.2018, p. 4546-4557.

Research output: Contribution to journal > Article > Scientific > peer-review

Membrane bound COMT isoform is an interfacial enzyme : General mechanism and new drug design paradigm. / Magarkar, Aniket; Parkkila, Petteri; Viitala, Tapani; Lajunen, Tatu; Mobarak, Edouard; Licari, Giuseppe; Cramariuc, Oana; Vauthey, Eric; Róg, Tomasz; Bunker, Alex.

In: *Chemical Communications*, Vol. 54, No. 28, 11.04.2018, p. 3440-3443.

Research output: Contribution to journal > Article > Scientific > peer-review

Effect of nozzle geometry on the microstructure and properties of hvaf-sprayed wc-10co4cr and cr3c2-25nicr coatings. / Matikainen, V.; Koivuluoto, H.; Vuoristo, P.; Schubert, J.; Houdková.

In: *Journal of Thermal Spray Technology*, Vol. 27, No. 4, 01.04.2018, p. 680-694.

Research output: Contribution to journal > Article > Scientific > peer-review

Properties of HVOF-sprayed Stellite-6 coatings. / Sassatelli, Paolo; Bolelli, Giovanni; Lassinantti Gualtieri, Magdalena; Heinonen, Esa; Honkanen, Mari; Lusvarghi, Luca; Manfredini, Tiziano; Rigon, Rinaldo; Vippola, Minnamari.

In: *Surface and Coatings Technology*, Vol. 338, 25.03.2018, p. 45-62.

Research output: Contribution to journal > Article > Scientific > peer-review

Improving the high temperature abrasion resistance of thermally sprayed Cr₃C₂-NiCr coatings by WC addition. / Janka, Leo; Berger, Lutz Michael; Norpoth, Jonas; Trache, Richard; Thiele, Sven; Tomastik, Christian; Matikainen, Ville; Vuoristo, Petri.

In: *Surface and Coatings Technology*, Vol. 337, 15.03.2018, p. 296-305.

Research output: Contribution to journal > Article > Scientific > peer-review

Entrapped Styrene Butadiene Polymer Chains by Sol-Gel-Derived Silica Nanoparticles with Hierarchical Raspberry Structures. / Vaikuntam, Sankar Raman; Stöckelhuber, Klaus Werner; Subramani Bhagavatheswaran, Eshwaran; Wießner, Sven; Scheler, Ulrich; Saalwächter, Kay; Formanek, Petr; Heinrich, Gert; Das, Amit.

In: Journal of Physical Chemistry B, Vol. 122, No. 6, 15.02.2018, p. 2010-2022.

Research output: Contribution to journal > Article > Scientific > peer-review

Arc-sprayed Fe-based coatings from coredwires for wear and corrosion protection in power engineering. / Yury, Korobov; Filippov, Michael; Makarov, Aleksey; Malygina, Irina; Soboleva, Natalia; Fantozzi, Davide; Andrea, Milanti; Koivuluoto, Heli; Vuoristo, Petri.

In: Coatings, Vol. 8, No. 2, 71, 01.02.2018.

Research output: Contribution to journal > Article > Scientific > peer-review

Tribology of FeVCrC coatings deposited by HVOF and HVAF thermal spray processes. / Bolelli, Giovanni; Bursi, Marcello; Lusvarghi, Luca; Manfredini, Tiziano; Matikainen, Ville; Rigon, Rinaldo; Sassatelli, Paolo; Vuoristo, Petri.

In: Wear, Vol. 394-395, 2018, p. 113-133.

Research output: Contribution to journal > Article > Scientific > peer-review

Stable blue phase polymeric Langmuir-Schaefer films based on unsymmetrical hydroxyalkadiynyl N-arylcarbamate derivatives. / Alekseev, Alexander; Ihalainen, Petri; Ivanov, Artem; Domnin, Ivan; Rosqvist, Emil; Lemmetyinen, Helge; Vuorimaa-Laukkanen, Elina; Peltonen, Jouko; Vyaz'min, Sergey.

In: Thin Solid Films, Vol. 645, 2018, p. 108-118.

Research output: Contribution to journal > Article > Scientific > peer-review

Light-trapping enhanced thin-film III-V quantum dot solar cells fabricated by epitaxial lift-off. / 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.

In: Solar Energy Materials and Solar Cells, Vol. 181, 2018, p. 83-92.

Research output: Contribution to journal > Article > Scientific > peer-review

Erosive-abrasive wear behavior of carbide-free bainitic and boron steels compared in simulated field conditions. / Vuorinen, E.; Heino, V.; Ojala, N.; Haiko, O.; Hedayati, A.

In: Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, Vol. 232, No. 1, 2018, p. 3-13.

Research output: Contribution to journal > Article > Scientific > peer-review

Novel Online Diagnostic Analysis for In-Flight Particle Properties in Cold Spraying. / Koivuluoto, Heli; Matikainen, Ville; Larjo, Jussi; Vuoristo, Petri.

In: Journal of Thermal Spray Technology, Vol. 27, No. 3, 2018, p. 423-432.

Research output: Contribution to journal > Article > Scientific > peer-review

Convenient extraction method for quantification of thin zinc patina layers. / Saarimaa, Ville; Kaleva, Aaretti; Paunikallio, Teemu; Nikkanen, Juha-Pekka; Heinonen, Saara; Levänen, Erkki; Väisänen, Pasi; Markkula, Antti.

In: Surface and Interface Analysis, Vol. 50, No. 5, 2018, p. 564-570.

Research output: Contribution to journal > Article > Scientific > peer-review

Efficient photon upconversion at remarkably low annihilator concentrations in a liquid polymer matrix: when less is more. / Durandin, Nikita A.; Isokuortti, Jussi; Efimov, Alexander; Vuorimaa-Laukkanen, Elina; Tkachenko, Nikolai V.; Laaksonen, Timo.

In: Chemical Communications, Vol. 54, No. 99, 2018, p. 14029-14032.

Research output: Contribution to journal > Article > Scientific > peer-review

Supercritical carbon dioxide treatment of hot dip galvanized steel as a surface treatment before coating. / Saarimaa, Ville; Kaleva, Aaretti; Nikkanen, Juha-Pekka; Heinonen, Saara; Levänen, Erkki; Väisänen, Pasi; Markkula, Antti; Juhanoja, Jyrki.

In: Surface and Coatings Technology, Vol. 331, 15.12.2017, p. 137-142.

Research output: Contribution to journal > Article > Scientific > peer-review

Time-Resolved Fluorescence Spectroscopy Reveals Fine Structure and Dynamics of Poly(l-lysine) and Polyethylenimine Based DNA Polyplexes. / Lisitsyna, Ekaterina S.; Ketola, Tiia-Maaria; Morin-Picardat, Emmanuelle; Liang, Huamin; Hanzlíková, Martina; Urtti, Arto; Yliperttula, Marjo; Vuorimaa-Laukkanen, Elina.

In: Journal of Physical Chemistry B, Vol. 121, No. 48, 07.12.2017, p. 10782-10792.

Research output: Contribution to journal › Article › Scientific › peer-review

Oxygen and water vapor transmission rates of starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper. /

Christophliemk, Hanna; Johansson, Caisa; Ullsten, Henrik; Järnström, Lars.

In: Progress in Organic Coatings, Vol. 113, 01.12.2017, p. 218-224.

Research output: Contribution to journal › Article › Scientific › peer-review

Infrared Thermography as a Non-destructive Testing Solution for Thermal Spray Metal Coatings. / Santangelo, Paolo E.;

Allesina, Giulio; Bolelli, Giovanni; Lusvardi, Luca; Matikainen, Ville; Vuoristo, Petri.

In: Journal of Thermal Spray Technology, Vol. 26, No. 8, 12.2017, p. 1982-1993.

Research output: Contribution to journal › Article › Scientific › peer-review

Erosive wear of filled vinyl ester composites in water and acidic media at elevated temperature. / Sarlin, Essi; Saarimäki,

Meri; Sironen, Reija; Lindgren, Mari; Siljander, Sanna; Kanerva, Mikko; Vuorinen, Jyrki.

In: Wear, Vol. 390-391, 15.11.2017, p. 84-92.

Research output: Contribution to journal › Article › Scientific › peer-review

Global energy consumption due to friction and wear in the mining industry. / Holmberg, Kenneth; Kivikytö-Reponen, Päivi;

Härkisaari, Pirita; Valtonen, Kati; Erdemir, Ali.

In: Tribology International, Vol. 115, 01.11.2017, p. 116-139.

Research output: Contribution to journal › Article › Scientific › peer-review

One-step flame synthesis of silver nanoparticles for roll-to-roll production of antibacterial paper. / Brobbey, Kofi J.;

Haapanen, Janne; Gunell, Marianne; Mäkelä, Jyrki M.; Eerola, Erkki; Toivakka, Martti; Saarinen, Jarkko J.

In: Applied Surface Science, Vol. 420, 31.10.2017, p. 558-565.

Research output: Contribution to journal › Article › Scientific › peer-review

Fluorimetric oxygen sensor with an efficient optical read-out for in vitro cell models. / Välimäki, Hannu; Verho, Jarmo;

Kreutzer, Joose; Kattippambil Rajan, Dhanesh; Ryyänen, Tomi; Pekkanen-Mattila, Mari; Ahola, Antti; Tappura, Kirsi; Kallio, Pasi; Lekkala, Jukka.

In: Sensors and Actuators B: Chemical, Vol. 249, 01.10.2017, p. 738-746.

Research output: Contribution to journal › Article › Scientific › peer-review

Starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper and their effects of phase interactions. /

Christophliemk, Hanna; Ullsten, Henrik; Johansson, Caisa; Järnström, Lars.

In: Progress in Organic Coatings, Vol. 111, 01.10.2017, p. 13-22.

Research output: Contribution to journal › Article › Scientific › peer-review

Investigation of long-term chemical stability of structured ZnO films in aqueous solutions of varying conditions. /

Heinonen, Saara; Nikkanen, Juha-Pekka; Huttunen-Saarivirta, Elina; Levänen, Erkki.

In: Thin Solid Films, Vol. 638, 30.09.2017, p. 410-419.

Research output: Contribution to journal › Article › Scientific › peer-review

Systematic analysis of coating-substrate interactions in the presence of flow localization. / Isakov, M.; Matikainen, V.;

Koivuluoto, H.; May, M.

In: Surface and Coatings Technology, Vol. 324, 15.09.2017, p. 264-280.

Research output: Contribution to journal › Article › Scientific › peer-review

Wear of cemented tungsten carbide percussive drill-bit inserts : Laboratory and field study. / Tkalich, Dmitry; Li, Charlie

C.; Kane, Alexandre; Saai, Afaf; Tkalich, Dmitry; Yastrebov, Vladislav A.; Hokka, Mikko; Kuokkala, Veli-Tapani; Bengtsson, Maria; From, Anna.

In: Wear, Vol. 386-387, 15.09.2017, p. 106-117.

Research output: Contribution to journal › Article › Scientific › peer-review

A Study of Cr₃C₂-Based HVOF- and HVAF-Sprayed Coatings : Microstructure and Carbide Retention. / Matikainen, V.; Bolelli, G.; Koivuluoto, H.; Honkanen, M.; Vippola, M.; Lusvarghi, L.; Vuoristo, P.
In: Journal of Thermal Spray Technology, Vol. 26, No. 6, 08.2017, p. 1-18.
Research output: Contribution to journal › Article › Scientific › peer-review

Configurational Disorder of Water Hydrogen-Bond Network at the Protein Dynamical Transition. / Rahaman, Obaidur; Kalimeri, Maria; Katava, Marina; Paciaroni, Alessandro; Sterpone, Fabio.
In: Journal of Physical Chemistry Part B, Vol. 121, No. 28, 20.07.2017, p. 6792-6798.
Research output: Contribution to journal › Article › Scientific › peer-review

Vegetable fillers for electric stimuli responsive elastomers. / Poikelispää, Minna; Shakun, Alexandra; Sarlin, Essi; Das, Amit; Vuorinen, Jyrki.
In: Journal of Applied Polymer Science, Vol. 134, No. 28, 45081, 20.07.2017.
Research output: Contribution to journal › Article › Scientific › peer-review

Microwave induced hierarchical nanostructures on aramid fibers and their influence on adhesion properties in a rubber matrix. / Palola, S.; Sarlin, E.; Kolahgar Azari, S.; Koutsos, V.; Vuorinen, J.
In: Applied Surface Science, Vol. 410, 15.07.2017, p. 145-153.
Research output: Contribution to journal › Article › Scientific › peer-review

Hafnium oxide thin films as a barrier against copper diffusion in solar absorbers. / Kotilainen, Minna; Krumpolec, Richard; Franta, Daniel; Souček, Pavel; Homola, Tomáš; Cameron, David C.; Vuoristo, Petri.
In: Solar Energy Materials and Solar Cells, Vol. 166, 01.07.2017, p. 140-146.
Research output: Contribution to journal › Article › Scientific › peer-review

Long-Range Observation of Exciplex Formation and Decay Mediated by One-Dimensional Bridges. / Baek, Jinseok; Umeyama, Tomokazu; Stranius, Kati; Yamada, Hiroki; Tkachenko, Nikolai V.; Imahori, Hiroshi.
In: Journal of Physical Chemistry C, Vol. 121, No. 25, 29.06.2017, p. 13952-13961.
Research output: Contribution to journal › Article › Scientific › peer-review

Catalytic Activity of AuCu Clusters on MgO(100) : Effect of Alloy Composition for CO Oxidation. / Ma, Li; Laasonen, Kari; Akola, Jaakko.
In: Journal of Physical Chemistry C, Vol. 121, No. 20, 25.05.2017, p. 10876-10886.
Research output: Contribution to journal › Article › Scientific › peer-review

Geometric Structure and Chemical Ordering of Large AuCu Clusters : A Computational Study. / Goh, Jing-Qiang; Akola, Jaakko; Ferrando, Riccardo.
In: Journal of Physical Chemistry C, Vol. 121, No. 20, 25.05.2017, p. 10809-10816.
Research output: Contribution to journal › Article › Scientific › peer-review

Photoinduced Electron Injection from Zinc Phthalocyanines into Zinc Oxide Nanorods : Aggregation Effects. / Virkki, Kirsi; Hakola, Hanna; Urbani, Maxence; Tejerina, Lara; Ince, Mine; Martínez-Díaz, M. Victoria; Torres, Tomás; Golovanova, Viktoria; Golovanov, Viacheslav; Tkachenko, Nikolai V.
In: Journal of Physical Chemistry C, Vol. 121, No. 17, 04.05.2017, p. 9594-9605.
Research output: Contribution to journal › Article › Scientific › peer-review

Third Particle Ejection Effects on Wear with Quenched and Tempered Steel Fretting Contact. / Hintikka, Jouko; Lehtovaara, Arto; Mäntylä, Antti.
In: TRIBOLOGY TRANSACTIONS, Vol. 60, No. 1, 2017, p. 70-78.
Research output: Contribution to journal › Article › Scientific › peer-review

Improved corrosion properties of Hot Dip Galvanized Steel by nanomolecular silane layers as hybrid interface between zinc and top coatings. / Vuori, Leena; Ali-Löytty, Harri; Lahtonen, Kimmo; Hannula, Markku; Lehtonen, Elina; Niu, Yuran; Valden, Mika.
In: Corrosion, Vol. 73, No. 2, 2017.
Research output: Contribution to journal › Article › Scientific › peer-review

Sliding wear behaviour of HVOF and HVAF sprayed Cr₃C₂-based coatings. / Matikainen, V.; Bolelli, G.; Koivuluoto, H.; Sassatelli, P.; Lusvarghi, L.; Vuoristo, P.
In: *Wear*, Vol. 388-389, 2017, p. 57-71.
Research output: Contribution to journal › Article › Scientific › peer-review

Load capacity of lubricated bismuth bronze bimetal bearing under elliptical sliding motion. / Oksanen, V. T.; Lehtovaara, A. J.; Kallio, M. H.
In: *Wear*, Vol. 388-389, 2017, p. 72-80.
Research output: Contribution to journal › Article › Scientific › peer-review

Non-destructive and wireless monitoring of biodegradable polymers. / Salpavaara, Timo; Hänninen, Aleks; Antniemi, Anni; Lekkala, Jukka; Kellomäki, Minna.
In: *Sensors and Actuators B: Chemical*, Vol. 251, 2017, p. 1018-1025.
Research output: Contribution to journal › Article › Scientific › peer-review

Optimization of convectively cooled heat sinks. / Lampio, Kaj; Karvinen, Reijo.
In: *Microelectronics Reliability*, Vol. 79, 2017, p. 473-479.
Research output: Contribution to journal › Article › Scientific › peer-review

Two cations, two mechanisms : Interactions of sodium and calcium with zwitterionic lipid membranes. / Javanainen, Matti; Melcrová, Adéla; Magarkar, Aniket; Jurkiewicz, Piotr; Hof, Martin; Jungwirth, Pavel; Martinez-Seara, Hector.
In: *Chemical Communications*, Vol. 53, No. 39, 2017, p. 5380-5383.
Research output: Contribution to journal › Article › Scientific › peer-review

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

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

Photophysical properties of porphyrin dimer-single-walled carbon nanotube linked systems. / Baek, Jinseok; Umeyama, Tomokazu; Mizuno, Satoshi; Tkachenko, Nikolai V.; Imahori, Hiroshi.
In: *Journal of Physical Chemistry C*, Vol. 121, No. 39, 2017.
Research output: Contribution to journal › Article › Scientific › peer-review

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

Superamphiphobic overhang structured coating on a biobased material. / Tuominen, Mikko; Teisala, Hannu; Haapanen, Janne; Mäkelä, Jyrki M.; Honkanen, Mari; Vippola, Minnamari; Bardage, Stig; Wälinder, Magnus E P; Swerin, Agne.
In: *Applied Surface Science*, Vol. 389, 15.12.2016, p. 135-143.
Research output: Contribution to journal › Article › Scientific › peer-review

Optimization of HVOF Cr₃C₂-NiCr coating for increased fatigue performance. / Varis, T.; Suhonen, T.; Caloniuss, O.; Čuban, J.; Pietola, M.
In: *Surface and Coatings Technology*, Vol. 305, 15.11.2016, p. 123-131.
Research output: Contribution to journal › Article › Scientific › peer-review

Improvement of actuation performance of dielectric elastomers by barium titanate and carbon black fillers. / Poikelispää, Minna; Shakun, Alexandra; Das, Amit; Vuorinen, Jyrki.
In: Journal of Applied Polymer Science, Vol. 133, No. 42, 44116, 10.11.2016.
Research output: Contribution to journal > Article > Scientific > peer-review

Experimental and numerical investigation of fretting fatigue behavior in bolted joints. / Juoksukangas, Janne; Lehtovaara, Arto; Mäntylä, Antti.
In: Tribology International, Vol. 103, 01.11.2016, p. 440-448.
Research output: Contribution to journal > Article > Scientific > peer-review

Erosion–corrosion resistance of various stainless steel grades in high-temperature sulfuric acid solution. / Lindgren, M.; Siljander, S.; Suihkonen, R.; Pohjanne, P.; Vuorinen, J.
In: Wear, Vol. 364-365, 15.10.2016, p. 10-21.
Research output: Contribution to journal > Article > Scientific > peer-review

A comparison of relative displacement fields between numerical predictions and experimental results in fretting contact. / Juoksukangas, J.; Lehtovaara, A.; Mäntylä, A.
In: Proceedings of the institution of Mechanical Engineers Part J: Journal of Engineering Tribology, Vol. 230, No. 10, 01.10.2016, p. 1273-1287.
Research output: Contribution to journal > Article > Scientific > peer-review

RF measurements to pinpoint defects in inkjet-printed, thermally and mechanically stressed coplanar waveguides. / Myllymäki, Sami; Putaala, Jussi; Hannu, Jari; Kunnari, Esa; Mäntysalo, Matti.
In: Microelectronics Reliability, Vol. 65, 01.10.2016, p. 142-150.
Research output: Contribution to journal > Article > Scientific > peer-review

Photocatalytic and antibacterial properties of ZnO films with different surface topographies on stainless steel substrate. / Heinonen, Saara; Kannisto, Matti; Nikkanen, Juha-Pekka; Huttunen-Saarivirta, Elina; Karp, Matti; Levänen, Erkki.
In: Thin Solid Films, Vol. 616, 01.10.2016, p. 842-849.
Research output: Contribution to journal > Article > Scientific > peer-review

Polyarginine Interacts More Strongly and Cooperatively than Polylysine with Phospholipid Bilayers. / Robison, Aaron D.; Sun, Simou; Poyton, Matthew F.; Johnson, Gregory A.; Pellois, Jean Philippe; Jungwirth, Pavel; Vazdar, Mario; Cremer, Paul S.
In: Journal of Physical Chemistry Part B, Vol. 120, No. 35, 08.09.2016, p. 9287-9296.
Research output: Contribution to journal > Article > Scientific > peer-review

Detergent impurity effect on recycled HDPE : Properties after repetitive processing. / Mylläri, Ville; Hartikainen, Samuel; Poliakova, Valeria; Anderson, Reetta; Jönkkäri, Ilari; Pasanen, Pertti; Andersson, Mirja; Vuorinen, Jyrki.
In: Journal of Applied Polymer Science, Vol. 133, No. 31, 43766, 15.08.2016.
Research output: Contribution to journal > Article > Scientific > peer-review

Reinforced chloroprene rubber by in situ generated silica particles : Evidence of bound rubber on the silica surface. / Kapgate, Bharat P.; Das, Chayan; Das, Amit; Basu, Debdipta; Wiessner, Sven; Reuter, Uta; Heinrich, Gert.
In: Journal of Applied Polymer Science, Vol. 133, No. 30, 43717, 10.08.2016.
Research output: Contribution to journal > Article > Scientific > peer-review

The red, purple and blue modifications of polymeric unsymmetrical hydroxyalkadiynyl-N-arylcarbamate derivatives in Langmuir-Schaefer films. / Alekseev, Alexander; Ihalainen, Petri; Ivanov, Artem; Domnin, Ivan; Klechkovskaya, Vera; Orekhov, Anton; Lemmetyinen, Helge; Vuorimaa-Laukkanen, Elina; Peltonen, Jouko; Vyaz'min, Sergey.
In: Thin Solid Films, Vol. 612, 01.08.2016, p. 463-471.
Research output: Contribution to journal > Article > Scientific > peer-review

Sliding and abrasive wear behaviour of HVOF- and HVOF-sprayed Cr₃C₂-NiCr hardmetal coatings. / Bolelli, G.; Berger, L. M.; Börner, T.; Koivuluoto, H.; Matikainen, V.; Lusvardi, L.; Lyphout, C.; Markocsan, N.; Nylén, P.; Sassatelli, P.; Trache, R.; Vuoristo, P.

In: *Wear*, Vol. 358-359, 15.07.2016, p. 32-50.

Research output: Contribution to journal > Article > Scientific > peer-review

Erosion wear of vinyl ester matrix composites in aqueous and acidic environments at elevated temperatures. / Suihkonen, Reija; Lindgren, Mari; Siljander, Sanna; Sarlin, Essi; Vuorinen, Jyrki.

In: *Wear*, Vol. 358-359, 15.07.2016, p. 7-16.

Research output: Contribution to journal > Article > Scientific > peer-review

Characterization of High-Velocity Single Particle Impacts on Plasma-Sprayed Ceramic Coatings. / Kiilakoski, Jarkko; Lindroos, Matti; Apostol, Marian; Koivuluoto, Heli; Kuokkala, Veli-Tapani; Vuoristo, Petri.

In: *Journal of Thermal Spray Technology*, Vol. 25, 24.06.2016, p. 1127-1137.

Research output: Contribution to journal > Article > Scientific > peer-review

Microstructure and Sliding Wear Behavior of Fe-Based Coatings Manufactured with HVOF and HVOF Thermal Spray Processes. / Milanti, A.; Matikainen, V.; Bolelli, G.; Koivuluoto, H.; Lusvarghi, L.; Vuoristo, P.

In: *Journal of Thermal Spray Technology*, Vol. 25, No. 5, 06.2016, p. 1040-1055.

Research output: Contribution to journal > Article > Scientific > peer-review

Influence of As/group-III flux ratio on defects formation and photovoltaic performance of GaInNAs solar cells. / Polojärvi, Ville; Aho, Arto; Tukiainen, Antti; Raappana, Marianna; Aho, Timo; Schramm, Andreas; Guina, Mircea.

In: *Solar Energy Materials and Solar Cells*, Vol. 149, 01.05.2016, p. 213-220.

Research output: Contribution to journal > Article > Scientific > peer-review

Effect of Hole Transporting Material on Charge Transfer Processes in Zinc Phthalocyanine Sensitized ZnO Nanorods. /

Hakola, Hanna; Sariola-Leikas, Essi; Efimov, Alexander; Tkachenko, Nikolai V.

In: *Journal of Physical Chemistry C*, Vol. 120, No. 13, 21.04.2016, p. 7044-7051.

Research output: Contribution to journal > Article > Scientific > peer-review

Influence of heat treatment on the abrasive wear resistance of a Cr₃C₂NiCr coating deposited by an ethene-fuelled HVOF spray process. / Janka, Leo; Norpoth, Jonas; Trache, Richard; Berger, Lutz Michael.

In: *Surface and Coatings Technology*, Vol. 291, 15.04.2016, p. 444-451.

Research output: Contribution to journal > Article > Scientific > peer-review

Wetting hysteresis induced by temperature changes : Supercooled water on hydrophobic surfaces. / Heydari, Golrokh; Sedighi Moghaddam, Maziar; Tuominen, Mikko; Fielden, Matthew; Haapanen, Janne; Mäkelä, Jyrki M.; Claesson, Per M.

In: *Journal of Colloid and Interface Science*, Vol. 468, 15.04.2016, p. 21-33.

Research output: Contribution to journal > Article > Scientific > peer-review

Stability and Function at High Temperature. What Makes a Thermophilic GTPase Different from Its Mesophilic Homologue. / Katava, Marina; Kalimeri, Maria; Stirnemann, Guillaume; Sterpone, Fabio.

In: *Journal of Physical Chemistry Part B*, Vol. 120, No. 10, 17.03.2016, p. 2721-2730.

Research output: Contribution to journal > Article > Scientific > peer-review

Piezoresistive natural rubber-multiwall carbon nanotube nanocomposite for sensor applications. / Selvan, N. Tamil; Eshwaran, S. B.; Das, A.; Stöckelhuber, K. W.; Wießner, S.; Pötschke, P.; Nando, G. B.; Chervanyov, A. I.; Heinrich, G.

In: *Sensors and Actuators, A: Physical*, Vol. 239, 01.03.2016, p. 102-113.

Research output: Contribution to journal > Article > Scientific > peer-review

Ambient-Pressure XPS Study of a Ni-Fe Electrocatalyst for the Oxygen Evolution Reaction. / Ali-Löyhty, 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.

In: *Journal of Physical Chemistry C*, Vol. 120, No. 4, 04.02.2016, p. 2247-2253.

Research output: Contribution to journal > Article > Scientific > peer-review

Guanidinium Pairing Facilitates Membrane Translocation. / Allolio, Christoph; Baxova, Katarina; Vazdar, Mario; Jungwirth, Pavel.

In: Journal of Physical Chemistry Part B, Vol. 120, No. 1, 14.01.2016, p. 143-153.

Research output: Contribution to journal › Article › Scientific › peer-review

Static friction measurements on steel against uncoated and coated cast iron. / Andersson, P.; Kilpi, L.; Holmberg, K.; Vaajoki, A.; Oksanen, V.

In: Tribologia, Vol. 34, No. 1-2, 01.01.2016, p. 5-40.

Research output: Contribution to journal › Article › Scientific › peer-review

Normal displacements in non-Coulomb friction conditions during fretting. / Hintikka, Jouko; Lehtovaara, Arto; Mäntylä, Antti.

In: Tribology International, Vol. 94, 2016, p. 633-639.

Research output: Contribution to journal › Article › Scientific › peer-review

Influence of temperature-induced copper diffusion on degradation of selective chromium oxy-nitride solar absorber coatings. / Kotilainen, M.; Honkanen, M.; Mizohata, K.; Vuoristo, P.

In: Solar Energy Materials and Solar Cells, Vol. 145, 2016, p. 323-332.

Research output: Contribution to journal › Article › Scientific › peer-review

Wear and impact behaviour of High Velocity Air-Fuel sprayed Fe-Cr-Ni-B-C alloy coatings. / Bolelli, Giovanni; Milanti, Andrea; Lusvardi, Luca; Trombi, Lorenzo; Koivuluoto, Heli; Vuoristo, Petri.

In: Tribology International, Vol. 95, 2016, p. 372-390.

Research output: Contribution to journal › Article › Scientific › peer-review

The role of edge-concentrated wear in impact-abrasion testing. / Ratia, Vilma; Valtonen, Kati; Kemppainen, Anu; Kuokkala, Veli Tapani.

In: Tribology Online, Vol. 11, No. 2, 2016, p. 410-416.

Research output: Contribution to journal › Article › Scientific › peer-review

Microstructural and abrasion wear characteristics of laser-clad tool steel coatings. / Tuominen, J.; Näkki, J.; Pajukoski, H.; Hyvärinen, L.; Vuoristo, P.

In: Surface Engineering, Vol. 32, No. 12, 2016, p. 923-933.

Research output: Contribution to journal › Article › Scientific › peer-review

Rapid and sensitive detection of norovirus antibodies in human serum with a bilayer interferometry biosensor. / Auer, Sanna; Koho, Tiia; Uusi-Kerttula, Hanni; Vesikari, Timo; Blazevic, Vesna; Hytönen, Vesa P.

In: Sensors and Actuators B: Chemical, Vol. 221, 31.12.2015, p. 507-514.

Research output: Contribution to journal › Article › Scientific › peer-review

Comparison of laboratory rolling-sliding wear tests with in-service wear of nodular cast iron rollers against wire ropes. / Oksanen, V.; Valtonen, K.; Andersson, P.; Vaajoki, A.; Laukkanen, A.; Holmberg, K.; Kuokkala, V. T.

In: Wear, Vol. 340-341, 15.10.2015, p. 73-81.

Research output: Contribution to journal › Article › Scientific › peer-review

Production of sulfonated polyetheretherketone/polypropylene fibers for photoactive textiles. / Mylläri, Ville; Fatarella, Enrico; Ruzzante, Marco; Pogni, Rebecca; Baratto, Maria Camilla; Skrifvars, Mikael; Syrjälä, Seppo; Järvelä, Pentti.

In: Journal of Applied Polymer Science, Vol. 132, No. 39, 42595, 01.10.2015.

Research output: Contribution to journal › Article › Scientific › peer-review

ESD qualification data used as the basis for building electrostatic discharge protected areas. / Tamminen, Pasi; Viheriäkoski, Toni; Sydänheimo, Lauri; Ukkonen, Leena.

In: Journal of Electrostatics, Vol. 77, 3024, 01.10.2015, p. 174-181.

Research output: Contribution to journal › Article › Scientific › peer-review

PIP2 and Talin Join Forces to Activate Integrin. / Orłowski, Adam; Kukkurainen, Sampo; Pöyry, Annika; Rissanen, Sami; Vattulainen, Ilpo; Hytönen, Vesa P.; Róg, Tomasz.

In: Journal of Physical Chemistry Part B, Vol. 119, No. 38, 24.09.2015, p. 12381-12389.

Research output: Contribution to journal › Article › Scientific › peer-review

Wear Properties of Thermally Sprayed Tungsten-Carbide Coatings in Paper Machine Environments. / Kiilakoski, J.; Eronen, V.; Vuoristo, P.

In: Tribologia - Finnish Journal of Tribology, Vol. 33, No. 2, 21.09.2015, p. 29.

Research output: Contribution to journal › Article › Scientific › peer-review

Construction of an Interconnected Nanostructured Carbon Black Network : Development of Highly Stretchable and Robust Elastomeric Conductors. / Bhagavatheswaran, Eshwaran Subramani; Parsekar, Meenali; Das, Amit; Le, Hai Hong; Wiessner, Sven; Stöckelhuber, Klaus Werner; Schmaucks, Gerd; Heinrich, Gert.

In: Journal of Physical Chemistry C, Vol. 119, No. 37, 17.09.2015, p. 21723-21731.

Research output: Contribution to journal › Article › Scientific › peer-review

Effect of spraying parameters on the microstructural and corrosion properties of HVOF-sprayed Fe-Cr-Ni-B-C coatings. /

Milanti, A.; Matikainen, V.; Koivuluoto, H.; Bolelli, G.; Lusvardi, L.; Vuoristo, P.

In: Surface and Coatings Technology, Vol. 277, 15.09.2015, p. 81-90.

Research output: Contribution to journal › Article › Scientific › peer-review

Superatom Model for Ag-S Nanocluster with Delocalized Electrons. / Goh, Jing Qiang; Akola, Jaakko.

In: Journal of Physical Chemistry C, Vol. 119, No. 36, 10.09.2015, p. 21165-21172.

Research output: Contribution to journal › Article › Scientific › peer-review

Electrospun Black Titania Nanofibers : Influence of Hydrogen Plasma-Induced Disorder on the Electronic Structure and Photoelectrochemical Performance. / 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.

In: Journal of Physical Chemistry C, Vol. 119, No. 33, 20.08.2015, p. 18835-18842.

Research output: Contribution to journal › Article › Scientific › peer-review

Effect of Phosphatidic Acid on Biomembrane : Experimental and Molecular Dynamics Simulations Study. / Kwolek,

Urszula; Kulig, Waldemar; Wydro, Paweł; Nowakowska, Maria; Róg, Tomasz; Kepczynski, Mariusz.

In: Journal of Physical Chemistry Part B, Vol. 119, No. 31, 06.08.2015, p. 10042-10051.

Research output: Contribution to journal › Article › Scientific › peer-review

Evaluation of crushing strength of spray-dried MgAl₂O₄ granule beds. / Kanerva, Ulla; Suhonen, Tomi; Lagerbom, Juha; Levänen, Erkki.

In: Ceramics International, Vol. 41, No. 7, 01.08.2015, p. 8494-8500.

Research output: Contribution to journal › Article › Scientific › peer-review

Nonlinear Optical Properties of Fluorescent Dyes Allow for Accurate Determination of Their Molecular Orientations in Phospholipid Membranes. / Timr, Štěpán; Brabec, Jiří; Bondar, Alexey; Ryba, Tomáš; Železný, Miloš; Lazar, Josef; Jungwirth, Pavel.

In: Journal of Physical Chemistry Part B, Vol. 119, No. 30, 30.07.2015, p. 9706-9716.

Research output: Contribution to journal › Article › Scientific › peer-review

Photoinduced Electron Transfer in CdSe/ZnS Quantum Dot-Fullerene Hybrids. / Virkki, Kirsi; Demir, Sinem; Lemmetyinen, Helge; Tkachenko, Nikolai V.

In: Journal of Physical Chemistry C, Vol. 119, No. 31, 23.07.2015, p. 17561-17572.

Research output: Contribution to journal › Article › Scientific › peer-review

Role of Internal Water on Protein Thermal Stability : The Case of Homologous G Domains. / Rahaman, Obaidur; Kalimeri, Maria; Melchionna, Simone; Hénin, Jérôme; Sterpone, Fabio.

In: Journal of Physical Chemistry Part B, Vol. 119, No. 29, 23.07.2015, p. 8939-8949.

Research output: Contribution to journal › Article › Scientific › peer-review

Fretting-induced friction and wear in large flat-on-flat contact with quenched and tempered steel. / Hintikka, Jouko; Lehtovaara, Arto; Mäntylä, Antti.

In: Tribology International, Vol. 92, 02.07.2015, p. 191-202.
Research output: Contribution to journal > Article > Scientific > peer-review

A comparison of rheology and FTIR in the study of polypropylene and polystyrene photodegradation. / Mylläri, Ville; Ruoko, Tero-Petri; Syrjälä, Seppo.

In: Journal of Applied Polymer Science, Vol. 132, No. 28, 42246, 01.07.2015.
Research output: Contribution to journal > Article > Scientific > peer-review

Synthesis and Photophysical Properties of Two Diazaporphyrin-Porphyrin Hetero Dimers in Polar and Nonpolar Solutions. / Abou-Chahine, Fawzi; Fujii, Daisuke; Imahori, Hiroshi; Nakano, Haruyuki; Tkachenko, Nikolai V.; Matano, Yoshihiro; Lemmetyinen, Helge.

In: Journal of Physical Chemistry Part B, Vol. 119, No. 24, 18.06.2015, p. 7328-7337.
Research output: Contribution to journal > Article > Scientific > peer-review

Passive resonance sensor based method for monitoring particle suspensions. / Salpavaara, Timo; Järveläinen, Matti; Seppälä, Sari; Yli-Hallila, Teemu; Verho, Jarmo; Viikko, Matti; Lekkala, Jukka; Levänen, Erkki.

In: Sensors and Actuators B: Chemical, Vol. 219, 08.06.2015, p. 324-330.
Research output: Contribution to journal > Article > Scientific > peer-review

PEGylated liposomes as carriers of hydrophobic porphyrins. / Dzieciuch, Monika; Rissanen, Sami; Szydłowska, Natalia; Bunker, Alex; Kumorek, Marta; Jamróz, Dorota; Vattulainen, Ilpo; Nowakowska, Maria; Róg, Tomasz; Kepczynski, Mariusz.

In: Journal of Physical Chemistry Part B, Vol. 119, No. 22, 04.06.2015, p. 6646-6657.
Research output: Contribution to journal > Article > Scientific > peer-review

Hydration of hydroxyl and amino groups examined by molecular dynamics and neutron scattering. / Hladílková, Jana; Fischer, Henry E.; Jungwirth, Pavel; Mason, Philip E.

In: Journal of Physical Chemistry Part B, Vol. 119, No. 21, 28.05.2015, p. 6357-6365.
Research output: Contribution to journal > Article > Scientific > peer-review

Effect of melting state on the thermal shock resistance and thermal conductivity of APS ZrO₂-7.5wt.% Y₂O₃ coatings. / Song, Xuemei; Liu, Ziwei; Suhonen, Tomi; Varis, Tommi; Huang, Liping; Zheng, Xuebin; Zeng, Yi.

In: Surface and Coatings Technology, Vol. 270, 25.05.2015, p. 132-138.
Research output: Contribution to journal > Article > Scientific > peer-review

The effect of impact conditions on the wear and deformation behavior of wear resistant steels. / Lindroos, Matti; Ratia, Vilma; Apostol, Marian; Valtonen, Kati; Laukkanen, Anssi; Molnar, Wolfgang; Holmberg, Kenneth; Kuokkala, Veli Tapani.

In: Wear, Vol. 328-329, 05.04.2015, p. 197-205.
Research output: Contribution to journal > Article > Scientific > peer-review

Erosive wear of various stainless steel grades used as impeller blade materials in high temperature aqueous slurry. / Lindgren, M.; Suihkonen, R.; Vuorinen, J.

In: Wear, Vol. 328-329, 05.04.2015, p. 391-400.
Research output: Contribution to journal > Article > Scientific > peer-review

Oxidation of cholesterol does not alter significantly its uptake into high-density lipoprotein particles. / Karilainen, Topi; Timr, Štěpán; Vattulainen, Ilpo; Jungwirth, Pavel.

In: Journal of Physical Chemistry Part B, Vol. 119, No. 13, 02.04.2015, p. 4594-4600.
Research output: Contribution to journal > Article > Scientific > peer-review

Tribology of HVOF- and HVOF-sprayed WC-10Co4Cr hardmetal coatings : A comparative assessment. / Bolelli, G.; Berger, L. M.; Börner, T.; Koivuluoto, H.; Lusvardi, L.; Lyphout, C.; Markocsan, N.; Matikainen, V.; Nylén, P.; Sassatelli, P.; Trache, R.; Vuoristo, P.

In: Surface and Coatings Technology, Vol. 265, 15.03.2015, p. 125-144.
Research output: Contribution to journal > Article > Scientific > peer-review

High temperature corrosion of thermally sprayed NiCr and FeCr coatings covered with a KCl-K₂SO₄ salt mixture. / Varis, T.; Bankiewicz, D.; Yrjas, P.; Oksa, M.; Suhonen, T.; Tuurna, S.; Ruusuvoori, K.; Holmström, S.
In: Surface and Coatings Technology, Vol. 265, 15.03.2015, p. 235-243.
Research output: Contribution to journal > Article > Scientific > peer-review

Exploring the role of stearic acid in modified zinc aluminum layered double hydroxides and their acrylonitrile butadiene rubber nanocomposites. / Eshwaran, Subramani Bhagavatheswaran; Basu, Debdipta; Vaikuntam, Sankar Raman; Kutlu, Burak; Wiessner, Sven; Das, Amit; Naskar, Kinsuk; Heinrich, Gert.
In: Journal of Applied Polymer Science, Vol. 132, No. 9, 41539, 01.03.2015.
Research output: Contribution to journal > Article > Scientific > peer-review

Sulfonated polyetheretherketone/polypropylene polymer blends for the production of photoactive materials. / Fatarelle, Enrico; Mylläri, Ville; Ruzzante, Marco; Pogni, Rebecca; Baratto, Maria Camilla; Skrifvars, Mikael; Syrjälä, Seppo; Järvelä, Pentti.
In: Journal of Applied Polymer Science, Vol. 132, No. 8, 41509, 01.02.2015.
Research output: Contribution to journal > Article > Scientific > peer-review

Silver sulfide nanoclusters and the superatom model. / Goh, Jing-Qiang; Malola, Sami; Häkkinen, Hannu; Akola, Jaakko.
In: Journal of Physical Chemistry C, Vol. 119, No. 3, 22.01.2015, p. 1583-1590.
Research output: Contribution to journal > Article > Scientific > peer-review

Effect of Multiple Impacts on the Deformation of Wear-Resistant Steels. / Ratia, Vilma; Rojacz, Harald; Terva, Juuso; Valtonen, Kati; Badisch, Ewald; Kuokkala, Veli Tapani.
In: Tribology Letters, Vol. 57, No. 2, 15, 21.01.2015.
Research output: Contribution to journal > Article > Scientific > peer-review

Aryl end-capped quaterthiophenes applied as anode interfacial layers in inverted organic solar cells. / Heiskanen, J. P.; Manninen, V. M.; Pankov, D.; Omar, W. A. E.; Kastinen, T.; Hukka, T. I.; Lemmetyinen, H. J.; Hormi, O. E. O.
In: Thin Solid Films, Vol. 574, 01.01.2015, p. 196-206.
Research output: Contribution to journal > Article > Scientific > peer-review

The correlation between gear contact friction and ball on disc friction measurements. / Björling, M.; Miettinen, J.; Marklund, P.; Lehtovaara, A.; Larsson, R.
In: Tribology International, Vol. 83, 2015, p. 114-119.
Research output: Contribution to journal > Article > Scientific > peer-review

Dielectric Breakdown Strength of Thermally Sprayed Ceramic Coatings : Effects of Different Test Arrangements. / Niittymäki, Minna; Lahti, Kari; Suhonen, Tomi; Metsäjoki, Jarkko.
In: Journal of Thermal Spray Technology, Vol. 24, No. 3, 2015, p. 542-551.
Research output: Contribution to journal > Article > Scientific > peer-review

Digital correction of frequency response mismatches in 2-channel time-interleaved ADCs using adaptive I/Q signal processing. / Singh, Simran; Valkama, Mikko; Epp, Michael; Anttila, Lauri; Schlecker, Wolfgang; Ingber, Elmar.
In: Analog Integrated Circuits and Signal Processing, Vol. 82, No. 3, 2015, p. 543-555.
Research output: Contribution to journal > Article > Scientific > peer-review

The deformation, strain hardening, and wear behavior of chromium-alloyed hadfield steel in abrasive and impact conditions. / Lindroos, Matti; Apostol, Marian; Heino, Vuokko; Valtonen, Kati; Laukkanen, Anssi; Holmberg, Kenneth; Kuokkala, Veli Tapani.
In: Tribology Letters, Vol. 57, No. 3, 24, 2015.
Research output: Contribution to journal > Article > Scientific > peer-review

Influence of the Spray Gun Type on Microstructure and Properties of HVOF Sprayed Fe-Based Corrosion Resistant Coatings. / Milanti, A.; Koivuluoto, H.; Vuoristo, P.
In: Journal of Thermal Spray Technology, Vol. 24, No. 7, 2015, p. 1312-1322.
Research output: Contribution to journal > Article > Scientific > peer-review

DNA lesion can facilitate base ionization : Vertical ionization energies of aqueous 8-oxoguanine and its nucleoside and nucleotide. / Palivec, Vladimír; Pluharová, Eva; Unger, Isaak; Winter, Bernd; Jungwirth, Pavel.

In: Journal of Physical Chemistry Part B, Vol. 118, No. 48, 04.12.2014, p. 13833-13837.

Research output: Contribution to journal › Article › Scientific › peer-review

Fabrication and Characterization of Amorphous Alumina-Yttria-Stabilized Zirconia Coatings by Air Plasma Spraying. /

Song, Xuemei; Suhonen, Tomi; Varis, Tommi; Huang, Liping; Zheng, Xuebin; Zeng, Yi.

In: Journal of Thermal Spray Technology, Vol. 23, No. 8, 25.11.2014, p. 1302-1311.

Research output: Contribution to journal › Article › Scientific › peer-review

Rapid, Brushless Self-assembly of a PS-b-PDMS Block Copolymer for Nanolithography. / Rasappa, Sozaraj; Schulte, Lars; Borah, Dipu; Morris, Michael A.; Ndoni, Sokol.

In: Colloids and Interface Science Communications, Vol. 2, 01.10.2014, p. 1-5.

Research output: Contribution to journal › Article › Scientific › peer-review

Effects of composition and microstructure on the abrasive wear performance of quenched wear resistant steels. / Ojala, Niko; Valtonen, Kati; Heino, Vuokko; Kallio, Marke; Aaltonen, Joonas; Siitonen, Pekka; Kuokkala, Veli Tapani.

In: Wear, Vol. 317, No. 1-2, 15.09.2014, p. 225-232.

Research output: Contribution to journal › Article › Scientific › peer-review

Effect of silane integrated sol-gel derived in situ silica on the properties of nitrile rubber. / Kapgate, Bharat P.; Das, Chayan; Basu, Debdipta; Das, Amit; Heinrich, Gert; Reuter, Uta.

In: Journal of Applied Polymer Science, Vol. 131, No. 15, 40531, 05.08.2014.

Research output: Contribution to journal › Article › Scientific › peer-review

Performance testing of iron based thermally sprayed HVOF coatings in a biomass-fired fluidised bed boiler. / Oksa, Maria; Varis, Tommi; Ruusuvuori, Kimmo.

In: Surface and Coatings Technology, Vol. 251, 25.07.2014, p. 191-200.

Research output: Contribution to journal › Article › Scientific › peer-review

Accurate description of calcium solvation in concentrated aqueous solutions. / Kohagen, Miriam; Mason, Philip E.; Jungwirth, Pavel.

In: Journal of Physical Chemistry Part B, Vol. 118, No. 28, 17.07.2014, p. 7902-7909.

Research output: Contribution to journal › Article › Scientific › peer-review

Surface behavior of hydrated guanidinium and ammonium ions : A comparative study by photoelectron spectroscopy and molecular dynamics. / Werner, Josephina; Wernersson, Erik; Ekholm, Victor; Ottosson, Niklas; Öhrwall, Gunnar; Heyda, Jan; Persson, Ingmar; Söderström, Johan; Jungwirth, Pavel; Björneholm, Olle.

In: Journal of Physical Chemistry Part B, Vol. 118, No. 25, 26.06.2014, p. 7119-7127.

Research output: Contribution to journal › Article › Scientific › peer-review

Carbon nanotubes-filled thermoplastic polyurethane-urea and carboxylated acrylonitrile butadiene rubber blend nanocomposites. / Mahmood, Nasir; Khan, Asad Ullah; Stöckelhuber, Klaus Werner; Das, Amit; Jehnichen, Dieter; Heinrich, Gert.

In: Journal of Applied Polymer Science, Vol. 131, No. 11, 05.06.2014.

Research output: Contribution to journal › Article › Scientific › peer-review

Damage mechanisms and cracking behavior of thermal sprayed WC-CoCr coating under scratch testing. / Ghabchi, Arash; Sampath, Sanjay; Holmberg, Kenneth; Varis, Tommi.

In: Wear, Vol. 313, No. 1-2, 15.05.2014, p. 97-105.

Research output: Contribution to journal › Article › Scientific › peer-review

Composition dependent growth dynamics in molecular beam epitaxy of GaInNAs solar cells. / Aho, Arto; Polojärvi, Ville; Korpijärvi, Ville Markus; Salmi, Joel; Tukiainen, Antti; Laukkanen, Pekka; Guina, Mircea.

In: Solar Energy Materials and Solar Cells, Vol. 124, 05.2014, p. 150-158.

Microphase mechanism of "superquenching" of luminescent probes in aqueous solutions of DNA and some other polyelectrolytes. / Kuzmin, Michael G.; Soboleva, Irina V.; Durandin, Nikita A.; Lisitsyna, Ekaterina S.; Kuzmin, Vladimir A.
In: Journal of Physical Chemistry Part B, Vol. 118, No. 15, 17.04.2014, p. 4245-4252.

Research output: Contribution to journal > Article > Scientific > peer-review

Fabrication of ssDNA/oligo(ethylene glycol) monolayers by promoted exchange reaction with thiol and disulfide substituents. / Khan, M. Nuruzzaman; Zharnikov, Michael.

In: Journal of Physical Chemistry C, Vol. 118, No. 6, 13.02.2014, p. 3093-3101.

Research output: Contribution to journal > Article > Scientific > peer-review

Both zundel and eigen isomers contribute to the IR spectrum of the gas-phase H₉O₄ + cluster. / Kulig, Waldemar; Agmon, Noam.

In: Journal of Physical Chemistry Part B, Vol. 118, No. 1, 09.01.2014, p. 278-286.

Research output: Contribution to journal > Article > Scientific > peer-review

Fabrication of ssDNA/Oligo(ethylene glycol) monolayers and patterns by exchange reaction promoted by ultraviolet light irradiation. / Khan, M. Nuruzzaman; Zharnikov, Michael.

In: Journal of Physical Chemistry C, Vol. 117, No. 47, 27.11.2013, p. 24883-24893.

Research output: Contribution to journal > Article > Scientific > peer-review

Release of halide ions from the buried active site of the haloalkane dehalogenase LinB revealed by stopped-flow fluorescence analysis and free energy calculations. / Hladilkova, Jana; Prokop, Zbynek; Chaloupkova, Radka; Damborsky, Jiri; Jungwirth, Pavel.

In: Journal of Physical Chemistry Part B, Vol. 117, No. 46, 21.11.2013, p. 14329-14335.

Research output: Contribution to journal > Article > Scientific > peer-review

How conformational flexibility stabilizes the hyperthermophilic elongation factor G-domain. / Kalimeri, Maria; Rahaman, Obaidur; Melchionna, Simone; Sterpone, Fabio.

In: Journal of Physical Chemistry Part B, Vol. 117, No. 44, 07.11.2013, p. 13775-13785.

Research output: Contribution to journal > Article > Scientific > peer-review

Spectroscopic study of a DNA brush synthesized in situ by surface initiated enzymatic polymerization. / Khan, M. Nuruzzaman; Tjong, Vinalia; Chilkoti, Ashutosh; Zharnikov, Michael.

In: Journal of Physical Chemistry Part B, Vol. 117, No. 34, 29.08.2013, p. 9929-9938.

Research output: Contribution to journal > Article > Scientific > peer-review

Irradiation promoted exchange reaction with disulfide substituents. / Khan, M. Nuruzzaman; Zharnikov, Michael.

In: Journal of Physical Chemistry C, Vol. 117, No. 28, 18.07.2013, p. 14534-14543.

Research output: Contribution to journal > Article > Scientific > peer-review

Reversal of the Hofmeister series: Specific ion effects on peptides. / Paterová, Jana; Rembert, Kelvin B.; Heyda, Jan; Kurra, Yadagiri; Okur, Halil I.; Liu, Wenshe R.; Hilty, Christian; Cremer, Paul S.; Jungwirth, Pavel.

In: Journal of Physical Chemistry Part B, Vol. 117, No. 27, 11.07.2013, p. 8150-8158.

Research output: Contribution to journal > Article > Scientific > peer-review

Cation-specific effects on enzymatic catalysis driven by interactions at the tunnel mouth. / Štěpánková, Veronika; Paterová, Jana; Damborský, Jiří; Jungwirth, Pavel; Chaloupková, Radka; Heyda, Jan.

In: Journal of Physical Chemistry Part B, Vol. 117, No. 21, 30.05.2013, p. 6394-6402.

Research output: Contribution to journal > Article > Scientific > peer-review

The sensitivity of random polymer brush-lamellar polystyrene-b-polymethylmethacrylate block copolymer systems to process conditions. / Borah, Dipu; Rasappa, Sozaraj; Senthamaraikannan, Ramsankar; Shaw, Matthew T.; Holmes, Justin D.; Morris, Michael A.

In: Journal of Colloid and Interface Science, Vol. 393, No. 1, 01.03.2013, p. 192-202.

Research output: Contribution to journal > Article > Scientific > peer-review

Ab initio study of the surface properties of austenitic stainless steel alloys. / Pitkänen, H.; Alatalo, M.; Puisto, A.; Ropo, M.; Kokko, K.; Vitos, L.

In: Surface Science, Vol. 609, 03.2013, p. 190-194.

Research output: Contribution to journal > Article > Scientific > peer-review

Aqueous guanidinium-carbonate interactions by molecular dynamics and neutron scattering : Relevance to ion-protein interactions. / Vazdar, Mario; Jungwirth, Pavel; Mason, Philip E.

In: Journal of Physical Chemistry Part B, Vol. 117, No. 6, 14.02.2013, p. 1844-1848.

Research output: Contribution to journal > Article > Scientific > peer-review

Transforming anion instability into stability : Contrasting photoionization of three protonation forms of the phosphate ion upon moving into water. / Pluhařová, Eva; Ončák, Milan; Seidel, Robert; Schroeder, Christi; Schroeder, William; Winter, Bernd; Bradforth, Stephen E.; Jungwirth, Pavel; Slavíček, Petr.

In: Journal of Physical Chemistry Part B, Vol. 116, No. 44, 08.11.2012, p. 13254-13264.

Research output: Contribution to journal > Article > Scientific > peer-review

Block copolymer lithography : Feature size control and extension by an over-etch technique. / Rasappa, Sozaraj; Borah, Dipu; Sentharamaikannan, Ramsankar; Faulkner, Colm C.; Shaw, Matthew T.; Gleeson, Peter; Holmes, Justin D.; Morris, Michael A.

In: Thin Solid Films, Vol. 522, 01.11.2012, p. 318-323.

Research output: Contribution to journal > Article > Scientific > peer-review

Cysteine-tagged chimeric avidin forms high binding capacity layers directly on gold. / Vikholm-Lundin, Inger; Auer, Sanna; Paakkunainen, Maija; Määttä, Juha A E; Munter, Tony; Leppiniemi, Jenni; Hytönen, Vesa P.; Tappura, Kirsi.

In: Sensors and Actuators B: Chemical, Vol. 171-172, 08.2012, p. 440-448.

Research output: Contribution to journal > Article > Scientific > peer-review

Accurate description of aqueous carbonate ions : An effective polarization model verified by neutron scattering. / Mason, Philip E.; Wernersson, Erik; Jungwirth, Pavel.

In: Journal of Physical Chemistry Part B, Vol. 116, No. 28, 19.07.2012, p. 8145-8153.

Research output: Contribution to journal > Article > Scientific > peer-review

Behavior of 4-hydroxynonenal in phospholipid membranes. / Vazdar, Mario; Jurkiewicz, Piotr; Hof, Martin; Jungwirth, Pavel; Cwiklik, Lukasz.

In: Journal of Physical Chemistry Part B, Vol. 116, No. 22, 07.06.2012, p. 6411-6415.

Research output: Contribution to journal > Article > Scientific > peer-review

Surface-relief gratings and stable birefringence inscribed using light of broad spectral range in supramolecular polymer-bisazobenzene complexes. / Koskela, Jenni E.; Vapaavuori, Jaana; Hautala, Juho; Priimagi, Arri; Faul, Charl F J; Kaivola, Matti; Ras, Robin H A.

In: Journal of Physical Chemistry C, Vol. 116, No. 3, 26.01.2012, p. 2363-2370.

Research output: Contribution to journal > Article > Scientific > peer-review

Printable and flexible macroporous organosilica film with high protein adsorption capacity. / Heikkinen, Jarkko J.; Kivimäki, Liisa; Hytönen, Vesa P.; Kulomaa, Markku S.; Hormi, Osmo E O.

In: Thin Solid Films, Vol. 520, No. 6, 01.01.2012, p. 1934-1937.

Research output: Contribution to journal > Article > Scientific > peer-review

Oriental dependence of the affinity of guanidinium ions to the water surface. / Wernersson, Erik; Heyda, Jan; Vazdar, Mario; Lund, Mikael; Mason, Philip E.; Jungwirth, Pavel.

In: Journal of Physical Chemistry Part B, Vol. 115, No. 43, 03.11.2011, p. 12521-12526.

Research output: Contribution to journal > Article > Scientific > peer-review

Thermally evaporated single-crystal Germanium on Silicon. / Sorianello, V.; Colace, L.; Nardone, M.; Assanto, G.
In: Thin Solid Films, Vol. 519, No. 22, 01.09.2011, p. 8037-8040.
Research output: Contribution to journal > Article > Scientific > peer-review

Towards universal enrichment nanocoating for IR-ATR waveguides. / Giammarco, James; Zdyrko, Bogdan; Petit, Laetitia; Musgraves, J. David; Hu, Juejun; Agarwal, Anu; Kimerling, Lionel; Richardson, Kathleen; Luzinov, Igor.
In: Chemical Communications, Vol. 47, No. 32, 28.08.2011, p. 9104-9106.
Research output: Contribution to journal > Article > Scientific > peer-review

Detection of 3,4-methylenedioxymethamphetamine (MDMA, ecstasy) by displacement of antibodies. / Vikholm-Lundin, Inger; Auer, Sanna; Hellgren, Ann Charlotte.
In: Sensors and Actuators B: Chemical, Vol. 156, No. 1, 10.08.2011, p. 28-34.
Research output: Contribution to journal > Article > Scientific > peer-review

Urea and guanidinium induced denaturation of a Trp-cage miniprotein. / Heyda, Jan; Kožíšek, Milan; Bednárova, Lucie; Thompson, Gary; Konvalinka, Jan; Vondrášek, Jiří; Jungwirth, Pavel.
In: Journal of Physical Chemistry Part B, Vol. 115, No. 28, 21.07.2011, p. 8910-8924.
Research output: Contribution to journal > Article > Scientific > peer-review

Optimised selection of new protective coatings for biofuel boiler applications. / Tuurna, S.; Varis, T.; Penttilä, K.; Ruusuvuori, K.; Holmström, S.; Yli-Olli, S.
In: Materials and Corrosion-Werkstoffe und Korrosion, Vol. 62, No. 7, 07.2011, p. 642-649.
Research output: Contribution to journal > Article > Scientific > peer-review

Plasma etch technologies for the development of ultra-small feature size transistor devices. / 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.
In: Journal of Physics D: Applied Physics, Vol. 44, No. 17, 174012, 04.05.2011.
Research output: Contribution to journal > Article > Scientific > peer-review

Energetic origin of proton affinity to the air/water interface. / Takahashi, Hideaki; Maruyama, Kunihiko; Karino, Yasuhito; Morita, Akihiro; Nakano, Masayoshi; Jungwirth, Pavel; Matubayasi, Nobuyuki.
In: Journal of Physical Chemistry Part B, Vol. 115, No. 16, 28.04.2011, p. 4745-4751.
Research output: Contribution to journal > Article > Scientific > peer-review

Micro-Raman characterization of Germanium thin films evaporated on various substrates. / Sorianello, V.; Colace, L.; Assanto, G.; Nardone, M.
In: Microelectronic Engineering, Vol. 88, No. 4, 04.2011, p. 492-495.
Research output: Contribution to journal > Article > Scientific > peer-review

Optical power monitors in Ge monolithically integrated on SOI chips. / Colace, L.; Sorianello, V.; Romagnoli, M.; Socci, L.; Assanto, G.
In: Microelectronic Engineering, Vol. 88, No. 4, 04.2011, p. 514-517.
Research output: Contribution to journal > Article > Scientific > peer-review

Thermal evaporation of Ge on Si for near infrared detectors : Material and device characterization. / Sorianello, V.; Colace, L.; Assanto, G.; Notargiacomo, A.; Armani, N.; Rossi, F.; Ferrari, C.
In: Microelectronic Engineering, Vol. 88, No. 4, 04.2011, p. 526-529.
Research output: Contribution to journal > Article > Scientific > peer-review

Ionization of purine tautomers in nucleobases, nucleosides, and nucleotides : From the gas phase to the aqueous environment. / Pluhařová, Eva; Jungwirth, Pavel; Bradforth, Stephen E.; Slaviček, Petr.
In: Journal of Physical Chemistry Part B, Vol. 115, No. 5, 10.02.2011, p. 1294-1305.
Research output: Contribution to journal > Article > Scientific > peer-review

Interfacial design and structure of protein/polymer films on oxidized AlGaN surfaces. / 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.

In: Journal of Physics D: Applied Physics, Vol. 44, No. 3, 34010, 26.01.2011.
Research output: Contribution to journal > Article > Scientific > peer-review

Observation of off-axis directional beaming via subwavelength asymmetric metallic gratings. / Caglayan, H.; Bulu, I.; Ozbay, E.

In: Journal of Physics D: Applied Physics, Vol. 42, No. 4, 045105, 2009.
Research output: Contribution to journal > Article > Scientific > peer-review

Calculated electronic density of states and structural properties of tetrahedral amorphous carbon. / Koivusaari, K. Jarmo; Rantala, Tapio T.; Leppävuori, Seppo.

In: Diamond and Related Materials, Vol. 9, No. 3, 04.2000, p. 736-740.
Research output: Contribution to journal > Article > Scientific > peer-review

Morphological and structural changes in laser CVD of silicon : comparison of theoretical temperature calculations with experimental results. / Milne, D.; Wilson, J. I B; Rantala, T. T.; Lenkkeri, J.

In: Applied Surface Science, Vol. 43, No. 1-4, 02.12.1989, p. 81-86.
Research output: Contribution to journal > Article > Scientific > peer-review

Numerical simulation of temperature distributions in layered structures during laser processing. / Levoska, J.; Rantala, T. T.; Lenkkeri, J.

In: Applied Surface Science, Vol. 36, No. 1-4, 1989, p. 12-22.
Research output: Contribution to journal > Article > Scientific > peer-review

A Finite Cluster Approach to the Electron-Hole Pair Damping of the Adsorbate Vibration : CO Adsorbed on Cu(100). / Rantala, T. T.; Rosén, A.; Helsing, B.

In: Studies in Surface Science and Catalysis, Vol. 26, No. C, 1986, p. 173-181.
Research output: Contribution to journal > Article > Scientific > peer-review

Development in additive methods in aramid fiber surface modification to increase fiber-matrix adhesion : A review. /

Palola, Sarianna; Vuorinen, Jyrki; Noordermeer, Jacques W.M.; Sarlin, Essi.
In: Coatings, Vol. 10, No. 6, 556, 01.06.2020.
Research output: Contribution to journal > Review Article > Scientific > peer-review

Stimuli-responsive photonic polymer coatings. / Stumpel, Jelle E.; Broer, Dirk J.; Schenning, Albertus P H J.

In: Chemical Communications, Vol. 50, No. 100, 28.12.2014, p. 15839-15848.
Research output: Contribution to journal > Review Article > Scientific > peer-review

Formation mechanisms, structure, and properties of HVOF-sprayed WC-CoCr coatings : An approach toward process maps. / Varis, T.; Suhonen, T.; Ghabchi, A.; Valarezo, A.; Sampath, S.; Liu, X.; Hannula, S. P.

In: Journal of Thermal Spray Technology, Vol. 23, No. 6, 2014, p. 1009-1018.
Research output: Contribution to journal > Review Article > Scientific > peer-review

Development and application of HVOF sprayed spinel protective coating for SOFC interconnects. / Thomann, O.; Pihlatie, M.; Rautanen, M.; Himanen, O.; Lagerbom, J.; Mäkinen, M.; Varis, T.; Suhonen, T.; Kiviaho, J.

In: Journal of Thermal Spray Technology, Vol. 22, No. 5, 06.2013, p. 631-639.
Research output: Contribution to journal > Review Article > Scientific > peer-review

Increased lifetime for biomass and waste to energy power plant boilers with HVOF coatings : High temperature corrosion testing under chlorine-containing molten salt. / Oksa, Maria; Tuurna, Satu; Varis, Tommi.

In: Journal of Thermal Spray Technology, Vol. 22, No. 5, 06.2013, p. 783-796.
Research output: Contribution to journal > Review Article > Scientific > peer-review

Corrosion properties of thermally sprayed bond coatings under plasma sprayed chromia coating in sulfuric acid solutions. / Vuoristo, Petri; Varis, Tommi; Meschini, Damiano; Bolelli, Giovanni; Lusvarghi, Luca.

International Thermal Spray Conference and Exposition, ITSC 2019: New Waves of Thermal Spray Technology for Sustainable Growth. ed. / F. Azarmi; Y. Lau; J. Veilleux; C. Widener; F. Toma; H. Koivuluoto; K. Balani; H. Li; K. Shinoda. ASM International, 2019. p. 923-930 (Proceedings of the International Thermal Spray Conference).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Process time importance in the product properties evolution during extrusion coating of different LDPE grades. /

Suokas, E.; Kuusipalo, J.

15th TAPPI Advanced Coating Fundamentals Symposium 2018: Charlotte; United States; 14 April 2018 through 15 April 2018. TAPPI Press, 2018. p. 151-159.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Active packaging by paper coating. / Jarnstrom, Lars; Johansson, Kristin; Kuusipalo, Jurkka; Jonsson, Leif .

14th TAPPI Advanced Coating Symposium 2016. TAPPI Press, 2016. p. 88-92.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Roll-to-roll application of photocatalytic TiO₂ nanoparticles for printed functionality. / Saarinen, J. J.; Valtakari, D.;

Bollström, R.; Stepien, M.; Haapanen, J.; Mäkelä, J. M.; Toivakka, M.

Advanced Manufacturing, Electronics and Microsystems: TechConnect Briefs 2016. Vol. 4 TechConnect, 2016. p. 47-50.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Improved properties for packaging materials by nanoscale surface modification and ALD barrier coating. / Lahti, Johanna;

Lavonen, Juho; Lahtinen, Kimmo; Johansson, Petri; Seppänen, Tarja; Cameron, David C.

TAPPI International Conference on Nanotechnology for Renewable Materials 2016. Vol. 2 TAPPI Press, 2016. p. 684-706.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Characterization Of High-Velocity Single Particle Impacts On Thermally Sprayed Ceramic Coatings. / Kiilakoski, Jarkko ;

Lindroos, Matti; Matikainen, Ville; Apostol, Nicolae; Koivuluoto, Heli; Vuoristo, Petri.

International Thermal Spray Conference & Exposition 2015. 2015.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

HVOF process control enabling strategies. / Ghabchi, A.; Varis, T.; Holmberg, K.; Sampath, S.

International Thermal Spray Conference and Exposition, ITSC 2012 - Air, Land, Water and the Human Body: Thermal Spray Science and Applications. ASM International, 2012. p. 465-471.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Adjustable wetting properties of paperboard by liquid flame spray process. / Stepien, Milcna; Saarinen, Jarkko J.; Teisala,

Hannu; Tuominen, Mikko; Aromaa, Mikko; Kuusipalo, Jurkka; Mäkelä, Jyrki; Toivakka, Martti.

11th Advanced Coating Fundamentals Symposium Proceedings: The Latest Advances in Coating Research and Development. 2010. p. 80-88.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

CLC a Colored Liquid Crystal : Prototype Description and Design Opportunities. / Rubio Hernandez, Rosana.

Proceedings of the 11th International Conference: Glass Performance Days. 2009.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Envolvente de Vidrio Electrocrómico. / Rubio Hernandez, Rosana; Marshall-Berenguer, Roser; De la Flor San Vicente, Luis.

Foro ARCA II. Arquitectura y Calidad de vida. : Edificación y sostenibilidad: un compromiso posible. 2004.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Slurry and dry particle erosion wear properties of WC-10Co4Cr and Cr₃C₂-25NiCr hardmetal coatings deposited by HVOF and HVOF spray processes. / Matikainen, V.; Rubio Peregrina, S.; Ojalá, N.; Koivuluoto, H.; Schubert, J.; Houdková, ; Vuoristo, P.

In: Tribologia, Vol. 36, No. 1-2, 2019, p. 58-61.

Research output: Contribution to journal › Article › Scientific

Effect of microstructure on the abrasive wear resistance of steels with hardness 450 HV. / Haiko, O.; Heino, V.; Porter, D. A.; Uusitalo, J.; Kömi, J.

In: Tribologia, Vol. 36, No. 1, 2019, p. 54-57.

Research output: Contribution to journal › Article › Scientific

Cavitation wear characteristics of Al₂O₃-ZrO₂-ceramic coatings deposited by APS and HVOF -processes. / Kiilakoski, Jarkko; Lukac, Frantisek; Koivuluoto, Heli; Vuoristo, Petri.

International Thermal Spray Conference ITSC 2017, Conference Proceedings: June 7-9, 2017, Düsseldorf, Germany.. Vol. 336 Düsseldorf : DVS Media GmbH, 2017. p. 928-933 (DVS-Berichte / DVS - Deutscher Verband für Schweißen und Verwandte Verfahren e.V.).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

Fracture Characteristics of High-Velocity Suspension Flame-Sprayed Aluminum Oxide Coatings. / Kiilakoski, Jarkko; Lutoschkin, Axel; Plachetta, Martin; Apostol, Marian; Koivuluoto, Heli; Killinger, Andreas; Vuoristo, Petri.

International Thermal Spray Conference & Exposition, ITSC 2016. DVS Media GmbH, 2016. p. 466-471.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

Advanced coatings by novel high-kinetic thermal spray processes. / Matikainen, Ville; Koivuluoto, Heli; Milanti, Andrea; Vuoristo, Petri.

In: Materia, Vol. 73, No. 1, 09.02.2015, p. 46-50.

Research output: Contribution to journal › Article › Professional

Atomikerroskasvatusmenetelmällä kasvatetun titaanidioksidikalvon ominaisuudet valosähkökemiallisessa veden hajottamisessa. / Saari, Jesse.

2017. 74 p.

Research output: Book/Report › Master's Thesis › Scientific

Vacancy-type defect distributions near argon sputtered Al(100) surface studied by variable-energy positrons and molecular dynamics simulations. / Mäkinen, J.; Vehanen, A.; Hautojärvi, P.; Huomo, H.; Lahtinen, J.; Nieminen, R. M.; Valkealahti, S.

In: Surface Science, Vol. 175, No. 2, 02.09.1986, p. 385-414.

Research output: Contribution to journal › Article › Scientific › peer-review

Role of Oxide Defects in ALD grown TiO₂ Coatings on Performance as Photoanode Protection Layer. / Saari, Jesse; Ali-Löytty, Harri; Valden, Mika.

2018. Paper presented at Optics & Photonics Days 2018, Jyväskylä, Finland.

Research output: Other conference contribution › Paper, poster or abstract › Scientific

Thermal Modification of ALD Grown Titanium Oxide Ultra Thin Film for Photoanode Applications. / Hannula, Markku Kalevi; Lahtonen, Kimmo Tapio; Isotalo, Tero Jesse; Saari, Jesse Samuli; Valden, Mika Olavi.

2016. Paper presented at Symposium on Future Prospects for Photonics, Tampere, Finland.

Research output: Other conference contribution › Paper, poster or abstract › Scientific