

Haiko O, Heino V, Porter DA, Uusitalo J, Kömi J. **Effect of microstructure on the abrasive wear resistance of steels with hardness 450 HV.** Tribologia. 2019;36(1):54-57. <https://doi.org/10.30678/FJT.82443>

Matikainen V, Rubio Peregrina S, Ojala N, Koivuluoto H, Schubert J, Houdková et al. **Slurry and dry particle erosion wear properties of WC-10Co4Cr and Cr<sub>3</sub>C<sub>2</sub>-25NiCr hardmetal coatings deposited by HVOF and HVOF spray processes.** Tribologia. 2019;36(1-2):58-61. <https://doi.org/10.30678/FJT.83590>

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

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

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

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

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

Juoksukangas J, Lehtovaara A, Mäntylä A. **A comparison of relative displacement fields between numerical predictions and experimental results in fretting contact.** Proceedings of the institution of Mechanical Engineers Part J: Journal of Engineering Tribology. 2016 Oct 1;230(10):1273-1287. <https://doi.org/10.1177/1350650116633573>

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

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

Ali-Löytty H, Louie MW, Singh MR, Li L, Sanchez Casalongue HG, Ogasawara H et al. **Ambient-Pressure XPS Study of a Ni-Fe Electrocatalyst for the Oxygen Evolution Reaction.** Journal of Physical Chemistry C. 2016 Feb 4;120(4):2247-2253. <https://doi.org/10.1021/acs.jpcc.5b10931>

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

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

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

Saarimaa V, Fuertes N, Persson D, Zavalis T, Kaleva A, Nikkanen J-P et al. **Assessment of pitting corrosion in bare and passivated (wet  $\text{scCO}_2$ -induced patination and chemical passivation) hot-dip galvanized steel samples with SVET, FTIR, and SEM (EDS).** *Materials and Corrosion*. 2020. <https://doi.org/10.1002/maco.202011653>

Matikainen V, Koivuluoto H, Vuoristo P. **A study of  $\text{Cr}_3\text{C}_2$ -based HVOF- and HVOF-sprayed coatings: Abrasion, dry particle erosion and cavitation erosion resistance.** *Wear*. 2020 Apr 15;446-447. 203188. <https://doi.org/10.1016/j.wear.2020.203188>

Matikainen V, Bolelli G, Koivuluoto H, Honkanen M, Vippola M, Lusvardi L et al. **A Study of  $\text{Cr}_3\text{C}_2$ -Based HVOF- and HVOF-Sprayed Coatings: Microstructure and Carbide Retention.** *Journal of Thermal Spray Technology*. 2017 Aug;26(6):1-18. <https://doi.org/10.1007/s11666-017-0578-x>

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

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

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.** *Tribology International*. 2019;129:257-271. <https://doi.org/10.1016/j.triboint.2018.08.021>

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

Kulig W, Agmon N. **Both zundel and eigen isomers contribute to the IR spectrum of the gas-phase  $\text{H}_9\text{O}_4^+$  cluster.** *Journal of Physical Chemistry Part B*. 2014 Jan 9;118(1):278-286. <https://doi.org/10.1021/jp410446d>

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

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

Ma L, Laasonen K, Akola J. **Catalytic Activity of AuCu Clusters on MgO(100): Effect of Alloy Composition for CO Oxidation.** *Journal of Physical Chemistry C*. 2017 May 25;121(20):10876-10886. <https://doi.org/10.1021/acs.jpcc.6b12054>

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

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

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

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

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

Kiilakoski J, Puranen J, Heinonen E, Koivuluoto H, Vuoristo P. **Characterization of Powder-Precursor HVOF-Sprayed Al<sub>2</sub>O<sub>3</sub>-YSZ/ZrO<sub>2</sub> Coatings**. Journal of Thermal Spray Technology. 2019 Jan;28(1-2):98-107. <https://doi.org/10.1007/s11666-018-0816-x>

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

Lehtonen J, Koivuluoto H, Ge Y, Juselius A, Hannula SP. **Cold gas spraying of a high-entropy CrFeNiMn equiatomic alloy**. Coatings. 2020;10(1). 53. <https://doi.org/10.3390/coatings10010053>

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

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

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

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

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

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

Bhagavatheswaran ES, Parsekar M, Das A, Le HH, Wiessner S, Stöckelhuber KW et al. **Construction of an Interconnected Nanostructured Carbon Black Network: Development of Highly Stretchable and Robust Elastomeric Conductors**. Journal of Physical Chemistry C. 2015 Sep 17;119(37):21723-21731. <https://doi.org/10.1021/acs.jpcc.5b06629>

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

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

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

Hiltunen A, Ruoko T-P, Iivonen T, Lahtonen K, Ali-Löytty H, Sarlin E et al. **Design aspects of all atomic layer deposited TiO<sub>2</sub>-Fe<sub>2</sub>O<sub>3</sub> scaffold-absorber photoanodes for water splitting**. *Sustainable Energy & Fuels*. 2018 Jul 31;2(9):2124-2130. <https://doi.org/10.1039/C8SE00252E>

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

Lehmusto J, Olin M, Viljanen J, Kalliokoski J, Mylläri F, Toivonen J et al. **Detection of gaseous species during KCl-induced high-temperature corrosion by the means of CPFAAS and CI-API-TOF**. *Materials and Corrosion*. 2019 Aug 30. <https://doi.org/10.1002/maco.201910964>

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

Niittymäki M, Lahti K, Suhonen T, Metsäjoki J. **Dielectric Breakdown Strength of Thermally Sprayed Ceramic Coatings: Effects of Different Test Arrangements**. *Journal of Thermal Spray Technology*. 2015;24(3):542-551. <https://doi.org/10.1007/s11666-014-0211-1>

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

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

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

Hakola H, Sariola-Leikas E, Efimov A, Tkachenko NV. **Effect of Hole Transporting Material on Charge Transfer Processes in Zinc Phthalocyanine Sensitized ZnO Nanorods**. *Journal of Physical Chemistry C*. 2016 Apr 21;120(13):7044-7051. <https://doi.org/10.1021/acs.jpcc.6b01583>

Song X, Liu Z, Suhonen T, Varis T, Huang L, Zheng X et al. **Effect of melting state on the thermal shock resistance and thermal conductivity of APS ZrO<sub>2</sub>-7.5wt.% Y<sub>2</sub>O<sub>3</sub> coatings**. *Surface and Coatings Technology*. 2015 May 25;270:132-138. <https://doi.org/10.1016/j.surfcoat.2015.03.011>

Ratia V, Rojacz H, Terva J, Valtonen K, Badisch E, Kuokkala VT. **Effect of Multiple Impacts on the Deformation of Wear-Resistant Steels**. *Tribology Letters*. 2015 Jan 21;57(2). 15. <https://doi.org/10.1007/s11249-014-0460-7>

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

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

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

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

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.** Surface and Coatings Technology. 2015 Sep 15;277:81-90. <https://doi.org/10.1016/j.surfcoat.2015.07.018>

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

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

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

Lepcha A, Maccato C, Mettenböcker A, Andreu T, Mayrhofer L, Walter M et al. **Electrospun Black Titania Nanofibers: Influence of Hydrogen Plasma-Induced Disorder on the Electronic Structure and Photoelectrochemical Performance.** Journal of Physical Chemistry C. 2015 Aug 20;119(33):18835-18842. <https://doi.org/10.1021/acs.jpcc.5b02767>

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

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

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

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

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

Matikainen V, Rubio Peregrina S, Ojala N, Koivuluoto H, Schubert J, Houdková et al. **Erosion wear performance of WC-10Co4Cr and Cr<sub>3</sub>C<sub>2</sub>-25NiCr coatings sprayed with high-velocity thermal spray processes.** Surface and Coatings Technology. 2019 Jul 25;370:196-212. <https://doi.org/10.1016/j.surfcoat.2019.04.067>

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.** Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology. 2018;232(1):3-13. <https://doi.org/10.1177/1350650117739125>

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

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

Tamminen P, Viheriäkoski T, Sydänheimo L, Ukkonen L. **ESD qualification data used as the basis for building electrostatic discharge protected areas.** *Journal of Electrostatics*. 2015 Oct 1;77:174-181. 3024. <https://doi.org/10.1016/j.elstat.2015.08.009>

Kanerva U, Suhonen T, Lagerbom J, Levänen E. **Evaluation of crushing strength of spray-dried MgAl<sub>2</sub>O<sub>4</sub> granule beds.** *Ceramics International*. 2015 Aug 1;41(7):8494-8500. <https://doi.org/10.1016/j.ceramint.2015.03.056>

Varis T, Suhonen T, Laakso J, Jokipii M, Vuoristo P. **Evaluation of Residual Stresses and Their Influence on Cavitation Erosion Resistance of High Kinetic HVOF and HVOF-Sprayed WC-CoCr Coatings.** *Journal of Thermal Spray Technology*. 2020. <https://doi.org/10.1007/s11666-020-01037-2>

Mikkonen R, Mäntysalo M. **Evaluation of screen printed silver trace performance and long-term reliability against environmental stress on a low surface energy substrate.** *Microelectronics Reliability*. 2018 Jul 1;86:54-65. <https://doi.org/10.1016/j.microrel.2018.05.010>

Juoksukangas J, Lehtovaara A, Mäntylä A. **Experimental and numerical investigation of fretting fatigue behavior in bolted joints.** *Tribology International*. 2016 Nov 1;103:440-448. <https://doi.org/10.1016/j.triboint.2016.07.021>

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

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

Khan MN, Zharnikov M. **Fabrication of ssDNA/Oligo(ethylene glycol) monolayers and patterns by exchange reaction promoted by ultraviolet light irradiation.** *Journal of Physical Chemistry C*. 2013 Nov 27;117(47):24883-24893. <https://doi.org/10.1021/jp408819k>

Khan MN, Zharnikov M. **Fabrication of ssDNA/oligo(ethylene glycol) monolayers by promoted exchange reaction with thiol and disulfide substituents.** *Journal of Physical Chemistry C*. 2014 Feb 13;118(6):3093-3101. <https://doi.org/10.1021/jp411353f>

Kulju S, Riegger L, Koltay P, Mattila K, Hyväluoma J. **Fluid flow simulations meet high-speed video: Computer vision comparison of droplet dynamics.** *Journal of Colloid and Interface Science*. 2018 Jul 15;522:48-56. <https://doi.org/10.1016/j.jcis.2018.03.053>

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

Hintikka J, Lehtovaara A, Mäntylä A. **Fretting-induced friction and wear in large flat-on-flat contact with quenched and tempered steel.** *Tribology International*. 2015 Jul 2;92:191-202. <https://doi.org/10.1016/j.triboint.2015.06.008>

Goh J-Q, Akola J, Ferrando R. **Geometric Structure and Chemical Ordering of Large AuCu Clusters: A Computational Study.** *Journal of Physical Chemistry C*. 2017 May 25;121(20):10809-10816. <https://doi.org/10.1021/acs.jpcc.6b11958>

- Holmberg K, Kivikytö-Reponen P, Härkisaari P, Valtonen K, Erdemir A. **Global energy consumption due to friction and wear in the mining industry.** Tribology International. 2017 Nov 1;115:116-139. <https://doi.org/10.1016/j.triboint.2017.05.010>
- Allolio C, Baxova K, Vazdar M, Jungwirth P. **Guanidinium Pairing Facilitates Membrane Translocation.** Journal of Physical Chemistry Part B. 2016 Jan 14;120(1):143-153. <https://doi.org/10.1021/acs.jpcc.5b10404>
- Kotilainen M, Krumpolec R, Franta D, Souček P, Homola T, Cameron DC et al. **Hafnium oxide thin films as a barrier against copper diffusion in solar absorbers.** Solar Energy Materials and Solar Cells. 2017 Jul 1;166:140-146. <https://doi.org/10.1016/j.solmat.2017.02.033>
- Tofanello A, Freitas ALM, Carvalho WM, Salminen T, Niemi T, Souza FL. **Hematite Surface Modification toward Efficient Sunlight-Driven Water Splitting Activity: The Role of Gold Nanoparticle Addition.** Journal of Physical Chemistry C. 2020. <https://doi.org/10.1021/acs.jpcc.9b11966>
- Varis T, Bankiewicz D, Yrjas P, Oksa M, Suhonen T, Tuurna S et al. **High temperature corrosion of thermally sprayed NiCr and FeCr coatings covered with a KCl-K<sub>2</sub>SO<sub>4</sub> salt mixture.** Surface and Coatings Technology. 2015 Mar 15;265:235-243. <https://doi.org/10.1016/j.surfcoat.2014.11.012>
- Kalimeri M, Rahaman O, Melchionna S, Sterpone F. **How conformational flexibility stabilizes the hyperthermophilic elongation factor G-domain.** Journal of Physical Chemistry Part B. 2013 Nov 7;117(44):13775-13785. <https://doi.org/10.1021/jp407078z>
- Passananti M, Zapadinsky E, Zanca T, Kangasluoma J, Myllys N, Rissanen MP et al. **How well can we predict cluster fragmentation inside a mass spectrometer?** Chemical Communications. 2019;55(42):5946-5949. <https://doi.org/10.1039/c9cc02896j>
- Janka L, Norpoth J, Trache R, Thiele S, Berger LM. **HVOF- and HVOF-Sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr Coatings Deposited from Feedstock Powders of Spherical Morphology: Microstructure Formation and High-Stress Abrasive Wear Resistance Up to 800 °C.** Journal of Thermal Spray Technology. 2017;26(7):1720-1731. <https://doi.org/10.1007/s11666-017-0621-y>
- Hladílková J, Fischer HE, Jungwirth P, Mason PE. **Hydration of hydroxyl and amino groups examined by molecular dynamics and neutron scattering.** Journal of Physical Chemistry Part B. 2015 May 28;119(21):6357-6365. <https://doi.org/10.1021/jp510528u>
- Valtonen K, Ratia V, Ramakrishnan KR, Apostol M, Terva J, Kuokkala V-T. **Impact wear and mechanical behavior of steels at subzero temperatures.** Tribology International. 2019;129:476-493. <https://doi.org/10.1016/j.triboint.2018.08.016>
- Vuori L, Ali-Löytty H, Lahtonen K, Hannula M, Lehtonen E, Niu Y et al. **Improved corrosion properties of Hot Dip Galvanized Steel by nanomolecular silane layers as hybrid interface between zinc and top coatings.** Corrosion. 2017;73(2). <https://doi.org/10.5006/2206>
- Poikelispää M, Shakun A, Das A, Vuorinen J. **Improvement of actuation performance of dielectric elastomers by barium titanate and carbon black fillers.** Journal of Applied Polymer Science. 2016 Nov 10;133(42). 44116. <https://doi.org/10.1002/app.44116>
- Janka L, Berger LM, Norpoth J, Trache R, Thiele S, Tomastik C et al. **Improving the high temperature abrasion resistance of thermally sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr coatings by WC addition.** Surface and Coatings Technology. 2018 Mar 15;337:296-305. <https://doi.org/10.1016/j.surfcoat.2018.01.035>
- Polojärvi V, Aho A, Tukiainen A, Raappana M, Aho T, Schramm A et al. **Influence of As/group-III flux ratio on defects formation and photovoltaic performance of GaInNAs solar cells.** Solar Energy Materials and Solar Cells. 2016 May 1;149:213-220. <https://doi.org/10.1016/j.solmat.2016.01.024>

Janka L, Norpoth J, Trache R, Berger LM. **Influence of heat treatment on the abrasive wear resistance of a Cr<sub>3</sub>C<sub>2</sub>NiCr coating deposited by an ethene-fuelled HVOF spray process.** Surface and Coatings Technology. 2016 Apr 15;291:444-451. <https://doi.org/10.1016/j.surfcoat.2016.02.066>

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

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

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

Milanti A, Koivuluoto H, Vuoristo P. **Influence of the Spray Gun Type on Microstructure and Properties of HVOF Sprayed Fe-Based Corrosion Resistant Coatings.** Journal of Thermal Spray Technology. 2015;24(7):1312-1322. <https://doi.org/10.1007/s11666-015-0298-z>

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

Gupta SK, Wu HH, Kwak KJ, Casal P, Nicholson TR, Wen X et al. **Interfacial design and structure of protein/polymer films on oxidized AlGaN surfaces.** Journal of Physics D: Applied Physics. 2011 Jan 26;44(3). 34010. <https://doi.org/10.1088/0022-3727/44/3/034010>

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

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

Khan MN, Zharnikov M. **Irradiation promoted exchange reaction with disulfide substituents.** Journal of Physical Chemistry C. 2013 Jul 18;117(28):14534-14543. <https://doi.org/10.1021/jp4006026>

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

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

Baek J, Umeyama T, Stranius K, Yamada H, Tkachenko NV, Imahori H. **Long-Range Observation of Exciplex Formation and Decay Mediated by One-Dimensional Bridges.** Journal of Physical Chemistry C. 2017 Jun 29;121(25):13952-13961. <https://doi.org/10.1021/acs.jpcc.7b04483>

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

Ghazy A, Safdar M, Lastusaari M, Aho A, Tukiainen A, Savin H et al. **Luminescent (Er,Ho)<sub>2</sub>O<sub>3</sub> thin films by ALD to enhance the performance of silicon solar cells.** Solar Energy Materials and Solar Cells. 2020;219. 110787. <https://doi.org/10.1016/j.solmat.2020.110787>

Rissanen I, Laurson L. **Magnetic non-contact friction from domain wall dynamics actuated by oscillatory mechanical motion.** Journal of Physics D: Applied Physics. 2019 Aug 13;52(44). 445002. <https://doi.org/10.1088/1361-6463/ab351f>

Barberi J, Nommeots-Nomm A, Fiume E, Verné E, Massera J, Baino F. **Mechanical characterization of pore-graded bioactive glass scaffolds produced by robocasting.** Biomedical Glasses. 2019;5(1):140-147. <https://doi.org/10.1515/bglass-2019-0012>

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

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

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

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

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

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

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.** Applied Surface Science. 2017 Jul 15;410:145-153. <https://doi.org/10.1016/j.apsusc.2017.03.070>

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

Palmolahti L, Ali-Löytty H, Khan R, Saari J, Tkachenko NV, Valden M. **Modification of Surface States of Hematite-Based Photoanodes by Submonolayer of TiO<sub>2</sub> for Enhanced Solar Water Splitting.** Journal of Physical Chemistry C. 2020;124(24):13094-13101. <https://doi.org/10.1021/acs.jpcc.0c00798>

Milne D, Wilson JIB, Rantala TT, Lenkkeri J. **Morphological and structural changes in laser CVD of silicon: comparison of theoretical temperature calculations with experimental results.** Applied Surface Science. 1989 Dec 2;43(1-4):81-86. [https://doi.org/10.1016/0169-4332\(89\)90194-3](https://doi.org/10.1016/0169-4332(89)90194-3)

Rasappa S, Schulte L, Borah D, Hulkkonen H, Ndoni S, Salminen T et al. **Morphology evolution of PS-b-PDMS block copolymer and its hierarchical directed self-assembly on block copolymer templates.** Microelectronic Engineering. 2018 May 15;192:1-7. <https://doi.org/10.1016/j.mee.2018.02.002>

Salpavaara T, Hänninen A, Antniemi A, Lekkala J, Kellomäki M. **Non-destructive and wireless monitoring of biodegradable polymers**. *Sensors and Actuators B: Chemical*. 2017;251:1018-1025. <https://doi.org/10.1016/j.snb.2017.05.116>

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

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

Del Cerro PR, Teittinen H, Norrbo I, Lastusaari M, Massera J, Petit L. **Novel borosilicate bioactive scaffolds with persistent luminescence**. *Biomedical Glasses*. 2020;6(1):1-9. <https://doi.org/10.1515/bglass-2020-0001>

Koivuluoto H, Matikainen V, Larjo J, Vuoristo P. **Novel Online Diagnostic Analysis for In-Flight Particle Properties in Cold Spraying**. *Journal of Thermal Spray Technology*. 2018;27(3):423-432. <https://doi.org/10.1007/s11666-018-0685-3>

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

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

Brobbey KJ, Haapanen J, Gunell M, Mäkelä JM, Eerola E, Toivakka M et al. **One-step flame synthesis of silver nanoparticles for roll-to-roll production of antibacterial paper**. *Applied Surface Science*. 2017 Oct 31;420:558-565. <https://doi.org/10.1016/j.apsusc.2017.05.143>

Baratto C, Golovanova V, Faglia G, Hakola H, Niemi T, Tkachenko N et al. **On the alignment of ZnO nanowires by Langmuir – Blodgett technique for sensing application**. *Applied Surface Science*. 2020 Oct 30;528. 146959. <https://doi.org/10.1016/j.apsusc.2020.146959>

Haapanen J, Aromaa M, Teisala H, Juuti P, Tuominen M, Sillanpää M et al. **On the limit of superhydrophobicity: Defining the minimum amount of TiO<sub>2</sub> nanoparticle coating**. *Materials Research Express*. 2019;6(3). 035004. <https://doi.org/10.1088/2053-1591/aaf2ee>

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

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

Lampio K, Karvinen R. **Optimization of convectively cooled heat sinks**. *Microelectronics Reliability*. 2017;79:473-479. <https://doi.org/10.1016/j.microrel.2017.06.011>

Varis T, Suhonen T, Caloni O, Čuban J, Pietola M. **Optimization of HVOF Cr<sub>3</sub>C<sub>2</sub>-NiCr coating for increased fatigue performance**. *Surface and Coatings Technology*. 2016 Nov 15;305:123-131. <https://doi.org/10.1016/j.surfcoat.2016.08.012>

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

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

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

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

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

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

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

Virkki K, Hakola H, Urbani M, Tejerina L, Ince M, Martínez-Díaz MV et al. **Photoinduced Electron Injection from Zinc Phthalocyanines into Zinc Oxide Nanorods: Aggregation Effects.** Journal of Physical Chemistry C. 2017 May 4;121(17):9594-9605. <https://doi.org/10.1021/acs.jpcc.7b01562>

Virkki K, Demir S, Lemmetyinen H, Tkachenko NV. **Photoinduced Electron Transfer in CdSe/ZnS Quantum Dot-Fullerene Hybrids.** Journal of Physical Chemistry C. 2015 Jul 23;119(31):17561-17572. <https://doi.org/10.1021/acs.jpcc.5b04251>

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

Isoaho R, Aho A, Tukiainen A, Aho T, Raappana M, Salminen T et al. **Photovoltaic properties of low-bandgap (0.7–0.9eV) lattice-matched GaInNAsSb solar junctions grown by molecular beam epitaxy on GaAs.** Solar Energy Materials and Solar Cells. 2019 Jun 15;195:198-203. <https://doi.org/10.1016/j.solmat.2019.02.030>

Selvan NT, Eshwaran SB, Das A, Stöckelhuber KW, Wießner S, Pötschke P et al. **Piezoresistive natural rubber-multiwall carbon nanotube nanocomposite for sensor applications.** Sensors and Actuators, A: Physical. 2016 Mar 1;239:102-113. <https://doi.org/10.1016/j.sna.2016.01.004>

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

Borah D, Shaw MT, Rasappa S, Farrell RA, O'Mahony C, Faulkner CM et al. **Plasma etch technologies for the development of ultra-small feature size transistor devices.** Journal of Physics D: Applied Physics. 2011 May 4;44(17). 174012. <https://doi.org/10.1088/0022-3727/44/17/174012>

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

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.** Tribology International. 2019 Nov 5. 106054. <https://doi.org/10.1016/j.triboint.2019.106054>

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

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

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

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

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

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

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

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

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

Myllymäki S, Putaala J, Hannu J, Kunnari E, Mäntysalo M. **RF measurements to pinpoint defects in inkjet-printed, thermally and mechanically stressed coplanar waveguides.** Microelectronics Reliability. 2016 Oct 1;65:142-150. <https://doi.org/10.1016/j.microrel.2016.08.021>

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

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

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

Linjamaa A, Lehtovaara A, Kallio M, Léger A. **Running-in effects on friction of journal bearings under slow sliding speeds.** Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology. 2019. <https://doi.org/10.1177/1350650119864758>

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

Goh J-Q, Malola S, Häkkinen H, Akola J. **Silver sulfide nanoclusters and the superatom model.** Journal of Physical Chemistry C. 2015 Jan 22;119(3):1583-1590. <https://doi.org/10.1021/jp511037x>

Bolelli G, Berger LM, Börner T, Koivuluoto H, Matikainen V, Lusvarghi L et al. **Sliding and abrasive wear behaviour of HVOF- and HVAF-sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr hardmetal coatings.** Wear. 2016 Jul 15;358-359:32-50. <https://doi.org/10.1016/j.wear.2016.03.034>

Matikainen V, Bolelli G, Koivuluoto H, Sassatelli P, Lusvarghi L, Vuoristo P. **Sliding wear behaviour of HVOF and HVAF sprayed Cr<sub>3</sub>C<sub>2</sub>-based coatings.** Wear. 2017;388-389:57-71. <https://doi.org/10.1016/j.wear.2017.04.001>

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

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

Hintikka J, Mäntylä A, Vaara J, Frondelius T, Lehtovaara A. **Stable and unstable friction in fretting contacts.** Tribology International. 2019 Mar 1;131:73-82. <https://doi.org/10.1016/j.triboint.2018.10.014>

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

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

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

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

Tuominen M, Teisala H, Haapanen J, Mäkelä JM, Honkanen M, Vippola M et al. **Superamphiphobic overhang structured coating on a biobased material.** Applied Surface Science. 2016 Dec 15;389:135-143. <https://doi.org/10.1016/j.apsusc.2016.05.095>

Goh JQ, Akola J. **Superatom Model for Ag-S Nanocluster with Delocalized Electrons.** Journal of Physical Chemistry C. 2015 Sep 10;119(36):21165-21172. <https://doi.org/10.1021/acs.jpcc.5b05824>

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

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

Ferraris S, Nommeots-Nomm A, Spriano S, Vernè E, Massera J. **Surface reactivity and silanization ability of borosilicate and Mg-Sr-based bioactive glasses.** Applied Surface Science. 2019 May 1;475:43-55. <https://doi.org/10.1016/j.apsusc.2018.12.218>

Koskela JE, Vapaavuori J, Hautala J, Priimagi A, Faul CFJ, Kaivola M et al. **Surface-relief gratings and stable birefringence inscribed using light of broad spectral range in supramolecular polymer-bisazobenzene complexes.** Journal of Physical Chemistry C. 2012 Jan 26;116(3):2363-2370. <https://doi.org/10.1021/jp210706n>

Sutka A, Timusk M, Joost U, Ignatans R, Maiorov M. **Switchable light reflectance in dilute magneto-optical colloids based on nickel ferrite nanowires.** e-Journal of Surface Science and Nanotechnology. 2018 May 2;16:119-121. <https://doi.org/10.1380/ejsnt.2018.119>

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

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

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

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

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

Kaunisto K, Kotilainen M, Karhu M, Lagerbom J, Vuorinen T, Honkanen M et al. **The effect of carbon and nickel additions on the precursor synthesis of Cr<sub>3</sub>C<sub>2</sub>-Ni nanopowder.** Ceramics International. 2018 Jun 1;44(8):9338-9346. <https://doi.org/10.1016/j.ceramint.2018.02.146>

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

Sarlin E, Honkanen M, Lindgren M, Laihonon P, Juutilainen M, Vippola M et al. **The effect of substrate pre-treatment on durability of rubber-stainless steel adhesion.** Surfaces and Interfaces. 2020 Dec 1;21. 100646. <https://doi.org/10.1016/j.surfin.2020.100646>

Goyos-Ball L, Prado C, Díaz R, Fernández E, Ismailov A, Kumpulainen T et al. **The effects of laser patterning 10CeTZP-Al<sub>2</sub>O<sub>3</sub> nanocomposite disc surfaces: Osseous differentiation and cellular arrangement in vitro.** Ceramics International. 2018 Jun;44(8):9472-9478. <https://doi.org/10.1016/j.ceramint.2018.02.164>

Nurmi V, Hintikka J, Juoksukangas J, Honkanen M, Vippola M, Lehtovaara A et al. **The formation and characterization of fretting-induced degradation layers using quenched and tempered steel.** Tribology International. 2019 Mar 1;131:258-267. <https://doi.org/10.1016/j.triboint.2018.09.012>

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

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

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

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

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

Hintikka J, Lehtovaara A, Mäntylä A. **Third Particle Ejection Effects on Wear with Quenched and Tempered Steel Fretting Contact.** *TRIBOLOGY TRANSACTIONS.* 2017;60(1):70-78. <https://doi.org/10.1080/10402004.2016.1146813>

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

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

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

Hongisto M, Veber A, Boetti NG, Danto S, Jubera V, Petit L. **Transparent Yb<sup>3+</sup> doped phosphate glass-ceramics.** *Ceramics International.* 2020 Jan 1. <https://doi.org/10.1016/j.ceramint.2020.01.121>

Huttunen-Saarivirta E, Kilpi L, Pasanen AT, Salminen T, Ronkainen H. **Tribocorrosion behaviour of tin bronze CuSn12 under a sliding motion in NaCl containing environment: Contact to inert vs. reactive counterbody.** *Tribology International.* 2020 Nov 1;151. 106389. <https://doi.org/10.1016/j.triboint.2020.106389>

Mäntyranta A, Heino V, Isotahdon E, Salminen T, Huttunen-Saarivirta E. **Tribocorrosion behaviour of two low-alloy steel grades in simulated waste solution.** *Tribology International.* 2019 Oct 1;138:250-262. <https://doi.org/10.1016/j.triboint.2019.05.032>

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

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

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

Khvorost TA, Beliaev LY, Potalueva E, Laptenkova AV, Selyutin AA, Bogachev NA et al. **Ultrafast Photochemistry of the  $[\text{Cr}(\text{NCS})_6]^{3-}$  Complex in Dimethyl Sulfoxide and Dimethylformamide upon Excitation into Ligand-Field Electronic State.** Journal of Physical Chemistry B. 2020;124(18):3724-3733. <https://doi.org/10.1021/acs.jpcc.0c00088>

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

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

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

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

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

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

Kiilakoski J, Eronen V, Vuoristo P. **Wear Properties of Thermally Sprayed Tungsten-Carbide Coatings in Paper Machine Environments.** Tribologia - Finnish Journal of Tribology. 2015 Sep 21;33(2):29.

Heydari G, Sedighi Moghaddam M, Tuominen M, Fielden M, Haapanen J, Mäkelä JM et al. **Wetting hysteresis induced by temperature changes: Supercooled water on hydrophobic surfaces.** Journal of Colloid and Interface Science. 2016 Apr 15;468:21-33. <https://doi.org/10.1016/j.jcis.2016.01.040>

Matikainen V, Koivuluoto H, Milanti A, Vuoristo P. **Advanced coatings by novel high-kinetic thermal spray processes.** Matera. 2015 Feb 9;73(1):46-50.

Kiilakoski J, Lukac F, Koivuluoto H, Vuoristo P. **Cavitation wear characteristics of Al<sub>2</sub>O<sub>3</sub>-ZrO<sub>2</sub>-ceramic coatings deposited by APS and HVOF -processes.** In International Thermal Spray Conference ITSC 2017, Conference Proceedings: June 7-9, 2017, Düsseldorf, Germany.. Vol. 336. Düsseldorf: DVS Media GmbH. 2017. p. 928-933. (DVS-Berichte / DVS - Deutscher Verband für Schweißen und Verwandte Verfahren e.V.).

Kiilakoski J, Lutoschkin A, Plachetta M, Apostol M, Koivuluoto H, Killinger A et al. **Fracture Characteristics of High-Velocity Suspension Flame-Sprayed Aluminum Oxide Coatings.** In International Thermal Spray Conference & Exposition, ITSC 2016. DVS Media GmbH. 2016. p. 466-471

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

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

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

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

Vuoristo P, Varis T, Meschini D, Bolelli G, Lusvarghi L. **Corrosion properties of thermally sprayed bond coatings under plasma sprayed chromia coating in sulfuric acid solutions**. In Azarmi F, Lau Y, Veilleux J, Widener C, Toma F, Koivuluoto H, Balani K, Li H, Shinoda K, editors, International Thermal Spray Conference and Exposition, ITSC 2019: New Waves of Thermal Spray Technology for Sustainable Growth. ASM International. 2019. p. 923-930. (Proceedings of the International Thermal Spray Conference).

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

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

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

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

Saarinen JJ, Valtakari D, Bollström R, Stepien M, Haapanen J, Mäkelä JM et al. **Roll-to-roll application of photocatalytic TiO<sub>2</sub> nanoparticles for printed functionality**. In Advanced Manufacturing, Electronics and Microsystems: TechConnect Briefs 2016. Vol. 4. TechConnect. 2016. p. 47-50

Saari J, Ali-Löyty H, Valden M. **Role of Oxide Defects in ALD grown TiO<sub>2</sub> Coatings on Performance as Photoanode Protection Layer**. 2018. Paper presented at Optics & Photonics Days 2018, Jyväskylä, Finland.

Hannula MK, Lahtonen KT, Isotalo TJ, Saari JS, Valden MO. **Thermal Modification of ALD Grown Titanium Oxide Ultra Thin Film for Photoanode Applications**. 2016. Paper presented at Symposium on Future Prospects for Photonics, Tampere, Finland.

Saari J. **Atomikerroskasvatusmenetelmällä kasvatetun titaanidioksidikalvon ominaisuudet valosähkökemiallisessa veden hajottamisessa**. 2017. 74 p.

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

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

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

Oksa M, Tuurna S, Varis T. **Increased lifetime for biomass and waste to energy power plant boilers with HVOF coatings: High temperature corrosion testing under chlorine-containing molten salt.** Journal of Thermal Spray Technology. 2013 Jun;22(5):783-796. <https://doi.org/10.1007/s11666-013-9928-5>

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