

- Pitkänen H, Alatalo M, Puisto A, Ropo M, Kokko K, Vitos L. 2013. Ab initio study of the surface properties of austenitic stainless steel alloys. *Surface Science*. 609:190-194. <https://doi.org/10.1016/j.susc.2012.12.007>
- Sarjas H, Surzhenkov A, Juhani K, Antonov M, Adoberg E, Kulu P, Viljus M, Traksmäa R, Matikainen V, Vuoristo P. 2017. Abrasive-Erosive Wear of Thermally Sprayed Coatings from Experimental and Commercial Cr<sub>3</sub>C<sub>2</sub>-Based Powders. *Journal of Thermal Spray Technology*. 26(8):2020–2029. <https://doi.org/10.1007/s11666-017-0638-2>
- Melcr J, Martinez-Seara H, Nencini R, Kolafa J, Jungwirth P, Ollila OHS. 2018. Accurate Binding of Sodium and Calcium to a POPC Bilayer by Effective Inclusion of Electronic Polarization. *Journal of Physical Chemistry B*. 122(16):4546-4557. <https://doi.org/10.1021/acs.jpcc.7b12510>
- Mason PE, Wernersson E, Jungwirth P. 2012. Accurate description of aqueous carbonate ions: An effective polarization model verified by neutron scattering. *Journal of Physical Chemistry Part B*. 116(28):8145-8153. <https://doi.org/10.1021/jp3008267>
- Kohagen M, Mason PE, Jungwirth P. 2014. Accurate description of calcium solvation in concentrated aqueous solutions. *Journal of Physical Chemistry Part B*. 118(28):7902-7909. <https://doi.org/10.1021/jp5005693>
- Juoksukangas J, Lehtovaara A, Mäntylä A. 2016. A comparison of relative displacement fields between numerical predictions and experimental results in fretting contact. *Proceedings of the institution of Mechanical Engineers Part J: Journal of Engineering Tribology*. 230(10):1273-1287. <https://doi.org/10.1177/1350650116633573>
- Mylläri V, Ruoko T-P, Syrjälä S. 2015. A comparison of rheology and FTIR in the study of polypropylene and polystyrene photodegradation. *Journal of Applied Polymer Science*. 132(28). <https://doi.org/10.1002/app.42246>
- Jarnstrom L, Johansson K, Kuusipalo J, Jonsson L. 2016. Active packaging by paper coating. In 14th TAPPI Advanced Coating Symposium 2016. TAPPI Press. pp. 88-92.
- Stepien M, Saarinen JJ, Teisala H, Tuominen M, Aromaa M, Kuusipalo J, Mäkelä J, Toivakka M. 2010. Adjustable wetting properties of paperboard by liquid flame spray process. In 11th Advanced Coating Fundamentals Symposium Proceedings: The Latest Advances in Coating Research and Development. pp. 80-88.
- Matikainen V, Koivuluoto H, Milanti A, Vuoristo P. 2015. Advanced coatings by novel high-kinetic thermal spray processes. *Materia*. 73(1):46-50.
- Rantala TT, Rosén A, Hellsing B. 1986. A Finite Cluster Approach to the Electron-Hole Pair Damping of the Adsorbate Vibration: CO Adsorbed on Cu(100). *Studies in Surface Science and Catalysis*. 26(C):173-181. [https://doi.org/10.1016/S0167-2991\(09\)61238-6](https://doi.org/10.1016/S0167-2991(09)61238-6)
- Ali-Löyty H, Louie MW, Singh MR, Li L, Sanchez Casalongue HG, Ogasawara H, Crumlin EJ, Liu Z, Bell AT, Nilsson A, Friebel D. 2016. Ambient-Pressure XPS Study of a Ni-Fe Electrocatalyst for the Oxygen Evolution Reaction. *Journal of Physical Chemistry C*. 120(4):2247-2253. <https://doi.org/10.1021/acs.jpcc.5b10931>
- Vazdar M, Jungwirth P, Mason PE. 2013. Aqueous guanidinium-carbonate interactions by molecular dynamics and neutron scattering: Relevance to ion-protein interactions. *Journal of Physical Chemistry Part B*. 117(6):1844-1848. <https://doi.org/10.1021/jp310719g>
- Yury K, Filippov M, Makarov A, Malygina I, Soboleva N, Fantozzi D, Andrea M, Koivuluoto H, Vuoristo P. 2018. Arc-sprayed Fe-based coatings from coredwires for wear and corrosion protection in power engineering. *Coatings*. 8(2). <https://doi.org/10.3390/coatings8020071>
- Heiskanen JP, Manninen VM, Pankov D, Omar WAE, Kastinen T, Hukka TI, Lemmetyinen HJ, Hormi OEO. 2015. Aryl end-capped quaterthiophenes applied as anode interfacial layers in inverted organic solar cells. *Thin Solid Films*. 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, Levänen E, Heydari G. 2020. Assessment of pitting corrosion in bare and passivated (wet  $\text{scCO}_2$ -induced patination and chemical passivation) hot-dip galvanized steel samples with SVET, FTIR, and SEM (EDS). *Materials and Corrosion*. <https://doi.org/10.1002/maco.202011653>

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

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

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

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

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

Huttunen-Saarivirta E, Isotahdon E, Metsäjoki J, Salminen T, Ronkainen H, Carpén L. 2019. Behaviour of leaded tin bronze in simulated seawater in the absence and presence of tribological contact with alumina counterbody: Corrosion, wear and tribocorrosion. *Tribology International*. 129:257-271. <https://doi.org/10.1016/j.triboint.2018.08.021>

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

Kulig W, Agmon N. 2014. 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*. 118(1):278-286. <https://doi.org/10.1021/jp410446d>

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

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

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

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

Kiilakoski J, Lukac F, Koivuluoto H, Vuoristo P. 2017. Cavitation wear characteristics of  $\text{Al}_2\text{O}_3$ - $\text{ZrO}_2$ -ceramic coatings deposited by APS and HVOF -processes. In International Thermal Spray Conference ITSC 2017, Conference Proceedings: June 7-9, 2017, Düsseldorf, Germany.. Düsseldorf: DVS Media GmbH. pp. 928-933. (DVS-Berichte / DVS - Deutscher Verband für Schweißen und Verwandte Verfahren e.V.).

- Haiko O, Kaikkonen P, Somani M, Valtonen K, Kömi J. 2020. Characteristics of carbide-free medium-carbon bainitic steels in high-stress abrasive wear conditions. *Wear*. 456-457. <https://doi.org/10.1016/j.wear.2020.203386>
- Harra J, Tuominen M, Juuti P, Rissler J, Koivuluoto H, Haapanen J, Niemelä-Anttonen H, Stenroos C, Teisala H, Lahti J, Kuusipalo J, Vuoristo P, Mäkelä JM. 2018. Characteristics of nFOG, an aerosol-based wet thin film coating technique. *Journal of Coatings Technology Research*. 15(3):623-632. <https://doi.org/10.1007/s11998-017-0022-7>
- Juoksukangas J, Nurmi V, Hintikka J, Vippola M, Lehtovaara A, Mäntylä A, Vaara J, Frondelius T. 2019. Characterization of cracks formed in large flat-on-flat fretting contact. *International Journal of Fatigue*. 124:361-370. <https://doi.org/10.1016/j.ijfatigue.2019.03.004>
- Kiilakoski J, Lindroos M, Apostol M, Koivuluoto H, Kuokkala V-T, Vuoristo P. 2016. Characterization of High-Velocity Single Particle Impacts on Plasma-Sprayed Ceramic Coatings. *Journal of Thermal Spray Technology*. 25:1127-1137. <https://doi.org/10.1007/s11666-016-0428-2>
- Kiilakoski J, Lindroos M, Matikainen V, Apostol N, Koivuluoto H, Vuoristo P. 2015. Characterization Of High-Velocity Single Particle Impacts On Thermally Sprayed Ceramic Coatings. In *International Thermal Spray Conference & Exposition 2015*.
- Kiilakoski J, Puranen J, Heinonen E, Koivuluoto H, Vuoristo P. 2019. Characterization of Powder-Precursor HVOF-Sprayed  $\text{Al}_2\text{O}_3$ -YSZ/ $\text{ZrO}_2$  Coatings. *Journal of Thermal Spray Technology*. 28(1-2):98-107. <https://doi.org/10.1007/s11666-018-0816-x>
- Kiilakoski J, Langlade C, Koivuluoto H, Vuoristo P. 2019. Characterizing the micro-impact fatigue behavior of APS and HVOF-sprayed ceramic coatings. *Surface and Coatings Technology*. 371:245-254. <https://doi.org/10.1016/j.surfcoat.2018.10.097>
- Rubio Hernandez R. 2009. CLC a Colored Liquid Crystal: Prototype Description and Design Opportunities. In *Proceedings of the 11th International Conference: Glass Performance Days*.
- Lehtonen J, Koivuluoto H, Ge Y, Juselius A, Hannula SP. 2020. Cold gas spraying of a high-entropy CrFeNiMn equiatomic alloy. *Coatings*. 10(1). <https://doi.org/10.3390/coatings10010053>
- Koivuluoto H, Larjo J, Marini D, Pulci G, Marra F. 2020. Cold-Sprayed Al6061 coatings: Online spray monitoring and influence of process parameters on coating properties. *Coatings*. 10(4). <https://doi.org/10.3390/coatings10040348>
- Oksanen V, Valtonen K, Andersson P, Vaajoki A, Laukkanen A, Holmberg K, Kuokkala VT. 2015. Comparison of laboratory rolling-sliding wear tests with in-service wear of nodular cast iron rollers against wire ropes. *Wear*. 340-341:73-81. <https://doi.org/10.1016/j.wear.2015.07.006>
- Valtonen K, Ojala N, Haiko O, Kuokkala V-T. 2019. Comparison of various high-stress wear conditions and wear performance of martensitic steels. *Wear*. 426-427(Part A):3-13. <https://doi.org/10.1016/j.wear.2018.12.006>
- Aho A, Polojärvi V, Korpijärvi VM, Salmi J, Tukiainen A, Laukkanen P, Guina M. 2014. Composition dependent growth dynamics in molecular beam epitaxy of GaInNAs solar cells. *Solar Energy Materials and Solar Cells*. 124:150-158. <https://doi.org/10.1016/j.solmat.2014.01.044>
- Jönkkäri I, Poliakova V, Mylläri V, Anderson R, Andersson M, Vuorinen J. 2020. Compounding and characterization of recycled multilayer plastic films. *Journal of Applied Polymer Science*. <https://doi.org/10.1002/app.49101>
- Rahaman O, Kalimeri M, Katava M, Paciaroni A, Sterpone F. 2017. Configurational Disorder of Water Hydrogen-Bond Network at the Protein Dynamical Transition. *Journal of Physical Chemistry Part B*. 121(28):6792-6798. <https://doi.org/10.1021/acs.jpcc.7b03888>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Milanti A, Matikainen V, Koivuluoto H, Bolelli G, Lusvarghi L, Vuoristo P. 2015. Effect of spraying parameters on the microstructural and corrosion properties of HVOF-sprayed Fe-Cr-Ni-B-C coatings. *Surface and Coatings Technology*. 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, Kömi J. 2019. Effect of tempering on the impact-abrasive and abrasive wear resistance of ultra-high strength steels. *Wear*. 440-441. <https://doi.org/10.1016/j.wear.2019.203098>

Ojala N, Valtonen K, Heino V, Kallio M, Aaltonen J, Siitonen P, Kuokkala VT. 2014. Effects of composition and microstructure on the abrasive wear performance of quenched wear resistant steels. *Wear*. 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. 2018. Efficient photon upconversion at remarkably low annihilator concentrations in a liquid polymer matrix: when less is more. *Chemical Communications*. 54(99):14029-14032. <https://doi.org/10.1039/c8cc07592a>

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

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

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

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

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

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

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

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

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

Sarlin E, Saarimäki M, Sironen R, Lindgren M, Siljander S, Kanerva M, Vuorinen J. 2017. Erosive wear of filled vinylester composites in water and acidic media at elevated temperature. *Wear*. 390-391:84-92. <https://doi.org/10.1016/j.wear.2017.07.011>

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

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

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

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

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

- Juoksukangas J, Lehtovaara A, Mäntylä A. 2016. Experimental and numerical investigation of fretting fatigue behavior in bolted joints. *Tribology International*. 103:440-448. <https://doi.org/10.1016/j.triboint.2016.07.021>
- Eshwaran SB, Basu D, Vaikuntam SR, Kutlu B, Wiessner S, Das A, Naskar K, Heinrich G. 2015. Exploring the role of stearic acid in modified zinc aluminum layered double hydroxides and their acrylonitrile butadiene rubber nanocomposites. *Journal of Applied Polymer Science*. 132(9). <https://doi.org/10.1002/app.41539>
- Song X, Suhonen T, Varis T, Huang L, Zheng X, Zeng Y. 2014. Fabrication and Characterization of Amorphous Alumina-Yttria-Stabilized Zirconia Coatings by Air Plasma Spraying. *Journal of Thermal Spray Technology*. 23(8):1302-1311. <https://doi.org/10.1007/s11666-014-0124-z>
- Khan MN, Zharnikov M. 2013. Fabrication of ssDNA/Oligo(ethylene glycol) monolayers and patterns by exchange reaction promoted by ultraviolet light irradiation. *Journal of Physical Chemistry C*. 117(47):24883-24893. <https://doi.org/10.1021/jp408819k>
- Khan MN, Zharnikov M. 2014. Fabrication of ssDNA/oligo(ethylene glycol) monolayers by promoted exchange reaction with thiol and disulfide substituents. *Journal of Physical Chemistry C*. 118(6):3093-3101. <https://doi.org/10.1021/jp411353f>
- Kulju S, Riegger L, Koltay P, Mattila K, Hyväluoma J. 2018. Fluid flow simulations meet high-speed video: Computer vision comparison of droplet dynamics. *Journal of Colloid and Interface Science*. 522:48-56. <https://doi.org/10.1016/j.jcis.2018.03.053>
- Välimäki H, Verho J, Kreutzer J, Kattiparambil Rajan D, Ryyänen T, Pekkanen-Mattila M, Ahola A, Tappura K, Kallio P, Lekkala J. 2017. Fluorimetric oxygen sensor with an efficient optical read-out for in vitro cell models. *Sensors and Actuators B: Chemical*. 249:738-746. <https://doi.org/10.1016/j.snb.2017.04.182>
- Varis T, Suhonen T, Ghabchi A, Valarezo A, Sampath S, Liu X, Hannula SP. 2014. Formation mechanisms, structure, and properties of HVOF-sprayed WC-CoCr coatings: An approach toward process maps. *Journal of Thermal Spray Technology*. 23(6):1009-1018. <https://doi.org/10.1007/s11666-014-0110-5>
- Kiilakoski J, Lutoschkin A, Plachetta M, Apostol M, Koivuluoto H, Killinger A, Vuoristo P. 2016. Fracture Characteristics of High-Velocity Suspension Flame-Sprayed Aluminum Oxide Coatings. In *International Thermal Spray Conference & Exposition, ITSC 2016*. DVS Media GmbH. pp. 466-471.
- Hintikka J, Lehtovaara A, Mäntylä A. 2015. Fretting-induced friction and wear in large flat-on-flat contact with quenched and tempered steel. *Tribology International*. 92:191-202. <https://doi.org/10.1016/j.triboint.2015.06.008>
- Goh J-Q, Akola J, Ferrando R. 2017. Geometric Structure and Chemical Ordering of Large AuCu Clusters: A Computational Study. *Journal of Physical Chemistry C*. 121(20):10809-10816. <https://doi.org/10.1021/acs.jpcc.6b11958>
- Holmberg K, Kivikytö-Reponen P, Härkisaari P, Valtonen K, Erdemir A. 2017. Global energy consumption due to friction and wear in the mining industry. *Tribology International*. 115:116-139. <https://doi.org/10.1016/j.triboint.2017.05.010>
- Allolio C, Baxova K, Vazdar M, Jungwirth P. 2016. Guanidinium Pairing Facilitates Membrane Translocation. *Journal of Physical Chemistry Part B*. 120(1):143-153. <https://doi.org/10.1021/acs.jpcc.5b10404>
- Kotilainen M, Krumpolec R, Franta D, Souček P, Homola T, Cameron DC, Vuoristo P. 2017. Hafnium oxide thin films as a barrier against copper diffusion in solar absorbers. *Solar Energy Materials and Solar Cells*. 166:140-146. <https://doi.org/10.1016/j.solmat.2017.02.033>
- Tofanello A, Freitas ALM, Carvalho WM, Salminen T, Niemi T, Souza FL. 2020. Hematite Surface Modification toward Efficient Sunlight-Driven Water Splitting Activity: The Role of Gold Nanoparticle Addition. *Journal of Physical Chemistry C*. <https://doi.org/10.1021/acs.jpcc.9b11966>

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

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

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

Janka L, Norpoth J, Trache R, Thiele S, Berger LM. 2017. HVOF- and HVOF-Sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr Coatings Deposited from Feedstock Powders of Spherical Morphology: Microstructure Formation and High-Stress Abrasive Wear Resistance Up to 800 °C. *Journal of Thermal Spray Technology*. 26(7):1720–1731. <https://doi.org/10.1007/s11666-017-0621-y>

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

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

Valtonen K, Ratia V, Ramakrishnan KR, Apostol M, Terva J, Kuokkala V-T. 2019. Impact wear and mechanical behavior of steels at subzero temperatures. *Tribology International*. 129:476-493. <https://doi.org/10.1016/j.triboint.2018.08.016>

Vuori L, Ali-Löytty H, Lahtonen K, Hannula M, Lehtonen E, Niu Y, Valden M. 2017. Improved corrosion properties of Hot Dip Galvanized Steel by nanomolecular silane layers as hybrid interface between zinc and top coatings. *Corrosion*. 73(2). <https://doi.org/10.5006/2206>

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

Poikelispää M, Shakun A, Das A, Vuorinen J. 2016. Improvement of actuation performance of dielectric elastomers by barium titanate and carbon black fillers. *Journal of Applied Polymer Science*. 133(42). <https://doi.org/10.1002/app.44116>

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

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

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

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

- Varis T, Suhonen T, Jokipii M, Vuoristo P. 2020. Influence of powder properties on residual stresses formed in high-pressure liquid fuel HVOF sprayed WC-CoCr coatings. *Surface and Coatings Technology*. 388. <https://doi.org/10.1016/j.surfcoat.2020.125604>
- Kotilainen M, Honkanen M, Mizohata K, Vuoristo P. 2016. Influence of temperature-induced copper diffusion on degradation of selective chromium oxy-nitride solar absorber coatings. *Solar Energy Materials and Solar Cells*. 145:323-332. <https://doi.org/10.1016/j.solmat.2015.10.034>
- Ojha N, Laihininen T, Salminen T, Lastusaari M, Petit L. 2018. Influence of the phosphate glass melt on the corrosion of functional particles occurring during the preparation of glass-ceramics. *Ceramics International*. 44(10):11807-11811. <https://doi.org/10.1016/j.ceramint.2018.03.267>
- Milanti A, Koivuluoto H, Vuoristo P. 2015. Influence of the Spray Gun Type on Microstructure and Properties of HVOF Sprayed Fe-Based Corrosion Resistant Coatings. *Journal of Thermal Spray Technology*. 24(7):1312-1322. <https://doi.org/10.1007/s11666-015-0298-z>
- Santangelo PE, Allesina G, Bolelli G, Lusvardi L, Matikainen V, Vuoristo P. 2017. Infrared Thermography as a Non-destructive Testing Solution for Thermal Spray Metal Coatings. *Journal of Thermal Spray Technology*. 26(8):1982-1993. <https://doi.org/10.1007/s11666-017-0642-6>
- Gupta SK, Wu HH, Kwak KJ, Casal P, Nicholson TR, Wen X, Anisha R, Bhushan B, Berger PR, Lu W, Brillson LJ, Lee SC. 2011. Interfacial design and structure of protein/polymer films on oxidized AlGaN surfaces. *Journal of Physics D: Applied Physics*. 44(3). <https://doi.org/10.1088/0022-3727/44/3/034010>
- Heinonen S, Nikkanen J-P, Huttunen-Saarivirta E, Levänen E. 2017. Investigation of long-term chemical stability of structured ZnO films in aqueous solutions of varying conditions. *Thin Solid Films*. 638:410-419. <https://doi.org/10.1016/j.tsf.2017.07.055>
- Pluhařová E, Jungwirth P, Bradforth SE, Slaviček P. 2011. Ionization of purine tautomers in nucleobases, nucleosides, and nucleotides: From the gas phase to the aqueous environment. *Journal of Physical Chemistry Part B*. 115(5):1294-1305. <https://doi.org/10.1021/jp110388v>
- Khan MN, Zharnikov M. 2013. Irradiation promoted exchange reaction with disulfide substituents. *Journal of Physical Chemistry C*. 117(28):14534-14543. <https://doi.org/10.1021/jp4006026>
- Cappelluti F, Kim D, van Eerden M, Cédola AP, Aho T, Bissels G, Elsehrawy F, Wu J, Liu H, Mulder P, Bauhuis G, Schermer J, Niemi T, Guina M. 2018. Light-trapping enhanced thin-film III-V quantum dot solar cells fabricated by epitaxial lift-off. *Solar Energy Materials and Solar Cells*. 181:83-92. <https://doi.org/10.1016/j.solmat.2017.12.014>
- Oksanen VT, Lehtovaara AJ, Kallio MH. 2017. Load capacity of lubricated bismuth bronze bimetal bearing under elliptical sliding motion. *Wear*. 388-389:72-80. <https://doi.org/10.1016/j.wear.2017.05.001>
- Baek J, Umeyama T, Stranius K, Yamada H, Tkachenko NV, Imahori H. 2017. Long-Range Observation of Exciplex Formation and Decay Mediated by One-Dimensional Bridges. *Journal of Physical Chemistry C*. 121(25):13952-13961. <https://doi.org/10.1021/acs.jpcc.7b04483>
- Donadei V, Koivuluoto H, Sarlin E, Vuoristo P. 2020. Lubricated icephobic coatings prepared by flame spraying with hybrid feedstock injection. *Surface and Coatings Technology*. 403. <https://doi.org/10.1016/j.surfcoat.2020.126396>
- Ghazy A, Safdar M, Lastusaari M, Aho A, Tukiainen A, Savin H, Guina M, Karppinen M. 2020. 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*. 219. <https://doi.org/10.1016/j.solmat.2020.110787>

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

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

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

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

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

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

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

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

Palola S, Sarlin E, Kolahgar Azari S, Koutsos V, Vuorinen J. 2017. Microwave induced hierarchical nanostructures on aramid fibers and their influence on adhesion properties in a rubber matrix. *Applied Surface Science*. 410:145-153. <https://doi.org/10.1016/j.apsusc.2017.03.070>

Karhu M, Lagerbom J, Solismaa S, Honkanen M, Ismailov A, Räisänen ML, Huttunen-Saarivirta E, Levänen E, Kivikytö-Reponen P. 2019. Mining tailings as raw materials for reaction-sintered aluminosilicate ceramics: Effect of mineralogical composition on microstructure and properties. *Ceramics International*. 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. 2020. 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*. 124(24):13094-13101. <https://doi.org/10.1021/acs.jpcc.0c00798>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Orlowski A, Kukkurainen S, Pöyry A, Rissanen S, Vattulainen I, Hytönen VP, Róg T. 2015. PIP2 and Talin Join Forces to Activate Integrin. *Journal of Physical Chemistry Part B*. 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, Bosea M, Gleeson P, Holmes JD, Morris MA. 2011. Plasma etch technologies for the development of ultra-small feature size transistor devices. *Journal of Physics D: Applied Physics*. 44(17). <https://doi.org/10.1088/0022-3727/44/17/174012>

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

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

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

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

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

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

Sassatelli P, Bolelli G, Lassinantti Gualtieri M, Heinonen E, Honkanen M, Lusvarghi L, Manfredini T, Rigon R, Vippola M. 2018. Properties of HVOF-sprayed Stellite-6 coatings. *Surface and Coatings Technology*. 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. 2015. Rapid and sensitive detection of norovirus antibodies in human serum with a bilayer interferometry biosensor. *Sensors and Actuators B: Chemical*. 221:507-514. <https://doi.org/10.1016/j.snb.2015.06.088>

Rasappa S, Schulte L, Borah D, Morris MA, Ndoni S. 2014. Rapid, Brushless Self-assembly of a PS-b-PDMS Block Copolymer for Nanolithography. *Colloids and Interface Science Communications*. 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, Heinrich G. 2016. Reinforced chloroprene rubber by in situ generated silica particles: Evidence of bound rubber on the silica surface. *Journal of Applied Polymer Science*. 133(30). <https://doi.org/10.1002/app.43717>

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

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

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

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

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

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

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

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

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

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

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

Bolelli G, Berger LM, Börner T, Koivuluoto H, Matikainen V, Lusvarghi L, Lyphout C, Markocsan N, Nylén P, Sassatelli P, Trache R, Vuoristo P. 2016. Sliding and abrasive wear behaviour of HVOF- and HVOF-sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr hardmetal coatings. *Wear*. 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. 2017. Sliding wear behaviour of HVOF and HVOF sprayed Cr<sub>3</sub>C<sub>2</sub>-based coatings. *Wear*. 388-389:57-71. <https://doi.org/10.1016/j.wear.2017.04.001>

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

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

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

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

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

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

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

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

- Fatarelle E, Mylläri V, Ruzzante M, Pogni R, Baratto MC, Skrifvars M, Syrjälä S, Järvelä P. 2015. Sulfonated polyetheretherketone/polypropylene polymer blends for the production of photoactive materials. *Journal of Applied Polymer Science*. 132(8). <https://doi.org/10.1002/app.41509>
- Tuominen M, Teisala H, Haapanen J, Mäkelä JM, Honkanen M, Vippola M, Bardage S, Wälinder MEP, Swerin A. 2016. Superamphiphobic overhang structured coating on a biobased material. *Applied Surface Science*. 389:135-143. <https://doi.org/10.1016/j.apsusc.2016.05.095>
- Goh JQ, Akola J. 2015. Superatom Model for Ag-S Nanocluster with Delocalized Electrons. *Journal of Physical Chemistry C*. 119(36):21165-21172. <https://doi.org/10.1021/acs.jpcc.5b05824>
- Saarimaa V, Kaleva A, Nikkanen J-P, Heinonen S, Levänen E, Väisänen P, Markkula A, Juhanoja J. 2017. Supercritical carbon dioxide treatment of hot dip galvanized steel as a surface treatment before coating. *Surface and Coatings Technology*. 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, Persson I, Söderström J, Jungwirth P, Björneholm O. 2014. Surface behavior of hydrated guanidinium and ammonium ions: A comparative study by photoelectron spectroscopy and molecular dynamics. *Journal of Physical Chemistry Part B*. 118(25):7119-7127. <https://doi.org/10.1021/jp500867w>
- Ferraris S, Nommeots-Nomm A, Spriano S, Vernè E, Massera J. 2019. Surface reactivity and silanization ability of borosilicate and Mg-Sr-based bioactive glasses. *Applied Surface Science*. 475:43-55. <https://doi.org/10.1016/j.apsusc.2018.12.218>
- Koskela JE, Vapaavuori J, Hautala J, Priimagi A, Faul CFJ, Kaivola M, Ras RHA. 2012. Surface-relief gratings and stable birefringence inscribed using light of broad spectral range in supramolecular polymer-bisazobenzene complexes. *Journal of Physical Chemistry C*. 116(3):2363-2370. <https://doi.org/10.1021/jp210706n>
- Sutka A, Timusk M, Joost U, Ignatans R, Maiorov M. 2018. Switchable light reflectance in dilute magneto-optical colloids based on nickel ferrite nanowires. *e-Journal of Surface Science and Nanotechnology*. 16:119-121. <https://doi.org/10.1380/ejsnt.2018.119>
- Abou-Chahine F, Fujii D, Imahori H, Nakano H, Tkachenko NV, Matano Y, Lemmetyinen H. 2015. Synthesis and Photophysical Properties of Two Diazaporphyrin-Porphyrin Hetero Dimers in Polar and Nonpolar Solutions. *Journal of Physical Chemistry Part B*. 119(24):7328-7337. <https://doi.org/10.1021/jp510903a>
- Isakov M, Matikainen V, Koivuluoto H, May M. 2017. Systematic analysis of coating-substrate interactions in the presence of flow localization. *Surface and Coatings Technology*. 324:264-280. <https://doi.org/10.1016/j.surfcoat.2017.05.040>
- Banerjee SS, Natarajan TS, Subramani B. E, Wießner S, Janke A, Heinrich G, Das A. 2019. Temperature scanning stress relaxation behavior of water responsive and mechanically adaptive elastomer nanocomposites. *Journal of Applied Polymer Science*. <https://doi.org/10.1002/app.48344>
- Björling M, Miettinen J, Marklund P, Lehtovaara A, Larsson R. 2015. The correlation between gear contact friction and ball on disc friction measurements. *Tribology International*. 83:114-119. <https://doi.org/10.1016/j.triboint.2014.11.007>
- Lindroos M, Apostol M, Heino V, Valtonen K, Laukkanen A, Holmberg K, Kuokkala VT. 2015. The deformation, strain hardening, and wear behavior of chromium-alloyed hadfield steel in abrasive and impact conditions. *Tribology Letters*. 57(3). <https://doi.org/10.1007/s11249-015-0477-6>
- Kaunisto K, Kotilainen M, Karhu M, Lagerbom J, Vuorinen T, Honkanen M, Vippola M, Turunen E. 2018. The effect of carbon and nickel additions on the precursor synthesis of Cr<sub>3</sub>C<sub>2</sub>-Ni nanopowder. *Ceramics International*. 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, Holmberg K, Kuokkala VT. 2015. The effect of impact conditions on the wear and deformation behavior of wear resistant steels. *Wear*. 328-329:197-205. <https://doi.org/10.1016/j.wear.2015.02.032>

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

Goyos-Ball L, Prado C, Díaz R, Fernández E, Ismailov A, Kumpulainen T, Levänen E, Torrecillas R, Fernández A. 2018. The effects of laser patterning 10CeTZP-Al<sub>2</sub>O<sub>3</sub> nanocomposite disc surfaces: Osseous differentiation and cellular arrangement in vitro. *Ceramics International*. 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, Mäntylä A, Vaara J, Frondelius T. 2019. The formation and characterization of fretting-induced degradation layers using quenched and tempered steel. *Tribology International*. 131:258-267. <https://doi.org/10.1016/j.triboint.2018.09.012>

Alekseev A, Ihalainen P, Ivanov A, Domnin I, Klechkovskaya V, Orekhov A, Lemmetyinen H, Vuorimaa-Laukkanen E, Peltonen J, Vyaz'min S. 2016. The red, purple and blue modifications of polymeric unsymmetrical hydroxyalkadiynyl-N-arylcarbamate derivatives in Langmuir-Schaefer films. *Thin Solid Films*. 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, Ferrari C. 2011. Thermal evaporation of Ge on Si for near infrared detectors: Material and device characterization. *Microelectronic Engineering*. 88(4):526-529. <https://doi.org/10.1016/j.mee.2010.09.024>

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

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

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

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

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

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

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

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

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

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

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

Bolelli G, Bursi M, Lusvarghi L, Manfredini T, Matikainen V, Rigon R, Sassatelli P, Vuoristo P. 2018. Tribology of FeVCrC coatings deposited by HVOF and HVOF thermal spray processes. *Wear*. 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, Markocsan N, Matikainen V, Nylén P, Sassatelli P, Trache R, Vuoristo P. 2015. Tribology of HVOF- and HVOF-sprayed WC-10Co4Cr hardmetal coatings: A comparative assessment. *Surface and Coatings Technology*. 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, Martinez-Seara H. 2017. Two cations, two mechanisms: Interactions of sodium and calcium with zwitterionic lipid membranes. *Chemical Communications*. 53(39):5380-5383. <https://doi.org/10.1039/c7cc02208e>

Khvorost TA, Beliaev LY, Potalueva E, Laptchenkova AV, Selyutin AA, Bogachev NA, Skripkin MY, Ryazantsev MN, Tkachenko N, Mereshchenko AS. 2020. Ultrafast Photochemistry of the [Cr(NCS)<sub>6</sub>]<sup>3-</sup> Complex in Dimethyl Sulfoxide and Dimethylformamide upon Excitation into Ligand-Field Electronic State. *Journal of Physical Chemistry B*. 124(18):3724-3733. <https://doi.org/10.1021/acs.jpccb.0c00088>

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

Mäkinen J, Vehanen A, Hautojärvi P, Huomo H, Lahtinen J, Nieminen RM, Valkealahti S. 1986. Vacancy-type defect distributions near argon sputtered Al(100) surface studied by variable-energy positrons and molecular dynamics simulations. *Surface Science*. 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. 2017. Vegetable fillers for electric stimuli responsive elastomers. *Journal of Applied Polymer Science*. 134(28). <https://doi.org/10.1002/app.45081>

Banerjee SS, Hait S, Natarajan TS, Wießner S, Stöckelhuber KW, Jehnichen D, Janke A, Fischer D, Heinrich G, Busfield JJC, Das A. 2019. Water-Responsive and Mechanically Adaptive Natural Rubber Composites by in Situ Modification of Mineral Filler Structures. *Journal of Physical Chemistry B*. 123(24):5168-5175. <https://doi.org/10.1021/acs.jpccb.9b02125>

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

Tkalich D, Li CC, Kane A, Saai A, Tkalich D, Yastrebov VA, Hokka M, Kuokkala V-T, Bengtsson M, From A. 2017. Wear of cemented tungsten carbide percussive drill-bit inserts: Laboratory and field study. *Wear*. 386-387:106-117. <https://doi.org/10.1016/j.wear.2017.05.010>

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

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