

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

Mäkinen, J. ; Vehanen, A. ; Hautojärvi, P. ; Huomo, H. ; Lahtinen, J. ; Nieminen, R. M. ; Valkealahti, S. / **Vacancy-type defect distributions near argon sputtered Al(100) surface studied by variable-energy positrons and molecular dynamics simulations**. In: Surface Science. 1986 ; Vol. 175, No. 2. pp. 385-414.

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

Lagerbom, Juha ; Ritvonen, Tapio ; Suhonen, Tomi ; Varis, Tommi. / **Gas atomized thermal spray powders of various metals and alloys**. Proceedings of the Euro International Powder Metallurgy Congress and Exhibition, Euro PM 2011. Vol. 2 European Powder Metallurgy Association (EPMA), 2011.

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

Roop, Sandip ; Das, Amit ; Heinrich, Gert. / **Preintercalation of an organic accelerator into nanogalleries and preparation of ethylene propylene diene terpolymer rubber-clay nanocomposites**. In: POLYMER JOURNAL. 2011 ; Vol. 43, No. 3. pp. 285-292.

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

Das, Amit ; Wang, De Yi ; Leuteritz, Andreas ; Subramaniam, Kalaivani ; Greenwell, H. Chris ; Wagenknecht, Udo ; Heinrich, Gert. / **Preparation of zinc oxide free, transparent rubber nanocomposites using a layered double hydroxide filler**. In: Journal of Materials Chemistry. 2011 ; Vol. 21, No. 20. pp. 7194-7200.

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

Zorzi, Giovanni Konat ; Párraga, Jenny Evelin ; Seijo, Begoña ; Sánchez, Alejandro. / **Hybrid nanoparticle design based on cationized gelatin and the polyanions dextran sulfate and chondroitin sulfate for ocular gene therapy**. In: MACROMOLECULAR BIOSCIENCE. 2011 ; Vol. 11, No. 7. pp. 905-913.

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

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

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

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

Vapaavuori, Jaana ; Valtavirta, Ville ; Alasaarela, Tapani ; Mamiya, Jun Ichi ; Priimagi, Arri ; Shishido, Atsushi ; Kaivola, Matti. / **Efficient surface structuring and photoalignment of supramolecular polymer-azobenzene complexes through rational chromophore design**. In: Journal of Materials Chemistry. 2011 ; Vol. 21, No. 39. pp. 15437-15441.

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

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

Priimagi, Arri ; Shimamura, Aki ; Kondo, Mizuho ; Hiraoka, Tomohiro ; Kubo, Shoichi ; Mamiya, Jun Ichi ; Kinoshita, Motoi ; Ikeda, Tomiki ; Shishido, Atsushi. / **Location of the Azobenzene moieties within the cross-linked liquid-crystalline polymers can dictate the direction of photoinduced bending**. In: ACS Macro Letters. 2012 ; Vol. 1, No. 1. pp. 96-99.

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

Massera, Jonathan ; Fagerlund, Susanne ; Hupa, Leena ; Hupa, Mikko. / **Crystallization mechanism of the bioactive glasses, 45S5 and S53P4**. In: JOURNAL OF THE AMERICAN CERAMIC SOCIETY. 2012 ; Vol. 95, No. 2. pp. 607-613.

Das, Amit ; George, Jinu Jacob ; Kutlu, Burak ; Leuteritz, Andreas ; Wang, De Yi ; Rooj, Sandip ; Jurk, René ; Rajeshbabu, Ramanujam ; Stöckelhuber, Klaus Werner ; Galiatsatos, Vassilios ; Heinrich, Gert. / **A novel thermotropic elastomer based on highly-filled LDH-SSB composites**. In: Macromolecular Rapid Communications. 2012 ; Vol. 33, No. 4. pp. 337-342.

Rooj, Sandip ; Das, Amit ; Stöckelhuber, Klaus Werner ; Reuter, Uta ; Heinrich, Gert. / **Highly exfoliated natural rubber/Clay composites by "propping-open procedure" : The influence of fatty-acid chain length on exfoliation**. In: Macromolecular Materials and Engineering. 2012 ; Vol. 297, No. 4. pp. 369-383.

Subramaniam, Kalaivani ; Das, Amit ; Häußler, Liane ; Harnisch, Christina ; Stöckelhuber, Klaus Werner ; Heinrich, Gert. / **Enhanced thermal stability of polychloroprene rubber composites with ionic liquid modified MWCNTs**. In: Polymer Degradation and Stability. 2012 ; Vol. 97, No. 5. pp. 776-785.

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

Subramaniam, Kalaivani ; Das, Amit ; Heinrich, Gert. / **Highly conducting polychloroprene composites based on multi-walled carbon nanotubes and 1-butyl 3-methyl imidazolium bis(trifluoromethylsulphonyl)imide**. In: KGK: KAUTSCHUK GUMMI KUNSTSTOFFE. 2012 ; Vol. 65, No. 7-8. pp. 44-46.

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

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

Kapgate, Bharat P. ; Das, Chayan ; Das, Amit ; Basu, Debdipta ; Reuter, Uta ; Heinrich, Gert. / **Effect of sol-gel derived in situ silica on the morphology and mechanical behavior of natural rubber and acrylonitrile butadiene rubber blends**. In: JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY. 2012 ; Vol. 63, No. 3. pp. 501-509.

Gao, Wei ; Feng, Yakai ; Lu, Jian ; Khan, Musammir ; Guo, Jintang. / **Biomimetic surface modification of polycarbonateurethane film via phosphorylcholine-graft for resisting platelet adhesion.** In: Macromolecular Research. 2012 ; Vol. 20, No. 10. pp. 1063-1069.

Mahimwalla, Zahid ; Yager, Kevin G. ; Mamiya, Jun Ichi ; Shishido, Atsushi ; Priimagi, Arri ; Barrett, Christopher J. / **Azobenzene photomechanics : Prospects and potential applications.** In: Polymer Bulletin. 2012 ; Vol. 69, No. 8. pp. 967-1006.

Steinhauser, D. ; Subramaniam, K. ; Das, A. ; Heinrich, G. ; Klüppel, M. / **Influence of ionic liquids on the dielectric relaxation behavior of CNT based elastomer nanocomposites.** In: Express Polymer Letters. 2012 ; Vol. 6, No. 11. pp. 927-936.

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

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

Subramaniam, Kalaivani ; Das, Amit ; Stöckelhuber, Klaus Werner ; Heinrich, Gert. / **Elastomer composites based on carbon nanotubes and ionic liquid.** In: Rubber Chemistry and Technology. 2013 ; Vol. 86, No. 3. pp. 367-400.

Debnath, Subhas Ch ; Das, Amit ; Basu, Debdipta ; Heinrich, G. / **Naturally occurring amino acids : A suitable substitute of N-N-di-phenyl guanidine (DPG) in silica tyre formulation?.** In: KGK: KAUTSCHUK GUMMI KUNSTSTOFFE. 2013 ; Vol. 66, No. 1-2. pp. 25-31.

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

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

Pale, Ville ; Nikkonen, Taru ; Vapaavuori, Jaana ; Kostianen, Mauri ; Kavakka, Jari ; Selin, Jorma ; Tittonen, Ilkka ; Helaja, Juho. / **Biomimetic zinc chlorin-poly(4-vinylpyridine) assemblies : Doping level dependent emission-absorption regimes.** In: Journal of Materials Chemistry C. 2013 ; Vol. 1, No. 11. pp. 2166-2173.

Vapaavuori, Jaana ; Mahimwalla, Zahid ; Chromik, Richard R. ; Kaivola, Matti ; Priimagi, Arri ; Barrett, Christopher J. / **Nanoindentation study of light-induced softening of supramolecular and covalently functionalized azo polymers.** In: Journal of Materials Chemistry C. 2013 ; Vol. 1, No. 16. pp. 2806-2810.

Tan, Mingqi ; Feng, Yakai ; Wang, Heyun ; Zhang, Li ; Khan, Musammir ; Guo, Jintang ; Chen, Qingliang ; Liu, Jianshi. / **Immobilized bioactive agents onto polyurethane surface with heparin and phosphorylcholine group.** In: Macromolecular Research. 2013 ; Vol. 21, No. 5. pp. 541-549.

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

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

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

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

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

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

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

Diban, Nazely ; Haimi, Suvi P. ; Bolhuis-Versteeg, Lydia ; Teixeira, Sandra ; Miettinen, Susanna ; Poot, André A. ; Grijpma, Dirk W. ; Stamatialis, Dimitrios. / **Effect of surface morphology of poly( $\mu$ -caprolactone) scaffolds on adipose stem cell adhesion and proliferation.** In: Macromolecular symposia. 2013 ; Vol. 334, No. 1. pp. 126-132.

Gebraad, A. W H ; Miettinen, S. ; Grijpma, D. W. ; Haimi, S. P. / **Human adipose stem cells in chondrogenic differentiation medium without growth factors differentiate towards annulus fibrosus phenotype in vitro.** In: Macromolecular symposia. 2013 ; Vol. 334, No. 1. pp. 49-56.

German, Salvador Jimenez ; Behbahani, Mehdi ; Miettinen, Susanna ; Grijpma, Dirk W. ; Haimi, Suvi P. / **Proliferation and differentiation of adipose stem cells towards smooth muscle cells on poly(trimethylene carbonate) membranes.** In: Macromolecular symposia. 2013 ; Vol. 334, No. 1. pp. 133-142.

Cummins, C. ; Borah, D. ; Rasappa, S. ; Chaudhari, A. ; Ghoshal, T. ; O'Driscoll, B. M D ; Carolan, P. ; Petkov, N. ; Holmes, J. D. ; Morris, M. A. / **Self-assembly of polystyrene-block-poly(4-vinylpyridine) block copolymer on molecularly functionalized silicon substrates : Fabrication of inorganic nanostructured etchmask for lithographic use.** In: Journal of Materials Chemistry C. 2013 ; Vol. 1, No. 47. pp. 7941-7951.

Stepien, Milena ; Chinga-Carrasco, Gary ; Saarinen, Jarkko J. ; Teisala, Hannu ; Tuominen, Mikko ; Haapanen, Janne ; Kuusipalo, Jurkka ; Mäkelä, Jyrki M. ; Toivakka, Martti. / **Abrasion and compression resistance of liquid-flame-spray-deposited functional nanoparticle coatings on paper.** 13th TAPPI Advanced Coating Fundamentals Symposium 2014. TAPPI Press, 2014. pp. 68-82

Le, Hai Hong ; Parsekar, Meenali ; Ilisch, Sybill ; Henning, Sven ; Das, Amit ; Stöckelhuber, Klaus Werner ; Beiner, Mario ; Ho, Chi Anh ; Adhikari, Rameshwar ; Wießner, Sven ; Heinrich, Gert ; Radosch, Hans Joachim. / **Effect of non-rubber components of NR on the carbon nanotube (CNT) localization in SBR/NR blends.** In: Macromolecular Materials and Engineering. 2014 ; Vol. 299, No. 5. pp. 569-582.

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

Mylläri, Ville ; Ruoko, Tero Petri ; Järvelä, Pentti. / **The effects of UV irradiation to polyetheretherketone fibres : Characterization by different techniques.** In: Polymer Degradation and Stability. 2014 ; Vol. 109. pp. 278-284.

Eshwaran, S. B. ; Basu, D. ; Kutlu, B. ; Leuteritz, A. ; Wagenknecht, U. ; Stöckelhuber, K. W. ; Naskar, K. ; Das, A. ; Heinrich, G. / **Stearate Modified Zinc-Aluminum Layered Double Hydroxides and Acrylonitrile Butadiene Rubber Nanocomposites**. In: Polymer-Plastics Technology and Engineering. 2014 ; Vol. 53, No. 1. pp. 65-73.

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

Priimagi, Arri ; Shevchenko, Andriy. / **Azopolymer-based micro- and nanopatterning for photonic applications**. In: Journal of Polymer Science. Part B, Polymer Physics. 2014 ; Vol. 52, No. 3. pp. 163-182.

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

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

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

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

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

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

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

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

Priimagi, Arri ; Barrett, Christopher J. ; Shishido, Atsushi. / **Recent twists in photoactuation and photoalignment control**. In: Journal of Materials Chemistry C. 2014 ; Vol. 2, No. 35. pp. 7155-7162.

Goulet-Hanssens, Alexis ; Corkery, T. Christopher ; Priimagi, Arri ; Barrett, Christopher J. / **Effect of head group size on the photoswitching applications of azobenzene Disperse Red 1 analogues**. In: Journal of Materials Chemistry C. 2014 ; Vol. 2, No. 36. pp. 7505-7512.

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

- Wang, Xin ; Vapaavuori, Jaana ; Zhao, Yue ; Bazuin, C. Geraldine. / **A supramolecular approach to photoresponsive thermo/solvoplastic block copolymer elastomers**. In: *Macromolecules*. 2014 ; Vol. 47, No. 20. pp. 7099-7108.
- Mohanty, Aruna Kumar ; Ghosh, Anindita ; Sawai, Pravin ; Pareek, Kapil ; Banerjee, Susanta ; Das, Amit ; Pötschke, Petra ; Heinrich, Gert ; Voit, Brigitte. / **Electromagnetic interference shielding effectiveness of MWCNT filled poly(ether sulfone) and poly(ether imide) nanocomposites**. In: *Polymer Engineering and Science*. 2014 ; Vol. 54, No. 11. pp. 2560-2570.
- Tawade, Bhausheb V. ; Salunke, Jagadish K. ; Sane, Prakash S. ; Wadgaonkar, Prakash P. / **Processable aromatic polyesters based on bisphenol derived from cashew nut shell liquid : synthesis and characterization**. In: *JOURNAL OF POLYMER RESEARCH*. 2014 ; Vol. 21, No. 12.
- Song, Xuemei ; Suhonen, Tomi ; Varis, Tommi ; Huang, Liping ; Zheng, Xuebin ; Zeng, Yi. / **Fabrication and Characterization of Amorphous Alumina-Yttria-Stabilized Zirconia Coatings by Air Plasma Spraying**. In: *Journal of Thermal Spray Technology*. 2014 ; Vol. 23, No. 8. pp. 1302-1311.
- Basu, Debdipta ; Das, Amit ; Jacobgeorge, Jinu ; Wang, De Yi ; Stöckelhuber, Klauswerner ; Wagenknecht, Udo ; Leuteritz, Andreas ; Kutlu, Burak ; Reuter, Uta ; Heinrich, Gert. / **Unmodified LDH as reinforcing filler for XNBR and the development of flame-retardant elastomer composites**. In: *Rubber Chemistry and Technology*. 2014 ; Vol. 87, No. 4. pp. 606-616.
- Palivec, Vladimír ; Pluharová, Eva ; Unger, Isaak ; Winter, Bernd ; Jungwirth, Pavel. / **DNA lesion can facilitate base ionization : Vertical ionization energies of aqueous 8-oxoguanine and its nucleoside and nucleotide**. In: *Journal of Physical Chemistry Part B*. 2014 ; Vol. 118, No. 48. pp. 13833-13837.
- Stumpel, Jelle E. ; Broer, Dirk J. ; Schenning, Albertus P H J. / **Stimuli-responsive photonic polymer coatings**. In: *Chemical Communications*. 2014 ; Vol. 50, No. 100. pp. 15839-15848.
- Niittymäki, Minna ; Lahti, Kari ; Suhonen, Tomi ; Metsäjoki, Jarkko. / **Dielectric Breakdown Strength of Thermally Sprayed Ceramic Coatings : Effects of Different Test Arrangements**. In: *Journal of Thermal Spray Technology*. 2015 ; Vol. 24, No. 3. pp. 542-551.
- Milanti, A. ; Koivuluoto, H. ; Vuoristo, P. / **Influence of the Spray Gun Type on Microstructure and Properties of HVOF Sprayed Fe-Based Corrosion Resistant Coatings**. In: *Journal of Thermal Spray Technology*. 2015 ; Vol. 24, No. 7. pp. 1312-1322.
- Ojuva, Arto ; Järveläinen, Matti ; Bauer, Marcus ; Keskinen, Lassi ; Valkonen, Masi ; Akhtar, Farid ; Levänen, Erkki ; Bergström, Lennart. / **Mechanical performance and CO<sub>2</sub> uptake of ion-exchanged zeolite A structured by freeze-casting**. In: *Journal of the European Ceramic Society*. 2015 ; Vol. 35, No. 9. pp. 2607-2618.
- Kalimeri, Maria ; Derreumaux, Philippe ; Sterpone, Fabio. / **Are coarse-grained models apt to detect protein thermal stability? the case of OPEP force field**. In: *Journal of Non-Crystalline Solids*. 2015 ; Vol. 407. pp. 494-501.
- Heiskanen, J. P. ; Manninen, V. M. ; Pankov, D. ; Omar, W. A. E. ; Kastinen, T. ; Hukka, T. I. ; Lemmetyinen, H. J. ; Hormi, O. E. O. / **Aryl end-capped quaterthiophenes applied as anode interfacial layers in inverted organic solar cells**. In: *Thin Solid Films*. 2015 ; Vol. 574. pp. 196-206.
- Yi, H. ; Albrecht, M. ; Valkonen, A. ; Rissanen, K. / **Perfluoro-1,1'-biphenyl and perfluoronaphthalene and their derivatives as  $\pi$ -acceptors for anions**. In: *New Journal of Chemistry*. 2015 ; Vol. 39, No. 1. pp. 746-749.
- Saccone, Marco ; Dichiarante, Valentina ; Forni, Alessandra ; Goulet-Hanssens, Alexis ; Cavallo, Gabriella ; Vapaavuori, Jaana ; Terraneo, Giancarlo ; Barrett, Christopher J. ; Resnati, Giuseppe ; Metrangolo, Pierangelo ; Priimägi, Arri. / **Supramolecular hierarchy among halogen and hydrogen bond donors in light-induced surface patterning**. In: *Journal of Materials Chemistry C*. 2015 ; Vol. 3. pp. 759-768.

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

Shin, Jaeoh ; Cherstvy, Andrey G. ; Metzler, Ralf. / **Polymer looping is controlled by macromolecular crowding, spatial confinement, and chain stiffness.** In: ACS Macro Letters. 2015 ; Vol. 4, No. 2. pp. 202-206.

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

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

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

Isotahdon, E. ; Huttunen-Saarivirta, E. ; Heinonen, S. ; Kuokkala, V. T. ; Paju, M. / **Corrosion mechanisms of sintered Nd-Fe-B magnets in the presence of water as vapour, pressurised vapour and liquid.** In: Journal of Alloys and Compounds. 2015 ; Vol. 626. pp. 349-359.

Saarikoski, Eve ; Rissanen, Marja ; Seppälä, Jukka. / **Effect of rheological properties of dissolved cellulose/microfibrillated cellulose blend suspensions on film forming.** In: Carbohydrate Polymers. 2015 ; Vol. 119. pp. 62-70.

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

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

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

Song, Xuemei ; Liu, Ziwei ; Suhonen, Tomi ; Varis, Tommi ; Huang, Liping ; Zheng, Xuebin ; Zeng, Yi. / **Effect of melting state on the thermal shock resistance and thermal conductivity of APS ZrO<sub>2</sub>-7.5wt.% Y<sub>2</sub>O<sub>3</sub> coatings.** In: Surface and Coatings Technology. 2015 ; Vol. 270. pp. 132-138.

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

Manea, Liliana Rozemarie ; Cramariuc, Bogdan ; Popescu, Vasilica ; Cramariuc, Radu ; Sandu, Ion ; Cramariuc, Oana. / **Equipment for obtaining polymeric nanofibres by electrospinning technology : II. The obtaining of polymeric nanofibers.** In: Materiale Plastice. 2015 ; Vol. 52, No. 2. pp. 180-185.

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

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

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

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

Isoniemi, Tommi ; Tuukkanen, Sampo ; Cameron, David C. ; Simonen, Janne ; Toppari, J. Jussi. / **Measuring optical anisotropy in poly(3,4-ethylene dioxythiophene) : poly(styrene sulfonate) films with added graphene**. In: Organic Electronics. 2015 ; Vol. 25. pp. 317-323.

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

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

Kanerva, Ulla ; Suhonen, Tomi ; Lagerbom, Juha ; Levänen, Erkki. / **Evaluation of crushing strength of spray-dried MgAl<sub>2</sub>O<sub>4</sub> granule beds**. In: Ceramics International. 2015 ; Vol. 41, No. 7. pp. 8494-8500.

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

Tukiainen, Antti ; Likonen, Jari ; Toikkanen, Lauri ; Leinonen, Tomi. / **Unintentional boron contamination of MBE-grown GaInP/AlGaInP quantum wells**. In: Journal of Crystal Growth. 2015 ; Vol. 425. pp. 60-63.

Ter Schiphorst, Jeroen ; Coleman, Simon ; Stumpel, Jelle E. ; Ben Azouz, Aymen ; Diamond, Dermot ; Schenning, Albertus P. H. J. / **Molecular Design of Light-Responsive Hydrogels, for in Situ Generation of Fast and Reversible Valves for Microfluidic Applications**. In: Chemistry of Materials. 2015 ; Vol. 27, No. 17. pp. 5925-5931.

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

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

Mylläri, Ville ; Ruoko, Tero-Petri ; Vuorinen, Jyrki ; Lemmetyinen, Helge. / **Characterization of thermally aged polyetheretherketone fibres : Mechanical, thermal, rheological and chemical property changes**. In: Polymer Degradation and Stability. 2015 ; Vol. 120. pp. 419-426.

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



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

Vapaavuori, Jaana ; Grosrenaud, Josué ; Pellerin, Christian ; Bazuin, C. Geraldine. / **In Situ Photocontrol of Block Copolymer Morphology during Dip-Coating of Thin Films.** In: *ACS Macro Letters*. 2015 ; Vol. 4, No. 10. pp. 1158-1162.

Vapaavuori, Jaana ; Heikkinen, Ismo T S ; Dichiarante, Valentina ; Resnati, Giuseppe ; Metrangolo, Pierangelo ; Sabat, Ribal Georges ; Bazuin, C. Geraldine ; Priimägi, Arri ; Pellerin, Christian. / **Photomechanical Energy Transfer to Photopassive Polymers through Hydrogen and Halogen Bonds.** In: *Macromolecules*. 2015 ; Vol. 48, No. 20. pp. 7535-7542.

Le, H. H. ; Parsaker, M. ; Sriharish, M. N. ; Henning, S. ; Menzel, M. ; Wießner, S. ; Das, A. ; Do, Q. K. ; Heinrich, G. ; Radosch, H. J. / **Effect of rubber polarity on selective wetting of carbon nanotubes in ternary blends.** In: *Express Polymer Letters*. 2015 ; Vol. 9, No. 11. pp. 960-971.

Massera, J. ; Gaussiran, M. ; Gluchowski, P. ; Lastusaari, M. ; Hupa, L. ; Petit, L. / **Processing and characterization of phosphate glasses containing  $\text{CaAl}_2\text{O}_4:\text{Eu}^{2+}, \text{Nd}^{3+}$  and  $\text{SrAl}_2\text{O}_4:\text{Eu}^{2+}, \text{Dy}^{3+}$  microparticles.** In: *Journal of the European Ceramic Society*. 2015 ; Vol. 35, No. 14. pp. 3863-3871.

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

Kaksonen, Anna H. ; Särkijärvi, Silja ; Puhakka, Jaakko A. ; Peuraniemi, Esa ; Junnikkala, Saku ; Tuovinen, Olli H. / **Chemical and bacterial leaching of metals from a smelter slag in acid solutions.** In: *Hydrometallurgy*. 2016 ; Vol. 159. pp. 46-53.

Bansod, Naresh D. ; Kapgade, Bharat P. ; Das, Chayan ; Das, Amit ; Basu, Debdipta ; Debnath, Subhas Chandra. / **Compatibilization of natural rubber/nitrile rubber blends by sol-gel nano-silica generated by in situ method.** In: *JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY*. 2016 ; Vol. 80, No. 2. pp. 548-559.

Hupa, Leena ; Fagerlund, Susanne ; Massera, Jonathan ; Björkvik, Leena. / **Dissolution behavior of the bioactive glass S53P4 when sodium is replaced by potassium, and calcium with magnesium or strontium.** In: *Journal of Non-Crystalline Solids*. 2016 ; pp. 41-46.

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

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

Akamatsu, Norihisa ; Aizawa, Miho ; Tatsumi, Ryoichi ; Hisano, Kyohei ; Priimägi, Arri ; Shishido, Atsushi. / **Photoresponsive liquid-crystalline polymer films bilayered with an inverse opal structure.** In: *JOURNAL OF PHOTOPOLYMER SCIENCE AND TECHNOLOGY*. 2016 ; Vol. 29, No. 1. pp. 145-148.

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

Allolio, Christoph ; Baxova, Katarina ; Vazdar, Mario ; Jungwirth, Pavel. / **Guanidinium Pairing Facilitates Membrane Translocation.** In: *Journal of Physical Chemistry Part B*. 2016 ; Vol. 120, No. 1. pp. 143-153.

Salunke, Jagadish K. ; Wong, F. L. ; Feron, Krishna ; Manzhos, Sergei ; Lo, Ming Fai ; Shinde, Durgaprasad ; Patil, Abhijeet ; Lee, C. S. ; Roy, V. A L ; Sonar, Prashant ; Wadgaonkar, Prakash P. / **Phenothiazine and carbazole substituted pyrene based electroluminescent organic semiconductors for OLED devices**. In: Journal of Materials Chemistry C. 2016 ; Vol. 4, No. 5. pp. 1009-1018.

Katava, Marina ; Kalimeri, Maria ; Stirnemann, Guillaume ; Sterpone, Fabio. / **Stability and Function at High Temperature. What Makes a Thermophilic GTPase Different from Its Mesophilic Homologue**. In: Journal of Physical Chemistry Part B. 2016 ; Vol. 120, No. 10. pp. 2721-2730.

Kanerva, Ulla ; Karhu, Marjaana ; Lagerbom, Juha ; Kronlöf, Anna ; Honkanen, Mari ; Turunen, Erja ; Laitinen, Tarja. / **Chemical synthesis of WC-Co from water-soluble precursors : The effect of carbon and cobalt additions to WC synthesis**. In: International Journal of Refractory Metals and Hard Materials. 2016 ; Vol. 56. pp. 69-75.

Ma, Li ; Melander, Marko ; Weckman, Timo ; Lipasti, Saana ; Laasonen, Kari ; Akola, Jaakko. / **DFT simulations and microkinetic modelling of 1-pentyne hydrogenation on Cu<sub>20</sub> model catalysts**. In: Journal of Molecular Graphics and Modelling. 2016 ; Vol. 65. pp. 61-70.

Janka, Leo ; Norpoth, Jonas ; Trache, Richard ; Berger, Lutz Michael. / **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**. In: Surface and Coatings Technology. 2016 ; Vol. 291. pp. 444-451.

Soltani, I. ; Hraiech, S. ; Horchani-Naifer, K. ; Massera, J. ; Petit, L. ; Férid, M. / **Thermal, structural and optical properties of Er<sup>3+</sup> doped phosphate glasses containing silver nanoparticles**. In: Journal of Non-Crystalline Solids. 2016 ; Vol. 438. pp. 67-73.

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 HVOF Thermal Spray Processes**. In: Journal of Thermal Spray Technology. 2016 ; Vol. 25, No. 5. pp. 1040-1055.

Sharma, Ramakant ; Bhalerao, Sagar ; Gupta, Dipti. / **Effect of incorporation of CdS NPs on performance of PTB7 : PCBM organic solar cells**. In: Organic Electronics: physics, materials, applications. 2016 ; Vol. 33. pp. 274-280.

Poutanen, Mikko ; Ikkala, Olli ; Priimägi, Arri. / **Structurally Controlled Dynamics in Azobenzene-Based Supramolecular Self-Assemblies in Solid State**. In: Macromolecules. 2016 ; Vol. 49, No. 11. pp. 4095-4101.

Kiilakoski, Jarkko ; Lindroos, Matti ; Apostol, Marian ; Koivuluoto, Heli ; Kuokkala, Veli-Tapani ; Vuoristo, Petri. / **Characterization of High-Velocity Single Particle Impacts on Plasma-Sprayed Ceramic Coatings**. In: Journal of Thermal Spray Technology. 2016 ; Vol. 25. pp. 1127-1137.

Suihkonen, Reija ; Lindgren, Mari ; Siljander, Sanna ; Sarlin, Essi ; Vuorinen, Jyrki. / **Erosion wear of vinylester matrix composites in aqueous and acidic environments at elevated temperatures**. In: Wear. 2016 ; Vol. 358-359. pp. 7-16.

Bolelli, G. ; Berger, L. M. ; Börner, T. ; Koivuluoto, H. ; Matikainen, V. ; Lusvarghi, L. ; Lyphout, C. ; Markocsan, N. ; Nylén, P. ; Sassatelli, P. ; Trache, R. ; Vuoristo, P. / **Sliding and abrasive wear behaviour of HVOF- and HVOF-sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr hardmetal coatings**. In: Wear. 2016 ; Vol. 358-359. pp. 32-50.

Cui, S. ; Massera, J. ; Lastusaari, M. ; Hupa, L. ; Petit, L. / **Novel oxyfluorophosphate glasses and glass-ceramics**. In: Journal of Non-Crystalline Solids. 2016 ; Vol. 445-446. pp. 40-44.

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

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

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

Lindgren, M. ; Santa-aho, S. ; Vippola, M. / **Barkhausen noise response of three different welded duplex stainless steels.** In: Insight. 2016 ; Vol. 58, No. 9. pp. 480-486.

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

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

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

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

Varis, T. ; Suhonen, T. ; Calonius, O. ; Čuban, J. ; Pietola, M. / **Optimization of HVOF Cr<sub>3</sub>C<sub>2</sub>-NiCr coating for increased fatigue performance.** In: Surface and Coatings Technology. 2016 ; Vol. 305. pp. 123-131.

Sarjas, Heikki ; Surzhenkov, Andrei ; Juhani, Kristijan ; Antonov, Maksim ; Adoberg, Eron ; Kulu, Priit ; Viljus, Mart ; Traksmäa, Rainer ; Matikainen, Ville ; Vuoristo, Petri. / **Abrasive-Erosive Wear of Thermally Sprayed Coatings from Experimental and Commercial Cr<sub>3</sub>C<sub>2</sub>-Based Powders.** In: Journal of Thermal Spray Technology. 2017 ; Vol. 26, No. 8. pp. 2020–2029.

Hyysalo, Anu ; Ristola, Mervi ; Joki, Tiina ; Honkanen, Mari ; Vippola, Minnamari ; Narkilahti, Susanna. / **Aligned Poly(ε-caprolactone) Nanofibers Guide the Orientation and Migration of Human Pluripotent Stem Cell-Derived Neurons, Astrocytes, and Oligodendrocyte Precursor Cells In Vitro.** In: MACROMOLECULAR BIOSCIENCE. 2017 ; Vol. 17, No. 7.

Janka, L. ; Norpoth, J. ; Trache, R. ; Thiele, S. ; Berger, L. M. / **HVOF- and HVAF-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.** In: Journal of Thermal Spray Technology. 2017 ; Vol. 26, No. 7. pp. 1720–1731.

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

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

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.** In: Wear. 2017 ; Vol. 388-389. pp. 57-71.

Morandi, Antonio ; Ainslie, Mark D. ; Grilli, Francesco ; Stenvall, Antti. / **The 5th international workshop on numerical modelling of high temperature superconductors.** In: Superconductor Science and Technology. 2017 ; Vol. 30, No. 8.

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

Isotahdon, Elisa ; Huttunen-Saarivirta, Elina ; Kuokkala, Veli. / **Characterization of the microstructure and corrosion performance of Ce-alloyed Nd-Fe-B magnets.** In: Journal of Alloys and Compounds. 2017 ; Vol. 692. pp. 190-197.

Ruuskanen, J. ; Stenvall, A. ; Lahtinen, V. ; Pardo, E. / **Electromagnetic nonlinearities in a Roebel-cable-based accelerator magnet prototype : Variational approach.** In: Superconductor Science and Technology. 2017 ; Vol. 30, No. 2.

Milani, Roberto ; Houbenov, Nikolay ; Fernandez-Palacio, Francisco ; Cavallo, Gabriella ; Luzio, Alessandro ; Haataja, Johannes ; Giancane, Gabriele ; Saccone, Marco ; Priimägi, Arri ; Metrangolo, Pierangelo ; Ikkala, Olli. / **Hierarchical Self-Assembly of Halogen-Bonded Block Copolymer Complexes into Upright Cylindrical Domains.** In: Chem. 2017 ; Vol. 2, No. 3. pp. 417-426.

Lopez-Iscoa, Pablo ; Petit, Laetitia ; Massera, Jonathan ; Janner, Davide ; Boetti, Nadia G. ; Pugliese, Diego ; Fiorilli, Sonia ; Novara, Chiara ; Giorgis, Fabrizio ; Milanese, Daniel. / **Effect of the addition of Al<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub> and ZnO on the thermal, structural and luminescence properties of Er<sup>3+</sup>-doped phosphate glasses.** In: Journal of Non-Crystalline Solids. 2017 ; Vol. 460. pp. 161-168.

Saccone, Marco ; Siiskonen, Antti ; Fernandez-Palacio, Francisco ; Priimägi, Arri ; Terraneo, Giancarlo ; Resnati, Giuseppe ; Metrangolo, Pierangelo. / **Halogen bonding stabilizes a cis-azobenzene derivative in the solid state : A crystallographic study.** In: ACTA CRYSTALLOGRAPHICA SECTION B : STRUCTURAL SCIENCE, CRYSTAL ENGINEERING AND MATERIALS. 2017 ; Vol. 73, No. 2. pp. 227-233.

Mentink, M. ; Salmi, T. / **Quench absorption coils : A quench protection concept for high-field superconducting accelerator magnets.** In: Superconductor Science and Technology. 2017 ; Vol. 30, No. 6.

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

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

Matikainen, V. ; Bolelli, G. ; Koivuluoto, H. ; Honkanen, M. ; Vippola, M. ; Lusvarghi, L. ; Vuoristo, P. / **A Study of Cr<sub>3</sub>C<sub>2</sub>-Based HVOF- and HVAF-Sprayed Coatings : Microstructure and Carbide Retention.** In: Journal of Thermal Spray Technology. 2017 ; Vol. 26, No. 6. pp. 1-18.

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

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

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

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

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

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

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

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

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

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

Glorieux, Benoit ; Salminen, Turkka ; Massera, Jonathan ; Lastusaari, Mika ; Petit, Laetitia. / **Better understanding of the role of SiO<sub>2</sub>, P<sub>2</sub>O<sub>5</sub> and Al<sub>2</sub>O<sub>3</sub> on the spectroscopic properties of Yb<sup>3+</sup> doped silica sol-gel glasses**. In: Journal of Non-Crystalline Solids. 2018 ; Vol. 482. pp. 46-51.

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

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

Kiilakoski, J. ; Musalek, R. ; Lukac, F. ; Koivuluoto, H. ; Vuoristo, P. / **Evaluating the toughness of APS and HVOF-sprayed Al<sub>2</sub>O<sub>3</sub>-ZrO<sub>2</sub>-coatings by in-situ- and macroscopic bending**. In: Journal of the European Ceramic Society. 2018 ; Vol. 38, No. 4. pp. 1908-1918.

Shakun, Alexandra ; Poikelispää, Minna ; Das, Amit ; Vuorinen, Jyrki. / **Improved electromechanical response in acrylic rubber by different carbon-based fillers**. In: Polymer Engineering and Science. 2018 ; Vol. 58, No. 3. pp. 395-404.

Rajan, Rathish ; Rainosalu, Egidija ; Thomas, Selvin P. ; Ramamoorthy, Sunil Kumar ; Zavašnik, Janez ; Vuorinen, Jyrki ; Skrifvars, Mikael. / **Modification of epoxy resin by silane-coupling agent to improve tensile properties of viscose fabric composites**. In: Polymer Bulletin. 2018 ; Vol. 75, No. 1. pp. 167-195.

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

Saarinen, M. ; Nommeots-Nomm, A. ; Hokka, M. ; Laurila, J. ; Norrbo, I. ; Lastusaari, M. ; Massera, J. ; Petit, L. / **Persistent luminescent particles containing bioactive glasses : Prospect toward tracking in-vivo implant mineralization using biophotonic ceramics**. In: Journal of the European Ceramic Society. 2018 ; Vol. 38, No. 1. pp. 287-295.

Sulonen, Mira L.K. ; Kokko, Marika E. ; Lakaniemi, Aino-Maija ; Puhakka, Jaakko A. / **Simultaneous removal of tetrathionate and copper from simulated acidic mining water in bioelectrochemical and electrochemical systems.** In: Hydrometallurgy. 2018 ; Vol. 176. pp. 129-138.

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

Vapaavuori, Jaana ; Bazuin, C. Geraldine ; Priimagi, Arri. / **Supramolecular design principles for efficient photoresponsive polymer-azobenzene complexes.** In: Journal of Materials Chemistry C. 2018 ; Vol. 6, No. 9. pp. 2168-2188.

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

Saccone, Marco ; Kuntze, Kim ; Ahmed, Zafar ; Siiskonen, Antti ; Giese, Michael ; Priimagi, Arri. / **Ortho-Fluorination of azophenols increases the mesophase stability of photoresponsive hydrogen-bonded liquid crystals.** In: Journal of Materials Chemistry C. 2018 ; Vol. 6, No. 37. pp. 9958-9963.

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

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

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

Hannula, Markku ; Ali-Löyty, Harri ; Lahtonen, Kimmo ; Sarlin, Essi ; Saari, Jesse ; Valden, Mika. / **Improved Stability of Atomic Layer Deposited Amorphous TiO<sub>2</sub> Photoelectrode Coatings by Thermally Induced Oxygen Defects.** In: Chemistry of Materials. 2018 ; Vol. 30, No. 4. pp. 1199-1208.

Bhagavatheswaran, Eshwaran Subramani ; Vaikuntam, Sankar Raman ; Stöckelhuber, Klaus Werner ; Wießner, Sven ; Heinrich, Gert ; Das, Amit. / **High-performance elastomeric strain sensors based on nanostructured carbon fillers for potential tire applications.** In: Materials Today Communications. 2018 ; Vol. 14. pp. 240-248.

Karvinen, Jennika ; Joki, Tiina ; Ylä-Outinen, Laura ; Koivisto, Janne T. ; Narkilahti, Susanna ; Kellomäki, Minna. / **Soft hydrazone crosslinked hyaluronan- and alginate-based hydrogels as 3D supportive matrices for human pluripotent stem cell-derived neuronal cells.** In: Reactive and Functional Polymers. 2018 ; Vol. 124. pp. 29-39.

Janka, Leo ; Berger, Lutz Michael ; Norpoth, Jonas ; Trache, Richard ; Thiele, Sven ; Tomastik, Christian ; Matikainen, Ville ; Vuoristo, Petri. / **Improving the high temperature abrasion resistance of thermally sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr coatings by WC addition.** In: Surface and Coatings Technology. 2018 ; Vol. 337. pp. 296-305.

Poutanen, Mikko ; Ahmed, Zafar ; Rautkari, Lauri ; Ikkala, Olli ; Priimagi, Arri. / **Thermal Isomerization of Hydroxyazobenzenes as a Platform for Vapor Sensing.** In: ACS Macro Letters. 2018 ; Vol. 7, No. 3. pp. 381-386.

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

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

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

Nugteren, J. Van ; Kirby, G. ; Bajas, H. ; Bajko, M. ; Ballarino, A. ; Bottura, L. ; Chiuchiolo, A. ; Contat, P. A. ; Dhallé, M. ; Durante, M. ; Fazilleau, P. ; Fontalva, A. ; Gao, P. ; Goldacker, W. ; Kate, H. Ten ; Kario, A. ; Lahtinen, V. ; Lorin, C. ; Markelov, A. ; Mazet, J. ; Molodyk, A. ; Murtomäki, J. ; Long, N. ; Perez, J. ; Petrone, C. ; Pincot, F. ; Rijk, G. De ; Rossi, L. ; Russenschuck, S. ; Ruuskanen, J. ; Schmitz, K. ; Stenvall, A. ; Usoskin, A. ; Willering, G. ; Yang, Y. / **Powering of an HTS dipole insert-magnet operated standalone in helium gas between 5 and 85 K.** In: Superconductor Science and Technology. 2018 ; Vol. 31, No. 6.

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

Sarcan, F. ; Mutlu, S. ; Cokduygular, E. ; Donmez, O. ; Erol, A. ; Puustinen, J. ; Guina, M. / **A study of electric transport in n- and p-type modulation-doped GaInNAs/GaAs quantum well structures under a high electric field.** In: Semiconductor Science and Technology. 2018 ; Vol. 33, No. 6.

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

Goyos-Ball, Lidia ; Prado, Catuxa ; Díaz, Raquel ; Fernández, Elisa ; Ismailov, Arnold ; Kumpulainen, Tero ; Levänen, Erkki ; Torrecillas, Ramón ; Fernández, Adolfo. / **The effects of laser patterning 10CeTzP-Al<sub>2</sub>O<sub>3</sub> nanocomposite disc surfaces : Osseous differentiation and cellular arrangement in vitro.** In: Ceramics International. 2018 ; Vol. 44, No. 8. pp. 9472-9478.

Kaunisto, Kimmo ; Kotilainen, Minna ; Karhu, Marjaana ; Lagerbom, Juha ; Vuorinen, Tommi ; Honkanen, Mari ; Vippola, Minnamari ; Turunen, Erja. / **The effect of carbon and nickel additions on the precursor synthesis of Cr<sub>3</sub>C<sub>2</sub>-Ni nanopowder .** In: Ceramics International. 2018 ; Vol. 44, No. 8. pp. 9338-9346.

Nommeots-Nomm, A. ; Boetti, N. G. ; Salminen, T. ; Massera, J. ; Hokka, M. ; Petit, L. / **Luminescence of Er<sup>3+</sup> doped oxyfluoride phosphate glasses and glass-ceramics.** In: Journal of Alloys and Compounds. 2018 ; Vol. 751. pp. 224-230.

Prado, G. A. ; Orsi Gordo, V. ; Puustinen, J. ; Hilska, J. ; Alghamdi, H. M. ; Som, G. ; Gunes, M. ; Akyol, M. ; Souto, S. ; Rodrigues, A. D. ; Galeti, H. V.A. ; Henini, M. ; Gobato, Y. Galvão ; Guina, M. / **Exciton localization and structural disorder of GaAs<sub>1-x</sub>Bi<sub>x</sub>/GaAs quantum wells grown by molecular beam epitaxy on (311)B GaAs substrates.** In: Semiconductor Science and Technology. 2018 ; Vol. 33, No. 8.

Cemlyn, Ben ; Adams, Mike ; Harbord, Edmund ; Li, Nianqiang ; Henning, Ian D. ; Oulton, Ruth ; Korpijärvi, Ville Markus ; Guina, Mircea. / **Near-threshold high spin amplification in a 1300 nm GaInNAs spin laser.** In: Semiconductor Science and Technology. 2018 ; Vol. 33, No. 9.

Bomberg, Malin ; Miettinen, Hanna ; Wahlström, Margareta ; Kaartinen, Tommi ; Ahoranta, Sarita ; Lakaniemi, Aino-Maija ; Kinnunen, Päivi. / **Post operation inactivation of acidophilic bioleaching microorganisms using natural chloride-rich mine water.** In: Hydrometallurgy. 2018 ; Vol. 180. pp. 236-245.

Kaksonen, Anna H. ; Boxall, Naomi J. ; Gumulya, Yosephine ; Khaleque, Himel N. ; Morris, Christina ; Bohu, Tsing ; Cheng, Ka Yu ; Usher, Kayley M. ; Lakaniemi, Aino-Maija. / **Recent progress in biohydrometallurgy and microbial characterisation.** In: Hydrometallurgy. 2018 ; Vol. 180. pp. 7-25.

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

Šutka, Andris ; Käämbre, Tanel ; Joost, Urmas ; Kooser, Kuno ; Kook, Mati ; Duarte, Roberto Felix ; Kisand, Vambola ; Maiorov, Mikhael ; Döbelin, Nicola ; Smits, Krisjanis. / **Solvothermal synthesis derived Co-Ga codoped ZnO diluted magnetic degenerated semiconductor nanocrystals**. In: Journal of Alloys and Compounds. 2018 ; Vol. 763. pp. 164-172.

Gunes, M. ; Ukelge, M. O. ; Donmez, O. ; Erol, A. ; Gumus, C. ; Alghamdi, H. ; Galeti, H. V.A. ; Henini, M. ; Schmidbauer, M. ; Hilska, J. ; Puustinen, J. ; Guina, M. / **Optical properties of GaAs<sub>1-x</sub>Bi<sub>x</sub>/GaAs quantum well structures grown by molecular beam epitaxy on (100) and (311)B GaAs substrates**. In: Semiconductor Science and Technology. 2018 ; Vol. 33, No. 12.

Joost, Urmas ; Sutka, Andris ; Oja, Marek ; Smits, Krisjanis ; Doebelin, Nicola ; Loot, Ardi ; Järvekülg, Martin ; Hirsimäki, Mika ; Valden, Mika ; Nommiste, Ergo. / **Reversible photodoping of TiO<sub>2</sub> nanoparticles**. In: Chemistry of Materials. 2018 ; Vol. 30, No. 24. pp. 8968-8974.

Lopez-Iscoa, Pablo ; Ojha, Nirajan ; Pugliese, Diego ; Mishra, Ayush ; Gumenyuk, Regina ; Boetti, Nadia Giovanna ; Janner, Davide ; Troles, Johann ; Bureau, Bruno ; Boussard-Plédel, Catherine ; Massera, Jonathan ; Milanese, Daniel ; Petit, Laetitia. / **Design, processing, and characterization of an optical core-bioactive clad phosphate fiber for biomedical applications**. In: JOURNAL OF THE AMERICAN CERAMIC SOCIETY. 2019.

Mereuta, Alexandru ; Nechay, Kostiantyn ; Caliman, Andrei ; Suruceanu, Grigore ; Rudra, Alok ; Gallo, Pascal ; Guina, Mircea ; Kapon, Eli. / **Flip-chip Wafer-fused OP-VECSELS emitting 3.65 W at the 1.55- $\mu$ m waveband**. In: IEEE Journal of Selected Topics in Quantum Electronics. 2019 ; Vol. 25, No. 6.

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

Shin, Mingue ; Kim, Joonyun ; Jung, Young Kwang ; Ruoko, Tero-Petri ; Priimagi, Arri ; Walsh, Aron ; Shin, Byungha. / **Low-dimensional formamidinium lead perovskite architectures via controllable solvent intercalation**. In: Journal of Materials Chemistry C. 2019 ; Vol. 7, No. 13. pp. 3945-3951.

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

Kiilakoski, Jarkko ; Trache, Richard ; Björklund, Stefan ; Joshi, Shrikant ; Vuoristo, Petri. / **Process Parameter Impact on Suspension-HVOF-Sprayed Cr<sub>2</sub>O<sub>3</sub> Coatings**. In: Journal of Thermal Spray Technology. 2019.

Fliervoet, Lies A.L. ; Lisitsyna, Ekaterina S. ; Durandin, Nikita A. ; Kotsis, Ilias ; Maas-Bakker, Roel F.M. ; Yliperttula, Marjo ; Hennink, Wim E. ; Vuorimaa-Laukkanen, Elina ; Vermonden, Tina. / **Structure and Dynamics of Thermosensitive pDNA Polyplexes Studied by Time-Resolved Fluorescence Spectroscopy**. In: Biomacromolecules. 2019.

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

Kiilakoski, Jarkko ; Puranen, Jouni ; Heinonen, Esa ; Koivuluoto, Heli ; Vuoristo, Petri. / **Characterization of Powder-Precursor HVOF-Sprayed Al<sub>2</sub>O<sub>3</sub>-YSZ/ZrO<sub>2</sub> Coatings**. In: Journal of Thermal Spray Technology. 2019 ; Vol. 28, No. 1-2. pp. 98-107.



Reyes, Guillermo ; Borghei, Maryam ; King, Alistair W. T. ; Lahti, Johanna ; Rojas, Orlando J. / **Solvent Welding and Imprinting Cellulose Nanofiber Films Using Ionic Liquids**. In: Biomacromolecules. 2019 ; Vol. 20, No. 1. pp. 502-514.

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

Puustinen, J. ; Hilska, J. ; Guina, M. / **Analysis of GaAsBi growth regimes in high resolution with respect to As/Ga ratio using stationary MBE growth**. In: Journal of Crystal Growth. 2019 ; Vol. 511. pp. 33-41.

Asikainen, Sanja ; Paakinaho, Kaarlo ; Kyhkynen, Anna Kaisa ; Hannula, Markus ; Malin, Minna ; Ahola, Niina ; Kellomäki, Minna ; Seppälä, Jukka. / **Hydrolysis and drug release from poly(ethylene glycol)-modified lactone polymers with open porosity**. In: European Polymer Journal. 2019 ; Vol. 113. pp. 165-175.

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

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

Hilska, Joonas ; Koivusalo, Eero ; Puustinen, Janne ; Suomalainen, Soile ; Guina, Mircea. / **Epitaxial phases of high Bi content GaSbBi alloys**. In: Journal of Crystal Growth. 2019 ; Vol. 516. pp. 67-71.

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

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

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

Ruuskanen, J. ; Stenvall, A. ; Lahtinen, V. ; Nugteren, J. Van ; Kirby, G. ; Murtomäki, J. / **Modelling thermodynamics in a high erature superconducting dipole magnet : An inverse problem based approach**. In: Superconductor Science and Technology. 2019 ; Vol. 32, No. 9.

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

Szczodra, A. ; Mardoukhi, A. ; Hokka, M. ; Boetti, N. G. ; Petit, L. / **Fluorine losses in Er<sup>3+</sup> oxyfluoride phosphate glasses and glass-ceramics**. In: Journal of Alloys and Compounds. 2019 ; Vol. 797. pp. 797-803.

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

Kanerva, M. ; Puolakka, A. ; Takala, T. M. ; Elert, A. M. ; Mylläri, V. ; Jönkkäri, I. ; Sarlin, E. ; Seitsonen, J. ; Ruokolainen, J. ; Saris, P. ; Vuorinen, J. / **Antibacterial polymer fibres by rosin compounding and melt-spinning**. In: Materials Today Communications. 2019 ; Vol. 20.

Calejo, M. Teresa ; Haapala, Anne ; Skottman, Heli ; Kellomäki, Minna. / **Porous polybutylene succinate films enabling adhesion of human embryonic stem cell-derived retinal pigment epithelial cells (hESC-RPE)**. In: European Polymer Journal. 2019 ; Vol. 118. pp. 78-87.

Dongho-Nguimdo, G. M. ; Igumbor, Emmanuel ; Zambou, Serges ; Joubert, Daniel P. / **First principles prediction of the solar cell efficiency of chalcopyrite materials  $AgMX_2$  (M=In, Al; X=S, Se, Te)**. In: Computational Condensed Matter. 2019 ; Vol. 21.

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

Wani, Owies M. ; Schenning, Albertus P. H. J. ; Priimagi, Arri. / **A bifacial colour-tunable system via combination of a cholesteric liquid crystal network and hydrogel**. In: Journal of Materials Chemistry C. 2020 ; Vol. 8, No. 30. pp. 10191-10196.

Saarimaa, Ville ; Fuertes, Nuria ; Persson, Dan ; Zavalis, Tommy ; Kaleva, Aaretti ; Nikkanen, Juha-Pekka ; Levänen, Erkki ; Heydari, Golrokh. / **Assessment of pitting corrosion in bare and passivated (wet scCO<sub>2</sub>-induced patination and chemical passivation) hot-dip galvanized steel samples with SVET, FTIR, and SEM (EDS)**. In: Materials and Corrosion. 2020.

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

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

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

Poikelispää, Minna ; Honkanen, Mari ; Vippola, Minnamari ; Sarlin, Essi. / **Effect of carbon nanotubes and nanodiamonds on the heat storage ability of natural rubber composites**. In: Journal of Elastomers and Plastics. 2020.

Donmez, O. ; Aydin, M. ; Ardali ; Yildirim, S. ; Tıraş, E. ; Nutku, F. ; Cetinkaya, C. ; okduygular, E. ; Puustinen, J. ; Hilska, J. ; Guina, M. ; Erol, A. / **Electronic transport in n-type modulation-doped AlGaAs/GaAsBi quantum well structures : Influence of Bi and thermal annealing on electron effective mass and electron mobility**. In: Semiconductor Science and Technology. 2020 ; Vol. 35, No. 2.

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

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

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

Haußmann, Lukas ; Neumeier, Steffen ; Kolb, Markus ; Ast, Johannes ; Mohanty, Gaurav ; Michler, Johann ; Göken, Mathias. / **Local Mechanical Properties at the Dendrite Scale of Ni-Based Superalloys Studied by Advanced High Temperature Indentation Creep and Micropillar Compression Tests**. Superalloys 2020: Proceedings of the 14th International Symposium on Superalloys. editor / Sammy Tin ; Mark Hardy ; Justin Clews ; Jonathan Cormier ; Qiang Feng ; John Marcin ; Chris O'Brien ; Akane Suzuki. Springer, 2020. pp. 273-281 (The Minerals, Metals and Materials Series).

Karhu, Marjaana ; Lagerbom, Juha ; Honkanen, Mari ; Huttunen-Saarivirta, Elina ; Kiilakoski, Jarkko ; Vuoristo, Petri ; Solismaa, Soili ; Kivikytö-Reponen, Päivi. / **Mining tailings as a raw material for glass-bonded thermally sprayed ceramic coatings : Microstructure and properties**. In: Journal of the European Ceramic Society. 2020 ; Vol. 40, No. 12. pp. 4111-4121.

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

Poikelispää, Minna ; Ruokangas, Sasu ; Honkanen, Mari ; Vippola, Minnamari ; Sarlin, Essi. / **Phase-change material : Natural rubber composites for heat storage applications**. In: Rubber Chemistry and Technology. 2020 ; Vol. 93, No. 1. pp. 208-221.

Donmez, O. ; Aydin, M. ; Ardali ; Yildirim, S. ; Tiraş, E. ; Erol, A. ; Puustinen, J. ; Hilska, J. ; Guina, M. / **Power loss mechanisms in n-type modulation-doped AlGaAs/GaAsBi quantum well heterostructures**. In: Semiconductor Science and Technology. 2020 ; Vol. 35, No. 9.

Khvorost, Taras A. ; Beliaev, Leonid Yu ; Potalueva, Ekaterina ; Laptenkova, Anastasia V. ; Selyutin, Artem A. ; Bogachev, Nikita A. ; Skripkin, Mikhail Yu ; Ryazantsev, Mikhail N. ; Tkachenko, Nikolai ; Mereshchenko, Andrey S. / **Ultrafast Photochemistry of the  $[\text{Cr}(\text{NCS})_6]^{3-}$  Complex in Dimethyl Sulfoxide and Dimethylformamide upon Excitation into Ligand-Field Electronic State**. In: Journal of Physical Chemistry B. 2020 ; Vol. 124, No. 18. pp. 3724-3733.

Hongisto, M. ; Veber, A. ; Boetti, N. G. ; Danto, S. ; Jubera, V. ; Petit, L. / **Transparent  $\text{Yb}^{3+}$  doped phosphate glass-ceramics**. In: Ceramics International. 2020.

Young, David C. ; Tasior, Mariusz ; Laurent, Adèle D. ; Dobrzycki, Łukasz ; Cyrański, Michał K. ; Tkachenko, Nikolai ; Jacquemin, Denis ; Gryko, Daniel T. / **Photostable orange-red fluorescent unsymmetrical diketopyrrolopyrrole- $\text{BF}_2$  hybrids**. In: Journal of Materials Chemistry C. 2020 ; Vol. 8, No. 23. pp. 7708-7717.

Tainio, J. M. ; Salazar, D. A. Avila ; Nommeots-Nomm, A. ; Roiland, C. ; Bureau, B. ; Neuville, D. R. ; Brauer, D. S. ; Massera, J. / **Structure and in vitro dissolution of Mg and Sr containing borosilicate bioactive glasses for bone tissue engineering**. In: Journal of Non-Crystalline Solids. 2020 ; Vol. 533.

Matikainen, V. ; Koivuluoto, H. ; Vuoristo, P. / **A study of  $\text{Cr}_3\text{C}_2$ -based HVOF- and HVAF-sprayed coatings : Abrasion, dry particle erosion and cavitation erosion resistance**. In: Wear. 2020 ; Vol. 446-447.

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

Arvani, Maedeh ; Keskinen, Jari ; Railanmaa, Anna ; Siljander, Sanna ; Björkqvist, Tomas ; Tuukkanen, Sampo ; Lupo, Donald. / **Additive manufacturing of monolithic supercapacitors with biopolymer separator**. In: Journal of Applied Electrochemistry. 2020 ; Vol. 50, No. 6. pp. 689-697.

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

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

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

Ojha, N. ; Bogdan, M. ; Galatus, R. ; Petit, L. / **Effect of heat-treatment on the upconversion of NaYF<sub>4</sub>:Yb<sup>3+</sup>, Er<sup>3+</sup> nanocrystals containing silver phosphate glass.** In: Journal of Non-Crystalline Solids. 2020 ; Vol. 544.

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

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