

Rantala, T. ; Väyrynen, J. ; Kumpula, R. ; Aksela, S. / **Direct measurement of the kinetic energy shift between the molecular and atomic M4.5N4.5N4.5 Auger spectra of iodine.** In: Chemical Physics Letters. 1979 ; Vol. 66, No. 2. pp. 384-386.

Väyrynen, J. ; Rantala, T. T. ; Minni, E. ; Suoninen, E. / **Anomalous Auger-electron spectra of metallic calcium.** In: Journal of Electron Spectroscopy and Related Phenomena. 1983 ; Vol. 31, No. 3. pp. 293-305.

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: Journal of Electron Spectroscopy and Related Phenomena. 1986 ; Vol. 39, No. C. pp. 173-181.

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.

Rantala, Tapio T. ; Wästberg, Bo ; Rosén, Arne. / **Potential energy curves for diatomic molecules calculated with numerical basis functions.** In: Chemical Physics. 1986 ; Vol. 109, No. 2-3. pp. 261-268.

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

Kellomäki, Aarre ; Kuula-Väisänen, Pirjo ; Nieminen, Pertti. / **Sorption and retention of ethylene glycol monoethyl ether (EGME) on silicas.** In: Journal of Colloid and Interface Science. 1989 ; Vol. 129, No. 2. pp. 373-378.

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

Rantala, Tapio T. ; Jelski, Daniel A. ; George, Thomas F. / **Electronic and structural properties of Si10 cluster.** In: Journal of Cluster Science. 1990 ; Vol. 1, No. 2. pp. 189-200.

Rantala, T. S. ; Lantto, V. ; Rantala, T. T. / **Rate equation simulation of the height of Schottky barriers at the surface of oxidic semiconductors.** In: Sensors and Actuators B: Chemical. 1993 ; Vol. 13, No. 1-3. pp. 234-237.

Valkealahti, S. ; Manninen, M. / **Melting of copper clusters.** In: Computational Materials Science. 1993 ; Vol. 1, No. 2. pp. 123-134.

Rantala, T. S. ; Lantto, V. ; Rantala, T. T. / **A cluster approach for the SnO2 (110) face.** In: Sensors and Actuators B: Chemical. 1994 ; Vol. 19, No. 1-3. pp. 716-719.

Rantala, Tapio T. ; Jelski, Daniel A. ; George, Thomas F. / **Si10 and photoabsorption spectra of mid-sized silicon clusters.** In: Chemical Physics Letters. 1995 ; Vol. 232, No. 3. pp. 215-220.

Franzén, Robert ; Kronberg, Leif. / **Synthesis of chlorinated 5-hydroxy 4-methyl-2(5H)-furanones and mucochloric acid.** In: Tetrahedron Letters. 1995 ; Vol. 36, No. 22. pp. 3905-3908.

Hyvönen, Marja ; Ala-Korpela, Mika ; Vaara, Juha ; Rantala, Tapio T. ; Jokisaari, Jukka. / **Effects of two double bonds on the hydrocarbon interior of a phospholipid bilayer.** In: Chemical Physics Letters. 1995 ; Vol. 246, No. 3. pp. 300-306.

Knasmüller, Siegfried ; Zöhrer, Edith ; Kronberg, Leif ; Kundi, Michael ; Franzen, Robert ; Schulte-Hermann, Rolf. / **Mutational spectra of Salmonella typhimurium revertants induced by chlorohydroxyfuranones, byproducts of chlorine disinfection of drinking water.** In: Chemical Research in Toxicology. 1996 ; Vol. 9, No. 2. pp. 374-381.

Rantala, Tapio T. ; Rantala, Tuomo S. ; Lantto, Vilho ; Vaara, Juha. / **Surface relaxation of the (1010) face of wurtzite CdS**. In: Surface Science. 1996 ; Vol. 352-354. pp. 77-82.

Rytkönen, A. ; Valkealahti, S. ; Manninen, M. / **Melting and evaporation of argon clusters**. In: Journal of Chemical Physics. 1997 ; Vol. 106, No. 5. pp. 1888-1892.

Lepistö, Satu S. ; Rintala, Jukka A. / **Start-up and Operation of Laboratory-Scale Thermophilic Upflow Anaerobic Sludge Blanket Reactors Treating Vegetable Processing Wastewaters**. In: Journal of Chemical Technology and Biotechnology. 1997 ; Vol. 68, No. 3. pp. 331-339.

Hyvönen, Marja ; Ala-Korpela, Mika ; Vaara, Juha ; Rantala, Tapio T. ; Jokisaari, Jukka. / **Inequivalence of single CH<sub>a</sub> and CH<sub>b</sub> methylene bonds in the interior of a diunsaturated lipid bilayer from a molecular dynamics simulation**. In: Chemical Physics Letters. 1997 ; Vol. 268, No. 1-2. pp. 55-60.

Lesot, Philippe ; Merlet, Denis ; Courtieu, Jacques ; Emsley, James W. ; Rantala, Tapio T. ; Jokisaari, Jukka. / **Calculation of the molecular ordering parameters of (±)-3-butyn-2-ol dissolved in an organic solution of poly(γ-benzyl-L-glutamate)**. In: Journal of Physical Chemistry A. 1997 ; Vol. 101, No. 31. pp. 5719-5724.

Franzén, Robert ; Morita, Masatoshi ; Tanabe, Kiyoshi ; Takagi, Hiroo ; Shibata, Yasuyuki. / **Investigation of the adducts formed by reaction of butenedioic acids with adenosine**. In: Chemical Research in Toxicology. 1997 ; Vol. 10, No. 10. pp. 1186-1191.

Rantala, Tuomo ; Lantto, Vilho ; Rantala, Tapio. / **Computational approaches to the chemical sensitivity of semiconducting tin dioxide**. In: Sensors and Actuators B: Chemical. 1998 ; Vol. 47, No. 1-3. pp. 59-64.

Kangas, Heli ; Franzén, Robert ; Tois, Jan ; Taskinen, Jyrki ; Kostiainen, Risto. / **Effect of nitro groups and alkyl chain length on the negative ion tandem mass spectra of alkyl 3-hydroxy-5-(4'-nitrophenoxy) and alkyl 3-hydroxy-5-(2', 4'-dinitrophenoxy) benzoates**. In: Rapid Communications in Mass Spectrometry. 1999 ; Vol. 13, No. 16. pp. 1680-1684.

Rantala, Tapio T. ; Rantala, Tuomo S. ; Lantto, Vilho. / **Surface relaxation of the (110) face of rutile SnO<sub>2</sub>**. In: Surface Science. 1999 ; Vol. 420, No. 1. pp. 103-109.

Kaski, Jaakko ; Lantto, Perttu ; Rantala, Tapio T. ; Schroderus, Jyrki ; Vaara, Juha ; Jokisaari, Jukka. / **Experimental and theoretical study of the spin-spin coupling tensors in methylsilane**. In: Journal of Physical Chemistry A. 1999 ; Vol. 103, No. 48. pp. 9669-9677.

Franzén, R. / **The Suzuki, the Heck, and the Stille reaction - Three versatile methods, for the introduction of new C-C bonds on solid support**. In: Canadian Journal of Chemistry - Revue Canadienne de Chimie. 2000 ; Vol. 78, No. 7. pp. 957-962.

Franzén, Robert G. / **Utilization of Grignard reagents in solid-phase synthesis : A review of the literature**. In: Tetrahedron. 2000 ; Vol. 56, No. 5. pp. 685-691.

Tois, Jan ; Franzén, Robert ; Aitio, Olli ; Huikko, Katri ; Taskinen, Jyrki. / **Preparation of 5-substituted 2-carboxyindoles on solid support**. In: Tetrahedron Letters. 2000 ; Vol. 41, No. 14. pp. 2443-2446.

Franzén, Robert G. / **Recent advances in the preparation of heterocycles on solid support : A review of the literature**. In: Journal of Combinatorial Chemistry. 2000 ; Vol. 2, No. 3. pp. 195-214.

Rantala, Tuomo S. ; Rantala, Tapio T. ; Lantto, Vilho. / **Computational studies for the interpretation of gas response of SnO<sub>2</sub>(110) surface**. In: Sensors and Actuators B: Chemical. 2000 ; Vol. 65, No. 1. pp. 375-378.

Tois, J. ; Franzén, R. ; Aitio, O. ; Laakso, I. ; Huuskonen, J. ; Taskinen, J. / **Solid-phase bromination and Suzuki coupling of 2-carboxyindoles**. In: Combinatorial Chemistry and High Throughput Screening. 2001 ; Vol. 4, No. 6. pp. 521-524.

Tois, Jan ; Franzén, Robert ; Aitio, Olli ; Laakso, Into ; Kylänlahti, Irene. / **Vilsmeier formylation of 2-carboxyindoles and preparation of O-benzylhydroxyureas on solid phase**. In: Journal of Combinatorial Chemistry. 2001 ; Vol. 3, No. 6. pp. 542-545.

Väisänen, Ari ; Suontamo, Reijo ; Rintala, Jukka. / **Control of matrix interferences by the multiple linear regression model in the determination of arsenic, antimony and tin in lead pellets by inductively coupled plasma atomic emission spectrometry**. In: Journal of Analytical Atomic Spectrometry. 2002 ; Vol. 17, No. 3. pp. 274-276.

Väisänen, Ari ; Suontamo, Reijo ; Silvonen, Janne ; Rintala, Jukka. / **Ultrasound-assisted extraction in the determination of arsenic, cadmium, copper, lead, and silver in contaminated soil samples by inductively coupled plasma atomic emission spectrometry**. In: Analytical and Bioanalytical Chemistry. 2002 ; Vol. 373, No. 1-2. pp. 93-97.

Lahtinen, Kimmo ; Kuusipalo, Jurkka. / **Statistical modeling of water vapor transmission rates for extrusion-coated papers**. TAPPI 2008 PLACE Conference: Innovations in Flexible Consumer Packaging. 2008.

Pakarinen, Outi ; Lehtomäki, Annamari ; Rintala, Jukka. / **Batch dark fermentative hydrogen production from grass silage : The effect of inoculum, pH, temperature and VS ratio**. In: International Journal of Hydrogen Energy. 2008 ; Vol. 33, No. 2. pp. 594-601.

Dehmer, Matthias ; Emmert-Streib, Frank. / **The structural information content of chemical networks**. In: Zeitschrift fur Naturforschung Section A: A Journal of Physical Sciences. 2008 ; Vol. 63, No. 3-4. pp. 155-158.

Dehmer, Matthias ; Emmert-Streib, Frank. / **Structural information content of networks : Graph entropy based on local vertex functionals**. In: Computational Biology and Chemistry. 2008 ; Vol. 32, No. 2. pp. 131-138.

Lahti, Johanna ; Tuominen, Mikko ; Penttinen, Tapani ; Räsänen, Jari P. ; Kuusipalo, Jurkka. / **The effects of corona and flame treatment : Part 2. PE-HD and PP coated papers**. TAPPI Press - 12th European PLACE Conference 2009. Vol. 1 2009. pp. 278-314

Dehmer, Matthias ; Varmuza, Kurt ; Borgert, Stephan ; Emmert-Streib, Frank. / **On entropy-based molecular descriptors : Statistical analysis of real and synthetic chemical structures**. In: Journal of Chemical Information and Modeling. 2009 ; Vol. 49, No. 7. pp. 1655-1663.

Dantelle, G. ; Slablab, A. ; Rondin, L. ; Lainé, F. ; Carrel, F. ; Bergonzo, Ph. ; Perruchas, S. ; Gacoin, T. ; Treussart, F. ; Roch, J. F. / **Efficient production of NV colour centres in nanodiamonds using high-energy electron irradiation**. In: Journal of Luminescence. 2010 ; Vol. 130, No. 9. pp. 1655-1658.

Gilardi, G. ; Asquini, R. ; D'Alessandro, A. ; Assanto, G. / **An electro-optically tunable Bragg reflector based on liquid crystals**. In: Molecular Crystals and Liquid Crystals. 2011 ; Vol. 549. pp. 62-68.

Vähä-Nissi, M. ; Hirvikorpi, T. ; Sievänen, J. ; Salo, E. ; Harlin, A. ; Johansson, P. ; Kuusipalo, J. / **Effect of pre-treatments on barrier properties of layers applied by atomic layer deposition onto polymer-coated substrates**. 13th European PLACE Conference 2011. Vol. 1 2011. pp. 447

Giammarco, James M. ; Zdyrko, Bogdan ; Hu, Juejun ; Agarwal, Anu ; Kimerling, Lionel ; Carlie, Nathan ; Petit, Laetitia ; Richardson, Kathleen ; Luzinov, Igor. / **Enrichment polymer layers for detection of volatile vapors by ATR FT-IR**. In: ACS National Meeting Book of Abstracts. 2011.

Petrov, Michal ; Cwiklik, Lukasz ; Jungwirth, Pavel. / **Interactions of molecular ions with model phospholipid membranes**. In: Collection of Czechoslovak Chemical Communications. 2011 ; Vol. 76, No. 6. pp. 695-711.

Teisala, Hannu ; Tuominen, Mikko ; Aromaa, Mikko ; Mäkelä, Jyrki M. ; Stepien, Milena ; Saarinen, Jarkko J. ; Toivakka, Martti ; Kuusipalo, Jurkka. / **Nanoparticle deposition on packaging materials by the liquid flame spray**. 13th European PLACE Conference 2011. Vol. 1 2011.

Dehmer, Matthias ; Emmert-Streib, Frank ; Tsoy, Yury Robertovich ; Varmuza, Kurt. / **Quantifying structural complexity of graphs : Information measures in mathematical chemistry**. Quantum Frontiers of Atoms and Molecules. editor / Mihai V. Putz. Nova Science Publishers, Inc., 2011. pp. 479-497

Ma, Li ; Jackson, Koblar Alan ; Jellinek, Julius. / **Site-specific polarizabilities as predictors of favorable adsorption sites on Nan clusters**. In: Chemical Physics Letters. 2011 ; Vol. 503, No. 1-3. pp. 80-85.

Pluhařová, Eva ; Jungwirth, Pavel ; Bradforth, Stephen E. ; Slavíček, 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.

Manna, Moutusi ; Mukhopadhyay, Chaitali. / **Molecular dynamics simulations of the interactions of kinin peptides with an anionic PPG bilayer**. In: Langmuir. 2011 ; Vol. 27, No. 7. pp. 3713-3722.

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.

Auer, Sanna ; Nirschl, Martin ; Schreiter, Matthias ; Vikholm-Lundin, Inger. / **Detection of DNA hybridisation in a diluted serum matrix by surface plasmon resonance and film bulk acoustic resonators**. In: Analytical and Bioanalytical Chemistry. 2011 ; Vol. 400, No. 5. pp. 1387-1396.

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.

Jagoda-Cwiklik, Barbara ; Cwiklik, Lukasz ; Jungwirth, Pavel. / **Behavior of the eigen form of hydronium at the air/water interface**. In: Journal of Physical Chemistry A. 2011 ; Vol. 115, No. 23. pp. 5881-5886.

Miller, Abigail E. ; Petersen, Poul B. ; Hollars, Christopher W. ; Saykally, Richard J. ; Heyda, Jan ; Jungwirth, Pavel. / **Behavior of  $\beta$ -amyloid 1-16 at the air-water interface at varying pH by nonlinear spectroscopy and molecular dynamics simulations**. In: Journal of Physical Chemistry A. 2011 ; Vol. 115, No. 23. pp. 5873-5880.

Kulig, Waldemar ; Kubisiak, Piotr ; Cwiklik, Lukasz. / **Steric and electronic effects in the host-guest hydrogen bonding in clathrate hydrates**. In: Journal of Physical Chemistry A. 2011 ; Vol. 115, No. 23. pp. 6149-6154.

Liu, Y. ; Minofar, B. ; Desyaterik, Y. ; Dames, E. ; Zhu, Z. ; Cain, J. P. ; Hopkins, R. J. ; Gilles, M. K. ; Wang, H. ; Jungwirth, P. ; Laskin, A. / **Internal structure, hygroscopic and reactive properties of mixed sodium methanesulfonate-sodium chloride particles**. In: Physical Chemistry Chemical Physics. 2011 ; Vol. 13, No. 25. pp. 11846-11857.

Linko, Veikko ; Leppiniemi, Jenni ; Paasonen, Seppo Tapio ; Hytönen, Vesa P. ; Jussi Toppari, J. / **Defined-size DNA triple crossover construct for molecular electronics : Modification, positioning and conductance properties**. In: Nanotechnology. 2011 ; Vol. 22, No. 27.

Heyda, Jan ; Kožíšek, Milan ; Bednářová, 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.

Uusitalo, Mikko A. ; Peltonen, Jaakko ; Ryhänen, Tapani. / **Machine learning : How it can help nanocomputing**. In: Journal of Computational and Theoretical Nanoscience. 2011 ; Vol. 8, No. 8. pp. 1347-1363.

Uhlig, Frank ; Marsalek, Ondrej ; Jungwirth, Pavel. / **From a localized H<sub>3</sub>O radical to a delocalized H<sub>3</sub>O<sup>+</sup>•e<sup>-</sup> solvent-separated pair by sequential hydration**. In: Physical Chemistry Chemical Physics. 2011 ; Vol. 13, No. 31. pp. 14003-14009.

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.

Rooj, Sandip ; Das, Amit ; Heinrich, Gert. / **Tube-like natural halloysite/fluoroelastomer nanocomposites with simultaneous enhanced mechanical, dynamic mechanical and thermal properties**. In: European Polymer Journal. 2011 ; Vol. 47, No. 9. pp. 1746-1755.

Tian, Yuan ; Bova, G. Steven ; Zhang, Hui. / **Quantitative glycoproteomic analysis of optimal cutting temperature-embedded frozen tissues identifying glycoproteins associated with aggressive prostate cancer**. In: Analytical Chemistry. 2011 ; Vol. 83, No. 18. pp. 7013-7019.

Heikkinen, Jarkko J. ; Kivimäki, Liisa ; Määttä, Juha A E ; Mäkelä, Inka ; Hakalahti, Leena ; Takkinen, Kristiina ; Kulomaa, Markku S. ; Hytönen, Vesa P. ; Hormi, Osmo E O. / **Versatile bio-ink for covalent immobilization of chimeric avidin on sol-gel substrates**. In: Colloids and Surfaces B: Biointerfaces. 2011 ; Vol. 87, No. 2. pp. 409-414.

Vazdar, Mario ; Vymětal, Jiří ; Heyda, Jan ; Vondrášek, Jiří ; Jungwirth, Pavel. / **Like-charge guanidinium pairing from molecular dynamics and ab initio calculations**. In: Journal of Physical Chemistry A. 2011 ; Vol. 115, No. 41. pp. 11193-11201.

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.

Lis, Mateusz ; Wizert, Alicja ; Przybylo, Magda ; Langner, Marek ; Swiatek, Jerzy ; Jungwirth, Pavel ; Cwiklik, Lukasz. / **The effect of lipid oxidation on the water permeability of phospholipids bilayers**. In: Physical Chemistry Chemical Physics. 2011 ; Vol. 13, No. 39. pp. 17555-17563.

Wernersson, Erik ; Heyda, Jan ; Vazdar, Mario ; Lund, Mikael ; Mason, Philip E. ; Jungwirth, Pavel. / **Orientational 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.

Li, Yan ; Tao, Sheng Ce ; Bova, G. Steven ; Liu, Alvin Y. ; Chan, Daniel W. ; Zhu, Heng ; Zhang, Hui. / **Detection and verification of glycosylation patterns of glycoproteins from clinical specimens using lectin microarrays and lectin-based immunosorbent assays**. In: Analytical Chemistry. 2011 ; Vol. 83, No. 22. pp. 8509-8516.

Gladich, Ivan ; Pfalzgraff, William ; Maršálek, Ondřej ; Jungwirth, Pavel ; Roeselová, Martina ; Neshyba, Steven. / **Arrhenius analysis of anisotropic surface self-diffusion on the prismatic facet of ice**. In: Physical Chemistry Chemical Physics. 2011 ; Vol. 13, No. 44. pp. 19960-19969.

Subramaniam, Kalaivani ; Das, Amit ; Steinhäuser, Dagmar ; Klüppel, Manfred ; Heinrich, Gert. / **Effect of ionic liquid on dielectric, mechanical and dynamic mechanical properties of multi-walled carbon nanotubes/polychloroprene rubber composites**. In: European Polymer Journal. 2011 ; Vol. 47, No. 12. pp. 2234-2243.

Manna, Moutusi ; Mukhopadhyay, Chaitali. / **Cholesterol driven alteration of the conformation and dynamics of phospholamban in model membranes**. In: Physical Chemistry Chemical Physics. 2011 ; Vol. 13, No. 45. pp. 20188-20198.

Härkönen, Henna H. ; Mattsson, Johanna M. ; Määttä, Juha A E ; Stenman, Ulf Håkan ; Koistinen, Hannu ; Matero, Sanni ; Windshügel, Björn ; Poso, Antti ; Lahtela-Kakkonen, Maija. / **The Discovery of Compounds That Stimulate the Activity of Kallikrein-Related Peptidase3 (KLK3)**. In: CHEMMEDCHEM. 2011 ; Vol. 6, No. 12. pp. 2170-2178.

Marsalek, Ondrej ; Elles, Christopher G. ; Pieniazek, Piotr A. ; Pluhaov, Eva ; Vandevondele, Joost ; Bradforth, Stephen E. ; Jungwirth, Pavel. / **Chasing charge localization and chemical reactivity following photoionization in liquid water**. In: Journal of Chemical Physics. 2011 ; Vol. 135, No. 22.

Tevyashova, Anna N. ; Shtil, Alexander A. ; Olsufyeva, Eugenia N. ; Luzikov, Yury N. ; Reznikova, Marina I. ; Dezhenkova, Lyubov G. ; Isakova, Elena B. ; Bukhman, Vladimir M. ; Durandin, Nikita A. ; Vinogradov, Alexander M. ; Kuzmin, Vladimir A. ; Preobrazhenskaya, Maria N. / **Modification of olivomycin A at the side chain of the aglycon yields the derivative with perspective antitumor characteristics**. In: BIOORGANIC AND MEDICINAL CHEMISTRY. 2011 ; Vol. 19, No. 24. pp. 7387-7393.

Valtakari, Dimitar ; Bollström, Roger ; Tuominen, Mikko ; Teisala, Hannu ; Aromaa, Mikko ; Toivakka, Martti ; Kuusipalo, Jurkka ; Mäkelä, Jyrki M. ; Uozumi, Jun ; Saarinen, Jarkko J. / **Conductive layers on surface modified natural fibre based substrates for printed functionality**. AIChE 2012 - 2012 AIChE Annual Meeting, Conference Proceedings. 2012.

Leuteritz, A. ; Kutlu, B. ; Meinel, J. ; Wang, D. ; Das, A. ; Wagenknecht, U. ; Heinrich, G. / **Layered Double Hydroxides (LDH) : A multifunctional versatile system for nanocomposites**. In: Molecular Crystals and Liquid Crystals. 2012 ; Vol. 556. pp. 107-113.

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.

Marsalek, Ondrej ; Uhlig, Frank ; Vandevondele, Joost ; Jungwirth, Pavel. / **Structure, dynamics, and reactivity of hydrated electrons by Ab initio molecular dynamics**. In: Accounts of Chemical Research. 2012 ; Vol. 45, No. 1. pp. 23-32.

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

Nandre, Kamalakar P. ; Salunke, Jagdish K. ; Nandre, Jitendra P. ; Patil, Vijay S. ; Borse, Amul U. ; Bhosale, Sidhanath V. / **Glycerol mediated synthesis of 5-substituted 1H-tetrazole under catalyst free conditions**. In: Chinese Chemical Letters. 2012 ; Vol. 23, No. 2. pp. 161-164.

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.

Stradomska, Anna ; Kulig, Waldemar ; Slawik, Michał ; Petelenz, Piotr. / **Excited-state polarizability in crystalline sexithiophene : Charge-transfer and vibronic effects**. In: Chemical Physics Letters. 2012 ; Vol. 529. pp. 27-30.

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.

Wang, De Yi ; Das, Amit ; Leuteritz, Andreas ; Mahaling, R. N. ; Jehnichen, Dieter ; Wagenknecht, Udo ; Heinrich, Gert. / **Structural characteristics and flammability of fire retarding EPDM/layered double hydroxide (LDH) nanocomposites**. In: RSC Advances. 2012 ; Vol. 2, No. 9. pp. 3927-3933.

Ma, Li ; Atta-Fynn, Raymond ; Ray, Asok K. / **Elemental and mixed actinide dioxides : An ab initio study**. In: Journal of Theoretical and Computational Chemistry. 2012 ; Vol. 11, No. 3. pp. 611-629.

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.

Priimagi, Arri ; Cavallo, Gabriella ; Forni, Alessandra ; Gorynsztejn-Leben, Mikael ; Kaivola, Matti ; Metrangolo, Pierangelo ; Milani, Roberto ; Shishido, Atsushi ; Pilati, Tullio ; Resnati, Giuseppe ; Terraneo, Giancarlo. / **Halogen bonding versus hydrogen bonding in driving self-assembly and performance of light-responsive supramolecular polymers**. In: Advanced Functional Materials. 2012 ; Vol. 22, No. 12. pp. 2572-2579.

Rembert, Kelvin B. ; Paterová, Jana ; Heyda, Jan ; Hilty, Christian ; Jungwirth, Pavel ; Cremer, Paul S. / **Molecular mechanisms of ion-specific effects on proteins**. In: Journal of the American Chemical Society. 2012 ; Vol. 134, No. 24. pp. 10039-10046.

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.

Serak, Svetlana V. ; Tabiryán, Nelson V. ; Assanto, Gaetano. / **Nematicons in azobenzene liquid crystals**. In: Molecular Crystals and Liquid Crystals. 2012 ; Vol. 559. pp. 202-213.

Kousoulidou, Marina ; Ntziachristos, Leonidas ; Fontaras, Georgios ; Martini, Giorgio ; Dilara, Panagiota ; Samaras, Zissis. / **Impact of biodiesel application at various blending ratios on passenger cars of different fueling technologies**. In: Fuel. 2012 ; Vol. 98. pp. 88-94.

Pegado, Luís ; Marsalek, Ondrej ; Jungwirth, Pavel ; Wernersson, Erik. / **Solvation and ion-pairing properties of the aqueous sulfate anion : Explicit versus effective electronic polarization**. In: Physical Chemistry Chemical Physics. 2012 ; Vol. 14, No. 29. pp. 10248-10257.

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.

Bardhan, Jaydeep P. ; Jungwirth, Pavel ; Makowski, Lee. / **Affine-response model of molecular solvation of ions : Accurate predictions of asymmetric charging free energies**. In: Journal of Chemical Physics. 2012 ; Vol. 137, No. 12.

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.

Le, H. H. ; Hoang, X. T. ; Das, A. ; Gohs, U. ; Stoeckelhuber, K. W. ; Boldt, R. ; Heinrich, G. ; Adhikari, R. ; Radusch, H. J. / **Kinetics of filler wetting and dispersion in carbon nanotube/rubber composites**. In: Carbon. 2012 ; Vol. 50, No. 12. pp. 4543-4556.

Khan, M. Nuruzzaman ; Tjong, Vinalia ; Chilkoti, Ashutosh ; Zharnikov, Michael. / **Fabrication of ssDNA/oligo(ethylene glycol) monolayers and complex nanostructures by an irradiation-promoted exchange reaction**. In: Angewandte Chemie (International Edition). 2012 ; Vol. 51, No. 41. pp. 10303-10306.

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.

Lisitsyna, E. S. ; Lygo, O. N. ; Durandin, N. A. ; Dement'eva, O. V. ; Rudoi, V. M. ; Kuzmin, V. A. / **Superquenching of SYBRGreen dye fluorescence in complex with DNA by gold nanoparticles**. In: HIGH ENERGY CHEMISTRY. 2012 ; Vol. 46, No. 6. pp. 363-367.

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.

Ma, Li ; Wang, Jianguang ; Wang, Guanghou. / **Search for global minimum geometries of medium sized Cd<sub>n</sub>Te<sub>n</sub> clusters (n = 15, 16, 20, 24 and 28)**. In: Chemical Physics Letters. 2012 ; Vol. 552. pp. 73-77.

Pluhařová, Eva ; Marsalek, Ondrej ; Schmidt, Burkhard ; Jungwirth, Pavel. / **Peptide salt bridge stability : From gas phase via microhydration to bulk water simulations**. In: Journal of Chemical Physics. 2012 ; Vol. 137, No. 18.

Buchholz, Max ; Goletz, Christoph Marian ; Grossmann, Frank ; Schmidt, Burkhard ; Heyda, Jan ; Jungwirth, Pavel. / **Semiclassical hybrid approach to condensed phase molecular dynamics : Application to the I<sub>2</sub>Kr<sub>17</sub> cluster**. In: Journal of Physical Chemistry A. 2012 ; Vol. 116, No. 46. pp. 11199-11210.

Mubarakali, Davoodbasha ; Praveenkumar, Ramasamy ; Shenbagavalli, Thiyagarajan ; Mari Nivetha, Thayalan ; Parveez Ahamed, Abdulazees ; Al-Dhabi, Naif Abdullah ; Thajuddin, Nooruddin. / **New reports on anti-bacterial and anti-candidal activities of fatty acid methyl esters (FAME) obtained from Scenedesmus bijugatus var. bicellularis biomass**. In: RSC Advances. 2012 ; Vol. 2, No. 30. pp. 11552-11556.

Lahtinen, Kimmo ; Lahti, Johanna ; Johansson, Petri ; Seppänen, Tarja ; Cameron, David C. / **Improving the effect of a nanoscale barrier coating on BOPP film properties by surface pretreatments**. 14th European PLACE Conference 2013. Vol. 1 TAPPI Press, 2013. pp. 469-493

Ylilauri, Mikko ; Mattila, Elina ; Nurminen, Elisa M. ; Käpylä, Jarmo ; Niinivehmas, Sanna P. ; Määttä, Juha A. ; Pentikäinen, Ulla ; Ivaska, Johanna ; Pentikäinen, Olli T. / **Molecular mechanism of T-cell protein tyrosine phosphatase (TCPTP) activation by mitoxantrone**. In: Biochimica et biophysica acta: proteins and proteomics. 2013 ; Vol. 1834, No. 10. pp. 1988-1997.

Kulig, Waldemar ; Agmon, Noam. / **A 'clusters-in-liquid' method for calculating infrared spectra identifies the proton-transfer mode in acidic aqueous solutions**. In: Nature Chemistry. 2013 ; Vol. 5, No. 1. pp. 29-35.

Wang, Heyun ; Feng, Yakai ; Zhao, Haiyang ; Fang, Zichen ; Khan, Musamir ; Guo, Jintang. / **A potential nontrombogenic small-diameter vascular scaffold with polyurethane/poly(ethylene glycol) hybrid materials by electrospinning technique**. In: Journal Nanoscience and Nanotechnology. 2013 ; Vol. 13, No. 2. pp. 1578-1582.

Ma, Li ; Wang, Jianguang ; Hao, Yuanyuan ; Wang, Guanghou. / **Density functional theory study of FePd<sub>n</sub> (n = 2-14) clusters and interactions with small molecules**. In: Computational Materials Science. 2013 ; Vol. 68. pp. 166-173.

Ma, Li ; Ray, Asok K. / **Growth behavior and magnetic properties of spherical uranium oxide nanoclusters**. In: Journal of Computational and Theoretical Nanoscience. 2013 ; Vol. 10, No. 2. pp. 334-340.

Subramaniam, Kalaivani ; Das, Amit ; Simon, Frank ; Heinrich, Gert. / **Networking of ionic liquid modified CNTs in SSBR**. In: European Polymer Journal. 2013 ; Vol. 49, No. 2. pp. 345-352.



Fafarman, Aaron T. ; Hong, Sung Hoon ; Caglayan, Humeyra ; Ye, Xingchen ; Diroll, Benjamin T. ; Paik, Taejong ; Engheta, Nader ; Murray, Christopher B. ; Kagan, Cherie R. / **Chemically tailored dielectric-to-metal transition for the design of metamaterials from nanoimprinted colloidal nanocrystals**. In: Nano Letters. 2013 ; Vol. 13, No. 2. pp. 350-357.

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.

Rasappa, Sozaraj ; Borah, Dipu ; Faulkner, Colm C. ; Lutz, Tarek ; Shaw, Matthew T. ; Holmes, Justin D. ; Morris, Michael A. / **Fabrication of a sub-10 nm silicon nanowire based ethanol sensor using block copolymer lithography**. In: Nanotechnology. 2013 ; Vol. 24, No. 6.

Barboza, R. ; Bortolozzo, U. ; Assanto, G. ; Residori, S. / **Optical vortex generation in nematic liquid crystal light valves**. In: Molecular Crystals and Liquid Crystals. 2013 ; Vol. 572, No. 1. pp. 24-30.

Borah, Dipu ; Ozmen, Mustafa ; Rasappa, Sozaraj ; Shaw, Matthew T. ; Holmes, Justin D. ; Morris, Michael A. / **Molecularly functionalized silicon substrates for orientation control of the microphase separation of PS-b-PMMA and PS-b-PDMS block copolymer systems**. In: Langmuir. 2013 ; Vol. 29, No. 9. pp. 2809-2820.

Ma, Li ; Wang, Jianguang ; Wang, Guanghou. / **Site-specific analysis of dipole polarizabilities of heterogeneous systems : Iron-doped Si<sub>n</sub> (n = 1-14) clusters**. In: Journal of Chemical Physics. 2013 ; Vol. 138, No. 9.

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.

Roop, Sandip ; Das, Amit ; Stöckelhuber, Klaus Werner ; Wang, De Yi ; Galiatsatos, Vassilios ; Heinrich, Gert. / **Understanding the reinforcing behavior of expanded clay particles in natural rubber compounds**. In: Soft Matter. 2013 ; Vol. 9, No. 14. pp. 3798-3808.

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, Musamir ; 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.

Bayr, Suvi ; Kaparaju, Prasad ; Rintala, Jukka. / **Screening pretreatment methods to enhance thermophilic anaerobic digestion of pulp and paper mill wastewater treatment secondary sludge**. In: Chemical Engineering Journal. 2013 ; Vol. 223. pp. 479-486.

McManamon, Colm ; Delaney, Paul ; Kavanagh, Claire ; Wang, Jing Jing ; Rasappa, Sozaraj ; Morris, Michael A. / **Depth profiling of PLGA copolymer in a novel biomedical bilayer using confocal raman spectroscopy**. In: Langmuir. 2013 ; Vol. 29, No. 19. pp. 5905-5910.

Pelto, Jani M. ; Haimi, Suvi P. ; Siljander, Aliisa S. ; Miettinen, Susanna S. ; Tappura, Kirsi M. ; Higgins, Michael J. ; Wallace, Gordon G. / **Surface properties and interaction forces of biopolymer-doped conductive polypyrrole surfaces by atomic force microscopy**. In: Langmuir. 2013 ; Vol. 29, No. 20. pp. 6099-6108.

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.

Gerlofs-Nijland, Miriam E. ; Totlandsdal, Annike I. ; Tzamkiozis, Theodoros ; Leseman, Daan L A C ; Samaras, Zissis ; Låg, Marit ; Schwarze, Per ; Ntziachristos, Leonidas ; Cassee, Flemming R. / **Cell toxicity and oxidative potential of engine exhaust particles : Impact of using particulate filter or biodiesel fuel blend**. In: Environmental Science and Technology. 2013 ; Vol. 47, No. 11. pp. 5931-5938.

Gordon, Thomas R. ; Paik, Taejong ; Klein, Dahlia R. ; Naik, Gururaj V. ; Caglayan, Humeyra ; Boltasseva, Alexandra ; Murray, Christopher B. / **Shape-dependent plasmonic response and directed self-assembly in a new semiconductor building block, indium-doped cadmium oxide (ICO)**. In: Nano Letters. 2013 ; Vol. 13, No. 6. pp. 2857-2863.

Diban, Nazely ; Haimi, Suvi ; Bolhuis-Versteeg, Lydia ; Teixeira, Sandra ; Miettinen, Susanna ; Poot, André ; Grijpma, Dirk ; Stamatialis, Dimitrios. / **Development and characterization of poly( $\epsilon$ -caprolactone) hollow fiber membranes for vascular tissue engineering**. In: Journal of Membrane Science. 2013 ; Vol. 438. pp. 29-37.

Stumpel, Jelle E. ; Liu, Danqing ; Broer, Dirk J. ; Schenning, Albertus P H J. / **Photoswitchable hydrogel surface topographies by polymerisation-induced diffusion**. In: Chemistry: A European Journal. 2013 ; Vol. 19, No. 33. pp. 10922-10927.

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.

Borah, Dipu ; Rasappa, Sozaraj ; Senthamarakannan, Ramsankar ; Holmes, Justin D. ; Morris, Michael A. / **Tuning PDMS brush chemistry by UV-O<sub>3</sub> exposure for PS-b-PDMS microphase separation and directed self-assembly**. In: Langmuir. 2013 ; Vol. 29, No. 28. pp. 8959-8968.

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

Stirnemann, Guillaume ; Wernersson, Erik ; Jungwirth, Pavel ; Laage, Damien. / **Mechanisms of acceleration and retardation of water dynamics by ions**. In: Journal of the American Chemical Society. 2013 ; Vol. 135, No. 32. pp. 11824-11831.

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.

Laitaoja, Mikko ; Valjakka, Jarkko ; Jänis, Janne. / **Zinc coordination spheres in protein structures**. In: Inorganic Chemistry. 2013 ; Vol. 52, No. 19. pp. 10983-10991.

Sterpone, Fabio ; Nguyen, Phuong H. ; Kalimeri, Maria ; Derreumaux, Philippe. / **Importance of the ion-pair interactions in the OPEP coarse-grained force field : Parametrization and validation**. In: Journal of Chemical Theory and Computation. 2013 ; Vol. 9, No. 10. pp. 4574-4584.

Pollheimer, Philipp ; Taskinen, Barbara ; Scherfler, Andreas ; Gusenkov, Sergey ; Creus, Marc ; Wiesauer, Philipp ; Zauner, Dominik ; Schöffberger, Wolfgang ; Schwarzinger, Clemens ; Ebner, Andreas ; Tampé, Robert ; Stutz, Hanno ; Hytönen, Vesa P. ; Gruber, Hermann J. / **Reversible biofunctionalization of surfaces with a switchable mutant of avidin**. In: Bioconjugate Chemistry. 2013 ; Vol. 24, No. 10. pp. 1656-1668.

Niskanen, Mika ; Kuisma, Mikael ; Cramariuc, Oana ; Golovanov, Viacheslav ; Hukka, Terttu I. ; Tkachenko, Nikolai ; Rantala, Tapio T. / **Porphyrim adsorbed on the (1010) surface of the wurtzite structure of ZnO-conformation induced effects on the electron transfer characteristics**. In: Physical Chemistry Chemical Physics. 2013 ; Vol. 15, No. 40. pp. 17408-17418.

Uhlig, Frank ; Jungwirth, Pavel. / **Embedded cluster models for reactivity of the hydrated electron**. In: ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY AND CHEMICAL PHYSICS. 2013 ; Vol. 227, No. 11. pp. 1583-1593.

Borah, Dipu ; Simao, Claudia D. ; Senthamaraiannan, Ramsankar ; Rasappa, Sozaraj ; Francone, Achille ; Lorret, Olivier ; Salaun, Mathieu ; Kosmala, Barbara ; Kehagias, Nikolaos ; Zelsmann, Marc ; Sotomayor-Torres, Clivia M. ; Morris, Michael A. / **Soft-graphoepitaxy using nanoimprinted polyhedral oligomeric silsesquioxane substrates for the directed self-Assembly of PS-b-PDMS**. In: European Polymer Journal. 2013 ; Vol. 49, No. 11. pp. 3512-3521.

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.

Priimagi, Arri ; Cavallo, Gabriella ; Metrangolo, Pierangelo ; Resnati, Giuseppe. / **The Halogen Bond in the Design of Functional Supramolecular Materials : Recent Advances**. In: Accounts of Chemical Research. 2013 ; Vol. 46, No. 11. pp. 2686-2695.

Pluhařová, Eva ; Mason, Philip E. ; Jungwirth, Pavel. / **Ion pairing in aqueous lithium salt solutions with monovalent and divalent counter-anions**. In: Journal of Physical Chemistry A. 2013 ; Vol. 117, No. 46. pp. 11766-11773.

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.

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

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( $\epsilon$ -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.

Le, H. H. ; Oßwald, K. ; Wießner, S. ; Das, A. ; Stöckelhuber, K. W. ; Boldt, R. ; Gupta, G. ; Heinrich, G. ; Radosch, H. J. / **Location of dispersing agent in rubber nanocomposites during mixing process**. In: Polymer. 2013 ; Vol. 54, No. 26. pp. 7009-7021.

Häkkinen, Merja R. ; Roine, Antti ; Auriola, Seppo ; Tuokko, Antti ; Veskimäe, Erik ; Keinänen, Tuomo A. ; Lehtimäki, Terho ; Oksala, Niku ; Vepsäläinen, Jouko. / **Analysis of free, mono- and diacetylated polyamines from human urine by LC-MS/MS**. In: JOURNAL OF CHROMATOGRAPHY B: ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES. 2013 ; Vol. 941. pp. 81-89.

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.

Wang, Jianguang ; Ray, Asok K. / **A full-potential linearized augmented plane wave study of the interaction of CO<sub>2</sub> with  $\alpha$ -Pu (020) surface nanolayers**. In: Journal of Computational and Theoretical Nanoscience. 2014 ; Vol. 11, No. 7. pp. 1710-1717.

Enkavi, Giray ; Li, Jing ; Wen, Pochao ; Thangapandian, Sundarapandian ; Moradi, Mahmoud ; Jiang, Tao ; Han, Wei ; Tajkhorshid, Emad. / **A microscopic view of the mechanisms of active transport across the cellular membrane**. In: Annual Reports in Computational Chemistry. 2014 ; Vol. 10. pp. 77-125.

Savolainen, Janne ; Uhlig, Frank ; Ahmed, Saima ; Hamm, Peter ; Jungwirth, Pavel. / **Direct observation of the collapse of the delocalized excess electron in water**. In: Nature Chemistry. 2014 ; Vol. 6, No. 8. pp. 697-701.

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.

Rasappa, Sozaraj ; Borah, Dipu ; Senthamaraiannan, Ramsankar ; Faulkner, Colm C. ; Holmes, Justin D. ; Morris, Michael A. / **Fabrication of 3-D nanodimensioned electric double layer capacitor structures using block copolymer templates**. In: Journal Nanoscience and Nanotechnology. 2014 ; Vol. 14, No. 7. pp. 5221-5227.

Lahti, Johanna ; Johansson, Petri ; Lahtinen, Kimmo ; Cameron, David C. ; Seppänen, Tarja. / **Improving the effect of nanoscale barrier coating on BOPP film properties : Influence of substrate contamination, web handling and pretreatments**. TAPPI PLACE Conference 2014. Vol. 2 TAPPI Press, 2014. pp. 1039-1061

Näreoja, Tuomas ; Ebner, Andreas ; Gruber, Hermann J. ; Taskinen, Barbara ; Kienberger, Ferry ; Hänninen, Pekka E. ; Hytönen, Vesa P. ; Hinterdorfer, Peter ; Härmä, Harri. / **Kinetics of bioconjugate nanoparticle label binding in a sandwich-type immunoassay**. In: Analytical and Bioanalytical Chemistry. 2014 ; Vol. 406, No. 2. pp. 493-503.

Airiskallio, E. ; Nurmi, E. ; Väyrynen, I. J. ; Kokko, K. ; Ropo, M. ; Punkkinen, M. P J ; Johansson, B. ; Vitos, L. / **Magnetic origin of the chemical balance in alloyed Fe-Cr stainless steels : First-principles and Ising model study**. In: Computational Materials Science. 2014 ; Vol. 92. pp. 135-140.

Jungwirth, Pavel. / **Molekuly a ionty v pohybu : Počítačové simulace biochemických a biofyzikálních procesů**. In: Chemicke Listy. 2014 ; Vol. 108, No. 4. pp. 278-284.

Akimova, A. V. ; Grin, M. A. ; Golovina, G. V. ; Kokrashvili, T. A. ; Vinogradov, A. M. ; Mironov, A. F. ; Rychkov, G. N. ; Shtil, A. A. ; Kuzmin, V. A. ; Durandin, N. A. / **Novel derivatives of bacteriochlorophyll a : Complex formation with albumin and the mechanism of tumor cell photodamage**. In: DOKLADY BIOCHEMISTRY AND BIOPHYSICS. 2014 ; Vol. 454, No. 1. pp. 17-20.

Köhler, Melanie ; Karner, Andreas ; Leitner, Michael ; Hytönen, Vesa P. ; Kulomaa, Markku ; Hinterdorfer, Peter ; Ebner, Andreas. / **pH-dependent deformations of the energy landscape of avidin-like proteins investigated by single molecule force spectroscopy**. In: Molecules. 2014 ; Vol. 19, No. 8. pp. 12531-12546.

Mokarian-Tabari, Parvaneh ; Cummins, Cian ; Rasappa, Sozaraj ; Simao, Claudia ; Torres, Clivia M Sotomayor ; Holmes, Justin D. ; Morris, Michael A. / **Study of the kinetics and mechanism of rapid self-assembly in block copolymer thin films during solvo-microwave annealing**. In: Langmuir. 2014 ; Vol. 30, No. 35. pp. 10728-10739.

Oksala, Niku K J ; Ekmekçi, F. Güler ; Özsoy, Ergi ; Kirankaya, Şerife ; Kokkola, Tarja ; Emecen, Güzin ; Lappalainen, Jani ; Kaarniranta, Kai ; Atalay, Mustafa. / **Natural thermal adaptation increases heat shock protein levels and decreases oxidative stress**. In: REDOX BIOLOGY. 2014 ; Vol. 3. pp. 25-28.

- Kulig, Waldemar ; Agmon, Noam. / **Both zundel and eigen isomers contribute to the IR spectrum of the gas-phase H<sub>9</sub>O<sub>4</sub> + 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.
- Khan, M. Nuruzzaman ; Zharnikov, Michael. / **Fabrication of ssDNA/oligo(ethylene glycol) monolayers by promoted exchange reaction with thiol and disulfide substituents.** In: Journal of Physical Chemistry C. 2014 ; Vol. 118, No. 6. pp. 3093-3101.
- Kulig, Waldemar ; Agmon, Noam. / **Deciphering the infrared spectrum of the protonated water pentamer and the hybrid Eigen-Zundel cation.** In: Physical Chemistry Chemical Physics. 2014 ; Vol. 16, No. 10. pp. 4933-4941.
- Hytönen, Vesa P. ; Wehrle-Haller, Bernhard. / **Protein conformation as a regulator of cell-matrix adhesion.** In: Physical Chemistry Chemical Physics. 2014 ; Vol. 16, No. 14. pp. 6342-6357.
- 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.
- Koskela, Jenni E. ; Liljeström, Ville ; Lim, Jongdoo ; Simanek, Eric E. ; Ras, Robin H A ; Priimagi, Arri ; Kostianen, Mauri A. / **Light-fuelled transport of large dendrimers and proteins.** In: Journal of the American Chemical Society. 2014 ; Vol. 136, No. 19. pp. 6850-6853.
- Raghuwanshi, Sanjeev ; Deswal, Deepa ; Karp, Matti ; Kuhad, Ramesh Chander. / **Bioprocessing of enhanced cellulase production from a mutant of Trichoderma asperellum RCK2011 and its application in hydrolysis of cellulose.** In: Fuel. 2014 ; Vol. 124. pp. 183-189.
- Pluhařová, Eva ; Fischer, Henry E. ; Mason, Philip E. ; Jungwirth, Pavel. / **Hydration of the chloride ion in concentrated aqueous solutions using neutron scattering and molecular dynamics.** In: Molecular Physics. 2014 ; Vol. 112, No. 9-10. pp. 1230-1240.
- 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.
- Kurppa, Katri ; Hytönen, Vesa P. ; Nakari-Setälä, Tiina ; Kulomaa, Markku S. ; Linder, Markus B. / **Molecular engineering of avidin and hydrophobin for functional self-assembling interfaces.** In: Colloids and Surfaces B: Biointerfaces. 2014 ; Vol. 120. pp. 102-109.
- 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.

Le, H. H. ; Abhijeet, S. ; Ilisch, S. ; Klehm, J. ; Henning, S. ; Beiner, M. ; Sarkawi, S. S. ; Dierkes, W. ; Das, A. ; Fischer, D. ; Stöckelhuber, K. W. ; Wiessner, S. ; Khatiwada, S. P. ; Adhikari, R. ; Pham, T. ; Heinrich, G. ; Radusch, H. J. / **The role of linked phospholipids in the rubber-filler interaction in carbon nanotube (CNT) filled natural rubber (NR) composites.** In: Polymer. 2014 ; Vol. 55, No. 18. pp. 4738-4747.

Uhlig, Frank ; Herbert, John M. ; Coons, Marc P. ; Jungwirth, Pavel. / **Optical spectroscopy of the bulk and interfacial hydrated electron from ab initio calculations.** In: Journal of Physical Chemistry A. 2014 ; Vol. 118, No. 35. pp. 7507-7515.

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.

Wang, Jianguang ; Ma, Li ; Liang, Yanhua ; Gao, Meiling ; Wang, Guanghou. / **Density functional theory study of transition metals doped B<sub>80</sub> fullerene.** In: Journal of Theoretical and Computational Chemistry. 2014 ; Vol. 13, No. 6.

Salunke, Jagadish K. ; Sonar, Prashant ; Wong, F. L. ; Roy, V. A L ; Lee, C. S. ; Wadgaonkar, Prakash P. / **Pyrene based conjugated materials : Synthesis, characterization and electroluminescent properties.** In: Physical Chemistry Chemical Physics. 2014 ; Vol. 16, No. 42. pp. 23320-23328.

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.

Deng, Yang ; Alicea-Velázquez, Nilda L. ; Bannwarth, Ludovic ; Lehtonen, Soili I. ; Boggon, Titus J. ; Cheng, Heung Chin ; Hytönen, Vesa P. ; Turk, Benjamin E. / **Global analysis of human nonreceptor tyrosine kinase specificity using high-density peptide microarrays.** In: Journal of Proteome Research. 2014 ; Vol. 13, No. 10. pp. 4339-4346.

Amanatidis, Stavros ; Ntziachristos, Leonidas ; Giechaskiel, Barouch ; Bergmann, Alexander ; Samaras, Zissis. / **Impact of selective catalytic reduction on exhaust particle formation over excess ammonia events.** In: Environmental Science and Technology. 2014 ; Vol. 48, No. 19. pp. 11527-11534.

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, Bhausheeb 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.

Lemmettyinen, Helge ; Tkachenko, Nikolai V. ; Valeur, Bernard ; Hotta, Jun Ichi ; Ameloot, Marcel ; Ernsting, Nikolaus P. ; Gustavsson, Thomas ; Boens, Noël. / **Time-resolved fluorescence methods (IUPAC technical report).** In: Pure and Applied Chemistry. 2014 ; Vol. 86, No. 12. pp. 1969-1998.

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.

Taskinen, Barbara ; Zauner, Dominik ; Lehtonen, Soili I. ; Koskinen, Masi ; Thomson, Chloe ; Kähkönen, Niklas ; Kukkurainen, Sampo ; Määttä, Juha A E ; Ihalainen, Teemu O. ; Kulomaa, Markku S. ; Gruber, Hermann J. ; Hytönen, Vesa P. / **Switchavidin : Reversible biotin-avidin-biotin bridges with high affinity and specificity**. In: *Bioconjugate Chemistry* . 2014 ; Vol. 25, No. 12. pp. 2233-2243.

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.

Molnar, W. ; Nugent, S. ; Lindroos, M. ; Apostol, M. ; Varga, M. / **Ballistic and numerical simulation of impacting goods on conveyor belt rubber**. In: *Polymer Testing*. 2015 ; Vol. 42. pp. 1-7.

Borah, Dipu ; Rasappa, Sozaraj ; Senthamaraikannan, Ramsankar ; Holmes, Justin D. ; Morris, Michael A. / **Block co-polymers for nanolithography : Rapid microwave annealing for pattern formation on substrates**. In: *Polymers*. 2015 ; Vol. 7, No. 4. pp. 592-609.

Kamppuri, Taina ; Vehviläinen, Marianna ; Puolakka, Arja ; Honkanen, Mari ; Vippola, Minnamari ; Rissanen, Marja. / **Characterisation of novel regenerated cellulosic, viscose, and cotton fibres and the dyeing properties of fabrics**. In: *Coloration Technology*. 2015 ; Vol. 131, No. 5. pp. 396-402.

Di Capua, Francesco ; Papirio, Stefano ; Lens, Piet N L ; Esposito, Giovanni. / **Chemolithotrophic denitrification in biofilm reactors**. In: *Chemical Engineering Journal*. 2015 ; Vol. 280. pp. 643-657.

Mason, Philip E. ; Uhlig, Frank ; Vaněk, Václav ; Buttersack, Tillmann ; Bauerecker, Sigurd ; Jungwirth, Pavel. / **Coulomb explosion during the early stages of the reaction of alkali metals with water**. In: *Nature Chemistry*. 2015 ; Vol. 7, No. 3. pp. 250-254.

Mardoukhi, Yousof ; Jeon, Jae-Hyung ; Metzler, Ralf. / **Geometry controlled anomalous diffusion in random fractal geometries : Looking beyond the infinite cluster**. In: *Physical Chemistry Chemical Physics*. 2015 ; Vol. 17, No. 44. pp. 30134-30147.

Saccone, Marco ; Cavallo, Gabriella ; Metrangolo, Pierangelo ; Resnati, Giuseppe ; Priimägi, Arri. / **Halogen-bonded photoresponsive materials**. *Halogen Bonding II: Impact on Materials Chemistry and Life Sciences*. Springer International Publishing, 2015. pp. 147-166 (Topics in Current Chemistry).

Pelado, Beatriz ; Abou-Chahine, Fawzi ; Calbo, Joaquín ; Caballero, Rubén ; delaCruz, Pilar ; Junquera-Hernández, José M. ; Ortí, Enrique ; Tkachenko, Nikolai V. ; Langa, Fernando. / **Role of the bridge in photoinduced electron transfer in porphyrin-fullerene dyads**. In: *Chemistry: A European Journal*. 2015 ; Vol. 21, No. 15. pp. 5814-5825.

Stumpel, Jelle E. ; Gil, Elda Renedo ; Spoelstra, Anne B. ; Bastiaansen, Cees W M ; Broer, Dirk J. ; Schenning, Albertus P H J. / **Stimuli-Responsive Materials Based on Interpenetrating Polymer Liquid Crystal Hydrogels**. In: *Advanced Functional Materials*. 2015 ; Vol. 25, No. 22. pp. 3314-3320.

Wacharine, Intissar ; Valkonen, Arto ; Rzaigui, Mohamed ; Smirani, Wajda. / **Synthesis, crystal structure, spectral, dielectric characteristics and conduction mechanism of two novel carboxylates of 1-benzhydrylpiperazine**. In: *Monatshefte für Chemie*. 2015 ; Vol. 146, No. 12. pp. 2007-2020.

Stasyuk, Anton J. ; Smoleń, Sabina ; Glodkowska-Mrowka, Eliza ; Brutkowski, Wojciech ; Cyrański, Michał K. ; Tkachenko, Nikolai ; Gryko, Daniel T. / **Synthesis of fluorescent naphthoquinolizines via intramolecular houben-hoesch reaction**. In: *Chemistry - An Asian Journal*. 2015 ; Vol. 10, No. 3. pp. 553-558.

Karilainen, Topi ; Cramariuc, Oana ; Kuisma, Mikael ; Tappura, Kirsi ; Hukka, Terttu I. / **Van der Waals interactions are critical in Car-Parrinello molecular dynamics simulations of porphyrin-fullerene dyads**. In: *Journal of Computational Chemistry*. 2015 ; Vol. 36, No. 9. pp. 612-621.

Stumpel, J. E. ; Broer, D. J. ; Schenning, A. P H J. / **Water-responsive dual-coloured photonic polymer coatings based on cholesteric liquid crystals**. In: RSC Advances. 2015 ; Vol. 5, No. 115. pp. 94650-94653.

Nazir, Rashid ; Bourquard, Florent ; Balčiūnas, Evaldas ; Smoleń, Sabina ; Gray, David ; Tkachenko, Nikolai V. ; Farsari, Maria ; Gryko, Daniel T. /  **$\pi$ -Expanded  $\alpha,\beta$ -unsaturated ketones : Synthesis, optical properties, and two-photon-induced polymerization**. In: ChemPhysChem. 2015 ; Vol. 16, No. 3. pp. 682-690.

Mettänen, Marja ; Hirn, Ulrich. / **A comparison of five optical surface topography measurement methods**. In: TAPPI Journal . 2015 ; Vol. 14, No. 1. pp. 27-38.

Hukka, Jarmo J. ; Katko, Tapio S. / **Appropriate pricing policy needed worldwide for improving water services infrastructure** . In: Journal American Water Works Association. 2015 ; Vol. 107, No. 1. pp. E37-E46.

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.

Reeta, P. Silviya ; Khetubol, Adis ; Jella, Tejaswi ; Chukharev, Vladimir ; Abou-Chahine, Fawzi ; Tkachenko, Nikolai V. ; Giribabu, L. ; Lemmetyinen, Helge. / **Photophysical properties of Sn (IV)tetraphenylporphyrin-pyrene dyad with a  $\beta$ -vinyl linker**. In: Journal of Porphyrins and Phthalocyanines. 2015 ; Vol. 19, No. 1-3. pp. 288-300.

Khan, Musamir ; Yang, Jing ; Shi, Changcan ; Feng, Yakai ; Zhang, Wencheng ; Gibney, Katie ; Tew, Gregory N. / **Manipulation of polycarbonate urethane bulk properties via incorporated zwitterionic polynorbomene for tissue engineering application**. In: RSC Advances. 2015 ; Vol. 5, No. 15. pp. 11284-11292.

Schroeder, Christi A. ; Pluharová, Eva ; Seidel, Robert ; Schroeder, William P. ; Faubel, Manfred ; Slaviček, Petr ; Winter, Bernd ; Jungwirth, Pavel ; Bradforth, Stephen E. / **Oxidation half-reaction of aqueous nucleosides and nucleotides via photoelectron spectroscopy augmented by ab initio calculations**. In: Journal of the American Chemical Society. 2015 ; Vol. 137, No. 1. pp. 201-209.

Czaplicki, R. ; Mäkitalo, J. ; Siikanen, R. ; Husu, H. ; Lehtolahti, J. ; Kuittinen, M. ; Kauranen, M. / **Second-Harmonic Generation from Metal Nanoparticles : Resonance Enhancement versus Particle Geometry**. In: Nano Letters. 2015 ; Vol. 15, No. 1. pp. 530-534.

Shin, Jaeoh ; Cherstvy, Andrey G. ; Metzler, Ralf. / **Kinetics of polymer looping with macromolecular crowding : Effects of volume fraction and crowder size**. In: Soft Matter. 2015 ; Vol. 11, No. 3. pp. 472-488.

Ghosh, Surya K. ; Cherstvy, Andrey G. ; Metzler, Ralf. / **Non-universal tracer diffusion in crowded media of non-inert obstacles**. In: Physical Chemistry Chemical Physics. 2015 ; Vol. 17, No. 3. pp. 1847-1858.

Li, Zhuo ; Le, Taoran ; Wu, Zhenkun ; Yao, Yagang ; Li, Liyi ; Tentzeris, Manos ; Moon, Kyoung Sik ; Wong, C. P. / **Rational design of a printable, highly conductive silicone-based electrically conductive adhesive for stretchable radio-frequency antennas**. In: Advanced Functional Materials. 2015 ; Vol. 25, No. 3. pp. 464-470.

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

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.

Bautista, Godofredo ; Mäkitalo, Jouni ; Chen, Ya ; Dhaka, Veer ; Grasso, Marco ; Karvonen, Lasse ; Jiang, Hua ; Huttunen, Mikko J. ; Huhtio, Teppo ; Lipsanen, Harri ; Kauranen, Martti. / **Second-harmonic generation imaging of semiconductor nanowires with focused vector beams**. In: Nano Letters. 2015 ; Vol. 15, No. 3. pp. 1564-1569.

Beyeh, N. K. ; Pan, F. ; Valkonen, A. ; Rissanen, K. / **Encapsulation of secondary and tertiary ammonium salts by resorcinarenes and pyrogallarenes : The effect of size and charge concentration**. In: CrystEngComm. 2015 ; Vol. 17, No. 5. pp. 1182-1188.

Ray, Santanu ; Steven, Rory T. ; Green, Felicia M. ; Höök, Fredrik ; Taskinen, Barbara ; Hytönen, Vesa P. ; Shard, Alexander G. / **Neutralized chimeric avidin binding at a reference biosensor surface**. In: Langmuir. 2015 ; Vol. 31, No. 6. pp. 1921-1930.

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.

Wecharine, Intissar ; Valkonen, Arto ; Rzaigui, Mohamed ; Sta, Wajda Smirani ; Smith, G. / **Crystal structure of 2-methylpiperazine-1,4-dium bis(hydrogen maleate)**. In: Acta Crystallographica Section E : Structure Reports Online. 2015 ; Vol. 71, No. 3. pp. o193-o194.

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.

Lolicato, Fabio ; Raudino, Antonio ; Milardi, Danilo ; La Rosa, Carmelo. / **Resveratrol interferes with the aggregation of membrane-bound human-IAPP : A molecular dynamics study**. In: European Journal of Medicinal Chemistry. 2015 ; Vol. 92. pp. 876-881.

Figueira, João ; Czardybon, Wojciech ; Mesquita, José Carlos ; Rodrigues, João ; Lahoz, Fernando ; Russo, Luca ; Valkonen, Arto ; Rissanen, Kari. / **Synthesis, characterization and solid-state photoluminescence studies of six alkoxy phenylene ethynylene dinuclear palladium(ii) rods**. In: DALTON TRANSACTIONS. 2015 ; Vol. 44, No. 9. pp. 4003-4015.

Wikström, Märten ; Sharma, Vivek ; Kaila, Ville R I ; Hosler, Jonathan P. ; Hummer, Gerhard. / **New perspectives on proton pumping in cellular respiration**. In: Chemical Reviews. 2015 ; Vol. 115, No. 5. pp. 2196-2221.

Ma, Li ; Melander, Marko ; Laasonen, Kari ; Akola, Jaakko. / **CO oxidation catalyzed by neutral and anionic Cu<sub>20</sub> clusters : Relationship between charge and activity**. In: Physical Chemistry Chemical Physics. 2015 ; Vol. 17, No. 10. pp. 7067-7076.

Tuominen, Marjukka ; Yasir, Muhammad ; Lång, Jouko ; Dahl, Johnny ; Kuzmin, Mikhail ; Mäkelä, Jaakko ; Punkkinen, Marko ; Laukkanen, Pekka ; Kokko, Kalevi ; Schulte, Karina ; Punkkinen, Risto ; Korpijärvi, Ville-Markus ; Polojärvi, Ville ; Guina, Mircea. / **Oxidation of the GaAs semiconductor at the Al<sub>2</sub>O<sub>3</sub>/GaAs junction**. In: Physical Chemistry Chemical Physics. 2015 ; Vol. 17, No. 10. pp. 7060-7066.

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-10Co<sub>4</sub>Cr hardmetal coatings : A comparative assessment**. In: Surface and Coatings Technology. 2015 ; Vol. 265. pp. 125-144.

Pirjola, Liisa ; Karjalainen, Panu ; Heikkilä, Juha ; Saari, Sampo ; Tzamkiozis, Theodoros ; Ntziachristos, Leonidas ; Kulmala, Kari ; Keskinen, Jorma ; Rönkkö, Topi. / **Effects of fresh lubricant oils on particle emissions emitted by a modern gasoline direct injection passenger car.** In: Environmental Science and Technology. 2015 ; Vol. 49, No. 6. pp. 3644-3652.

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.

Sorvajärvi, Tapio ; Viljanen, Jan ; Toivonen, Juha ; Marshall, Paul ; Glarborg, Peter. / **Rate constant and thermochemistry for  $K + O_2 + N_2 = KO_2 + N_2$ .** In: Journal of Physical Chemistry A. 2015 ; Vol. 119, No. 14. pp. 3329-3336.

Koivisto, Antti J. ; Aromaa, Mikko ; Koponen, Ismo K. ; Fransman, Wouter ; Jensen, Keld A. ; Mäkelä, Jyrki M. ; Hämeri, Kaarle J. / **Workplace performance of a loose-fitting powered air purifying respirator during nanoparticle synthesis.** In: Journal of Nanoparticle Research. 2015 ; Vol. 17, No. 4.

Cherstvy, Andrey G. ; Metzler, Ralf. / **Ergodicity breaking and particle spreading in noisy heterogeneous diffusion processes.** In: Journal of Chemical Physics. 2015 ; Vol. 142, No. 14.

Kuzmin, V. A. ; Durandin, N. A. ; Lisitsyna, E. S. ; Litvinkova, L. V. ; Nekipelova, T. D. ; Podrugina, T. A. ; Matveeva, E. D. ; Proskurnina, M. V. ; Zefirov, N. S. / **Energy degradation in photoexcited complexes of indocarbocyanine with albumin.** In: HIGH ENERGY CHEMISTRY. 2015 ; Vol. 49, No. 3. pp. 211-212.

Liang, Yanhua ; Ma, Li ; Wang, Jianguang ; Wang, Guanghou. / **Multistep reactions of water with small  $Pd_n$  clusters : A first principles study.** In: Journal of Theoretical and Computational Chemistry. 2015 ; Vol. 14, No. 3.

Pluhařová, Eva ; Slaviček, Petr ; Jungwirth, Pavel. / **Modeling photoionization of aqueous DNA and its components.** In: Accounts of Chemical Research. 2015 ; Vol. 48, No. 5. pp. 1209-1217.

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  $ZrO_2$ -7.5wt.%  $Y_2O_3$  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.

Kuz'min, V. A. ; Durandin, N. A. ; Lisitsyna, E. S. ; Nekipelova, T. D. ; Podrugina, T. A. ; Matveeva, E. D. ; Proskurnina, M. V. ; Zefirov, N. S. / **Spectral and kinetic characteristics of indocarbocyanine complexation with albumin.** In: DOKLADY PHYSICAL CHEMISTRY. 2015 ; Vol. 462, No. 1. pp. 107-109.

McManamon, Colm ; O'Connell, John ; Delaney, Paul ; Rasappa, Sozaraj ; Holmes, Justin D. ; Morris, Michael A. / **A facile route to synthesis of S-doped  $TiO_2$  nanoparticles for photocatalytic activity.** In: Journal of Molecular Catalysis A: Chemical. 2015 ; Vol. 406. pp. 51-57.

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.

Frochot, Céline ; Barberi-Heyob, Muriel ; Blanchard-Desce, Mireille ; Bolotine, Lina ; Bonneau, Stéphanie ; Jimenez, Chiara Mauriello ; Durand, Jean Olivier ; Lassalle, Henri Pierre ; Lemercier, Gilles ; Mordon, Serge ; Maillard, Philippe ; Sol, Vincent ; Vever-Bizet, Christine ; Vicendo, Patricia. / **La thérapie photodynamique : État de l'art et perspectives**. In: ACTUALITE CHIMIQUE. 2015 ; No. 397-398. pp. 46-50.

Mordon, Serge ; Bourg-Heckly, Geneviève. / **Photodiagnostic et chirurgie guidés par la fluorescence**. In: ACTUALITE CHIMIQUE. 2015 ; No. 397-398. pp. 41-45.

He, Xiaoyan ; Benniston, Andrew C. ; Saarenpää, Hanna ; Lemmetyinen, Helge ; Tkachenko, Nikolai V. ; Baisch, Ulrich. / **Polymorph crystal packing effects on charge transfer emission in the solid state**. In: Chemical Science. 2015 ; Vol. 6, No. 6. pp. 3525-3532.

Borah, Dipu ; Rasappa, Sozaraj ; Salaun, Mathieu ; Zellsman, Marc ; Lorret, Olivier ; Liontos, George ; Ntetsikas, Konstantinos ; Avgeropoulos, Apostolos ; Morris, Michael A. / **Soft graphoepitaxy for large area directed self-assembly of polystyrene-block-poly(dimethylsiloxane) block copolymer on nanopatterned poss substrates fabricated by nanoimprint lithography**. In: Advanced Functional Materials. 2015 ; Vol. 25, No. 22. pp. 3425-3432.

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.

De Carvalho, Sidney J. ; Metzler, Ralf ; Cherstvy, Andrey G. / **Inverted critical adsorption of polyelectrolytes in confinement**. In: Soft Matter. 2015 ; Vol. 11, No. 22. pp. 4430-4443.

Perander, M. ; DeMartini, N. ; Brink, A. ; Kramb, J. ; Karlström, O. ; Hemming, J. ; Moilanen, A. ; Konttinen, J. ; Hupa, M. / **Catalytic effect of Ca and K on CO<sub>2</sub> gasification of spruce wood char**. In: Fuel. 2015 ; Vol. 150. pp. 464-472.

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.

Zorzi, Giovanni K. ; Párraga, Jenny E. ; Seijo, Begoña ; Sánchez, Alejandro. / **On the biomaterials for nanostructured ocular therapeutics**. In: Current Organic Chemistry. 2015 ; Vol. 19, No. 15. pp. 1443-1459.

Sanginés, R. ; Contreras, V. ; Sobral, H. ; Robledo-Martinez, A. / **Optimal emission enhancement in orthogonal double-pulse laser-induced breakdown spectroscopy**. In: Spectrochimica Acta Part B: Atomic Spectroscopy. 2015 ; Vol. 110. pp. 139-145.

Ahmed, Zafar ; George, Lijo ; Hiltunen, Arto ; Lemmetyinen, Helge ; Hukka, Terttu ; Efimov, Alexander. / **Synthesis and study of electrochemical and optical properties of substituted perylenemonoimides in solutions and on solid surfaces**. In: Journal of Materials Chemistry A. 2015 ; Vol. 3, No. 25. pp. 13332-13339.

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.

Hakkarainen, T. V. ; Schramm, A. ; Mäkelä, J. ; Laukkanen, P. ; Guina, M. / **Lithography-free oxide patterns as templates for self-catalyzed growth of highly uniform GaAs nanowires on Si(111)**. In: Nanotechnology. 2015 ; Vol. 26, No. 27.

Çetinkaya, Afşin Y. ; Köroğlu, Emre Oğuz ; Demir, Neslihan Manav ; Baysoy, Derya Yılmaz ; Özkaya, Bestamin ; Çakmakçı, Mehmet. / **Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration**. In: Chinese Journal of Catalysis. 2015 ; Vol. 36, No. 7. pp. 1068-1076.

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

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

Bodrova, Anna ; Chechkin, Aleksei V. ; Cherstvy, Andrey G. ; Metzler, Ralf. / **Quantifying non-ergodic dynamics of force-free granular gases**. In: Physical Chemistry Chemical Physics. 2015 ; Vol. 17, No. 34. pp. 21791-21798.

Rasappa, Sozaraj ; Caridad, José M. ; Schulte, Lars ; Cagliani, Alberto ; Borah, Dipu ; Morris, Michael A. ; Bøggild, Peter ; Ndoni, Sokol. / **High quality sub-10 nm graphene nanoribbons by on-chip PS-b-PDMS block copolymer lithography**. In: RSC Advances. 2015 ; Vol. 5, No. 82. pp. 66711-66717.

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.

Stumpel, Jelle E. / **Responsive Polymer Photonics**. In: Chemistryopen. 2015 ; Vol. 4, No. 4. pp. 533-535.

Le, H. H. ; Pham, T. ; Henning, S. ; Klehm, J. ; Wießner, S. ; Stöckelhuber, K. W. ; Das, A. ; Hoang, X. T. ; Do, Q. K. ; Wu, M. ; Vennemann, N. ; Heinrich, G. ; Radosch, H. J. / **Formation and stability of carbon nanotube network in natural rubber : Effect of non-rubber components**. In: Polymer. 2015 ; Vol. 73. pp. 111-121.

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.

Levin, Marcus ; Rojas, Elena ; Vanhala, Esa ; Vippola, Minnamari ; Liguori, Biase ; Kling, Kirsten I. ; Koponen, Ismo K. ; Møhlhave, Kristian ; Tuomi, Timo ; Gregurec, Danijela ; Moya, Sergio ; Jensen, Keld A. / **Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials : implications for testing and risk assessment**. In: Journal of Nanoparticle Research. 2015 ; Vol. 17, No. 8.

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

Mäkelä, J. ; Tuominen, M. ; Yasir, M. ; Polojärvi, V. ; Aho, A. ; Tukiainen, A. ; Kuzmin, M. ; Punkkinen, M. P J ; Laukkanen, P. ; Kokko, K. ; Guina, M. / **Effects of thinning and heating for TiO<sub>2</sub>/AlInP junctions**. In: Journal of Electron Spectroscopy and Related Phenomena. 2015 ; Vol. 205. pp. 6-9.

Barreca, Davide ; Carraro, Giorgio ; Warwick, Michael E A ; Kaunisto, Kimmo ; Gasparotto, Alberto ; Gombac, Valentina ; Sada, Cinzia ; Turner, Stuart ; Van Tendeloo, Gustaaf ; Maccato, Chiara ; Fornasiero, Paolo. / **Fe<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> nanosystems by a hybrid PE-CVD/ALD approach : controllable synthesis, growth mechanism, and photocatalytic properties**. In: CrystEngComm. 2015 ; Vol. 17, No. 32. pp. 6219-6226.

Yang, Yubo ; Kylänpää, Ilkka ; Tubman, Norm M. ; Krogel, Jaron T. ; Hammes-Schiffer, Sharon ; Ceperley, David M. / **How large are nonadiabatic effects in atomic and diatomic systems?**. In: Journal of Chemical Physics. 2015 ; Vol. 143, No. 12.

Bajamundi, Cyril Jose E ; Vainikka, Pasi ; Hedman, Merja ; Silvennoinen, Jaani ; Heinanen, Teemu ; Taipale, Raili ; Konttinen, Jukka. / **Searching for a robust strategy for minimizing alkali chlorides in fluidized bed boilers during burning of high SRF-energy-share fuel**. In: Fuel. 2015 ; Vol. 155. pp. 25-36.

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.

Frankberg, Erkki J. ; George, Lijo ; Efimov, Alexander ; Honkanen, Mari ; Pessi, Jenni ; Levänen, Erkki. / **Measuring synthesis yield in graphene oxide synthesis by modified hummers method.** In: Fullerenes Nanotubes and Carbon Nanostructures. 2015 ; Vol. 23, No. 9. pp. 755-759.

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.

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

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.

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

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.

Moradi, Mahmoud ; Enkavi, Giray ; Tajkhorshid, Emad. / **Atomic-level characterization of transport cycle thermodynamics in the glycerol-3-phosphate : Phosphate antiporter.** In: Nature Communications. 2015 ; Vol. 6.

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.

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 ; Priimagi, Arri ; Pellerin, Christian. / **Photomechanical Energy Transfer to Photopassive Polymers through Hydrogen and Halogen Bonds.** In: Macromolecules. 2015 ; Vol. 48, No. 20. pp. 7535-7542.

Vapaavuori, Jaana ; Laventure, Audrey ; Bazuin, C. Geraldine ; Lebel, Olivier ; Pellerin, Christian. / **Submolecular Plasticization Induced by Photons in Azobenzene Materials.** In: Journal of the American Chemical Society. 2015 ; Vol. 137, No. 42. pp. 13510-13517.

Zorzi, Giovanni K. ; Párraga, Jenny E. ; Seijo, Begoña ; Sanchez, Alejandro. / **Comparison of different cationized proteins as biomaterials for nanoparticle-based ocular gene delivery.** In: Colloids and Surfaces B: Biointerfaces. 2015 ; Vol. 135. pp. 533-541.

Le, H. H. ; Parsaker, M. ; Sriharish, M. N. ; Henning, S. ; Menzel, M. ; Wießner, S. ; Das, A. ; Do, Q. K. ; Heinrich, G. ; Radsch, 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.

Seo, Jung Yoon ; Lee, Kyubock ; Ramasamy, Praveenkumar ; Kim, Bohwa ; Lee, So Yeun ; Oh, You Kwan ; Park, Seung Bin. / **Tri-functionality of Fe<sub>3</sub>O<sub>4</sub>-embedded carbon microparticles in microalgae harvesting**. In: Chemical Engineering Journal. 2015 ; Vol. 280. pp. 206-214.

Kaouk, A. ; Ruoko, T. P. ; Gönüllü, Y. ; Kaunisto, K. ; Mettenböcker, A. ; Gurevich, E. ; Lemmetyinen, H. ; Ostendorf, A. ; Mathur, S. / **Graphene-intercalated Fe<sub>2</sub>O<sub>3</sub>/TiO<sub>2</sub> heterojunctions for efficient photoelectrolysis of water**. In: RSC Advances . 2015 ; Vol. 5, No. 123. pp. 101401-101407.

Ihalainen, Teemu O. ; Aires, Lina ; Herzog, Florian A. ; Schwartlander, Ruth ; Moeller, Jens ; Vogel, Viola. / **Differential basal-to-apical accessibility of lamin A/C epitopes in the nuclear lamina regulated by changes in cytoskeletal tension**. In: Nature Materials. 2015 ; Vol. 14, No. 12. pp. 1252-1261.

Mäki, A. J. ; Peltokangas, M. ; Kreutzer, J. ; Auvinen, S. ; Kallio, P. / **Modeling carbon dioxide transport in PDMS-based microfluidic cell culture devices**. In: Chemical Engineering Science. 2015 ; Vol. 137. pp. 515-524.

Dhieb, A. C. ; Valkonen, A. ; Rzaigui, M. ; Smirani, W. / **Synthesis, crystal structure, physico-chemical characterization and dielectric properties of a new hybrid material, 1-Ethylpiperazine-1,4-dium tetrachlorocadmate**. In: Journal of Molecular Structure. 2015 ; Vol. 1102. pp. 50-56.

Alanen, Jenni ; Saukko, Erka ; Lehtoranta, Kati ; Murtonen, Timo ; Timonen, Hilka ; Hillamo, Risto ; Karjalainen, Panu ; Kuuluvainen, Heino ; Harra, Juha ; Keskinen, Jorma ; Rönkkö, Topi. / **The formation and physical properties of the particle emissions from a natural gas engine**. In: Fuel. 2015 ; Vol. 162. pp. 155-161.

Farooq, A. ; Evreinov, G. ; Raisamo, R. ; Takahata, D. / **Evaluating transparent liquid screen overlay as a haptic conductor : Method of enhancing touchscreen based user interaction by a transparent deformable liquid screen overlay**. 2015 IEEE SENSORS - Proceedings. Institute of Electrical and Electronics Engineers Inc., 2015.

Su, W. ; Cooper, J. R. ; Cook, B. S. ; Tentzeris, M. M. ; Mariotti, C. ; Roselli, L. / **Inkjet-printed dual microfluidic-based sensor integrated system**. 2015 IEEE SENSORS - Proceedings. Institute of Electrical and Electronics Engineers Inc., 2015.

Lee, Tae Yong ; Ramasamy, Praveenkumar ; Oh, You Kwan ; Lee, Kyubock ; Kim, Shin Hyun. / **Alginate microgels created by selective coalescence between core drops paired with an ultrathin shell**. In: Journal of Materials Chemistry B. 2016 ; Vol. 4, No. 19. pp. 3232-3238.

Santos, Fábio M F ; Rosa, João N. ; Candeias, Nuno R. ; Carvalho, Cátia Parente ; Matos, Ana I. ; Ventura, Ana E. ; Florindo, Helena F. ; Silva, Liana C. ; Pischel, Uwe ; Gois, Pedro M P. / **A Three-Component Assembly Promoted by Boronic Acids Delivers a Modular Fluorophore Platform (BASHY Dyes)**. In: Chemistry: A European Journal. 2016 ; Vol. 22, No. 5. pp. 1631-1637.

Kulig, Waldemar ; Cwiklik, Lukasz ; Jurkiewicz, Piotr ; Rog, Tomasz ; Vattulainen, Ilpo. / **Cholesterol oxidation products and their biological importance**. In: Chemistry and Physics of Lipids. 2016 ; Vol. 199. pp. 144-160.

Bansod, Naresh D. ; Kapgate, 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.

Horinouchi, Haruki ; Sakai, Hayato ; Araki, Yasuyuki ; Sakanoue, Tomo ; Takenobu, Taishi ; Wada, Takehiko ; Tkachenko, Nikolai V. ; Hasobe, Taku. / **Controllable Electronic Structures and Photoinduced Processes of Bay-Linked Perylenediimide Dimers and a Ferrocene-Linked Triad**. In: Chemistry: A European Journal. 2016 ; Vol. 22, No. 28. pp. 9631-9641.

Halder, Arjun ; Kandambeth, Sharath ; Biswal, Bishnu P. ; Kaur, Gagandeep ; Roy, Neha Chaki ; Addicoat, Matthew ; Salunke, Jagadish K. ; Banerjee, Subhrashis ; Vanka, Kumar ; Heine, Thomas ; Verma, Sandeep ; Banerjee, Rahul. / **Decoding the Morphological Diversity in Two Dimensional Crystalline Porous Polymers by Core Planarity Modulation**. In: *Angewandte Chemie (International Edition)*. 2016 ; Vol. 55, No. 27. pp. 7806-7810.

Spataru, Ana ; Jain, Rohan ; Chung, Jae Wook ; Gerner, Gabriel ; Krebs, Rolf ; Lens, Piet N. L. / **Enhanced adsorption of orthophosphate and copper onto hydrochar derived from sewage sludge by KOH activation**. In: *RSC Advances*. 2016 ; Vol. 6, No. 104. pp. 101827-101834.

Basu, Debdipta ; Das, Amit ; Wang, De Yi ; George, Jinu Jacob ; Stöckelhuber, Klaus Werner ; Boldt, Regine ; Leuteritz, Andreas ; Heinrich, Gert. / **Fire-safe and environmentally friendly nanocomposites based on layered double hydroxides and ethylene propylene diene elastomer**. In: *RSC Advances*. 2016 ; Vol. 6, No. 31. pp. 26425-26436.

Rocherullé, J. ; Massera, J. ; Oudadesse, H. ; Calvez, L. ; Trolès, J. ; Zhang, X. H. / **Heat capacities of crystalline and glassy lithium metaphosphate up to the transition region**. In: *Journal of Thermal Analysis and Calorimetry*. 2016 ; Vol. 123, No. 1. pp. 401-407.

Kato, Daiki ; Sakai, Hayato ; Tkachenko, Nikolai V. ; Hasobe, Taku. / **High-Yield Excited Triplet States in Pentacene Self-Assembled Monolayers on Gold Nanoparticles through Singlet Exciton Fission**. In: *Angewandte Chemie (International Edition)*. 2016 ; Vol. 55, No. 17. pp. 5230-5234.

Lahti, Johanna. / **Nanoscale barrier coating on BOPP packaging film by ALD**. TAPPI PLACE Conference 2016: Exploring New Frontiers. TAPPI Press, 2016. pp. 493-505

Perumbilavil, Sreekanth ; Sridharan, Kishore ; Abraham, Ann Rose ; Janardhanan, Harsha P. ; Kalarikkal, Nandakumar ; Philip, Reji. / **Nonlinear transmittance and optical power limiting in magnesium ferrite nanoparticles : effects of laser pulsewidth and particle size**. In: *RSC Advances*. 2016 ; Vol. 6, No. 108. pp. 106754-106761.

Kastinen, T. ; Niskanen, M. ; Risko, C. ; Cramariuc, O. ; Hukka, T. I. / **On describing the optoelectronic characteristics of poly(benzodithiophene- : Co -quinoxaline)-fullerene complexes: The influence of optimally tuned density functionals**. In: *Physical Chemistry Chemical Physics*. 2016 ; Vol. 18, No. 39. pp. 27654-27670.

Kattiparambil Rajan, Dhanesh ; Patrikoski, Mimmi ; Verho, Jarmo ; Sivula, Jyrki ; Ihalainen, Heimo ; Miettinen, Susanna ; Lekkala, Jukka. / **Optical non-contact pH measurement in cell culture with sterilizable, modular parts**. In: *Talanta*. 2016 ; Vol. 161. pp. 755-761.

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.

Jain, Rohan ; Dominic, Domician ; Jordan, Norbert ; Rene, Eldon R. ; Weiss, Stephan ; van Hullebusch, Eric D. ; Hübner, René ; Lens, Piet N L. / **Preferential adsorption of Cu in a multi-metal mixture onto biogenic elemental selenium nanoparticles**. In: *Chemical Engineering Journal*. 2016 ; Vol. 284. pp. 917-925.

Higashino, Tomohiro ; Yamada, Tomoki ; Yamamoto, Masanori ; Furube, Akihiro ; Tkachenko, Nikolai V. ; Miura, Taku ; Kobori, Yasuhiro ; Jono, Ryota ; Yamashita, Koichi ; Imahori, Hiroshi. / **Remarkable Dependence of the Final Charge Separation Efficiency on the Donor-Acceptor Interaction in Photoinduced Electron Transfer**. In: *Angewandte Chemie (International Edition)*. 2016 ; Vol. 55, No. 2. pp. 629-633.

Cavallo, Gabriella ; Terraneo, Giancarlo ; Monfredini, Alessandro ; Saccone, Marco ; Priimägi, Arri ; Pilati, Tullio ; Resnati, Giuseppe ; Mentrangolo, Pierangelo ; Bruce, Duncan W. / **Superfluorinated Ionic Liquid Crystals Based on Supramolecular, Halogen-Bonded Anions**. In: *Angewandte Chemie (International Edition)*. 2016 ; Vol. 55, No. 21. pp. 6300-6304.

Matsuo, Shota ; Yamazoe, Seiji ; Goh, Jing-Qiang ; Akola, Jaakko ; Tsukuda, Tatsuya. / **The electrooxidation-induced structural changes of gold di-superatomic molecules : Au<sub>23</sub> vs. Au<sub>25</sub>**. In: *Physical Chemistry Chemical Physics*. 2016 ; Vol. 18, No. 6. pp. 4822-4827.

Golovanov, Viacheslav ; Golovanova, Viktoria ; Rantala, Tapio T. / **Thermal desorption of molecular oxygen from SnO<sub>2</sub> (110) surface : Insights from first-principles calculations.** In: Journal of Physics and Chemistry of Solids. 2016 ; Vol. 89. pp. 15-22.

Pirjola, Liisa ; Dittrich, Aleš ; Niemi, Jarkko V. ; Saarikoski, Sanna ; Timonen, Hilka ; Kuuluvainen, Heino ; Järvinen, Anssi ; Kousa, Anu ; Rönkkö, Topi ; Hillamo, Risto. / **Physical and Chemical Characterization of Real-World Particle Number and Mass Emissions from City Buses in Finland.** In: Environmental Science and Technology. 2016 ; Vol. 50, No. 1. pp. 294-304.

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.

Ali-Löytty, Harri ; Louie, Mary W. ; Singh, Meenesh R. ; Li, Lin ; Sanchez Casalongue, Hernan G. ; Ogasawara, Hirohito ; Crumlin, Ethan J. ; Liu, Zhi ; Bell, Alexis T. ; Nilsson, Anders ; Friebel, Daniel. / **Ambient-Pressure XPS Study of a Ni-Fe Electrocatalyst for the Oxygen Evolution Reaction.** In: Journal of Physical Chemistry C. 2016 ; Vol. 120, No. 4. pp. 2247-2253.

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.

Szabo, Hilda Marta ; Lepistö, Raghida ; Tuhkanen, Tuula. / **HPLC-SEC : a new approach to characterise complex wastewater effluents.** In: International Journal of Environmental Analytical Chemistry. 2016 ; Vol. 96, No. 3. pp. 257-270.

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.

Sakuma, Takao ; Sakai, Hayato ; Araki, Yasuyuki ; Mori, Tadashi ; Wada, Takehiko ; Tkachenko, Nikolai V. ; Hasobe, Taku. / **Long-Lived Triplet Excited States of Bent-Shaped Pentacene Dimers by Intramolecular Singlet Fission.** In: Journal of Physical Chemistry A. 2016 ; Vol. 120, No. 11. pp. 1867-1875.

Mal, J. ; Nancharaiah, Y. V. ; Van Hullebusch, E. D. ; Lens, P. N. L. / **Metal chalcogenide quantum dots : Biotechnological synthesis and applications.** In: RSC Advances. 2016 ; Vol. 6, No. 47. pp. 41477-41495.

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.

Viljanen, Jan ; Sun, Zhiwei ; Alwahabi, Zeyad T. / **Microwave assisted laser-induced breakdown spectroscopy at ambient conditions.** In: Spectrochimica Acta Part B: Atomic Spectroscopy. 2016 ; Vol. 118. pp. 29-36.

Isakov, M. ; Kokkonen, J. ; Östman, K. ; Kuokkala, V.-T. / **Strain rate change tests with the Split Hopkinson Bar method.** In: European Physical Journal. Special Topics. 2016 ; Vol. 225, No. 2. pp. 231-242.

Nisato, Giovanni (Editor) ; Lupo, Donald (Editor) ; Ganz, Simone (Editor). / **Organic and Printed Electronics : Fundamentals and Applications.** 1 ed. Singapore : PAN STANFORD PUBLISHING, 2016. 580 p.

Fernandez-Palacio, Francisco ; Saccone, Marco ; Priimägi, Arri ; Terraneo, Giancarlo ; Pilati, Tullio ; Metrangolo, Pierangelo ; Resnati, Giuseppe. / **Coordination networks incorporating halogen-bond donor sites and azobenzene groups.** In: CrystEngComm. 2016 ; Vol. 18, No. 13. pp. 2251-2257.



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.

Hakola, Hanna ; Sariola-Leikas, Essi ; Efimov, Alexander ; Tkachenko, Nikolai V. / **Effect of Hole Transporting Material on Charge Transfer Processes in Zinc Phthalocyanine Sensitized ZnO Nanorods.** In: Journal of Physical Chemistry C. 2016 ; Vol. 120, No. 13. pp. 7044-7051.

La Rosa, Carmelo ; Scalisi, Silvia ; Lolicato, Fabio ; Pannuzzo, Martina ; Raudino, Antonio. / **Lipid-assisted protein transport : A diffusion-reaction model supported by kinetic experiments and molecular dynamics simulations.** In: Journal of Chemical Physics. 2016 ; Vol. 144, No. 18.

Soto, Ana M. ; Koivisto, Janne T. ; Parraga, Jenny E. ; Silva-Correia, Joana ; Oliveira, Joaquim M. ; Reis, Rui L. ; Kellomäki, Minna ; Hyttinen, Jari ; Figueiras, Edite. / **Optical Projection Tomography Technique for Image Texture and Mass Transport Studies in Hydrogels Based on Gellan Gum.** In: Langmuir. 2016 ; Vol. 32, No. 20. pp. 5173-5182.

Isotahdon, Elisa ; Huttunen-Saarivirta, Elina ; Kuokkala, Veli-Tapani. / **Development of Magnetic Losses During Accelerated Corrosion Tests for Nd-Fe-B Magnets Used in Permanent Magnet Generators.** In: Corrosion. 2016 ; Vol. 72, No. 6. pp. 732-741.

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.

Razavi, Alireza ; Valkama, Mikko ; Lohan, Elena Simona. / **Robust statistical approaches for RSS-based floor detection in indoor localization.** In: Sensors. 2016 ; Vol. 16, No. 6.

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.

Luna, E. ; Wu, M. ; Hanke, M. ; Puustinen, J. ; Guina, M. ; Trampert, A. / **Spontaneous formation of three-dimensionally ordered Bi-rich nanostructures within GaAs<sub>1-x</sub>Bi<sub>x</sub>/GaAs quantum wells.** In: Nanotechnology. 2016 ; Vol. 27, No. 32.

Kärkkäinen, M. ; Kolli, T. ; Honkanen, M. ; Heikkinen, O. ; Väliheikki, A. ; Huuhtanen, M. ; Kallinen, K. ; Lahtinen, J. ; Vippola, M. ; Keiski, R. L. / **The Influence of Phosphorus Exposure on a Natural-Gas-Oxidation Catalyst.** In: Topics in Catalysis. 2016 ; Vol. 59, No. 10-12. pp. 1044-1048.

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.

Garifullin, Marsel ; Sinelnikov, Alexey ; Bronzova, Maria ; Kovacic, Boštjan ; Kamnik, Rok. / **Buckling Behavior of Cold-Formed Studs with Thermal Perforations.** In: MATEC Web of Conferences. 2016 ; Vol. 73.

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.

Stöckelhuber, Klaus Werner (Editor) ; Das, Amit (Editor) ; Klüppel, Manfred (Editor). / **Designing of Elastomer Nanocomposites : From Theory to Application.** Springer International Publishing, 2016. (Advances in Polymer Science).

Basu, Debdipta ; Das, Amit ; Stöckelhuber, Klaus Werner ; Wießner, Sven. / **Nanostructured Ionomeric Elastomers.** Designing of Elastomer Nanocomposites: From Theory to Applications. editor / Klaus Werner Stöckelhuber ; Amit Das ; Manfred Klüppel. Springer International Publishing, 2016. pp. 235-266 (Advances in Polymer Science).

Pilehrood, Mohammad Kazemi ; Atashi, Amir ; Sadeghi-Aliabadi, Hojjat ; Nousiainen, Pertti ; Harlin, Ali. / **3D micro-nano structured hybrid scaffolds : An investigation into the role of nanofiber coating on viability, proliferation and differentiation of seeded mesenchymal stem cells.** In: Journal Nanoscience and Nanotechnology. 2016 ; Vol. 16, No. 9. pp. 9000-9007.

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.

Zhou, Quan ; Sariola, Veikko ; Latifi, Kourosh ; Liimatainen, Ville. / **Controlling the motion of multiple objects on a Chladni plate.** In: Nature Communications. 2016 ; Vol. 7.

Kramb, Jason ; Konttinen, Jukka ; Backman, Rainer ; Salo, Kari ; Roberts, Michael. / **Elimination of arsenic-containing emissions from gasification of chromated copper arsenate wood.** In: Fuel. 2016 ; Vol. 181. pp. 319-324.

Will, Olga Maria ; Purcz, Nicolai ; Chalaris, Athena ; Heneweer, Carola ; Boretius, Susann ; Purcz, Larissa ; Nikkola, Lila ; Ashammakhi, Nureddin ; Kalthoff, Holger ; Glüer, Claus Christian ; Wiltfang, Jörg ; Açı, Yahya ; Tiwari, Sanjay. / **Increased survival rate by local release of diclofenac in a murine model of recurrent oral carcinoma.** In: International Journal of Nanomedicine. 2016 ; Vol. 11. pp. 5311-5321.

Ali-Löytty, Harri ; Hannula, Markku ; Honkanen, Mari ; Östman, Kauko ; Lahtonen, Kimmo ; Valden, Mika. / **Grain orientation dependent Nb-Ti microalloying mediated surface segregation on ferritic stainless steel.** In: Corrosion Science. 2016 ; Vol. 112. pp. 204-213.

Reisberg, L. ; Pärna, R. ; Kikas, A. ; Kuusik, I. ; Kisand, V. ; Hirsimäki, M. ; Valden, M. ; Nömmiste, E. / **UPS and DFT investigation of the electronic structure of gas-phase trimesic acid.** In: Journal of Electron Spectroscopy and Related Phenomena. 2016 ; Vol. 213. pp. 11-16.

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.

Ropo, Matti ; Akola, Jaakko ; Jones, Robert O. / **Collective excitations and viscosity in liquid Bi.** In: Journal of Chemical Physics. 2016 ; Vol. 145, No. 18.

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.

Ntziachristos, L. ; Saukko, E. ; Lehtoranta, K. ; Rönkkö, T. ; Timonen, H. ; Simonen, P. ; Karjalainen, P. ; Keskinen, J. / **Particle emissions characterization from a medium-speed marine diesel engine with two fuels at different sampling conditions.** In: Fuel. 2016 ; Vol. 186. pp. 456-465.

Fabert, M. ; Ojha, N. ; Erasmus, E. ; Hannula, M. ; Hokka, M. ; Hyttinen, J. ; Rocherullé, J. ; Sigalas, I. ; Massera, J. / **Crystallization and sintering of borosilicate bioactive glasses for application in tissue engineering.** In: Journal of Materials Chemistry B. 2017 ; Vol. 5, No. 23. pp. 4514-4525.

Kordmahaleh, Aidin Alinezhad ; Naghashzadegan, Mohammad ; Javaherdeh, Kourosh ; Khoshgoftar, Mohammadreza. / **Design of a 25 MWe Solar Thermal Power Plant in Iran with Using Parabolic Trough Collectors and a Two-Tank Molten Salt Storage System.** In: International Journal of Photoenergy. 2017 ; Vol. 2017.

Golovanov, V. V. ; Nazarchuk, B. V. ; Golovanova, V. V. ; Tkachenko, N. V. ; Rantala, T. T. / **Effects of orientation at the phthalocyanine-CdSe interface on the electron transfer characteristics.** In: Physical Chemistry Chemical Physics. 2017 ; Vol. 19, No. 16. pp. 10511-10517.

Vuorimaa-Laukkanen, Elina ; Lisitsyna, Ekaterina S. ; Ketola, Tiia-Maaria ; Morin-Pickardat, Emmanuelle ; Liang, Huamin ; Hanzlikova, Martina ; Urtti, Arto ; Yliperttula, Marjo L. ; Lisitsyna, Ekaterina ; Laaksonen, Timo. / **Fluorescence spectroscopy "knife" for polyplex "cakes": taste the filling**. Paper presented at 30 Years of Drug Delivery Research, Kuopio, Finland.

Mojica, Edson ; Pertuz, Said ; Arguello, Henry. / **High-resolution coded-aperture design for compressive X-ray tomography using low resolution detectors**. In: Optics Communications. 2017 ; Vol. 404. pp. 103-109.

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

Mäkelä, Jyrki M. ; Haapanen, Janne ; Harra, Juha ; Juuti, Paxton ; Kujanpää, Sonja. / **Liquid flame spray—a hydrogen-oxygen flame based method for nanoparticle synthesis and functional nanocoatings**. In: KONA POWDER AND PARTICLE JOURNAL. 2017 ; Vol. 2017, No. 34. pp. 141-154.

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

Saccone, Marco ; Palacio, Francisco Fernandez ; Cavallo, Gabriella ; Dichiarante, Valentina ; Virkki, Matti ; Terraneo, Giancarlo ; Priimagi, Arri ; Metrangolo, Pierangelo. / **Photoresponsive ionic liquid crystals assembled : Via halogen bond: En route towards light-controllable ion transporters**. In: Faraday Discussions. 2017 ; Vol. 203. pp. 407-422.

Vapaavuori, Jaana ; Siiskonen, Antti ; Dichiarante, Valentina ; Forni, Alessandra ; Saccone, Marco ; Pilati, Tullio ; Pellerin, Christian ; Shishido, Atsushi ; Metrangolo, Pierangelo ; Priimagi, Arri. / **Supramolecular control of liquid crystals by doping with halogen-bonding dyes**. In: RSC Advances. 2017 ; Vol. 7, No. 64. pp. 40237-40242.

Lahbib, Ikram ; Valkonen, Arto ; Rzaigui, Mohamed ; Smirani, Wajda. / **Synthesis, Structural Characterization, Hirshfeld Surface and Antioxidant Activity Analysis of a Novel Organic Cation Antimonate Complex**. In: Journal of Cluster Science. 2017 ; Vol. 28, No. 4. pp. 2239-2252.

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.

Kovács, Péter Tamás ; Zare, Alireza ; Balogh, Tibor ; Bregovic, Robert ; Gotchev, Atanas. / **Architectures and codecs for real-time light field streaming**. In: Journal of Imaging Science and Technology. 2017 ; Vol. 61, No. 1.

Suokas, Esa. / **Effect of air gap on the adhesion of PET layer on cardboard substrate in extrusion coating**. 16th TAPPI European PLACE Conference 2017. TAPPI Press, 2017. pp. 529-544

Lahti, Johanna ; Kampuri, Taina ; Kuusipalo, Jurkka. / **Novel bio-based materials for active and intelligent packaging**. 16th TAPPI European PLACE Conference 2017. TAPPI Press, 2017.

Lahti, Johanna ; Kuusipalo, Jurkka ; Auvinen, Sanna. / **Novel equipment to simulate hot air heat sealability of packaging materials**. 16th TAPPI European PLACE Conference 2017. TAPPI Press, 2017. pp. 237-248

Kuusipalo, Jurkka ; Lahti, Johanna. / **Tampere University of Technology, laboratory of materials science, paper converting and packaging technology Tampere, Finland**. 16th TAPPI European PLACE Conference 2017: Basel; Switzerland; 22 May 2017 through 24 May 2017. Vol. May-2017 TAPPI Press, 2017.

Balanta, M. A G ; Orsi Gordo, V. ; Carvalho, A. R H ; Puustinen, J. ; Alghamdi, H. M. ; Henini, M. ; Galeti, H. V A ; Guina, M. ; Galvão Gobato, Y. / **Polarization resolved photoluminescence in GaAs<sub>1-x</sub>Bi<sub>x</sub>/GaAs quantum wells**. In: Journal of Luminescence. 2017 ; Vol. 182. pp. 49-52.

Siiskonen, Antti ; Priimägi, Arri. / **Benchmarking DFT methods with small basis sets for the calculation of halogen-bond strengths**. In: Journal of Molecular Modeling. 2017 ; Vol. 23, No. 2.

Izdebskaya, Yana ; Shvedov, Vladlen ; Assanto, Gaetano ; Krolikowski, Wieslaw. / **Magnetic routing of light-induced waveguides**. In: Nature Communications. 2017 ; Vol. 8.

Guixà-González, Ramon ; Albasanz, José L. ; Rodriguez-Espigares, Ismael ; Pastor, Manuel ; Sanz, Ferran ; Martí-Solano, Maria ; Manna, Moutusi ; Martinez-Seara, Hector ; Hildebrand, Peter W. ; Martín, Mairena ; Selent, Jana. / **Membrane cholesterol access into a G-protein-coupled receptor**. In: Nature Communications. 2017 ; Vol. 8.

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.

Bilkova, Eva ; Pleskot, Roman ; Rissanen, Sami ; Sun, Simou ; Czogalla, Aleksander ; Cwiklik, Lukasz ; Róg, Tomasz ; Vattulainen, Ilpo ; Cremer, Paul S. ; Jungwirth, Pavel ; Coskun, Ünal. / **Calcium Directly Regulates Phosphatidylinositol 4,5-Bisphosphate Headgroup Conformation and Recognition**. In: Journal of the American Chemical Society. 2017 ; Vol. 139, No. 11. pp. 4019-4024.

Higashino, Tomohiro ; Nakatsuji, Hirotaka ; Fukuda, Ryosuke ; Okamoto, Haruki ; Imai, Hirohiko ; Matsuda, Tetsuya ; Tochio, Hidehito ; Shirakawa, Masahiro ; Tkachenko, Nikolai V. ; Hashida, Mijitsuru ; Murakami, Tatsuya ; Imahori, Hiroshi. / **Hexaphyrin as a Potential Theranostic Dye for Photothermal Therapy and <sup>19</sup>F Magnetic Resonance Imaging**. In: ChemBioChem. 2017 ; Vol. 18, No. 10. pp. 951-959.

Mah, Pei T. ; Novakovic, Dunja ; Saarinen, Jukka ; van Landeghem, Stijn ; Peltonen, Leena ; Laaksonen, Timo ; Isomäki, Antti ; Strachan, Clare J. / **Elucidation of Compression-Induced Surface Crystallization in Amorphous Tablets Using Sum Frequency Generation (SFG) Microscopy**. In: Pharmaceutical Research. 2017 ; Vol. 34, No. 5. pp. 957-970.

Honkanen, Mari ; Hansen, Thomas W. ; Jiang, Hua ; Kärkkäinen, Marja ; Huuhtanen, Mika ; Heikkinen, Olli ; Kallinen, Kauko ; Lahtinen, Jouko ; Keiski, Riitta L. ; Wagner, Jakob B. ; Vippola, Minnamari. / **Electron microscopic studies of natural gas oxidation catalyst – Effects of thermally accelerated aging on catalyst microstructure**. In: Journal of Catalysis. 2017 ; Vol. 349. pp. 19-29.

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

Kramb, Jason ; Gómez-Barea, Alberto ; DeMartini, Nikolai ; Romar, Henrik ; Doddapaneni, Tharaka Rama K. C. ; Konttinen, Jukka. / **The effects of calcium and potassium on CO<sub>2</sub> gasification of birch wood in a fluidized bed**. In: Fuel. 2017 ; Vol. 196. pp. 398-407.

Jones, R. O. ; Ahlstedt, O. ; Akola, J. ; Ropo, M. / **Density functional study of structure and dynamics in liquid antimony and Sb<sub>n</sub> clusters**. In: Journal of Chemical Physics. 2017 ; Vol. 146, No. 19.

Piccardi, A. ; Alberucci, A. ; Kravets, N. ; Buchnev, O. ; Assanto, G. / **Nematicon-enhanced spontaneous symmetry breaking**. In: Molecular Crystals and Liquid Crystals. 2017 ; Vol. 649, No. 1. pp. 59-65.

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

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

Railanmaa, Anna ; Lehtimäki, Suvi ; Lupo, Donald. / **Comparison of starch and gelatin hydrogels for non-toxic supercapacitor electrolytes**. In: Applied Physics A-Materials Science and Processing. 2017 ; Vol. 123, No. 6.

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

Nogueira, Idelfonso B.R. ; Ribeiro, Ana M. ; Martins, Márcio A.F. ; Rodrigues, Alírio E. ; Koivisto, Hannu ; Loureiro, José M. / **Dynamics of a True Moving Bed separation process : Linear model identification and advanced process control**. In: Journal of Chromatography A. 2017 ; Vol. 1504.

Suominen, Milla ; Lehtimäki, Suvi ; Yewale, Rahul ; Damlin, Pia ; Tuukkanen, Sampo ; Kvarnström, Carita. / **Electropolymerized polyazulene as active material in flexible supercapacitors**. In: Journal of Power Sources. 2017 ; Vol. 356. pp. 181-190.

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.

Pirjola, L. ; Rönkkö, T. ; Saukko, E. ; Parviainen, H. ; Malinen, A. ; Alanen, J. ; Saveljeff, H. / **Exhaust emissions of non-road mobile machine : Real-world and laboratory studies with diesel and HVO fuels**. In: Fuel. 2017 ; Vol. 202. pp. 154-164.

Itävuori, Pekka ; Hulthén, Erik ; Viikko, Matti. / **Feed-hopper level estimation and control in cone crushers**. In: Minerals Engineering. 2017 ; Vol. 110. pp. 82-95.

Timr, Štěpán ; Pleskot, Roman ; Kadlec, Jan ; Kohagen, Miriam ; Magarkar, Aniket ; Jungwirth, Pavel. / **Membrane Binding of Recoverin : From Mechanistic Understanding to Biological Functionality**. In: ACS Central Science. 2017 ; Vol. 3, No. 8. pp. 868-874.

Jain, Rohan ; Van Hullebusch, Eric D. ; Lenz, Markus ; Farges, François. / **Understanding selenium biogeochemistry in engineered ecosystems : Transformation and analytical methods**. Bioremediation of Selenium Contaminated Wastewater. Springer International Publishing, 2017. pp. 33-56

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.

Boardman, A. D. ; Alberucci, A. ; Assanto, G. ; Grimalsky, V. V. ; Kibler, B. ; McNiff, J. ; Nefedov, I. S. ; Rapoport, Yu G. ; Valagiannopoulos, C. A. / **Waves in hyperbolic and double negative metamaterials including rogues and solitons**. In: Nanotechnology. 2017 ; Vol. 28, No. 44.

Danne, Reinis ; Poojari, Chetan ; Martinez-Seara, Hector ; Rissanen, Sami ; Lolicato, Fabio ; Róg, Tomasz ; Vattulainen, Ilpo. / **DoGlycans-Tools for Preparing Carbohydrate Structures for Atomistic Simulations of Glycoproteins, Glycolipids, and Carbohydrate Polymers for GROMACS**. In: Journal of Chemical Information and Modeling. 2017 ; Vol. 57, No. 10. pp. 2401-2406.

Sippola, Roosa J. ; Hadipour, Afshin ; Kastinen, Tuuva ; Vivo, Paola ; Hukka, Terttu I. ; Aernouts, Tom ; Heiskanen, Juha P. / **Carbazole-based small molecule electron donors : Syntheses, characterization, and material properties.** In: Dyes and Pigments. 2017 ; Vol. 150. pp. 79-88.

Liimatainen, Ville ; Vuckovac, Maja ; Jokinen, Ville ; Sariola, Veikko ; Hokkanen, Matti J. ; Zhou, Quan ; Ras, Robin H.A. / **Mapping microscale wetting variations on biological and synthetic water-repellent surfaces.** In: Nature Communications. 2017 ; Vol. 8, No. 1.

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.

Tienaho, Jenni ; Poikulainen, Emmi ; Sarjala, Tytti ; Muilu-Mäkelä, Riina ; Santala, Ville ; Karp, Matti. / **A Bioscreening Technique for Ultraviolet Irradiation Protective Natural Substances.** In: Photochemistry and Photobiology. 2018 ; Vol. 94, No. 6. pp. 1273-1280.

Doddapaneni, Tharaka Rama Krishna C. ; Jain, Rohan ; Praveenkumar, Ramasamy ; Rintala, Jukka ; Romar, Henrik ; Konttinen, Jukka. / **Adsorption of furfural from torrefaction condensate using torrefied biomass.** In: Chemical Engineering Journal. 2018 ; Vol. 334. pp. 558-568.

Dessi, Paolo ; Porca, Estefania ; Haavisto, Johanna ; Lakaniemi, Aino-Maija ; Collins, Gavin ; Lens, Piet N.L. / **Composition and role of the attached and planktonic microbial communities in mesophilic and thermophilic xylose-fed microbial fuel cells.** In: RSC Advances. 2018 ; Vol. 8, No. 6. pp. 3069-3080.

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.

Ojha, N. ; Nguyen, H. ; Laihinne, T. ; Salminen, T. ; Lastusaari, M. ; Petit, L. / **Decomposition of persistent luminescent microparticles in corrosive phosphate glass melt.** In: Corrosion Science. 2018 ; Vol. 135. pp. 207-214.

D'Urso, Luisa ; Condorelli, Marcello ; Puglisi, Orazio ; Tempra, Carmelo ; Lolicato, Fabio ; Compagnini, Giuseppe ; La Rosa, Carmelo. / **Detection and characterization at nM concentration of oligomers formed by hIAPP, A $\beta$ (1-40) and their equimolar mixture using SERS and MD simulations.** In: Physical Chemistry Chemical Physics. 2018 ; Vol. 20, No. 31. pp. 20588-20596.

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.

Rokade, Shalaka S. ; Joshi, Komal A. ; Mahajan, Ketakee ; Patil, Saniya ; Tomar, Geetanjali ; Dubal, Dnyanesh S. ; Parihar, Vijay Singh ; Kitture, Rohini ; Bellare, Jayesh R. ; Ghosh, Sougata. / **Gloriosa superba Mediated Synthesis of Platinum and Palladium Nanoparticles for Induction of Apoptosis in Breast Cancer.** In: Bioinorganic Chemistry and Applications. 2018 ; Vol. 2018.

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.

Virkki, Matti ; Maurice, Anthony ; Forni, Alessandra ; Sironi, Maurizio ; Dichiarante, Valentina ; Brevet, Pierre Francois ; Metrangolo, Pierangelo ; Kauranen, Martti ; Priimagi, Arri. / **On the molecular optical nonlinearity of halogen-bond-forming azobenzenes**. In: Physical Chemistry Chemical Physics. 2018 ; Vol. 20, No. 45. pp. 28810-28817.

Sadiek, Ibrahim ; Mikkonen, Tommi ; Vainio, Markku ; Toivonen, Juha ; Foltynowicz, Aleksandra. / **Optical frequency comb photoacoustic spectroscopy**. In: Physical Chemistry Chemical Physics. 2018 ; Vol. 20, No. 44. pp. 27849-27855.

Honkanen, Mari ; Wang, Jianguang ; Kärkkäinen, Marja ; Huuhtanen, Mika ; Jiang, Hua ; Kallinen, Kauko ; Keiski, Riitta L. ; Akola, Jaakko ; Vippola, Minnamari. / **Regeneration of sulfur-poisoned Pd-based catalyst for natural gas oxidation**. In: Journal of Catalysis. 2018 ; Vol. 358. pp. 253-265.

Nykänen, Hannu ; Mpamah, Promise A. ; Rissanen, Antti J. / **Stable carbon isotopic composition of peat columns, subsoil and vegetation on natural and forestry-drained boreal peatlands**. In: Isotopes in Environmental and Health Studies. 2018 ; Vol. 54, No. 6.

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.

Kato, Daiki ; Sakai, Hayato ; Araki, Yasuyuki ; Wada, Takehiko ; Tkachenko, Nikolai V. ; Hasobe, Taku. / **Concentration-dependent photophysical switching in mixed self-assembled monolayers of pentacene and perylene diimide on gold nanoclusters**. In: Physical Chemistry Chemical Physics. 2018 ; Vol. 20, No. 13. pp. 8695-8706.

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.

Ojha, N. ; Tuomisto, M. ; Lastusaari, M. ; Petit, L. / **Upconversion from fluorophosphate glasses prepared with NaYF<sub>4</sub>:Er<sup>3+</sup>, Yb<sup>3+</sup> nanocrystals**. In: RSC Advances. 2018 ; Vol. 8, No. 34. pp. 19226-19236.

Das, Amit ; Sallat, Aladdin ; Böhme, Frank ; Sarlin, Essi ; Vuorinen, Jyrki ; Vennemann, Norbert ; Heinrich, Gert ; Stöckelhuber, Klaus Werner. / **Temperature scanning stress relaxation of an autonomous self-healing elastomer containing non-covalent reversible network junctions**. In: Polymers. 2018 ; Vol. 10, No. 1.

Barreca, Davide ; Carraro, Giorgio ; Maccato, Chiara ; Altantzis, Thomas ; Kaunisto, Kimmo ; Gasparotto, Alberto. / **Controlled Growth of Supported ZnO Inverted Nanopyramids with Downward Pointing Tips**. In: Crystal Growth and Design. 2018 ; Vol. 18, No. 4. pp. 2579-2587.

Iantovics, Laszlo Barna ; Dehmer, Matthias ; Emmert-Streib, Frank. / **MetriIntSimil-an accurate and robust metric for comparison of similarity in intelligence of any number of cooperative multiagent systems**. In: Symmetry. 2018 ; Vol. 10, 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.

Vale, Joao R. ; Rimpiläinen, Tatu ; Sievänen, Elina ; Rissanen, Kari ; Afonso, Carlos A.M. ; Candeias, Nuno R. / **Pot-economy autooxidative condensation of 2-Aryl-2-lithio-1,3-dithianes**. In: Journal of Organic Chemistry. 2018 ; Vol. 83, No. 4. pp. 1948-1958.

Kainulainen, Tuomo P. ; Sirviö, Juho A. ; Sethi, Jatin ; Hukka, Terttu I. ; Heiskanen, Juha P. / **UV-Blocking Synthetic Biopolymer from Biomass-Based Bifuran Diester and Ethylene Glycol**. In: *Macromolecules*. 2018 ; Vol. 51, No. 5. pp. 1822-1829.

Mehrang, Saeed ; Pietilä, Julia ; Korhonen, Ilkka. / **An activity recognition framework deploying the random forest classifier and a single optical heart rate monitoring and triaxial accelerometer wrist-band**. In: *Sensors*. 2018 ; Vol. 18, No. 2.

Hannula, Markku ; Ali-Löytty, 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.

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 ; Priimägi, 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.

Khan, Musammir ; Koivisto, Janne ; Hukka, Terttu ; Hokka, Mikko ; Kellomäki, Minna. / **Composite Hydrogels Using Bioinspired Approach with in Situ Fast Gelation and Self-Healing Ability as Future Injectable Biomaterial**. In: *ACS Applied Materials & Interfaces*. 2018 ; Vol. 10, No. 14. pp. 11950-11960.

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.

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.

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

Manninen, Hanna ; Rotola-Pukkila, Minna ; Aisala, Heikki ; Hopia, Anu ; Laaksonen, Timo. / **Free amino acids and 5'-nucleotides in Finnish forest mushrooms**. In: *Food Chemistry*. 2018 ; Vol. 247. pp. 23-28.

Raappana, Marianna ; Polojärvi, Ville ; Aho, Arto ; Mäkelä, Jaakko ; Aho, Timo ; Tukiainen, Antti ; Laukkanen, Pekka ; Guina, Mircea. / **Wet etching of dilute nitride GalnNAs, GalnNAsSb, and GaNAsSb alloys lattice-matched to GaAs**. In: *Corrosion Science*. 2018 ; Vol. 136. pp. 268-274.

Zhou, Kecheng ; Dichlberger, Andrea ; Martinez-Seara, Hector ; Nyholm, Thomas K.M. ; Li, Shiqian ; Kim, Young Ah ; Vattulainen, Ilpo ; Ikonen, Elina ; Blom, Tomas. / **A Ceramide-Regulated Element in the Late Endosomal Protein LAPTM4B Controls Amino Acid Transporter Interaction**. In: *ACS Central Science*. 2018 ; Vol. 4, No. 5. pp. 548-558.



Virkki, Kirsi ; Tervola, Essi ; Medel, Maria ; Torres, Tomás ; Tkachenko, Nikolai V. / **Effect of Co-Adsorbate and Hole Transporting Layer on the Photoinduced Charge Separation at the TiO<sub>2</sub>-Phthalocyanine Interface**. In: ACS Omega. 2018 ; Vol. 3, No. 5. pp. 4947-4958.

Pirhonen, Mikko ; Peltokangas, Mikko ; Vehkaoja, Antti. / **Acquiring respiration rate from photoplethysmographic signal by recursive bayesian tracking of intrinsic modes in time-frequency spectra**. In: Sensors. 2018 ; Vol. 18, No. 6.

Virtanen, Juhani ; Somppi, Sanni ; Törnqvist, Heini ; Jeyhani, Vala ; Fiedler, Patrique ; Gizatdinova, Yulia ; Majaranta, Päivi ; Väättäjä, Heli ; Cardó, Anna Valldeoriola ; Leikkala, Jukka ; Tuukkanen, Sampo ; Surakka, Veikko ; Vainio, Outi ; Vehkaoja, Antti. / **Evaluation of dry electrodes in canine heart rate monitoring**. In: Sensors. 2018 ; Vol. 18, No. 6.

Nair, Anju K. ; Bhavitha, K. B. ; Perumbilavil, Sreekanth ; Sankar, Pranitha ; Rouxel, Didier ; Kala, M. S. ; Thomas, Sabu ; Kalarikkal, Nandakumar. / **Multifunctional nitrogen sulfur co-doped reduced graphene oxide – Ag nano hybrids (sphere, cube and wire) for nonlinear optical and SERS applications**. In: Carbon. 2018 ; Vol. 132. pp. 380-393.

George, Lijo ; Hiltunen, Arto ; Santala, Ville ; Efimov, Alexander. / **Photo-antimicrobial efficacy of zinc complexes of porphyrin and phthalocyanine activated by inexpensive consumer LED lamp**. In: Journal of Inorganic Biochemistry. 2018 ; Vol. 183. pp. 94-100.

Siljander, Sanna ; Keinänen, Pasi ; Rätty, Anna ; Ramakrishnan, Karthik Ram ; Tuukkanen, Sampo ; Kunnari, Vesa ; Harlin, Ali ; Vuorinen, Jyrki ; Kanerva, Mikko. / **Effect of surfactant type and sonication energy on the electrical conductivity properties of nanocellulose-CNT nanocomposite films**. In: International Journal of Molecular Sciences. 2018 ; Vol. 19, No. 6.

Laurén, Patrick ; Paukkonen, Heli ; Lipiäinen, Tiina ; Dong, Yujiao ; Oksanen, Timo ; Räikkönen, Heikki ; Ehlers, Henrik ; Laaksonen, Päivi ; Yliperttula, Marjo ; Laaksonen, Timo. / **Pectin and Mucin Enhance the Bioadhesion of Drug Loaded Nanofibrillated Cellulose Films**. In: Pharmaceutical Research. 2018 ; Vol. 35, No. 7.

Rajala, Satu ; Schouten, Martijn ; Krijnen, Gijs ; Tuukkanen, Sampo. / **High Bending-Mode Sensitivity of Printed Piezoelectric Poly(vinylidene fluoride- co-trifluoroethylene) Sensors**. In: ACS Omega. 2018 ; Vol. 3, No. 7. pp. 8067-8073.

Hiltunen, Arto ; Ruoko, Tero-Petri ; Iivonen, Tomi ; Lahtonen, Kimmo ; Ali-Löytty, Harri ; Sarlin, Essi ; Valden, Mika ; Leskelä, Markku ; Tkachenko, Nikolai. / **Design aspects of all atomic layer deposited TiO<sub>2</sub>-Fe<sub>2</sub>O<sub>3</sub> scaffold-absorber photoanodes for water splitting**. In: Sustainable Energy & Fuels. 2018 ; Vol. 2, No. 9. pp. 2124-2130.

Tan, Lea Chua ; Espinosa-Ortiz, Erika J. ; Nancharaiyah, Yarlagadda V. ; van Hullebusch, Eric D. ; Gerlach, Robin ; Lens, Piet NI. / **Selenate removal in biofilm systems : Effect of nitrate and sulfate on selenium removal efficiency, biofilm structure and microbial community**. In: Journal of Chemical Technology and Biotechnology. 2018 ; Vol. 93, No. 8. pp. 2380-2389.

Mandal, Sadananda ; Garcia Iglesias, Miguel ; Ince, Mine ; Torres, Tomás ; Tkachenko, Nikolai V. / **Photoinduced Energy Transfer in ZnCdSeS Quantum Dot-Phthalocyanines Hybrids**. In: ACS Omega. 2018 ; Vol. 3, No. 8. pp. 10048-10057.

Nieminen, Ville ; Karjalainen, Markus ; Salminen, Katri ; Rantala, Jussi ; Kontunen, Anton ; Isokoski, Poika ; Müller, Philipp ; Kallio, Pasi ; Surakka, Veikko ; Leikkala, Jukka. / **A compact olfactometer for IMS measurements and testing human perception**. In: International Journal for Ion Mobility Spectrometry. 2018 ; Vol. 21, No. 3. pp. 71-80.

Hyväluoma, Jari ; Hannula, Markus ; Arstila, Kai ; Wang, Hailong ; Kulju, Sampo ; Rasa, Kimmo. / **Effects of pyrolysis temperature on the hydrologically relevant porosity of willow biochar**. In: Journal of Analytical and Applied Pyrolysis. 2018 ; Vol. 134.

Jermakka, Johannes ; Thompson Brewster, Emma ; Ledezma, Pablo ; Freguia, Stefano. / **Electro-concentration for chemical-free nitrogen capture as solid ammonium bicarbonate**. In: Separation and Purification Technology. 2018 ; Vol. 203. pp. 48-55.

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.

Heijne, Annemiek ter ; Liu, Dandan ; Sulonen, Mira ; Sleutels, Tom ; Fabregat-Santiago, Francisco. / **Quantification of bioanode capacitance in bioelectrochemical systems using Electrochemical Impedance Spectroscopy**. In: Journal of Power Sources. 2018 ; Vol. 400. pp. 533-538.

Tiihonen, Juha ; Kylänpää, Ilkka ; Rantala, Tapio T. / **Computation of Dynamic Polarizabilities and van der Waals Coefficients from Path-Integral Monte Carlo**. In: Journal of Chemical Theory and Computation. 2018 ; Vol. 14. pp. 5750-5763.

Tan, Lea Chua ; Nancharaiah, Yarlagadda V. ; Lu, Shipeng ; van Hullebusch, Eric D. ; Gerlach, Robin ; Lens, Piet N.L. / **Biological treatment of selenium-laden wastewater containing nitrate and sulfate in an upflow anaerobic sludge bed reactor at pH 5.0**. In: Chemosphere. 2018 ; Vol. 211. pp. 684-693.

Huttunen-Saarivirta, E. ; Isotahdon, E. ; Metsäjoki, J. ; Salminen, T. ; Carpén, L. ; Ronkainen, H. / **Tribocorrosion behaviour of aluminium bronze in 3.5 wt.% NaCl solution**. In: Corrosion Science. 2018 ; Vol. 144. pp. 207-223.

Chevrier, Daniel M. ; Raich, Lluís ; Rovira, Carme ; Das, Anindita ; Luo, Zhentao ; Yao, Qiaofeng ; Chatt, Amares ; Xie, Jianping ; Jin, Rongchao ; Akola, Jaakko ; Zhang, Peng. / **Molecular-Scale Ligand Effects in Small Gold-Thiolate Nanoclusters**. In: Journal of the American Chemical Society. 2018 ; Vol. 140, No. 45. pp. 15430-15436.

Sakai, Hayato ; Inaya, Ryutaro ; Tkachenko, Nikolai V. ; Hasobe, Taku. / **High-Yield Generation of Triplet Excited States by an Efficient Sequential Photoinduced Process from Energy Transfer to Singlet Fission in Pentacene-Modified CdSe/ZnS Quantum Dots**. In: Chemistry - A European Journal. 2018 ; Vol. 24, No. 64. pp. 17062-17071.

Rinne, Jukka ; Keskinen, Jari ; Berger, Paul R. ; Lupo, Donald ; Valkama, Mikko. / **M2M Communication Assessment in Energy-Harvesting and Wake-Up Radio Assisted Scenarios Using Practical Components**. In: Sensors (Basel, Switzerland) . 2018 ; Vol. 18, No. 11.

Uusheimo, Sari ; Huotari, Jussi ; Tulonen, Tiina ; Aalto, Sanni L. ; Rissanen, Antti J. ; Arvola, Lauri. / **High Nitrogen Removal in a Constructed Wetland Receiving Treated Wastewater in a Cold Climate**. In: Environmental science & technology. 2018 ; Vol. 52, No. 22. pp. 13343-13350.

Närhi, Mikko ; Salmela, Lauri ; Toivonen, Juha ; Billet, Cyril ; Dudley, John M. ; Genty, Goëry. / **Machine learning analysis of extreme events in optical fibre modulation instability**. In: Nature Communications. 2018 ; Vol. 9, No. 1.

Rimpiläinen, Tatu ; Andrade, Joana ; Nunes, Alexandra ; Ntungwe, Epole ; Fernandes, Ana S. ; Vale, Joao R. ; Rodrigues, Joao ; Gomes, Joao Paulo ; Rijo, Patricia ; Candeias, Nuno R. / **Aminobenzylated 4-Nitrophenols as Antibacterial Agents Obtained from 5-Nitrosalicylaldehyde through a Petasis Borono-Mannich Reaction**. In: ACS Omega. 2018 ; Vol. 3, No. 11. pp. 16191-16202.

Ferreira, Silvia A. ; Motwani, Meghna S. ; Faull, Peter A. ; Seymour, Alexis J. ; Yu, Tracy T.L. ; Enayati, Marjan ; Taheem, Dheraj K. ; Salzlechner, Christoph ; Haghghi, Tabasom ; Kania, Ewa M. ; Oommen, Oommen P. ; Ahmed, Tarek ; Loaiza, Sandra ; Parzych, Katarzyna ; Dazzi, Francesco ; Varghese, Oommen P. ; Festy, Frederic ; Grigoriadis, Agamemnon E. ; Auner, Holger W. ; Snijders, Ambrosius P. ; Bozec, Laurent ; Gentleman, Eileen. / **Bi-directional cell-pericellular matrix interactions direct stem cell fate**. In: Nature Communications. 2018 ; Vol. 9, No. 1.

Perumbilavil, Sreekanth ; Piccardi, Armando ; Barboza, Raouf ; Buchnev, Oleksandr ; Kauranen, Martti ; Strangi, Giuseppe ; Assanto, Gaetano. / **Beaming random lasers with soliton control**. In: Nature Communications. 2018 ; Vol. 9, No. 1.

Salmenjoki, Henri ; Alava, Mikko J. ; Laurson, Lasse. / **Machine learning plastic deformation of crystals**. In: Nature Communications. 2018 ; Vol. 9, No. 1.

Kotila, Tommi ; Kogan, Konstantin ; Enkavi, Giray ; Guo, Siyang ; Vattulainen, Ilpo ; Goode, Bruce L. ; Lappalainen, Pekka. / **Structural basis of actin monomer re-charging by cyclase-Associated protein**. In: Nature Communications. 2018 ; Vol. 9, No. 1.

Garifullin, Marsel. / **Experimental moment resistance of rectangular hollow section T joints**. In: MATEC Web of Conferences. 2018 ; Vol. 245.

Czaplicki, Robert ; Kiviniemi, Antti ; Huttunen, Mikko J. ; Zang, Xiaorun ; Stolt, Timo ; Vartiainen, Ismo ; Butet, Jérémy ; Kuittinen, Markku ; Martin, Olivier J.F. ; Kauranen, Martti. / **Less Is More : Enhancement of Second-Harmonic Generation from Metasurfaces by Reduced Nanoparticle Density**. In: Nano Letters. 2018 ; Vol. 18, No. 12. pp. 7709-7714.

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.

Levämäki, H. ; Tian, L.-Y. ; Vitos, L. ; Ropo, M. / **An automated algorithm for reliable equation of state fitting of magnetic systems**. In: Computational Materials Science. 2019 ; Vol. 156. pp. 121-128.

Umeyama, Tomokazu ; Hanaoka, Takuma ; Yamada, Hiroki ; Namura, Yuki ; Mizuno, Satoshi ; Ohara, Tomoya ; Baek, Jinseok ; Park, Jaehong ; Takano, Yuta ; Stranius, Kati ; Tkachenko, Nikolai V. ; Imahori, Hiroshi. / **Exclusive occurrence of photoinduced energy transfer and switching of its direction by rectangular  $\pi$ -extension of nanographenes**. In: Chemical Science. 2019 ; Vol. 10, No. 27. pp. 6642-6650.

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.

Tienaho, Jenni ; Karonen, Maarit ; Muilu-Mäkelä, Riina ; Wähälä, Kristiina ; Denegri, Eduardo Leon ; Franzén, Robert ; Karp, Matti ; Santala, Ville ; Sarjala, Tytti. / **Metabolic profiling of water-soluble compounds from the extracts of dark septate endophytic fungi (DSE) isolated from scots pine (Pinus sylvestris L.) seedlings using UPLC-orbitrap-MS**. In: Molecules. 2019 ; Vol. 24, No. 12.

Mandal, Sadananda ; Tkachenko, Nikolai V. / **Multiphoton Excitation of CsPbBr<sub>3</sub> Perovskite Quantum Dots (PQDs) : How Many Electrons Can One PQD Donate to Multiple Molecular Acceptors?**. In: Journal of Physical Chemistry Letters. 2019 ; pp. 2775-2781.

Guglielmetti, Simone ; Santala, Ville ; Mangayil, Rahul ; Ciranna, Alessandro ; Karp, Matti T. / **O<sub>2</sub>-requiring molecular reporters of gene expression for anaerobic microorganisms**. In: Biosensors and Bioelectronics. 2019 ; Vol. 123. pp. 1-6.

Anttalainen, Osmo ; Puton, Jaroslaw ; Kontunen, Anton ; Karjalainen, Markus ; Kumpulainen, Pekka ; Oksala, Niku ; Safaei, Zahra ; Roine, Antti. / **Possible strategy to use differential mobility spectrometry in real time applications**. In: International Journal for Ion Mobility Spectrometry. 2019.

Lemougna, Patrick N. ; Yliniemi, Juho ; Ismailov, Arnold ; Levänen, Erkki ; Tanskanen, Pekka ; Kinnunen, Paivo ; Roning, Juha ; Illikainen, Mirja. / **Spodumene tailings for porcelain and structural materials : Effect of temperature (1050–1200°C) on the sintering and properties**. In: Minerals Engineering. 2019.

Assoah, Benedicta ; Riihonen, Vesa ; Vale, João R. ; Valkonen, Arto ; Candeias, Nuno R. / **Synthesis of 6,12-disubstituted methanodibenzo[b,f][1,5]dioxocins : Pyrrolidine catalyzed self-condensation of 2'-Hydroxyacetophenones**. In: Molecules. 2019 ; Vol. 24, No. 13.

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.

Ghorbani, Modjtaba ; Dehmer, Matthias ; Mowshowitz, Abbe ; Tao, Jin ; Emmert-Streib, Frank. / **The Hosoya entropy of graphs revisited**. In: Symmetry. 2019 ; Vol. 11, No. 8.

Liu, Weijun ; Ban, Jingwen ; Feng, Lihua ; Cheng, Tao ; Emmert-Streib, Frank ; Dehmer, Matthias. / **The maximum Hosoya index of unicyclic graphs with diameter at most four**. In: Symmetry. 2019 ; Vol. 11, No. 8.

Bhagyaraj, Sneha ; Perumbilavil, Sreekanth ; Udayabashkar, R. ; Mangalaraja, R. V. ; Thomas, Sabu ; Kalarikkal, Nandakumar ; Oluwafemi, Oluwatobi Samuel. / **Tuning of nonlinear absorption in highly luminescent CdSe based quantum dots with core-shell and core/multi-shell architectures**. In: Physical Chemistry Chemical Physics. 2019 ; Vol. 21, No. 21. pp. 11424-11434.

Eregowda, Tejaswini ; Rene, Eldon R. ; Rintala, Jukka ; Lens, Piet N.L. / **Volatile fatty acid adsorption on anion exchange resins : kinetics and selective recovery of acetic acid**. In: Separation Science and Technology (Philadelphia). 2019.

Kuroda, Kiyonori ; Yazaki, Kohei ; Tanaka, Yuya ; Akita, Munetaka ; Sakai, Hayato ; Hasobe, Taku ; Tkachenko, Nikolai V. ; Yoshizawa, Michito. / **A Pentacene-based Nanotube Displaying Enriched Electrochemical and Photochemical Activities**. In: Angewandte Chemie - International Edition. 2019 ; Vol. 58, No. 4. pp. 1115-1119.

Ruoko, Tero-Petri ; Hiltunen, Arto ; Iivonen, Tomi ; Ulkuniemi, Riina ; Lahtonen, Kimmo ; Ali-Löyty, Harri ; Mizohata, Kenichiro ; Valden, Mika ; Leskelä, Markku ; Tkachenko, Nikolai V. / **Charge carrier dynamics in tantalum oxide overlayers and tantalum doped hematite photoanodes**. In: Journal of Materials Chemistry A. 2019 ; Vol. 7, No. 7. pp. 3206-3215.

Kerst, Thomas ; Malmbeck, Rikard ; Ial Banik, Nidhu L. ; Toivonen, Juha. / **Alpha radiation-induced luminescence by am-241 in aqueous nitric acid solution**. In: Sensors (Switzerland). 2019 ; Vol. 19, No. 7.

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.