

Kaleva, A. ; Tassaing, T. ; Saarimaa, V. ; Le Bourdon, G. ; Väisänen, P. ; Markkula, A. ; Levänen, E. / **Formation of corrosion products on zinc in wet supercritical and subcritical CO<sub>2</sub> : In-situ spectroscopic study.** In: Corrosion Science. 2020 ; Vol. 174.

Khan, Ramsha ; Ali-Löytty, Harri ; Saari, Jesse ; Valden, Mika ; Tukiainen, Antti ; Lahtonen, Kimmo ; Tkachenko, Nikolai V. / **Optimization of photogenerated charge carrier lifetimes in air grown TiO<sub>2</sub> for photonic applications.** In: Nanomaterials. 2020 ; Vol. 10, No. 8.

Ojha, N. ; Szczodra, A. ; Boetti, N. G. ; Massera, J. ; Petit, L. / **Nucleation and growth behavior of Er<sup>3+</sup> doped oxyfluorophosphate glasses.** In: RSC Advances. 2020 ; Vol. 10, No. 43. pp. 25703-25716.

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

Kattiparambil Rajan, Dhanesh. / **Modular Instrumentation for Controlling and Monitoring In-Vitro Cultivation Environment and Image-based Functionality Measurements of Human Stem Cells.** Tampere University, 2020. (Tampere University Dissertations).

Unban, Kridsada ; Khanongnuch, Ramita ; Kanpiengjai, Apinun ; Shetty, Kalidas ; Khanongnuch, Chartchai. / **Utilizing Gelatinized Starchy Waste from Rice Noodle Factory as Substrate for L(+)-Lactic Acid Production by Amyolytic Lactic Acid Bacterium Enterococcus faecium K-1.** In: Applied Biochemistry and Biotechnology. 2020.

Palmroth, Alekski ; Pitkänen, Sanna ; Hannula, Markus ; Paakinaho, Kaarlo ; Hyttinen, Jari ; Miettinen, Susanna ; Kellomäki, Minna. / **Evaluation of scaffold microstructure and comparison of cell seeding methods using micro-computed tomography-based tools.** In: Journal of the Royal Society. Interface. 2020 ; Vol. 17, No. 165.

Liu, Nian ; Santala, Suvi ; Stephanopoulos, Gregory. / **Mixed carbon substrates : a necessary nuisance or a missed opportunity?.** In: CURRENT OPINION IN BIOTECHNOLOGY. 2020 ; Vol. 62. pp. 15-21.

Adonias, Geofly L. ; Yastrebova, Anastasia ; Barros, Michael Taynnan ; Koucheryavy, Yevgeni ; Cleary, Frances ; Balasubramaniam, Sasitharan. / **Utilizing Neurons for Digital Logic Circuits : A Molecular Communications Analysis.** In: IEEE Transactions on Nanobioscience. 2020 ; Vol. 19, No. 2. pp. 224-236.

Hongisto, M. ; Veber, A. ; Boetti, N. G. ; Danto, S. ; Jubera, V. ; Petit, L. / **Transparent Yb<sup>3+</sup> doped phosphate glass-ceramics.** In: Ceramics International. 2020.

Bacakova, Lucie ; Pajorova, Julia ; Tomkova, Maria ; Matejka, Roman ; Broz, Antonin ; Stepanovska, Jana ; Prazak, Simon ; Skogberg, Anne ; Siljander, Sanna ; Kallio, Pasi. / **Applications of nanocellulose/nanocarbon composites : Focus on biotechnology and medicine.** In: Nanomaterials. 2020 ; Vol. 10, No. 2.

Olin, Miska ; Dal Maso, Miikka. / **CFD modeling the diffusional losses of nanocluster-sized particles and condensing vapors in 90° bends of circular tubes.** In: Journal of Aerosol Science. 2020 ; Vol. 150.

Di Vito, Donato ; Mosallaei, Milad ; Vahed, Behnam Khorramdel ; Kanerva, Mikko ; Mäntysalo, Matti. / **Deformability analysis and improvement in stretchable electronics systems through finite element analysis.** Proceedings of XXIV AIMETA Conference 2019. editor / Antonio Carcaterra ; Giorgio Graziani ; Achille Paolone. Springer, 2020. pp. 755-763 (Lecture Notes in Mechanical Engineering).

Haddad, Serj ; Harju, Jarkko ; Tarniceriu, Adrian ; Halkola, Tuomas ; Parak, Jakob ; Korhonen, Ilkka ; Yli-Hankala, Arvi ; Vehkaoja, Antti. / **Ectopic Beat Detection from Wrist Optical Signals for Sinus Rhythm and Atrial Fibrillation Subjects.** 15th Mediterranean Conference on Medical and Biological Engineering and Computing – MEDICON 2019 - Proceedings of MEDICON 2019. editor / Jorge Henriques ; Paulo de Carvalho ; Nuno Neves. Springer, 2020. pp. 150-158 (IFMBE Proceedings).

Moormann, Widukind ; Tellkamp, Tobias ; Stadler, Eduard ; Röhricht, Fynn ; Näther, Christian ; Puttreddy, Rakesh ; Rissanen, Kari ; Gescheidt, Georg ; Herges, Rainer. / **Efficient Conversion of Light to Chemical Energy : Directional, Chiral Photoswitches with Very High Quantum Yields**. In: *Angewandte Chemie - International Edition*. 2020 ; Vol. 59, No. 35. pp. 15081-15086.

Hannula, Markus ; Hyttinen, Jari A.K. ; Tanskanen, Jarno M.A. / **Enhancing CT 3D Images by Independent Component Analysis of Projection Images**. 15th Mediterranean Conference on Medical and Biological Engineering and Computing – MEDICON 2019 - Proceedings of MEDICON 2019. editor / Jorge Henriques ; Paulo de Carvalho ; Nuno Neves. Springer, 2020. pp. 381-389 (IFMBE Proceedings).

Gao, Haitao ; Tao, Jin ; Dehmer, Matthias ; Emmert-Streib, Frank ; Sun, Qinglin ; Chen, Zengqiang ; Xie, Guangming ; Zhou, Quan. / **In-flight wind field identification and prediction of parafoil systems**. In: *Applied Sciences (Switzerland)*. 2020 ; Vol. 10, No. 6.

Masood, Muhammad Talha ; Qudsia, Syeda ; Hadadian, Mahboubeh ; Weinberger, Christian ; Nyman, Mathias ; Ahläng, Christian ; Dahlström, Staffan ; Liu, Maning ; Vivo, Paola ; Österbacka, Ronald ; Smått, Jan Henrik. / **Investigation of well-defined pinholes in TiO<sub>2</sub> electron selective layers used in planar heterojunction perovskite solar cells**. In: *Nanomaterials*. 2020 ; Vol. 10, No. 1.

Hajdu-Rahkama, Réka ; Özkaya, Bestamin ; Lakaniemi, Aino Maija ; Puhakka, Jaakko A. / **Kinetics and modelling of thiosulphate biotransformations by haloalkaliphilic Thioalkalivibrio versutus**. In: *Chemical Engineering Journal*. 2020 ; Vol. 401.

Oliveira, Luís Miguel Cunha ; Koivisto, Hannu ; Iwakiri, Igor G.I. ; Loureiro, José M. ; Ribeiro, Ana M. ; Nogueira, Idelfonso B.R. / **Modelling of a pressure swing adsorption unit by deep learning and artificial intelligence tools**. In: *Chemical Engineering Science*. 2020 ; Vol. 224.

Banichuk, Nikolay ; Ivanova, Svetlana ; Jeronen, Juha. / **Moving Web and Dynamic Problem of Aerothermoelastic Vibrations and Instability**. *Advanced Problems in Mechanics: Proceedings of the 47th International Summer School-Conference on Advanced Problems in Mechanics, APM 2019*. editor / D.A. Indeitsev ; A.M. Krivtsov. Springer, 2020. pp. 66-71 (Lecture Notes in Mechanical Engineering).

Silvonen, Jussi ; Levänen, Erkki ; Uusitalo, Mikko. / **The thermal contact resistance of a steel-ceramic interface with oxide intermediates**. In: *Cogent Engineering*. 2020 ; Vol. 7, No. 1.

Dessi, Paolo ; Chatterjee, Pritha ; Mills, Simon ; Kokko, Marika ; Lakaniemi, Aino-Maija ; Collins, Gavin ; Lens, Piet N.L. / **Power production and microbial community composition in thermophilic acetate-fed up-flow and flow-through microbial fuel cells**. In: *Bioresource Technology*. 2019 ; Vol. 294.

Häkkinen, Antti ; Oliveira, Samuel M.D. ; Neeli-Venkata, Ramakanth ; Ribeiro, Andre S. / **Transcription closed and open complex formation coordinate expression of genes with a shared promoter region**. In: *Journal of the Royal Society Interface*. 2019 ; Vol. 16, No. 161.

Hajdu-Rahkama, Réka ; Ahoranta, Sarita ; Lakaniemi, Aino-Maija ; Puhakka, Jaakko A. / **Effects of elevated pressures on the activity of acidophilic bioleaching microorganisms**. In: *Biochemical Engineering Journal*. 2019 ; Vol. 150.

Saegusa, Toshiyuki ; Sakai, Hayato ; Nagashima, Hiroki ; Kobori, Yasuhiro ; Tkachenko, Nikolai V. ; Hasobe, Taku. / **Controlled Orientations of Neighboring Tetracene Units by Mixed Self-Assembled Monolayers on Gold Nanoclusters for High-Yield and Long-Lived Triplet Excited States through Singlet Fission**. In: *Journal of the American Chemical Society*. 2019 ; Vol. 141, No. 37. pp. 14720-14727.

Haavisto, Johanna ; Dessi, Paolo ; Chatterjee, Pritha ; Honkanen, Mari ; Noori, Md Tabish ; Kokko, Marika ; Lakaniemi, Aino Maija ; Lens, Piet N.L. ; Puhakka, Jaakko A. / **Effects of anode materials on electricity production from xylose and treatability of TMP wastewater in an up-flow microbial fuel cell**. In: *Chemical Engineering Journal*. 2019 ; Vol. 372. pp. 141-150.

Reshef, Orad ; Saad-Bin-Alam, Md ; Huttunen, Mikko J. ; Carlow, Graham ; Sullivan, Brian T. ; Ménard, Jean Michel ; Dolgaleva, Ksenia ; Boyd, Robert W. / **Multiresonant High-Q Plasmonic Metasurfaces**. In: Nano Letters. 2019 ; Vol. 19, No. 9. pp. 6429-6434.

Ylönen, Markku ; Franc, Jean Pierre ; Miettinen, Juha ; Saarenrinne, Pentti ; Fivel, Marc. / **Shedding frequency in cavitation erosion evolution tracking**. In: International Journal of Multiphase Flow. 2019 ; Vol. 118. pp. 141-149.

Wang, Shujiang ; Nawale, Ganesh N. ; Oommen, Oommen P. ; Hilborn, Jöns ; Varghese, Oommen P. / **Influence of ions to modulate hydrazone and oxime reaction kinetics to obtain dynamically cross-linked hyaluronic acid hydrogels**. In: Polymer Chemistry. 2019 ; Vol. 10, No. 31. pp. 4322-4327.

Fantozzi, Davide ; Matikainen, Ville ; Uusitalo, Mikko ; Koivuluoto, Heli ; Vuoristo, Petri. / **Chlorine induced high-temperature corrosion mechanisms in HVOF and HVAF sprayed Cr<sub>3</sub>C<sub>2</sub>-based hardmetal coatings**. In: Corrosion Science. 2019.

Pitkänen, S. ; Paakinaho, K. ; Pihlman, H. ; Ahola, N. ; Hannula, M. ; Asikainen, S. ; Manninen, M. ; Morelius, M. ; Keränen, P. ; Hyttinen, J. ; Kellomäki, M. ; Laitinen-Vapaavuori, O. ; Miettinen, S. / **Characterisation and in vitro and in vivo evaluation of supercritical-CO<sub>2</sub>-foamed β-TCP/PLCL composites for bone applications**. In: European cells & materials. 2019 ; Vol. 38. pp. 35-50.

Salmela, Milla ; Lehtinen, Tapio ; Efimova, Elena ; Santala, Suvi ; Santala, Ville. / **Alkane and wax ester production from lignin-related aromatic compounds**. In: Biotechnology and Bioengineering. 2019 ; Vol. 116, No. 8. pp. 1934-1945.

Solovyev, Aleksey I. ; Mikheyliis, Aleksandr V. ; Plyusnin, Victor F. ; Shubin, Aleksandr A. ; Grivin, Vjacheslav P. ; Larionov, Stanislav V. ; Tkachenko, Nikolai V. ; Lemmetyinen, Helge. / **Photochemistry of dithiophosphinate Ni(S<sub>2</sub>P(i-Bu)<sub>2</sub>)<sub>2</sub> complex in CCl<sub>4</sub>. Transient species and TD-DFT calculations**. In: Journal of Photochemistry and Photobiology A: Chemistry. 2019 ; Vol. 381.

Kezilebieke, Shawulienu ; Žitko, Rok ; Dvorak, Marc ; Ojanen, Teemu ; Liljeroth, Peter. / **Observation of Coexistence of Yu-Shiba-Rusinov States and Spin-Flip Excitations**. In: Nano Letters. 2019 ; Vol. 19, No. 7. pp. 4614-4619.

Jackson, T. ; Shenkin, A. ; Moore, J. ; Bunce, A. ; van Emmerik, T. ; Kane, B. ; Burcham, D. ; James, K. ; Selker, J. ; Calders, K. ; Origo, N. ; Disney, M. ; Burt, A. ; Wilkes, P. ; Raunonen, P. ; Gonzalez de Tanago Menaca, J. ; Lau, A. ; Herold, M. ; Goodman, R. C. ; Fourcaud, T. ; Malhi, Y. / **An architectural understanding of natural sway frequencies in trees**. In: Journal of the Royal Society. Interface. 2019 ; Vol. 16, No. 155.

Sautter, Jürgen D. ; Xu, Lei ; Miroshnichenko, Andrey E. ; Lysevych, Mykhaylo ; Volkovskaya, Irina ; Smirnova, Daria A. ; Camacho-Morales, Rocio ; Zangeneh Kamali, Khosro ; Karouta, Fouad ; Vora, Kaushal ; Tan, Hoe H. ; Kauranen, Martti ; Staude, Isabelle ; Jagadish, Chennupati ; Neshev, Dragomir N. ; Rahmani, Mohsen. / **Tailoring Second-Harmonic Emission from (111)-GaAs Nanoantennas**. In: Nano Letters. 2019 ; Vol. 19, No. 6. pp. 3905-3911.

Halonen, Heidi T. ; Hyttinen, Jari A.K. ; Ihalainen, Teemu O. / **Miniaturized stimulator for imaging of live cell responses to high frequency mechanical vibration**. CMBEBIH 2019 - Proceedings of the International Conference on Medical and Biological Engineering. editor / Almir Badnjevic ; Lejla Gurbeta Pokvić ; Ranko Škrbić ; Almir Badnjevic ; Lejla Gurbeta Pokvić. Springer Verlag, 2019. pp. 21-27 (IFMBE Proceedings).

Manna, Moutusi ; Nieminen, Tuomo ; Vattulainen, Ilpo. / **Understanding the Role of Lipids in Signaling Through Atomistic and Multiscale Simulations of Cell Membranes**. In: ANNUAL REVIEW OF BIOPHYSICS. 2019 ; Vol. 48. pp. 421-439.

Luo, Jin ; Lehtinen, Tapio ; Efimova, Elena ; Santala, Ville ; Santala, Suvi. / **Synthetic metabolic pathway for the production of 1-alkenes from lignin-derived molecules**. In: Microbial Cell Factories. 2019 ; Vol. 18, No. 1.

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

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

Pekkanen, Timo T. ; Timonen, Raimo S. ; Lendvay, György ; Rissanen, Matti P. ; Eskola, Arkke J. / **Kinetics and thermochemistry of the reaction of 3-methylpropargyl radical with molecular oxygen.** In: PROCEEDINGS OF THE COMBUSTION INSTITUTE. 2019 ; Vol. 37, No. 1. pp. 299-306.

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.

Mänttari, Satu K. ; Oksa, Juha A.H. ; Virkkala, Jussi ; Pietilä, Julia A.K. / **Activity Level and Body Mass Index as Predictors of Physical Workload During Working Career.** In: Safety and Health at Work. 2019.

Soltani, A. ; Lahti, J. ; Järvelä, K. ; Laurikka, J. ; Kuokkala, V. T. ; Hokka, M. / **Characterization of the anisotropic deformation of the right ventricle during open heart surgery.** In: COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING. 2019.

Sankelo, Paula ; Jokisalo, Juha ; Nyman, Jonathan ; Vinha, Juha ; Sirén, Kai. / **Cost-optimal energy performance measures in a new daycare building in cold climate.** In: International Journal of Sustainable Energy. 2019 ; Vol. 38, No. 2. pp. 104-122.

Hannula, Markus ; Narra, Nathaniel ; Paakinaho, Kaarlo ; Haaparanta, Anne-Marie ; Kellomäki, Minna ; Hyttinen, Jari. /  **$\mu$ CT based characterization of biomaterial scaffold microstructure under compression.** World Congress on Medical Physics and Biomedical Engineering 2018. Springer, 2019. pp. 165-169 (IFMBE Proceedings; 3).

Väläkangas, Turo ; Hærvig, Jakob ; Kuuluvainen, Heino ; Dal Maso, Miikka ; Peltonen, Petteri ; Vuorinen, Ville. / **Deposition of dry particles on a fin-and-tube heat exchanger by a coupled soft-sphere DEM and CFD.** In: International Journal of Heat and Mass Transfer. 2019.

Hirvonen, Janne ; Jokisalo, Juha ; Heljo, Juhani ; Kosonen, Risto. / **Effect of apartment building energy renovation on hourly power demand.** In: International Journal of Sustainable Energy. 2019.

Suokas, Esa. / **Effect of polyolefin molecular structure on product properties in extrusion coating.** 17th Biennial TAPPI European PLACE Conference 2019. TAPPI Press, 2019. pp. 89-98

Lylykangas, J. ; Ilves, M. ; Venesvirta, H. ; Rantanen, V. ; Mäkelä, E. ; Vehkaoja, A. ; Verho, J. ; Lekkala, J. ; Rautiainen, M. ; Surakka, V. / **Electrical stimulation of eye blink in individuals with dry eye symptoms caused by chronic unilateral facial palsy.** CMBEBIH 2019 - Proceedings of the International Conference on Medical and Biological Engineering. editor / Almir Badnjevic ; Lejla Gurbeta Pokvić ; Ranko Škrbić ; Almir Badnjevic ; Lejla Gurbeta Pokvić. Springer Verlag, 2019. pp. 7-11 (IFMBE Proceedings).

Ahonen, Toni ; Hanski, Jyri ; Hyvärinen, Matti ; Kortelainen, Helena ; Uusitalo, Teuvo ; Vainio, Henri ; Kunttu, Susanna ; Koskinen, Kari. / **Enablers and barriers of smart data-based asset management services in industrial business networks.** Lecture Notes in Mechanical Engineering. Pleiades Publishing, 2019. pp. 51-60 (Lecture Notes in Mechanical Engineering).

Brobbey, Kofi Jocelyn ; Haapanen, Janne ; Tuominen, Mikko ; Mäkelä, Jyrki ; Gunell, Marianne ; Eerola, Erkki ; Saarinen, Jarkko J. ; Toivakka, Martti. / **High-speed production of antibacterial fabrics using liquid flame spray.** In: Textile Research Journal. 2019.

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

Sharma, Vipul ; Yiannacou, Kyriacos ; Karjalainen, Markus ; Lahtonen, Kimmo ; Valden, Mika ; Sariola, Veikko. / **Large-scale efficient water harvesting using bioinspired micro-patterned copper oxide nanoneedle surfaces and guided droplet transport**. In: Nanoscale Advances. 2019 ; Vol. 1, No. 10. pp. 4025-4040.

Lahti, Johanna. / **Market implementation of active and intelligent packaging-opportunities from a socio-economic perspective**. 17th Biennial TAPPI European PLACE Conference 2019. TAPPI Press, 2019. pp. 419-427

Halonen, Heidi T. ; Hyttinen, Jari A.K. ; Ihalainen, Teemu O. / **Mechanical impact stimulation platform tailored for high-resolution light microscopy**. In: HEALTH AND TECHNOLOGY. 2019.

Lahti, Johanna. / **Nanocellulose and Polylactic Acid Based Multilayer Coatings for Barrier Applications**. 17th Biennial TAPPI European PLACE Conference 2019. TAPPI Press, 2019. pp. 446-455

Martins, Daniel P. ; Barros, Michael Taynnan ; Balasubramaniam, Sasitharan. / **Quality and Capacity Analysis of Molecular Communications in Bacterial Synthetic Logic Circuits**. In: IEEE Transactions on Nanobioscience. 2019.

Chen, Xiaochen ; Ukkonen, Leena ; Virkki, Johanna. / **Reliability evaluation of wearable radio frequency identification tags : Design and fabrication of a two-part textile antenna**. In: Textile Research Journal. 2019 ; Vol. 89, No. 4.

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

Ayodele, Olumide Bolarinwa ; Cai, Rongsheng ; Wang, Jianguang ; Ziouani, Yasmine ; Liang, Zhifu ; Spadaro, Maria Chiara ; Kovnir, Kirill ; Arbiol, Jordi ; Akola, Jaakko ; Palmer, Richard E. ; Kolen'Ko, Yury V. / **Synergistic Computational-Experimental Discovery of Highly Selective PtCu Nanocluster Catalysts for Acetylene Semihydrogenation**. In: ACS CATALYSIS. 2019 ; pp. 451-457.

He, Han ; Chen, Xiaochen ; Ukkonen, Leena ; Virkki, Johanna. / **Textile-integrated three-dimensional printed and embroidered structures for wearable wireless platforms**. In: Textile Research Journal. 2019 ; Vol. 89, No. 4.

Latikka, Juha ; Eskola, Hannu. / **The electrical conductivity of human cerebrospinal fluid in vivo**. World Congress on Medical Physics and Biomedical Engineering 2018. Springer, 2019. pp. 773-776 (IFMBE Proceedings; 1).

Hirvonen, Janne ; Jokisalo, Juha ; Heljo, Juhani ; Kosonen, Risto. / **Towards the EU emissions targets of 2050 : optimal energy renovation measures of Finnish apartment buildings**. In: International Journal of Sustainable Energy. 2019 ; Vol. 38, No. 7.

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.

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.

Santala, Suvi ; Efimova, Elena ; Santala, Ville. / **Dynamic decoupling of biomass and wax ester biosynthesis in Acinetobacter baylyi by an autonomously regulated switch**. In: Metabolic Engineering Communications. 2018 ; Vol. 7.

Gasik, Michael ; Zühlke, Alexandra ; Haaparanta, Anne-Marie ; Muhonen, Virpi ; Laine, Kaisa ; Bilotsky, Yevgen ; Kellomäki, Minna ; Kiviranta, Ilkka. / **The importance of controlled mismatch of biomechanical compliances of implantable scaffolds and native tissue for articular cartilage regeneration**. In: *Frontiers in Bioengineering and Biotechnology*. 2018 ; Vol. 6, No. NOV.

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 Pétasis Borono-Mannich Reaction**. In: *ACS Omega*. 2018 ; Vol. 3, No. 11. pp. 16191-16202.

Sakai, Hayato ; Inaya, Ryutarō ; 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.

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.

Nogueira, Idelfonso B.R. ; Faria, Rui P.V. ; Requião, Reiner ; Koivisto, Hannu ; Martins, Márcio A.F. ; Rodrigues, Alírio E. ; Loureiro, José M. ; Ribeiro, Ana M. / **Chromatographic studies of n-Propyl Propionate : Adsorption equilibrium, modelling and uncertainties determination**. In: *Computers and Chemical Engineering*. 2018 ; Vol. 119. pp. 371-382.

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.

Pihlman, Hanna ; Keränen, Pauli ; Paakinaho, Kaarlo ; Linden, Jere ; Hannula, Markus ; Manninen, Iida Kaisa ; Hyttinen, Jari ; Manninen, Mikko ; Laitinen-Vapaavuori, Outi. / **Novel osteoconductive  $\beta$ -tricalcium phosphate/poly(L-lactide-co- $\epsilon$ -caprolactone) scaffold for bone regeneration : a study in a rabbit calvarial defect**. In: *Journal of Materials Science: Materials in Medicine*. 2018 ; Vol. 29, No. 10.

Martins, Daniel P. ; Leetanasaksakul, Kantinan ; Barros, Michael Taynnan ; Thamchaipenet, Arinthip ; Donnelly, William ; Balasubramaniam, Sasitharan. / **Molecular Communications Pulse-based Jamming Model for Bacterial Biofilm Suppression**. In: *IEEE Transactions on Nanobioscience*. 2018 ; Vol. 17, No. 4. pp. 533-542.

Dessi, Paolo ; Porca, Estefania ; Lakaniemi, Aino-Maija ; Collins, Gavin ; Lens, Piet N.L. / **Temperature control as key factor for optimal biohydrogen production from thermomechanical pulping wastewater**. In: *Biochemical Engineering Journal*. 2018 ; Vol. 137. pp. 214-221.

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.

Eregowda, Tejaswini ; Matanhike, Luck ; Rene, Eldon R. ; Lens, Piet N.L. / **Performance of a biotrickling filter for the anaerobic utilization of gas-phase methanol coupled to thiosulphate reduction and resource recovery through volatile fatty acids production**. In: *Bioresource Technology*. 2018 ; Vol. 263. pp. 591-600.

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.

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.

Lampio, K. ; Karvinen, R. / **A new method to optimize natural convection heat sinks**. In: Heat and Mass Transfer/Waerme- und Stoffuebertragung. 2018 ; Vol. 54, No. 8. pp. 2571-2580.

Tan, Lea Chua ; Espinosa-Ortiz, Erika J. ; Nancharaiyah, Yarlagadda V. ; van Hullebusch, Eric D. ; Gerlach, Robin ; Lens, Piet Nl. / **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.

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.

Kulju, S. ; Riegger, L. ; Koltay, P. ; Mattila, K. ; Hyväluoma, J. / **Fluid flow simulations meet high-speed video : Computer vision comparison of droplet dynamics**. In: Journal of Colloid and Interface Science. 2018 ; Vol. 522. pp. 48-56.

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.

Kokko, Marika ; Epple, Stefanie ; Gescher, Johannes ; Kerzenmacher, Sven. / **Effects of wastewater constituents and operational conditions on the composition and dynamics of anodic microbial communities in bioelectrochemical systems**. In: Bioresource Technology. 2018 ; Vol. 258. pp. 376-389.

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

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

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

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.

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.

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

Sutka, Andris ; Timusk, Martin ; Joost, Urmas ; Ignatans, Reinis ; Maiorov, Mikhail. / **Switchable light reflectance in dilute magneto-optical colloids based on nickel ferrite nanowires**. In: e-Journal of Surface Science and Nanotechnology. 2018 ; Vol. 16. pp. 119-121.

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.

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.

Åkerblom, Markku ; Raunonen, Pasi ; Casella, Eric ; Disney, Mathias I. ; Danson, F. Mark ; Gaulton, Rachel ; Schofield, Lucy A. ; Kaasalainen, Mikko. / **Non-intersecting leaf insertion algorithm for tree structure models**. In: Interface Focus. 2018 ; Vol. 8, No. 2.

Kaasalainen, Sanna ; Åkerblom, Markku ; Nevalainen, Olli ; Hakala, Teemu ; Kaasalainen, Mikko. / **Uncertainty in multispectral lidar signals caused by incidence angle effects**. In: Interface Focus. 2018 ; Vol. 8, No. 2.

Disney, M. I. ; Boni Vicari, M. ; Burt, A. ; Calders, K. ; Lewis, S. L. ; Raunonen, P. ; Wilkes, P. / **Weighing trees with lasers : Advances, challenges and opportunities**. In: Interface Focus. 2018 ; Vol. 8, No. 2.

Šutka, A. ; Vanags, M. ; Joost, U. ; Šmits, K. ; Ruža, J. ; Ločs, J. ; Kleperis, J. ; Juhna, T. / **Aqueous synthesis of Z-scheme photocatalyst powders and thin-film photoanodes from earth abundant elements**. In: Journal of Environmental Chemical Engineering. 2018 ; Vol. 6, No. 2. pp. 2606-2615.

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.

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

Lehtinen, Tapio ; Efimova, Elena ; Santala, Suvi ; Santala, Ville. / **Improved fatty aldehyde and wax ester production by overexpression of fatty acyl-CoA reductases**. In: Microbial Cell Factories. 2018 ; Vol. 17, No. 1.

Lopez-Iscoa, Pablo ; Pugliese, Diego ; Boetti, Nadia G. ; Janner, Davide ; Baldi, Giovanni ; Petit, Laetitia ; Milanese, Daniel. / **Design, synthesis, and structure-property relationships of Er<sup>3+</sup>-doped TiO<sub>2</sub> luminescent particles synthesized by sol-gel**. In: Nanomaterials. 2018 ; Vol. 8, No. 1.

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.

Miinalainen, T. ; Pursiainen, S. / **A case study of focal bayesian EEG inversion for whitney element source spaces : Mesh-based vs. cartesian orientations**. EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 1065-1068 (IFMBE Proceedings).

Koivumäki, Janne ; Zhu, Wen Hong ; Mattila, Jouni. / **Addressing closed-chain dynamics for high-precision control of hydraulic cylinder actuated manipulators**. BATH/ASME 2018 Symposium on Fluid Power and Motion Control, FPMC 2018. ASME, 2018.

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.



Havela, R. ; Manninen, T. ; Linne, M. L. / **Altered synaptic signaling due to  $\beta$ -amyloid interference in astrocytes : A modeling study.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 679-682 (IFMBE Proceedings).

Nurmi, Jarmo ; Aref, Mohammad M. ; Mattila, Jouni. / **A neural network strategy for learning of nonlinearities toward feed-forward control of pressure-compensated hydraulic valves with a significant dead zone.** BATH/ASME 2018 Symposium on Fluid Power and Motion Control, FPMC 2018. ASME, 2018.

Lylykangas, J. ; Ilves, M. ; Venesvirta, H. ; Rantanen, V. ; Mäkelä, E. ; Vehkaoja, A. ; Verho, J. ; Lekkala, J. ; Rautiainen, M. ; Surakka, V. / **Artificial eye blink pacemaker - A first investigation into the blink production using constant-interval electrical stimulation.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 522-525 (IFMBE Proceedings).

Palma, Cristina S.D. ; Startceva, Sofia ; Neeli-Venkata, Ramakanth ; Zare, Marzieh ; Goncalves, Nadia S.M. ; Fonseca, Jose M. ; Oliveira, Samuel M.D. ; Ribeiro, Andre S. / **A strategy for dissecting the kinetics of transcription repression mechanisms.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 1097-1100 (IFMBE Proceedings).

Rezaei Yousefi, Zeinab ; Parak, Jakub ; Tarniceriu, Adrian ; Harju, Jarkko ; Yli-Hankala, Arvi ; Korhonen, Ilkka ; Vehkaoja, Antti. / **Atrial fibrillation detection from wrist photoplethysmography data using artificial neural networks.** World Congress on Medical Physics and Biomedical Engineering 2018. Vol. 2 Springer, 2018. pp. 399-404 (IFMBE Proceedings).

Ilvesmäki, T. ; Hakulinen, U. ; Eskola, H. / **Automated pipeline for brain ROI analysis with results comparable to previous freehand measures in clinical settings.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 635-638 (IFMBE Proceedings).

Pirhonen, Mikko ; Suominen, Olli ; Vehkaoja, A. / **Auto-regression-driven, reallocative particle filtering approaches in PPG-based respiration rate estimation.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 1020-1024 (IFMBE Proceedings).

Lampinen, Santeri ; Koivumäki, Janne ; Mattila, Jouni. / **Bilateral teleoperation of a hydraulic robotic manipulator in contact with physical and virtual constraints.** BATH/ASME 2018 Symposium on Fluid Power and Motion Control, FPMC 2018. ASME, 2018.

Ojansivu, M. ; Wang, X. ; Hyväri, L. ; Kellomäki, M. ; Hupa, L. ; Vanhatupa, S. ; Miettinen, S. / **Bioactive glass induced osteogenic differentiation of human adipose stem cells is dependent on cell attachment mechanism and mitogen-activated protein kinases.** In: European Cells and Materials. 2018 ; Vol. 35. pp. 53-71.

Korkka, I. ; Johansson, J. K. ; Skottman, H. ; Hyttinen, J. ; Nymark, S. / **Characterization of chloride channels in human embryonic stem cell derived retinal pigment epithelium.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 454-457 (IFMBE Proceedings).

Helander, E. ; Khodor, N. ; Kallonen, A. ; Värrä, A. ; Patural, H. ; Carrault, G. ; Pladys, P. / **Comparison of linear and non-linear heart rate variability indices between preterm infants at their theoretical term age and full term newborns.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 153-156 (IFMBE Proceedings).

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.

Koskela, O. ; Pursiainen, S. ; Belay, B. ; Montonen, T. ; Figueiras, E. ; Hyttinen, J. / **Computational model for multifocal imaging in optical projection tomography and numerical analysis of all-in-focus fusion in tomographic image reconstruction** . EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 282-285 (IFMBE Proceedings).

Väläkangas, Turo ; Karvinen, Reijo. / **Conjugated Heat Transfer Simulation of a Fin-and-Tube Heat Exchanger.** In: Heat Transfer Engineering. 2018 ; Vol. 39, No. 13-14. pp. 1192-1200.

Lipping, T. ; Erkintalo, N. ; Särkelä, M. ; Takala, R. S.K. ; Katila, A. ; Frantzén, J. ; Posti, J. P. ; Müller, M. ; Tenovuo, O. / **Connectivity analysis of full montage EEG in traumatic brain injury patients in the ICU.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 97-100 (IFMBE Proceedings).

Hernando, D. ; Kähönen, M. ; Lázaro, J. ; Lehtinen, R. ; Nieminen, T. ; Nikus, K. ; Lehtimäki, T. ; Bailón, R. ; Viik, J. / **Coronary artery disease diagnosis by means of heart rate variability analysis using respiratory information.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 270-273 (IFMBE Proceedings).

Olejarczyk, Elzbieta ; Lipping, T. ; Marciniak, R. / **Correlation of depth of anesthesia indexes with MAC in volatile anesthesia.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 972-975 (IFMBE Proceedings).

Ojha, N. ; Nguyen, H. ; Laihininen, 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.

Tenhunen, Mirja ; Hyttinen, J. ; Viik, J. ; Perez-Macias, Jose Maria ; Himanen, S. L. / **Detection and assessment of sleep-disordered breathing with emfit mattress.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 173-176 (IFMBE Proceedings).

Danaee, Siavash ; Nurmi, Jarmo ; Minav, Tatiana ; Mattila, Jouni ; Pietola, Matti. / **Direct position control of electro-hydraulic excavator.** BATH/ASME 2018 Symposium on Fluid Power and Motion Control, FPMC 2018. ASME, 2018.

Joutsen, Atte S. ; Kaappa, Emma S. ; Karinsalo, Tapio J. ; Vanhala, Jukka. / **Dry electrode sizes in recording ECG and heart rate in wearable applications.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 735-738 (IFMBE Proceedings).

Tikkanen, Seppo ; Ahola, Ville ; Koskela, Elias. / **Effect of driver and work cycle on losses of a loader.** BATH/ASME 2018 Symposium on Fluid Power and Motion Control, FPMC 2018. ASME, 2018.

Khanongnuch, Ramita ; Di Capua, Francesco ; Lakaniemi, Aino-Maija ; Rene, Eldon R. ; Lens, Piet N.L. / **Effect of N/S ratio on anoxic thiosulfate oxidation in a fluidized bed reactor : Experimental and artificial neural network model analysis.** In: Process Biochemistry. 2018 ; Vol. 68. pp. 171-181.

Alametsä, Jarmo ; Viik, Jari. / **Effects of nitroglycerin to ballistocardiography by EMFi.** World Congress on Medical Physics and Biomedical Engineering 2018. Vol. 2 Springer, 2018. pp. 541-545 (IFMBE Proceedings).

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.

Jääntti, Ville ; Subramaniam, Narayan Puthanmadam ; Kamata, Kotoe ; Ylinen, Tuomo ; Yli-Hankala, Arvi ; Kauppinen, Pasi ; Väisänen, Outi. / **Electric field of eeg during anesthesia.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 354-357 (IFMBE Proceedings).

Chamrad, J. ; Marcián, P. ; Narra, N. ; Borák, L. / **Evaluating different shapes of cranial fixation mini-plates using finite element method.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 747-750 (IFMBE Proceedings).

Pietilä, J. ; Mehrang, S. ; Tolonen, J. ; Helander, E. ; Jimison, H. ; Pavel, M. ; Korhonen, I. / **Evaluation of the accuracy and reliability for photoplethysmography based heart rate and beat-to-beat detection during daily activities.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 145-148 (IFMBE Proceedings).

Välikangas, Turo ; Singh, Shobhana ; Sørensen, Kim ; Condra, Thomas. / **Fin-and-tube heat exchanger enhancement with a combined herringbone and vortex generator design.** In: International Journal of Heat and Mass Transfer. 2018 ; Vol. 118. pp. 602-616.

Koskela, Olli ; Lehti-Polojärvi, Mari ; Seppänen, Aku ; Figueiras, Edite ; Hyttinen, Jari. / **Finite element mapping for efficient image reconstruction in rotational electrical impedance tomography.** World Congress on Medical Physics and Biomedical Engineering 2018. Vol. 2 Springer, 2018. pp. 901-904 (IFMBE Proceedings).

Mäkinen, Petri ; Dmitrochenko, Oleg ; Mattila, Jouni. / **Floating frame of reference formulation for a flexible manipulator with hydraulic actuation - Modelling and experimental validation.** BATH/ASME 2018 Symposium on Fluid Power and Motion Control, FPMC 2018. ASME, 2018.

Vuorinen, T. ; Laurila, M. M. ; Mangayil, R. ; Karp, M. ; Mäntysalo, M. / **High resolution E-jet printed temperature sensor on artificial skin.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 839-842 (IFMBE Proceedings).

Mehrang, Saeed ; Pietilä, Julia ; Tolonen, Johanna ; Helander, Elina ; Jimison, Holly ; Pavel, Misha ; Korhonen, Ilkka. / **Human activity recognition using a single optical heart rate monitoring wristband equipped with triaxial accelerometer.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 587-590 (IFMBE Proceedings).

Hassan, Syeda Sakira ; Mangayil, Rahul ; Aho, Tommi ; Yli-Harja, Olli ; Karp, Matti. / **Identification of feasible pathway information for c-di-GMP binding proteins in cellulose production.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 667-670 (IFMBE Proceedings).

Teppola, H. ; Sarkanen, J. R. ; Jalonen, T. O. ; Linne, M. L. / **Impacts of laminin and polyethyleneimine surface coatings on morphology of differentiating human SH-SY5Y cells and networks.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 298-301 (IFMBE Proceedings).

Ince, T. ; Zabihi, M. ; Kiranyaz, S. ; Gabbouj, M. / **Learned vs. hand-designed features for ECG beat classification : A comprehensive study.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 551-554 (IFMBE Proceedings).

Jauhainen, Milla ; Gracia, J. ; Seppä, V. P. ; Mahrberg, H. ; Tuomisto, L. ; Laurikka, J. ; Viik, J. / **Linearity of simultaneously recorded impedance pneumography and direct pneumotachography in thoracic surgery patients.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 1077-1080 (IFMBE Proceedings).

Kontunen, A. ; Rantanen, V. ; Vehkaoja, A. ; Ilves, M. ; Lylykangas, J. ; Mäkelä, E. ; Rautiainen, M. ; Surakka, V. ; Lekkala, J. / **Low-latency EMG onset and termination detection for facial pacing.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 1016-1019 (IFMBE Proceedings).

Linjama, Matti. / **Model-based control of a digital hydraulic transformer-based hybrid actuator.** BATH/ASME 2018 Symposium on Fluid Power and Motion Control, FPMC 2018. ASME, 2018.

Acar, E. ; Baikoghli, M. A. ; Stark, M. ; Peltonen, S. ; Ruotsalainen, U. ; Cheng, R. H. / **Multiresolution MAPEM method for 3D reconstruction of symmetrical particles with electron microscopy.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 141-144 (IFMBE Proceedings).

Jokinen, V.I. ; Korpela, J. ; Lehtinen, E. ; Perttunen, J. ; Viik, J. / **Nocturnal use of light compression garments and recovery.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 125-128 (IFMBE Proceedings).

Milagro, J. ; Gil, E. ; Bolea, J. ; Seppä, V. P. ; Malmberg, L. P. ; Pelkonen, A. S. ; Kotaniemi-Syrjänen, A. ; Mäkelä, M. J. ; Viik, J. ; Bailón, R. / **Nonlinear dynamics of heart rate variability in children with asthmatic symptoms.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Vol. 65 Springer Verlag, 2018. pp. 815-818 (IFMBE Proceedings).

Gracia, J. ; Seppä, V. P. ; Pelkonen, A. ; Kotaniemi-Syrjänen, A. ; Mäkelä, M. ; Malmberg, P. ; Viik, J. / **Nonlinear local projection filter for impedance pneumography.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Singapore : Springer Verlag, 2018. pp. 306-309 (IFMBE Proceedings).

Belay, B. ; Koivisto, J. T. ; Vuornos, K. ; Montonen, T. ; Koskela, O. ; Lehti-Polojärvi, M. ; Miettinen, S. ; Kellomäki, M. ; Figueiras, E. ; Hyttinen, J. / **Optical projection tomography imaging of single cells in 3D gellan gum hydrogel.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 996-999 (IFMBE Proceedings).

Tunninen, V. ; Kauppinen, T. ; Eskola, H. / **Optimization of  $^{99m}\text{Tc}$ -sestamibi/ $^{123}\text{I}$  subtraction SPECT/CT protocol for parathyroid scintigraphy.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 847-851 (IFMBE Proceedings).

Losoi, Pauli ; Aho, Tommi. / **Pathvalue : Pathways with value.** EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 583-586 (IFMBE Proceedings).

Kaappa, E. S. ; Joutsen, A. S. ; Vanhala, J. / **Performance analysis of novel flexible electrodes for wearable ECG/heart rate monitoring**. EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 237-240 (IFMBE Proceedings).

Tunninen, V. ; Kauppinen, T. ; Eskola, H. / **Physical characteristics of collimators for dual-isotope imaging with <sup>99m</sup>Tc and <sup>123</sup>I**. EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 245-249 (IFMBE Proceedings).

Zhu, Lingyu ; Kesseli, Juha ; Nykter, Matti ; Huttunen, Heikki. / **Predicting gene expression levels from histone modification signals with convolutional recurrent neural networks**. EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 555-558 (IFMBE Proceedings).

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.

Gering, C. ; Koivisto, J. T. ; Parraga, J. E. ; Kellomäki, M. / **Reproducible preparation method of hydrogels for cell culture applications – Case study with spermidine crosslinked gellan gum**. EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 811-814 (IFMBE Proceedings).

Rantanen, Ville ; Vehkaoja, Antti ; Verho, Jarmo. / **Stimulation waveform selection to suppress functional electrical stimulation artifact from surface EMG signals**. EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 422-425 (IFMBE Proceedings).

Ryynänen, Tomi ; Lekkala, Jukka. / **Temperature effect on the baseline noise in MEA measurements**. EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 5-8 (IFMBE Proceedings).

Koivisto, J.T. ; Koskela, O. ; Montonen, T. ; Parraga, J. E. ; Joki, T. ; Ylä-Outinen, L. ; Narkilahti, S. ; Figueiras, E. ; Hyttinen, J. ; Kellomäki, M. / **Texture-property relations of bioamine crosslinked gellan gum hydrogels**. EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 189-192 (IFMBE Proceedings).

Perez-Macias, Jose Maria ; Viik, Jari ; Värrä, Alpo ; Himanen, Sari-Leena ; Tenhunen, Mirja. / **Time characteristics of prolonged partial obstruction periods using an Emfit mattress**. EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 775-778 (IFMBE Proceedings).

Alametsä, J. ; Viik, J. / **Twelve years follow-up of ballistocardiography**. EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 1117-1120 (IFMBE Proceedings).

Mulholland, Kyle ; Virkki, J. ; Raunonen, P. ; Merilampi, S. / **Wearable RFID perspiration sensor tags for well-being applications – From laboratory to field use**. EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2018. pp. 1012-1015 (IFMBE Proceedings).

Väliheikki, Ari ; Kärkkäinen, Marja ; Honkanen, Mari ; Heikkinen, Olli ; Kolli, Tanja ; Kallinen, Kauko ; Huuhtanen, Mika ; Vippola, Minnamari ; Lahtinen, Jouko ; Keiski, Riitta L. / **Deactivation of Pt/SiO<sub>2</sub>-ZrO<sub>2</sub> diesel oxidation catalysts by sulphur, phosphorus and their combinations**. In: Applied Catalysis B-Environmental. 2017 ; Vol. 218. pp. 409-419.

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

George, Lijo ; Müller, Alexander ; Röder, Beate ; Santala, Ville ; Efimov, Alexander. / **Photodynamic self-disinfecting surface using pyridinium phthalocyanine**. In: Dyes and Pigments. 2017 ; Vol. 147. pp. 334-342.

Lehtinen, Tapio ; Efimova, Elena ; Tremblay, Pier Luc ; Santala, Suvi ; Zhang, Tian ; Santala, Ville. / **Production of long chain alkyl esters from carbon dioxide and electricity by a two-stage bacterial process**. In: Bioresource Technology. 2017 ; Vol. 243. pp. 30-36.

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.

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.

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

Uddin, Rokan ; Nur-E-Habiba, N. ; Rena, Graham ; Hwu, En Te ; Boisen, Anja. / **New Evidence for the Mechanism of Action of a Type-2 Diabetes Drug Using a Magnetic Bead-Based Automated Biosensing Platform**. In: ACS Sensors. 2017 ; Vol. 2, No. 9. pp. 1329-1336.

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

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.

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.

Di Capua, Francesco ; Milone, Ivana ; Lakaniemi, Aino-Maija ; Hullebusch, Eric D.van ; Lens, Piet N.L. ; Esposito, Giovanni. / **Effects of different nickel species on autotrophic denitrification driven by thiosulfate in batch tests and a fluidized-bed reactor**. In: Bioresource Technology. 2017 ; Vol. 238. pp. 534-541.

Kaleva, Aaretti ; Saarimaa, Ville ; Heinonen, Saara ; Nikkanen, Juha-Pekka ; Markkula, Antti ; Väisänen, Pasi ; Levänen, Erkki. / **Dissolution-induced nanowire synthesis on hot-dip galvanized surface in supercritical carbon dioxide**. In: Nanomaterials. 2017 ; Vol. 7, No. 7.

Kramb, Jason ; Gómez-Barea, Alberto ; DeMartini, Nikolai ; Romar, Henrik ; Doddapaneni, Tharaka Rama K. C. ; Kontinen, 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.

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.

Koivisto, Janne T. ; Joki, Tiina ; Parraga, Jenny E. ; Paakkönen, Rami ; Ylä-Outinen, Laura ; Salonen, Laura ; Jönkkäri, Ilari ; Peltola, Marja ; Ihalainen, Teemu O. ; Narkilahti, Susanna ; Kellomäki, Minna. / **Bioamine-crosslinked gellan gum hydrogel for neural tissue engineering**. In: Biomedical Materials. 2017 ; Vol. 12, No. 2.

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.

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.

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.

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 ; Kamppuri, 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.

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

Mal, J. ; Nancharaiah, Y. V. ; van Hullebusch, E. D. ; Lens, P. N.L. / **Biological removal of selenate and ammonium by activated sludge in a sequencing batch reactor**. In: Bioresource Technology. 2017 ; Vol. 229. pp. 11-19.

Tao, Ran ; Lakaniemi, Aino-Maija ; Rintala, Jukka A. / **Cultivation of *Scenedesmus acuminatus* in different liquid digestates from anaerobic digestion of pulp and paper industry biosludge**. In: Bioresource Technology. 2017 ; Vol. 245, No. A. pp. 706-713.

Peltokangas, M. ; Telembeci, A.A. ; Verho, J. ; Lekkala, J. ; Vehkaoja, A. ; Oksala, N. / **Day-to-day repeatability of the results of the finger-toe-plot analysis**. EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2017. pp. 534-537 (IFMBE Proceedings).

Nogueira, Idelfonso B.R. ; Ribeiro, Ana M. ; Rodrigues, Alirio E. ; Loureiro, José M. / **Dynamic response to process disturbances—A comparison between TMB/SMB models in transient regime**. In: Computers and Chemical Engineering. 2017 ; Vol. 99. pp. 230-244.

Tuohimäki, Katariina ; Mahdiani, S. ; Jeyhani, V. ; Vehkaoja, A. ; Iso-Ketola, P. ; Vanhala, J. ; Viik, J. ; Mäntysalo, M. / **Electrode comparison for textile-integrated electrocardiogram and impedance pneumography measurement**. EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the

Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Vol. 65 Springer Verlag, 2017. pp. 302-305 (IFMBE Proceedings).

Eskola, Hannu (Editor) ; Väisänen, Outi (Editor) ; Viik, Jari (Editor) ; Hyttinen, Jari (Editor). / **EMBEC & NBC 2017 : Joint Conference of the European Medical and Biological Engineering Conference (EMBEC) and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC), Tampere, Finland, June 2017**. Springer, 2017. 1139 p. (IFMBE Proceedings).

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 nano-coatings**. In: KONA POWDER AND PARTICLE JOURNAL. 2017 ; Vol. 2017, No. 34. pp. 141-154.

Peltokangas, M. ; Huotari, M. ; Verho, J. ; Mattila, V. M. ; Röning, J. ; Ronsi, P. ; Lekkala, J. ; Vehkaoja, A. ; Oksala, N. / **Short-term stability of combined finger and toe photoplethysmogram analysis**. EMBEC and NBC 2017 - Joint Conference of the European Medical and Biological Engineering Conference EMBEC 2017 and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics, NBC 2017. Springer Verlag, 2017. pp. 342-345 (IFMBE Proceedings).

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.

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.

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.

Kinnunen, V. ; Rintala, J. / **The effect of low-temperature pretreatment on the solubilization and biomethane potential of microalgae biomass grown in synthetic and wastewater media**. In: Bioresource Technology. 2016 ; Vol. 221. pp. 78-84.

Kim, Bohwa ; Praveenkumar, Ramasamy ; Lee, Jiye ; Nam, Bora ; Kim, Dong Myung ; Lee, Kyubock ; Lee, Young Chul ; Oh, You Kwan. / **Magnesium aminoclay enhances lipid production of mixotrophic *Chlorella* sp. KR-1 while reducing bacterial populations**. In: Bioresource Technology. 2016 ; Vol. 219. pp. 608-613.

Ramasamy, Praveen ; Kim, Bohwa ; Lee, Jiye ; Vijayan, Durairaj ; Lee, Kyubock ; Nam, Bora ; Jeon, Sang Goo ; Kim, Dong Myung ; Oh, You Kwan. / **Mild pressure induces rapid accumulation of neutral lipid (triacylglycerol) in *Chlorella* spp.** In: Bioresource Technology. 2016 ; Vol. 220. pp. 661-665.

Ali-Löyty, 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.

Will, Olga Maria ; Purcz, Nicolai ; Chalaris, Athena ; Heneweer, Carola ; Boretius, Susann ; Purcz, Larissa ; Nikkola, Lila ; Ashammakhi, Nureddin ; Kalthoff, Holger ; Glüer, Claus Christian ; Wiltfang, Jörg ; Açil, 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.

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.

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.



Sulonen, Mira L K ; Lakaniemi, Aino Maija ; Kokko, Marika E. ; Puhakka, Jaakko A. / **Long-term stability of bioelectricity generation coupled with tetrathionate disproportionation**. In: Bioresource Technology. 2016 ; Vol. 216. pp. 876-882.

Nancharaiyah, Y. V. ; Venkata Mohan, S. ; Lens, P. N L. / **Recent advances in nutrient removal and recovery in biological and bioelectrochemical systems**. In: Bioresource Technology. 2016 ; Vol. 215. pp. 173-185.

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).

Wikberg, Hanne ; Ohra-aho, Taina ; Honkanen, Mari ; Kanerva, Heimo ; Harlin, Ali ; Vippola, Minnamari ; Laine, Christiane. / **Hydrothermal carbonization of pulp mill streams**. In: Bioresource Technology. 2016 ; Vol. 212. pp. 236-244.

Kramb, Jason ; DeMartini, Nikolai ; Perander, Magnus ; Moilanen, Antero ; Kontinen, Jukka. / **Modeling of the catalytic effects of potassium and calcium on spruce wood gasification in CO<sub>2</sub>**. In: Fuel Processing Technology. 2016 ; Vol. 148. pp. 50-59.

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.

Lindgren, M. ; Wallin, M. ; Kakkonen, M. ; Saarela, O. ; Vuorinen, J. / **The influence of high-temperature sulfuric acid solution ageing on the properties of laminated vinyl-ester joints**. In: International Journal of Adhesion and Adhesives. 2016 ; Vol. 68. pp. 298-304.

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.

Suominen, Olli ; Mörsky, Ville ; Ritala, Risto ; Viikko, Matti. / **Framework for optimization and scheduling of a copper production plant**. 26th European Symposium on Computer Aided Process Engineering, 2016. Vol. 38 Elsevier Science B.V., 2016. pp. 1243-1248 (Computer Aided Chemical Engineering).

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.

Heydari, Golrokh ; Sedighi Moghaddam, Maziar ; Tuominen, Mikko ; Fielden, Matthew ; Haapanen, Janne ; Mäkelä, Jyrki M. ; Claesson, Per M. / **Wetting hysteresis induced by temperature changes : Supercooled water on hydrophobic surfaces**. In: Journal of Colloid and Interface Science. 2016 ; Vol. 468. pp. 21-33.

Mal, J. ; Nancharaiyah, Y. V. ; van Hullebusch, E. D. ; Lens, P. N L. / **Effect of heavy metal co-contaminants on selenite bioreduction by anaerobic granular sludge**. In: Bioresource Technology. 2016 ; Vol. 206. pp. 1-8.

Mal, J. ; Nancharaiyah, 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.

Vuornos, Kaisa ; Björminen, Miina ; Talvitie, Elina ; Paakinaho, Kaarlo ; Kellomäki, Minna ; Huhtala, Heini ; Miettinen, Susanna ; Seppänen-Kaijansinkko, Riitta ; Haimi, Suvi. / **Human Adipose Stem Cells Differentiated on Braided Poly(lactide) Scaffolds is a Potential Approach for Tendon Tissue Engineering**. In: Tissue Engineering Part A. 2016 ; Vol. 22, No. 5-6. pp. 513-523.

Mahlamäki, Katrine ; Niemi, Arto ; Jokinen, Juuso ; Borgman, Jukka. / **Importance of maintenance data quality in extended warranty simulation**. In: International Journal of COMADEM. 2016 ; Vol. 19, No. 1. pp. 3-10.

Honkanen, Mari ; Kärkkäinen, Marja ; Kolli, Tanja ; Heikkinen, Olli ; Viitanen, Ville ; Zeng, Lunjie ; Jiang, Hua ; Kallinen, Kauko ; Huuhtanen, Mika ; Keiski, Riitta L. ; Lahtinen, Jouko ; Olsson, Eva ; Vippola, Minnamari. / **Accelerated deactivation studies of the natural-gas oxidation catalyst-Verifying the role of sulfur and elevated temperature in catalyst aging**. In: Applied Catalysis B-Environmental. 2016 ; pp. 439-448.

Mahdiani, Shadi ; Vanhala, J. ; Viik, J. / **A novel generic algorithm for robust physiological signal classification**. XIV Mediterranean Conference on Medical and Biological Engineering and Computing 2016: MEDICON 2016, March 31st–April 2nd 2016, Paphos, Cyprus. Springer Verlag, 2016. pp. 1038-1043 (IFMBE Proceedings).

Mahdiani, Shadi ; Jeyhani, Vala ; Vehkaoja, Antti. / **A review of transient suppression methods of IIR notch filters used for power-line interference rejection in ECG measurement**. IFMBE Proceedings. Vol. 57 Springer Verlag, 2016. pp. 151-156 (IFMBE Proceedings).

Prakash, Mithilesh ; Peltomäki, Timo ; Eskola, Hannu. / **A tool for geometrical measurements of orthognathic surgery changes using cone beam computed tomography**. XIV Mediterranean Conference on Medical and Biological Engineering and Computing 2016: MEDICON 2016, March 31st–April 2nd 2016, Paphos, Cyprus. Springer Verlag, 2016. pp. 430-433 (IFMBE Proceedings).

Nancharaiah, Y. V. ; Mohan, S. Venkata ; Lens, P. N L. / **Biological and Bioelectrochemical Recovery of Critical and Scarce Metals**. In: Trends in Biotechnology. 2016 ; Vol. 34, No. 2. pp. 137-155.

Kim, Dong Yeon ; Vijayan, Durairaj ; Praveenkumar, Ramasamy ; Han, Jong In ; Lee, Kyubock ; Park, Ji Yeon ; Chang, Won Seok ; Lee, Jin Suk ; Oh, You Kwan. / **Cell-wall disruption and lipid/astaxanthin extraction from microalgae : Chlorella and Haematococcus**. In: Bioresource Technology. 2016 ; Vol. 199. pp. 300-310.

Solala, Iina ; Koistinen, Antti ; Siljander, Sanna ; Vuorinen, Jyrki ; Vuorinen, Tapani. / **Composites of high-temperature thermomechanical pulps and polylactic acid**. In: BioResources. 2016 ; Vol. 11, No. 1. pp. 1125-1140.

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.

Porkka, Pasi L. / **Functional model for organisational and safety culture**. Chemical Engineering Transactions. Italian Association of Chemical Engineering AIDIC, 2016. pp. 907-912 (Chemical Engineering Transactions).

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.

Mesaros, Annamaria ; Heittola, Toni ; Virtanen, Tuomas. / **Metrics for polyphonic sound event detection**. In: Applied Sciences. 2016 ; Vol. 6, No. 6.

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.

Jeyhani, Vala ; Vuorinen, Tiina ; Noponen, Kai ; Mäntysalo, Matti ; Vehkaoja, Antti. / **Optimal short distance electrode locations for impedance pneumography measurement from the frontal thoracic area**. XIV Mediterranean Conference on Medical and Biological Engineering and Computing 2016: MEDICON 2016, March 31st-April 2nd 2016, Paphos, Cyprus. Springer Verlag, 2016. pp. 1138-1143 (IFMBE Proceedings).

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.

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

Cavallo, Gabriella ; Terraneo, Giancarlo ; Monfredini, Alessandro ; Saccone, Marco ; Priimägi, Arri ; Pilati, Tullio ; Resnati, Giuseppe ; Metrangolo, 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.

Ylinen, Antti ; Mäkinen, Jari ; Kouhia, Reijo. / **Two models for hydraulic cylinders in flexible multibody simulations**. Computational Methods for Solids and Fluids: Multiscale Analysis, Probability Aspects and Model Reduction. Springer, 2016. pp. 463-493 (Computational Methods in Applied Sciences).

Hannula, M. ; Haaparanta, A. M. ; Tamminen, I. ; Aula, A. ; Kellomäki, M. ; Hyttinen, J. / **X-ray microtomography of collagen and polylactide samples in liquids**. XIV Mediterranean Conference on Medical and Biological Engineering and Computing 2016: MEDICON 2016, March 31st-April 2nd 2016, Paphos, Cyprus. Springer Verlag, 2016. pp. 420-424 (IFMBE Proceedings).

Alanen, Jenni ; Saukko, Erkkä ; Lehtoranta, Kati ; Murtonen, Timo ; Timonen, Hilikka ; 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.

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.

Zhao, Ming Dong ; Björninen, Miina ; Cao, Lu ; Wang, Hui Ren ; Pelto, Jani ; Li, Xiang Qian ; Hyttinen, Jari ; Jiang, Yun Qi ; Kellomäki, Minna ; Miettinen, Susanna ; Sándor, George K. ; Seppänen, Riitta ; Haimi, Suvi ; Dong, Jian. / **Polypyrrole coating on poly-(lactide/glycolide)- $\beta$ -tricalcium phosphate screws enhances new bone formation in rabbits**. In: Biomedical Materials. 2015 ; Vol. 10, No. 6.

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.

Marjakangas, Jatta M. ; Chen, Chun Yen ; Lakaniemi, Aino Maija ; Puhakka, Jaakko A. ; Whang, Liang Ming ; Chang, Jo Shu. / **Simultaneous nutrient removal and lipid production with *Chlorella vulgaris* on sterilized and non-sterilized anaerobically pretreated piggery wastewater.** In: Biochemical Engineering Journal. 2015 ; Vol. 103. pp. 177-184.

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.

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. ; Radosch, H. J. / **Effect of rubber polarity on selective wetting of carbon nanotubes in ternary blends.** In: Express Polymer Letters. 2015 ; Vol. 9, No. 11. pp. 960-971.

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.

Polishchuk, Anna ; Valev, Dimitar ; Tarvainen, Marko ; Mishra, Sujata ; Kinnunen, Viljami ; Antal, Taras ; Yang, Baoru ; Rintala, Jukka ; Tyystjärvi, Esa. / **Cultivation of *Nannochloropsis* for eicosapentaenoic acid production in wastewaters of pulp and paper industry.** In: Bioresource Technology. 2015 ; Vol. 193. pp. 469-476.

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.

Kokko, Marika E. ; Mäkinen, Annukka E. ; Sulonen, Mira L K ; Puhakka, Jaakko A. / **Effects of anode potentials on bioelectrogenic conversion of xylose and microbial community compositions.** In: Biochemical Engineering Journal. 2015 ; Vol. 101. pp. 248-252.

Nikkanen, Juha Pekka ; Huttunen-Saarivirta, Elina ; Salminen, Turkka ; Hyvärinen, Leo ; Honkanen, Mari ; Isotahdon, Elisa ; Heinonen, Saara ; Levänen, Erkki. / **Enhanced photoactive and photoelectrochemical properties of TiO<sub>2</sub> sol-gel coated steel by the application of SiO<sub>2</sub> intermediate layer.** In: Applied Catalysis B-Environmental. 2015 ; Vol. 174-175. pp. 533-543.

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.

Sorkio, Anni ; Porter, Patrick J. ; Juuti-Uusitalo, Kati ; Meenan, Brian J. ; Skottman, Heli ; Burke, George A. / **Surface Modified Biodegradable Electrospun Membranes as a Carrier for Human Embryonic Stem Cell-Derived Retinal Pigment Epithelial Cells.** In: Tissue Engineering Part A. 2015 ; Vol. 21, No. 17-18. pp. 2301-2314.

Levin, Marcus ; Rojas, Elena ; Vanhala, Esa ; Vippola, Minnamari ; Liguori, Biase ; Kling, Kirsten I. ; Koponen, Ismo K. ; Mølhav, 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.

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

Foroutan, Farzad ; Walters, Nick J. ; Owens, Gareth J. ; Mordan, Nicola J. ; Kim, Hae Won ; de Leeuw, Nora H. ; Knowles, Jonathan C. / **Sol-gel synthesis of quaternary (P2O5)55-(CaO)25-(Na2O)(20-x)-(TiO2) x bioresorbable glasses for bone tissue engineering applications (x = 0, 5, 10, or 15)**. In: Biomedical materials (Bristol, England). 2015 ; Vol. 10, No. 4. pp. 45025.

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.

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.

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.

Marjakangas, Jatta M. ; Lakaniemi, Aino Maija ; Koskinen, Perttu E. P. ; Chang, Jo Shu ; Puhakka, Jaakko A. / **Lipid production by eukaryotic microorganisms isolated from palm oil mill effluent**. In: Biochemical Engineering Journal. 2015 ; Vol. 99. pp. 48-54.

Massera, J. ; Kokkari, A. ; Närhi, T. ; Hupa, L. / **The influence of SrO and CaO in silicate and phosphate bioactive glasses on human gingival fibroblasts**. In: Journal of Materials Science: Materials in Medicine. 2015 ; Vol. 26, No. 6.

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 CO2 gasification of spruce wood char**. In: Fuel. 2015 ; Vol. 150. pp. 464-472.

McManamon, Colm ; O'Connell, John ; Delaney, Paul ; Rasappa, Sozaraj ; Holmes, Justin D. ; Morris, Michael A. / **A facile route to synthesis of S-doped TiO<sub>2</sub> nanoparticles for photocatalytic activity**. In: Journal of Molecular Catalysis A: Chemical . 2015 ; Vol. 406. pp. 51-57!.

Sorkio, Anni E. ; Vuorimaa-Laukkanen, Elina P. ; Hakola, Hanna M. ; Liang, Huamin ; Ujula, Tiina A. ; Valle-Delgado, Juan José ; Österberg, Monika ; Yliperttula, Marjo L. ; Skottman, Heli. / **Biomimetic collagen I and IV double layer Langmuir-Schaefer films as microenvironment for human pluripotent stem cell derived retinal pigment epithelial cells**. In: Biomaterials . 2015 ; Vol. 51. pp. 257-269.

Martins, Leonardo ; Fonseca, Jose ; Ribeiro, Andre. / **'miSimBa' - A simulator of synthetic time-lapsed microscopy images of bacterial cells**. Proceedings - 2015 IEEE 4th Portuguese Meeting on Bioengineering, ENBENG 2015. The Institute of Electrical and Electronics Engineers, Inc., 2015.

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.

Potapov, Ilya ; Zhurov, Boris ; Volkov, Evgeny. / **Multi-stable dynamics of the non-adiabatic repressilator**. In: Journal of the Royal Society. Interface. 2015 ; Vol. 12, No. 104.

Zou, G. ; Papirio, S. ; van Hullebusch, E. D. ; Puhakka, J. A. / **Fluidized-bed denitrification of mining water tolerates high nickel concentrations**. In: Bioresource Technology. 2015 ; Vol. 179. pp. 284-290.

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.

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.

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

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.

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.

Lehtonen, Soili I. ; Taskinen, Barbara ; Ojala, Elina ; Kukkurainen, Sampo ; Rahikainen, Rolle ; Riihimäki, Tiina A. ; Laitinen, Olli H. ; Kulomaa, Markku S. ; Hytönen, Vesa P. / **Efficient preparation of shuffled DNA libraries through recombination (Gateway) cloning.** In: Protein Engineering Design and Selection. 2015 ; Vol. 28, No. 1. pp. 23-28.

Karvountzis-Kontakiotis, A. ; Ntziachristos, L. / **Enquête de la variabilité cycle-cycle du NO dans la combustion homogène.** In: OIL AND GAS SCIENCE AND TECHNOLOGY : REVUE DE L'INSTITUT FRANCAIS DU PETROLE. 2015 ; Vol. 70, No. 1. pp. 111-123.

Palmroth, Marja Riitta Tuulikki ; Mönkäre, Tiina Johanna ; Steffen, Kari T. / **Fungal treatment of landfill mining fine fraction to increase its stability and end-use potential.** Book of abstracts of the 6th European Bioremediation Conference. editor / Nicolas Kalogerakis ; Fabio Fava ; Elena Manousaki. 2015. pp. 47

Nancharaiyah, Y. V. ; Venkata Mohan, S. ; Lens, P.N.L. / **Metals removal and recovery in bioelectrochemical systems : A review.** In: Bioresource Technology. 2015 ; Vol. 195. pp. 102-114.

Bechet, Denise ; Auger, Florent ; Couleaud, Pierre ; Marty, Eric ; Ravasi, Laura ; Durieux, Nicolas ; Bonnet, Corinne ; Pléat, François ; Frochot, Céline ; Mordon, Serge ; Tillement, Olivier ; Vanderesse, Régis ; Lux, François ; Perriat, Pascal ; Guillemain, François ; Barberi-Heyob, Muriel. / **Multifunctional ultrasmall nanoplateforms for vascular-targeted interstitial photodynamic therapy of brain tumors guided by real-time MRI.** In: NANOMEDICINE: NANOTECHNOLOGY BIOLOGY AND MEDICINE. 2015 ; Vol. 11, No. 3. pp. 657-670.

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.

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.

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.

Lemmetyinen, 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.

Praveenkumar, Ramasamy ; Kim, Bohwa ; Choi, Eunji ; Lee, Kyubock ; Park, Ji Yeon ; Lee, Jin Suk ; Lee, Young Chul ; Oh, You Kwan. / **Improved biomass and lipid production in a mixotrophic culture of *Chlorella* sp. KR-1 with addition of coal-fired flue-gas**. In: *Bioresource Technology*. 2014 ; Vol. 171. pp. 500-505.

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.

Praveenkumar, Ramasamy ; Kim, Bohwa ; Choi, Eunji ; Lee, Kyubock ; Cho, Sunja ; Hyun, Ju Soo ; Park, Ji Yeon ; Lee, Young Chul ; Lee, Hyun Uk ; Lee, Jin Suk ; Oh, You Kwan. / **Mixotrophic cultivation of oleaginous *Chlorella* sp. KR-1 mediated by actual coal-fired flue gas for biodiesel production**. In: *Bioprocess and Biosystems Engineering*. 2014 ; Vol. 37, No. 10. pp. 2083-2094.

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.

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.

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.

Ciranna, Alessandro ; Pawar, Sudhanshu S. ; Santala, Ville ; Karp, Matti ; van Niel, Ed W J. / **Assessment of metabolic flux distribution in the thermophilic hydrogen producer *Caloramator celer* as affected by external pH and hydrogen partial pressure**. In: *Microbial Cell Factories*. 2014 ; Vol. 13, No. 1.

Sorkio, Anni ; Hongisto, Heidi ; Kaarniranta, Kai ; Uusitalo, Hannu ; Juuti-Uusitalo, Kati ; Skottman, Heli. / **Structure and barrier properties of human embryonic stem cell-derived retinal pigment epithelial cells are affected by extracellular matrix protein coating**. In: *Tissue Engineering Part A*. 2014 ; Vol. 20, No. 3-4. pp. 622-634.

Zhang, Dawei ; Pekkanen-Mattila, Mari ; Shahsavani, Mansoureh ; Falk, Anna ; Teixeira, Ana I. ; Herland, Anna. / **A 3D Alzheimer's disease culture model and the induction of P21-activated kinase mediated sensing in iPSC derived neurons**. In: *Biomaterials*. 2014 ; Vol. 35, No. 5. pp. 1420-1428.

Moerland, Robert J. ; Koskela, Jenni E. ; Kravchenko, Aleksandr ; Simberg, Mikael ; Van Der Vegte, Stefan ; Kaivola, Matti ; Priimagi, Arri ; Ras, Robin H A. / **Large-area arrays of three-dimensional plasmonic subwavelength-sized structures from azopolymer surface-relief gratings**. In: *Materials Horizons*. 2014 ; Vol. 1, No. 1. pp. 74-80.

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

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 ; Radusch, 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 ; Senthamarakannan, 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

Oksa, Maria ; Auerkari, Pertti ; Salonen, Jorma ; Varis, Tommi. / **Nickel-based HVOF coatings promoting high temperature corrosion resistance of biomass-fired power plant boilers**. In: Fuel Processing Technology. 2014 ; Vol. 125. pp. 236-245.

Lee, Kyubock ; Lee, So Yeun ; Praveenkumar, Ramasamy ; Kim, Bohwa ; Seo, Jung Yoon ; Jeon, Sang Goo ; Na, Jeong Geol ; Park, Ji Yeon ; Kim, Dong Myung ; Oh, You Kwan. / **Repeated use of stable magnetic flocculant for efficient harvest of oleaginous *Chlorella* sp.** In: Bioresource Technology. 2014 ; Vol. 167. pp. 284-290.

Lee, Kyubock ; Lee, So Yeun ; Na, Jeong Geol ; Jeon, Sang Goo ; Praveenkumar, Ramasamy ; Kim, Dong Myung ; Chang, Won Seok ; Oh, You Kwan. / **Magnetophoretic harvesting of oleaginous *Chlorella* sp. by using biocompatible chitosan/magnetic nanoparticle composites**. In: Bioresource Technology. 2013 ; Vol. 149. pp. 575-578.

Pollheimer, Philipp ; Taskinen, Barbara ; Scherfler, Andreas ; Gusenkov, Sergey ; Creus, Marc ; Wiesauer, Philipp ; Zauner, Dominik ; Schöffberger, Wolfgang ; Schwarzingler, 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.

Stirnermann, 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.

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.

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.

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.

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.



Borah, Dipu ; Rasappa, Sozaraj ; Senthamarikannan, Ramsankar ; Shaw, Matthew T. ; Holmes, Justin D. ; Morris, Michael A. / **The sensitivity of random polymer brush-lamellar polystyrene-b-polymethylmethacrylate block copolymer systems to process conditions.** In: Journal of Colloid and Interface Science. 2013 ; Vol. 393, No. 1. pp. 192-202.

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.

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.

Wang, Heyun ; Feng, Yakai ; Zhao, Haiyang ; Fang, Zichen ; Khan, Musammir ; Guo, Jintang. / **A potential nonthrombogenic 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.

Kulig, Waldemar ; Agmon, Noam. / **'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.

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

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.

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.

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.

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.

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.

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.

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.

Praveenkumar, Ramasamy ; Johncy, Kamarasu ; MubarakAli, Davoodbasha ; Vijayan, Durairaj ; Thajuddin, Nooruddin ; Gunasekaran, Muthukumaran. / **Demonstration of increased lipid accumulation potential of stigeoclonium sp., Kütz. BUM11007 under nitrogen starved regime : A new source of lipids for biodiesel production.** In: Journal of Biobased Materials and Bioenergy. 2012 ; Vol. 6, No. 2. pp. 209-213.

Roop, 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.

Sarkanen, Jertta Riina ; Kaila, Ville ; Mannerström, Bettina ; Rätty, Sari ; Kuokkanen, Hannu ; Miettinen, Susanna ; Ylikomi, Timo. / **Human adipose tissue extract induces angiogenesis and adipogenesis in vitro.** In: Tissue Engineering Part A. 2012 ; Vol. 18, No. 1-2. pp. 17-25.

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.

Tirkkonen, L. ; Haimi, Suvi ; Huttunen, S. ; Wolff, J. ; Pirhonen, E. ; Sándor, G. K. ; Miettinen, S. / **Osteogenic medium is superior to growth factors in differentiation of human adipose stem cells towards boneforming cells in 3D culture.** In: European Cells and Materials. 2012 ; Vol. 25. pp. 144-158.

Mousa, Ahmad ; Heinrich, Gert ; Kretschmar, Bernd ; Wagenknecht, Udo ; Das, Amit. / **Utilization of agrowaste polymers in PVC/NBR alloys : Tensile, thermal, and morphological properties.** In: INTERNATIONAL JOURNAL OF CHEMICAL ENGINEERING. 2012.

Amps, Katherine ; Andrews, Peter W. ; Anyfantis, George ; Armstrong, Lyle ; Avery, Stuart ; Baharvand, Hossein ; Baker, Julie ; Baker, Duncan ; Munoz, Maria B. ; Beil, Stephen ; Benvenisty, Nissim ; Ben-Yosef, Dalit ; Biancotti, Juan Carlos ; Bosman, Alexis ; Brena, Romulo Martin ; Brison, Daniel ; Caisander, Gunilla ; Camarasa, Marãa V. ; Chen, Jieming ; Chiao, Eric ; Choi, Young Min ; Choo, Andre B H ; Collins, Daniel ; Colman, Alan ; Crook, Jeremy M. ; Daley, George Q. ; Dalton, Anne ; De Sousa, Paul A. ; Denning, Chris ; Downie, Janet ; Dvorak, Petr ; Montgomery, Karen D. ; Feki, Anis ; Ford, Angela ; Fox, Victoria ; Fraga, Ana M. ; Frumkin, Tzvia ; Ge, Lin ; Gokhale, Paul J. ; Golan-Lev, Tamar ; Gourabi, Hamid ; Gropp, Michal ; Guangxiu, Lu ; Hampl, Ales ; Harron, Katie ; Healy, Lyn ; Herath, Wishva ; Holm, Frida ; Hovatta, Outi ; Hyllner, Johan ; Inamdar, Maneesha S. ; Irwanto, Astrid Kresentia ; Ishii, Tetsuya ; Jaconi, Marisa ; Jin, Ying ; Kimber, Susan ; Kiselev, Sergey ; Knowles, Barbara B. ; Kopper, Oded ; Kukharenko, Valeri ; Kuliev, Anver ; Lagarkova, Maria A. ; Laird, Peter W. ; Lako, Majlinda ; Laslett, Andrew L. ; Lavon, Neta ; Lee, Dong Ryul ; Lee, Jeoung Eun ; Li, Chunliang ; Lim, Linda S. ; Ludwig, Tenneille E. ; Ma, Yu ; Maltby, Edna ; Mateizel, Ileana ; Mayshar, Yoav ; Mileikovskiy, Maria ; Minger, Stephen L. ; Miyazaki, Takamichi ; Moon, Shin Yong ; Moore, Harry ; Mummery, Christine ; Nagy, Andras ; Nakatsujii, Norio ; Narwani, Kavita ; Oh, Steve K W ; Oh, Sun Kyung ; Olson, Cia ; Otonkoski, Timo ; Pan, Fei ; Park, In Hyun ; Pells, Steve ; Pera, Martin F. ; Pereira, Lygia V. ; Qi, Ouyang ; Raj, Grace Selva ; Reubinoff, Benjamin ; Robins, Alan ; Robson, Paul ; Rossant, Janet ; Salekdeh, Ghasem H. ; Schulz, Thomas C. ; Sermon, Karen ; Mohamed, Jameelah Sheik ; Shen, Hui ; Sherrer, Eric ; Sidhu, Kuldeep ; Sivarajah, Shirani ; Skottman, Heli ; Spits, Claudia ; Stacey, Glyn N. ; Strehl, Raimund ; Strelchenko, Nick ; Suemori, Hirofumi ; Sun, Bowen ; Suuronen, Riitta ; Takahashi, Kazutoshi ; Tuuri, Timo ; Venu, Parvathy ; Verlinsky, Yuri ; Oostwaard, Dorien Ward Van ; Weisenberger, Daniel J. ; Wu, Yue ; Yamanaka, Shinya ; Young, Lorraine ; Zhou, Qi. / **Screening ethnically diverse human embryonic stem cells identifies a chromosome 20 minimal amplicon conferring growth advantage.** In: Nature Biotechnology. 2011 ; Vol. 29, No. 12. pp. 1132-1144.

Cao, Hongfei ; Feng, Yakai ; Wang, Heyun ; Zhang, Li ; Khan, Musammir ; Guo, Jintang. / **Synthesis of depsipeptides from L-amino acids and lactones.** In: Frontiers of Chemical Science and Engineering. 2011 ; Vol. 5, No. 4. pp. 409-415.

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.

Pakarinen, O. ; Kaparaju, P. ; Rintala, J. / **The effect of organic loading rate and retention time on hydrogen production from a methanogenic CSTR.** In: Bioresource Technology. 2011 ; Vol. 102, No. 19. pp. 8952-8957.

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.

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.

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

Daculsi, Guy ; Goyenvalle, Eric ; Cognet, Ronan ; Aguado, Eric ; Suokas, Esa O. / **Osteoconductive properties of poly(96L/4D-lactide)/beta-tricalcium phosphate in long term animal model.** In: Biomaterials. 2011 ; Vol. 32, No. 12. pp. 3166-3177.

Jagadabhi, Padma Shanthi ; Kaparaju, Prasad ; Rintala, Jukka. / **Two-stage anaerobic digestion of tomato, cucumber, common reed and grass silage in leach-bed reactors and upflow anaerobic sludge blanket reactors.** In: Bioresource Technology. 2011 ; Vol. 102, No. 7. pp. 4726-4733.

Määttä, Juha A.E. ; Eisenberg-Domovich, Yael ; Nordlund, Henri R. ; Hayouka, Ruchama ; Kulomaa, Markku S. ; Livnah, Oded ; Hytönen, Vesa P. / **Chimeric avidin shows stability against harsh chemical conditions-biochemical analysis and 3D structure.** In: Biotechnology and Bioengineering. 2011 ; Vol. 108, No. 3. pp. 481-490.

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.

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.

Jagadabhi, Padma Shanthi ; Kaparaju, Prasad ; Rintala, Jukka. / **Effect of micro-aeration and leachate replacement on COD solubilization and VFA production during mono-digestion of grass-silage in one-stage leach-bed reactors.** In: Bioresource Technology. 2010 ; Vol. 101, No. 8. pp. 2818-2824.

Kanninen, L. ; Jokinen, N. ; Lahtonen, K. ; Jussila, P. ; Ali-Löytty, H. ; Hirsimäki, M. ; Leppiniemi, J. ; Hytönen, V. ; Kulomaa, M. ; Ahola, N. ; Paakinaho, K. ; Kellomäki, M. ; Valden, M. / **Surface science analysis and surface modification methods for biomaterials research.** In: European Cells and Materials. 2010 ; Vol. 20, No. SUPPL. 3. pp. 133.

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.

Seppälä, Mari ; Paavola, Teija ; Lehtomäki, Anni ; Rintala, Jukka. / **Biogas production from boreal herbaceous grasses - Specific methane yield and methane yield per hectare.** In: Bioresource Technology. 2009 ; Vol. 100, No. 12. pp. 2952-2958.

Wang, Hong ; Lehtomäki, Anni ; Tolvanen, Katariina ; Puhakka, Jaakko ; Rintala, Jukka. / **Impact of crop species on bacterial community structure during anaerobic co-digestion of crops and cow manure.** In: Bioresource Technology. 2009 ; Vol. 100, No. 7. pp. 2311-2315.

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

- Paavola, Teija ; Rintala, Jukka. / **Effects of storage on characteristics and hygienic quality of digestates from four co-digestion concepts of manure and biowaste.** In: Bioresource Technology. 2008 ; Vol. 99, No. 15. pp. 7041-7050.
- Pakarinen, Outi ; Lehtomäki, Anni ; Rissanen, Sanna ; Rintala, Jukka. / **Storing energy crops for methane production : Effects of solids content and biological additive.** In: Bioresource Technology. 2008 ; Vol. 99, No. 15. pp. 7074-7082.
- Wang, Hong ; Einola, Juha ; Heinonen, Mirja ; Kulomaa, Markku ; Rintala, Jukka. / **Group-specific quantification of methanotrophs in landfill gas-purged laboratory biofilters by tyramide signal amplification-fluorescence in situ hybridization .** In: Bioresource Technology. 2008 ; Vol. 99, No. 14. pp. 6426-6433.
- Lehtomäki, A. ; Huttunen, S. ; Lehtinen, T. M. ; Rintala, J. A. / **Anaerobic digestion of grass silage in batch leach bed processes for methane production.** In: Bioresource Technology. 2008 ; Vol. 99, No. 8. pp. 3267-3278.
- Sormunen, Kai ; Einola, Juha ; Ettala, Matti ; Rintala, Jukka. / **Leachate and gaseous emissions from initial phases of landfilling mechanically and mechanically-biologically treated municipal solid waste residuals.** In: Bioresource Technology. 2008 ; Vol. 99, No. 7. pp. 2399-2409.
- Kaparaju, P. L N ; Rintala, J. A. / **Effects of solid-liquid separation on recovering residual methane and nitrogen from digested dairy cow manure.** In: Bioresource Technology. 2008 ; Vol. 99, No. 1. pp. 120-127.
- 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.
- Luostarinen, S. ; Rintala, J. / **Anaerobic on-site treatment of kitchen waste in combination with black water in UASB-septic tanks at low temperatures.** In: Bioresource Technology. 2007 ; Vol. 98, No. 9. pp. 1734-1740.
- Jokela, J. P Y ; Vavilin, V. A. ; Rintala, J. A. / **Hydrolysis rates, methane production and nitrogen solubilisation of grey waste components during anaerobic degradation.** In: Bioresource Technology. 2005 ; Vol. 96, No. 4. pp. 501-508.
- Vavilin, V. A. ; Lokshina, L. Ya ; Jokela, J. P Y ; Rintala, J. A. / **Modeling solid waste decomposition.** In: Bioresource Technology. 2004 ; Vol. 94, No. 1. pp. 69-81.
- Suvilampi, J. ; Lehtomäki, A. ; Rintala, J. / **Comparison of laboratory-scale thermophilic biofilm and activated sludge processes integrated with a mesophilic activated sludge process.** In: Bioresource Technology. 2003 ; Vol. 88, No. 3. pp. 207-214.
- Lokshina, L. Y. ; Vavilin, V. A. ; Salminen, E. ; Rintala, J. / **Modeling of anaerobic degradation of solid slaughterhouse waste : Inhibition effects of long-chain fatty acids or ammonia.** In: Applied Biochemistry and Biotechnology. 2003 ; Vol. 109, No. 1-3. pp. 15-32.
- Salminen, E. ; Rintala, J. / **Anaerobic digestion of organic solid poultry slaughterhouse waste - A review.** In: Bioresource Technology. 2002 ; Vol. 83, No. 1. pp. 13-26.
- Korhonen, H. M E ; Heikkilä, Jussi ; Törnwall, Jon M. / **A simulation case study of production planning and control in printed wiring board manufacturing.** In: Winter Simulation Conference Proceedings. 2001 ; Vol. 2. pp. 844-847.
- Salminen, E. ; Rintala, J. ; Härkönen, J. ; Kuitunen, M. ; Högmänder, H. ; Oikari, A. / **Anaerobically digested poultry slaughterhouse wastes as fertiliser in agriculture.** In: Bioresource Technology. 2001 ; Vol. 78, No. 1. pp. 81-88.
- Suvilampi, J. ; Lepistö, R. ; Rintala, J. / **Biological treatment of pulp and paper mill process and wastewaters under thermophilic conditions - A review.** In: Paperi ja puu. 2001 ; Vol. 83, No. 4. pp. 320-325.

Hyvönen, Marja T. ; Rantala, Tapio T. ; Ala-Korpela, Mika. / **Biokalvojen rakenteen ja toiminnan simulointi tuo uutta tietoa rasvoista.** In: Kemia - Kemi. 1999 ; Vol. 26, No. 3. pp. 222-225.

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.

Rintala, Jukka A. ; Ahring, Birgitte K. / **A two-stage thermophilic anaerobic process for the treatment of source sorted household solid waste.** In: Biotechnology Letters. 1994 ; Vol. 16, No. 10. pp. 1097-1102.

Rintala, Jukka A. ; Ahring, Birgitte K. / **Thermophilic anaerobic digestion of source-sorted household solid waste : the effects of enzyme additions.** In: Applied Microbiology and Biotechnology. 1994 ; Vol. 40, No. 6. pp. 916-919.

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.

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.