

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

Kellomäki A, Kuula-Väisänen P, Nieminen P. **Sorption and retention of ethylene glycol monoethyl ether (EGME) on silicas**. *Journal of Colloid and Interface Science*. 1989;129(2):373-378. [https://doi.org/10.1016/0021-9797\(89\)90450-5](https://doi.org/10.1016/0021-9797(89)90450-5)

Rintala JA, Ahring BK. **Thermophilic anaerobic digestion of source-sorted household solid waste: the effects of enzyme additions**. *Applied Microbiology and Biotechnology*. 1994 Feb;40(6):916-919. <https://doi.org/10.1007/BF00173999>

Rintala JA, Ahring BK. **A two-stage thermophilic anaerobic process for the treatment of source sorted household solid waste**. *Biotechnology Letters*. 1994 Oct;16(10):1097-1102. <https://doi.org/10.1007/BF01022410>

Lepistö SS, Rintala JA. **Start-up and Operation of Laboratory-Scale Thermophilic Upflow Anaerobic Sludge Blanket Reactors Treating Vegetable Processing Wastewaters**. *Journal of Chemical Technology and Biotechnology*. 1997 Mar;68(3):331-339. [https://doi.org/10.1002/\(SICI\)1097-4660\(199703\)68:3<331::AID-JCTB657>3.0.CO;2-Z](https://doi.org/10.1002/(SICI)1097-4660(199703)68:3<331::AID-JCTB657>3.0.CO;2-Z)

Hyvönen MT, Rantala TT, Ala-Korpela M. **Biokalvojen rakenteen ja toiminnan simulointi tuo uutta tietoa rasvoista**. *Kemia - Kemi*. 1999;26(3):222-225.

Salminen E, Rintala J, Härkönen J, Kuitunen M, Högmander H, Oikari A. **Anaerobically digested poultry slaughterhouse wastes as fertiliser in agriculture**. *Bioresource Technology*. 2001;78(1):81-88. [https://doi.org/10.1016/S0960-8524\(00\)00160-7](https://doi.org/10.1016/S0960-8524(00)00160-7)

Suvilampi J, Lepistö R, Rintala J. **Biological treatment of pulp and paper mill process and wastewaters under thermophilic conditions - A review**. *Paperi ja puu*. 2001;83(4):320-325.

Korhonen HME, Heikkilä J, Törnwall JM. **A simulation case study of production planning and control in printed wiring board manufacturing**. *Winter Simulation Conference Proceedings*. 2001 Dec 1;2:844-847.

Salminen E, Rintala J. **Anaerobic digestion of organic solid poultry slaughterhouse waste - A review**. *Bioresource Technology*. 2002;83(1):13-26. [https://doi.org/10.1016/S0960-8524\(01\)00199-7](https://doi.org/10.1016/S0960-8524(01)00199-7)

Lokshina LY, Vavilin VA, Salminen E, Rintala J. **Modeling of anaerobic degradation of solid slaughterhouse waste: Inhibition effects of long-chain fatty acids or ammonia**. *Applied Biochemistry and Biotechnology*. 2003 Apr;109(1-3):15-32. <https://doi.org/10.1385/ABAB:109:1-3:15>

Suvilampi J, Lehtomäki A, Rintala J. **Comparison of laboratory-scale thermophilic biofilm and activated sludge processes integrated with a mesophilic activated sludge process**. *Bioresource Technology*. 2003 Jul;88(3):207-214. [https://doi.org/10.1016/S0960-8524\(03\)00006-3](https://doi.org/10.1016/S0960-8524(03)00006-3)

Vavilin VA, Lokshina LY, Jokela JPY, Rintala JA. **Modeling solid waste decomposition**. *Bioresource Technology*. 2004 Aug;94(1):69-81. <https://doi.org/10.1016/j.biortech.2003.10.034>

Jokela JPY, Vavilin VA, Rintala JA. **Hydrolysis rates, methane production and nitrogen solubilisation of grey waste components during anaerobic degradation**. *Bioresource Technology*. 2005 Mar;96(4):501-508. <https://doi.org/10.1016/j.biortech.2004.03.009>

Luostarinen S, Rintala J. **Anaerobic on-site treatment of kitchen waste in combination with black water in UASB-septic tanks at low temperatures**. *Bioresource Technology*. 2007 Jul;98(9):1734-1740. <https://doi.org/10.1016/j.biortech.2006.07.022>

- Lahtinen K, Kuusipalo J. **Statistical modeling of water vapor transmission rates for extrusion-coated papers**. In TAPPI 2008 PLACE Conference: Innovations in Flexible Consumer Packaging. 2008
- Kaparaju PLN, Rintala JA. **Effects of solid-liquid separation on recovering residual methane and nitrogen from digested dairy cow manure**. *Bioresource Technology*. 2008 Jan;99(1):120-127. <https://doi.org/10.1016/j.biortech.2006.11.046>
- Lehtomäki A, Huttunen S, Lehtinen TM, Rintala JA. **Anaerobic digestion of grass silage in batch leach bed processes for methane production**. *Bioresource Technology*. 2008 May;99(8):3267-3278. <https://doi.org/10.1016/j.biortech.2007.04.072>
- Sormunen K, Einola J, Ettala M, Rintala J. **Leachate and gaseous emissions from initial phases of landfilling mechanically and mechanically-biologically treated municipal solid waste residuals**. *Bioresource Technology*. 2008 May;99(7):2399-2409. <https://doi.org/10.1016/j.biortech.2007.05.009>
- Wang H, Einola J, Heinonen M, Kulomaa M, Rintala J. **Group-specific quantification of methanotrophs in landfill gas-purged laboratory biofilters by tyramide signal amplification-fluorescence in situ hybridization**. *Bioresource Technology*. 2008 Sep;99(14):6426-6433. <https://doi.org/10.1016/j.biortech.2007.11.050>
- Paavola T, Rintala J. **Effects of storage on characteristics and hygienic quality of digestates from four co-digestion concepts of manure and biowaste**. *Bioresource Technology*. 2008 Oct;99(15):7041-7050. <https://doi.org/10.1016/j.biortech.2008.01.005>
- Pakarinen O, Lehtomäki A, Rissanen S, Rintala J. **Storing energy crops for methane production: Effects of solids content and biological additive**. *Bioresource Technology*. 2008 Oct;99(15):7074-7082. <https://doi.org/10.1016/j.biortech.2008.01.007>
- Lahti J, Tuominen M, Penttinen T, Räsänen JP, Kuusipalo J. **The effects of corona and flame treatment: Part 2. PE-HD and PP coated papers**. In TAPPI Press - 12th European PLACE Conference 2009. Vol. 1. 2009. p. 278-314
- Wang H, Lehtomäki A, Tolvanen K, Puhakka J, Rintala J. **Impact of crop species on bacterial community structure during anaerobic co-digestion of crops and cow manure**. *Bioresource Technology*. 2009 Apr;100(7):2311-2315. <https://doi.org/10.1016/j.biortech.2008.10.040>
- Seppälä M, Paavola T, Lehtomäki A, Rintala J. **Biogas production from boreal herbaceous grasses - Specific methane yield and methane yield per hectare**. *Bioresource Technology*. 2009 Jun;100(12):2952-2958. <https://doi.org/10.1016/j.biortech.2009.01.044>
- Dehmer M, Varmuza K, Borgert S, Emmert-Streib F. **On entropy-based molecular descriptors: Statistical analysis of real and synthetic chemical structures**. *Journal of Chemical Information and Modeling*. 2009 Jul 27;49(7):1655-1663. <https://doi.org/10.1021/ci900060x>
- Kanninen L, Jokinen N, Lahtonen K, Jussila P, Ali-Löytty H, Hirsimäki M et al. **Surface science analysis and surface modification methods for biomaterials research**. *European Cells and Materials*. 2010 Jan 1;20(SUPPL. 3):133.
- Jagadabhi PS, Kaparaju P, Rintala J. **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**. *Bioresource Technology*. 2010 Apr;101(8):2818-2824. <https://doi.org/10.1016/j.biortech.2009.10.083>
- Vähä-Nissi M, Hirvikorpi T, Sievänen J, Salo E, Harlin A, Johansson P et al. **Effect of pre-treatments on barrier properties of layers applied by atomic layer deposition onto polymer-coated substrates**. In 13th European PLACE Conference 2011. Vol. 1. 2011. p. 447
- Giammarco JM, Zdyrko B, Hu J, Agarwal A, Kimerling L, Carlie N et al. **Enrichment polymer layers for detection of volatile vapors by ATR FT-IR**. *ACS National Meeting Book of Abstracts*. 2011.

Teisala H, Tuominen M, Aromaa M, Mäkelä JM, Stepien M, Saarinen JJ et al. **Nanoparticle deposition on packaging materials by the liquid flame spray**. In 13th European PLACE Conference 2011. Vol. 1. 2011

Määttä JAE, Eisenberg-Domovich Y, Nordlund HR, Hayouka R, Kulomaa MS, Livnah O et al. **Chimeric avidin shows stability against harsh chemical conditions-biochemical analysis and 3D structure**. *Biotechnology and Bioengineering*. 2011 Mar;108(3):481-490. <https://doi.org/10.1002/bit.22962>

Daculsi G, Goyenvalle E, Cognet R, Aguado E, Suokas EO. **Osteoconductive properties of poly(96L/4D-lactide)/beta-tricalcium phosphate in long term animal model**. *Biomaterials*. 2011 Apr;32(12):3166-3177. <https://doi.org/10.1016/j.biomaterials.2011.01.033>

Jagadabhi PS, Kaparaju P, Rintala J. **Two-stage anaerobic digestion of tomato, cucumber, common reed and grass silage in leach-bed reactors and upflow anaerobic sludge blanket reactors**. *Bioresource Technology*. 2011 Apr;102(7):4726-4733. <https://doi.org/10.1016/j.biortech.2011.01.052>

Zorzi GK, Párraga JE, Seijo B, Sánchez A. **Hybrid nanoparticle design based on cationized gelatin and the polyanions dextran sulfate and chondroitin sulfate for ocular gene therapy**. *MACROMOLECULAR BIOSCIENCE*. 2011 Jul 7;11(7):905-913. <https://doi.org/10.1002/mabi.201100005>

Linko V, Leppiniemi J, Paasonen ST, Hytönen VP, Jussi Toppari J. **Defined-size DNA triple crossover construct for molecular electronics: Modification, positioning and conductance properties**. *Nanotechnology*. 2011 Jul 8;22(27). 275610. <https://doi.org/10.1088/0957-4484/22/27/275610>

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

Pakarinen O, Kaparaju P, Rintala J. **The effect of organic loading rate and retention time on hydrogen production from a methanogenic CSTR**. *Bioresource Technology*. 2011 Oct;102(19):8952-8957. <https://doi.org/10.1016/j.biortech.2011.07.020>

Heikkinen JJ, Kivimäki L, Määttä JAE, Mäkelä I, Hakalahti L, Takkinen K et al. **Versatile bio-ink for covalent immobilization of chimeric avidin on sol-gel substrates**. *Colloids and Surfaces B: Biointerfaces*. 2011 Oct 15;87(2):409-414. <https://doi.org/10.1016/j.colsurfb.2011.05.052>

Amps K, Andrews PW, Anyfantis G, Armstrong L, Avery S, Baharvand H et al. **Screening ethnically diverse human embryonic stem cells identifies a chromosome 20 minimal amplicon conferring growth advantage**. *Nature Biotechnology*. 2011 Dec;29(12):1132-1144. <https://doi.org/10.1038/nbt.2051>

Cao H, Feng Y, Wang H, Zhang L, Khan M, Guo J. **Synthesis of depsipeptides from L-amino acids and lactones**. *Frontiers of Chemical Science and Engineering*. 2011 Dec;5(4):409-415. <https://doi.org/10.1007/s11705-011-1141-9>

Valtakari D, Bollström R, Tuominen M, Teisala H, Aromaa M, Toivakka M et al. **Conductive layers on surface modified natural fibre based substrates for printed functionality**. In AICHE 2012 - 2012 AICHE Annual Meeting, Conference Proceedings. 2012

Tirkkonen L, Haimi S, Huttunen S, Wolff J, Pirhonen E, Sándor GK et al. **Osteogenic medium is superior to growth factors in differentiation of human adipose stem cells towards boneforming cells in 3D culture**. *European Cells and Materials*. 2012;25:144-158.

Mousa A, Heinrich G, Kretschmar B, Wagenknecht U, Das A. **Utilization of agrowaste polymers in PVC/NBR alloys: Tensile, thermal, and morphological properties**. *INTERNATIONAL JOURNAL OF CHEMICAL ENGINEERING*. 2012. 121496. <https://doi.org/10.1155/2012/121496>

Sarkanen JR, Kaila V, Mannerström B, Rätty S, Kuokkanen H, Miettinen S et al. **Human adipose tissue extract induces angiogenesis and adipogenesis in vitro.** Tissue Engineering Part A. 2012 Jan 1;18(1-2):17-25. <https://doi.org/10.1089/ten.tea.2010.0712>

Praveenkumar R, Johncy K, MubarakAli D, Vijayan D, Thajuddin N, Gunasekaran M. **Demonstration of increased lipid accumulation potential of stigeoclonium sp., Kütz. BUM11007 under nitrogen starved regime: A new source of lipids for biodiesel production.** Journal of Biobased Materials and Bioenergy. 2012 Apr;6(2):209-213. <https://doi.org/10.1166/jbmb.2012.1200>

Rooj S, Das A, Stöckelhuber KW, Reuter U, Heinrich G. **Highly exfoliated natural rubber/Clay composites by "propping-open procedure": The influence of fatty-acid chain length on exfoliation.** Macromolecular Materials and Engineering. 2012 Apr;297(4):369-383. <https://doi.org/10.1002/mame.201100185>

Wang DY, Das A, Leuteritz A, Mahaling RN, Jehnichen D, Wagenknecht U et al. **Structural characteristics and flammability of fire retarding EPDM/layered double hydroxide (LDH) nanocomposites.** RSC Advances. 2012 Apr 21;2(9):3927-3933. <https://doi.org/10.1039/c2ra20189e>

Rembert KB, Paterová J, Heyda J, Hilty C, Jungwirth P, Cremer PS. **Molecular mechanisms of ion-specific effects on proteins.** Journal of the American Chemical Society. 2012 Jun 20;134(24):10039-10046. <https://doi.org/10.1021/ja301297g>

Kousoulidou M, Ntziachristos L, Fontaras G, Martini G, Dilara P, Samaras Z. **Impact of biodiesel application at various blending ratios on passenger cars of different fueling technologies.** Fuel. 2012 Aug;98:88-94. <https://doi.org/10.1016/j.fuel.2012.03.038>

Gao W, Feng Y, Lu J, Khan M, Guo J. **Biomimetic surface modification of polycarbonateurethane film via phosphorylcholine-graft for resisting platelet adhesion.** Macromolecular Research. 2012 Oct;20(10):1063-1069. <https://doi.org/10.1007/s13233-012-0152-9>

Khan MN, Tjong V, Chilkoti A, Zharnikov M. **Fabrication of ssDNA/oligo(ethylene glycol) monolayers and complex nanostructures by an irradiation-promoted exchange reaction.** Angewandte Chemie (International Edition). 2012 Oct 8;51(41):10303-10306. <https://doi.org/10.1002/anie.201204245>

Steinhauser D, Subramaniam K, Das A, Heinrich G, Klüppel M. **Influence of ionic liquids on the dielectric relaxation behavior of CNT based elastomer nanocomposites.** Express Polymer Letters. 2012 Nov;6(11):927-936. <https://doi.org/10.3144/expresspolymlett.2012.98>

Mubarakali D, Praveenkumar R, Shenbagavalli T, Mari Nivetha T, Parveez Ahamed A, Al-Dhabi NA et al. **New reports on anti-bacterial and anti-candidal activities of fatty acid methyl esters (FAME) obtained from Scenedesmus bijugatus var. bicellularis biomass.** RSC Advances. 2012 Nov 28;2(30):11552-11556. <https://doi.org/10.1039/c2ra21130k>

Lahtinen K, Lahti J, Johansson P, Seppänen T, Cameron DC. **Improving the effect of a nanoscale barrier coating on BOPP film properties by surface pretreatments.** In 14th European PLACE Conference 2013. Vol. 1. TAPPI Press. 2013. p. 469-493

Kulig W, Agmon N. **A 'clusters-in-liquid' method for calculating infrared spectra identifies the proton-transfer mode in acidic aqueous solutions.** Nature Chemistry. 2013 Jan;5(1):29-35. <https://doi.org/10.1038/nchem.1503>

Wang H, Feng Y, Zhao H, Fang Z, Khan M, Guo J. **A potential nonthrombogenic small-diameter vascular scaffold with polyurethane/poly(ethylene glycol) hybrid materials by electrospinning technique.** Journal Nanoscience and Nanotechnology. 2013 Feb;13(2):1578-1582. <https://doi.org/10.1166/jnn.2013.6051>

Farman AT, Hong SH, Caglayan H, Ye X, Diroll BT, Paik T et al. **Chemically tailored dielectric-to-metal transition for the design of metamaterials from nanoimprinted colloidal nanocrystals.** Nano Letters. 2013 Feb 13;13(2):350-357. <https://doi.org/10.1021/nl303161d>

Rasappa S, Borah D, Faulkner CC, Lutz T, Shaw MT, Holmes JD et al. **Fabrication of a sub-10 nm silicon nanowire based ethanol sensor using block copolymer lithography**. *Nanotechnology*. 2013 Feb 15;24(6). 065503. <https://doi.org/10.1088/0957-4484/24/6/065503>

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

Tan M, Feng Y, Wang H, Zhang L, Khan M, Guo J et al. **Immobilized bioactive agents onto polyurethane surface with heparin and phosphorylcholine group**. *Macromolecular Research*. 2013 May;21(5):541-549. <https://doi.org/10.1007/s13233-013-1028-3>

Bayr S, Kaparaju P, Rintala J. **Screening pretreatment methods to enhance thermophilic anaerobic digestion of pulp and paper mill wastewater treatment secondary sludge**. *Chemical Engineering Journal*. 2013 May 1;223:479-486. <https://doi.org/10.1016/j.cej.2013.02.119>

Gordon TR, Paik T, Klein DR, Naik GV, Caglayan H, Boltasseva A et al. **Shape-dependent plasmonic response and directed self-assembly in a new semiconductor building block, indium-doped cadmium oxide (ICO)**. *Nano Letters*. 2013 Jun 12;13(6):2857-2863. <https://doi.org/10.1021/nl4012003>

Diban N, Haimi S, Bolhuis-Versteeg L, Teixeira S, Miettinen S, Poot A et al. **Development and characterization of poly(ϵ -caprolactone) hollow fiber membranes for vascular tissue engineering**. *Journal of Membrane Science*. 2013 Jul 1;438:29-37. <https://doi.org/10.1016/j.memsci.2013.03.024>

Stirnemann G, Wernersson E, Jungwirth P, Laage D. **Mechanisms of acceleration and retardation of water dynamics by ions**. *Journal of the American Chemical Society*. 2013 Aug 14;135(32):11824-11831. <https://doi.org/10.1021/ja405201s>

Pollheimer P, Taskinen B, Scherfler A, Gusenkov S, Creus M, Wiesauer P et al. **Reversible biofunctionalization of surfaces with a switchable mutant of avidin**. *Bioconjugate Chemistry*. 2013 Oct 16;24(10):1656-1668. <https://doi.org/10.1021/bc400087e>

Lee K, Lee SY, Na JG, Jeon SG, Praveenkumar R, Kim DM et al. **Magnetophoretic harvesting of oleaginous *Chlorella* sp. by using biocompatible chitosan/magnetic nanoparticle composites**. *Bioresource Technology*. 2013 Dec;149:575-578. <https://doi.org/10.1016/j.biortech.2013.09.074>

Savolainen J, Uhlig F, Ahmed S, Hamm P, Jungwirth P. **Direct observation of the collapse of the delocalized excess electron in water**. *Nature Chemistry*. 2014;6(8):697-701. <https://doi.org/10.1038/nchem.1995>

Le HH, Parsekar M, Ilisch S, Henning S, Das A, Stöckelhuber KW et al. **Effect of non-rubber components of NR on the carbon nanotube (CNT) localization in SBR/NR blends**. *Macromolecular Materials and Engineering*. 2014;299(5):569-582. <https://doi.org/10.1002/mame.201300254>

Rasappa S, Borah D, Senthamaraiannan R, Faulkner CC, Holmes JD, Morris MA. **Fabrication of 3-D nanodimensioned electric double layer capacitor structures using block copolymer templates**. *Journal Nanoscience and Nanotechnology*. 2014;14(7):5221-5227. <https://doi.org/10.1166/jnn.2014.8668>

Lahti J, Johansson P, Lahtinen K, Cameron DC, Seppänen T. **Improving the effect of nanoscale barrier coating on BOPP film properties: Influence of substrate contamination, web handling and pretreatments**. In TAPPI PLACE Conference 2014. Vol. 2. TAPPI Press. 2014. p. 1039-1061

Oksa M, Auerkari P, Salonen J, Varis T. **Nickel-based HVOF coatings promoting high temperature corrosion resistance of biomass-fired power plant boilers**. *Fuel Processing Technology*. 2014;125:236-245. <https://doi.org/10.1016/j.fuproc.2014.04.006>

Lee K, Lee SY, Praveenkumar R, Kim B, Seo JY, Jeon SG et al. **Repeated use of stable magnetic flocculant for efficient harvest of oleaginous *Chlorella* sp.** *Bioresource Technology*. 2014;167:284-290. <https://doi.org/10.1016/j.biortech.2014.06.055>

Eshwaran SB, Basu D, Kutlu B, Leuteritz A, Wagenknecht U, Stöckelhuber KW et al. **Stearate Modified Zinc-Aluminum Layered Double Hydroxides and Acrylonitrile Butadiene Rubber Nanocomposites.** *Polymer-Plastics Technology and Engineering*. 2014 Jan;53(1):65-73. <https://doi.org/10.1080/03602559.2013.843690>

Moerland RJ, Koskela JE, Kravchenko A, Simberg M, Van Der Vegte S, Kaivola M et al. **Large-area arrays of three-dimensional plasmonic subwavelength-sized structures from azopolymer surface-relief gratings.** *Materials Horizons*. 2014 Jan 1;1(1):74-80. <https://doi.org/10.1039/c3mh00008g>

Zhang D, Pekkanen-Mattila M, Shahsavani M, Falk A, Teixeira AI, Herland A. **A 3D Alzheimer's disease culture model and the induction of P21-activated kinase mediated sensing in iPSC derived neurons.** *Biomaterials*. 2014 Feb;35(5):1420-1428. <https://doi.org/10.1016/j.biomaterials.2013.11.028>

Sorkio A, Hongisto H, Kaarniranta K, Uusitalo H, Juuti-Uusitalo K, Skottman H. **Structure and barrier properties of human embryonic stem cell-derived retinal pigment epithelial cells are affected by extracellular matrix protein coating.** *Tissue Engineering Part A*. 2014 Feb 1;20(3-4):622-634. <https://doi.org/10.1089/ten.tea.2013.0049>

Ciranna A, Pawar SS, Santala V, Karp M, van Niel EWJ. **Assessment of metabolic flux distribution in the thermophilic hydrogen producer *Caloramator celer* as affected by external pH and hydrogen partial pressure.** *Microbial Cell Factories*. 2014 Mar 28;13(1). 48. <https://doi.org/10.1186/1475-2859-13-48>

Koskela JE, Liljeström V, Lim J, Simanek EE, Ras RHA, Priimagi A et al. **Light-fuelled transport of large dendrimers and proteins.** *Journal of the American Chemical Society*. 2014 May 14;136(19):6850-6853. <https://doi.org/10.1021/ja502623m>

Raghuwanshi S, Deswal D, Karp M, Kuhad RC. **Bioprocessing of enhanced cellulase production from a mutant of *Trichoderma asperellum* RCK2011 and its application in hydrolysis of cellulose.** *Fuel*. 2014 May 15;124:183-189. <https://doi.org/10.1016/j.fuel.2014.01.107>

Kurppa K, Hytönen VP, Nakari-Setälä T, Kulomaa MS, Linder MB. **Molecular engineering of avidin and hydrophobin for functional self-assembling interfaces.** *Colloids and Surfaces B: Biointerfaces*. 2014 Aug 1;120:102-109. <https://doi.org/10.1016/j.colsurfb.2014.05.010>

Praveenkumar R, Kim B, Choi E, Lee K, Cho S, Hyun JS et al. **Mixotrophic cultivation of oleaginous *Chlorella* sp. KR-1 mediated by actual coal-fired flue gas for biodiesel production.** *Bioprocess and Biosystems Engineering*. 2014 Sep 12;37(10):2083-2094. <https://doi.org/10.1007/s00449-014-1186-5>

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

Praveenkumar R, Kim B, Choi E, Lee K, Park JY, Lee JS et al. **Improved biomass and lipid production in a mixotrophic culture of *Chlorella* sp. KR-1 with addition of coal-fired flue-gas.** *Bioresource Technology*. 2014 Nov 1;171:500-505. <https://doi.org/10.1016/j.biortech.2014.08.112>

Lemmetyinen H, Tkachenko NV, Valeur B, Hotta JI, Ameloot M, Ernsting NP et al. **Time-resolved fluorescence methods (IUPAC technical report).** *Pure and Applied Chemistry*. 2014 Dec 1;86(12):1969-1998. <https://doi.org/10.1515/pac-2013-0912>

Taskinen B, Zauner D, Lehtonen SI, Koskinen M, Thomson C, Kähkönen N et al. **Switchavidin: Reversible biotin-avidin-biotin bridges with high affinity and specificity.** *Bioconjugate Chemistry*. 2014 Dec 17;25(12):2233-2243. <https://doi.org/10.1021/bc500462w>

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

Kamppuri T, Vehviläinen M, Puolakka A, Honkanen M, Vippola M, Rissanen M. **Characterisation of novel regenerated cellulosic, viscose, and cotton fibres and the dyeing properties of fabrics**. Coloration Technology. 2015;131(5):396-402. <https://doi.org/10.1111/cote.12163>

Di Capua F, Papirio S, Lens PNL, Esposito G. **Chemolithotrophic denitrification in biofilm reactors**. Chemical Engineering Journal. 2015;280:643-657. <https://doi.org/10.1016/j.cej.2015.05.131>

Mason PE, Uhlig F, Vaněk V, Buttersack T, Bauerecker S, Jungwirth P. **Coulomb explosion during the early stages of the reaction of alkali metals with water**. Nature Chemistry. 2015;7(3):250-254. <https://doi.org/10.1038/nchem.2161>

Lehtonen SI, Taskinen B, Ojala E, Kukkurainen S, Rahikainen R, Riihimäki TA et al. **Efficient preparation of shuffled DNA libraries through recombination (Gateway) cloning**. Protein Engineering Design and Selection. 2015;28(1):23-28. <https://doi.org/10.1093/protein/gzu050>

Karvountzis-Kontakiotis A, Ntziachristos L. **Enquête de la variabilité cycle-`-cycle du NO dans la combustion homogène**. OIL AND GAS SCIENCE AND TECHNOLOGY : REVUE DE L'INSTITUT FRANCAIS DU PETROLE. 2015;70(1):111-123. <https://doi.org/10.2516/ogst/2013199>

Palmroth MRT, Mönkäre TJ, Steffen KT. **Fungal treatment of landfill mining fine fraction to increase its stability and end-use potential**. In Kalogerakis N, Fava F, Manousaki E, editors, Book of abstracts of the 6th European Bioremediation Conference. 2015. p. 47. 169

Nancharaiyah YV, Venkata Mohan S, Lens PNL. **Metals removal and recovery in bioelectrochemical systems: A review**. Bioresource Technology. 2015;195:102-114. <https://doi.org/10.1016/j.biortech.2015.06.058>

Bechet D, Auger F, Couleaud P, Marty E, Ravasi L, Durieux N et al. **Multifunctional ultrasmall nanoplateforms for vascular-targeted interstitial photodynamic therapy of brain tumors guided by real-time MRI**. NANOMEDICINE: NANOTECHNOLOGY BIOLOGY AND MEDICINE. 2015;11(3):657-670. <https://doi.org/10.1016/j.nano.2014.12.007>

Stumpel JE, Broer DJ, Schenning APHJ. **Water-responsive dual-coloured photonic polymer coatings based on cholesteric liquid crystals**. RSC Advances. 2015;5(115):94650-94653. <https://doi.org/10.1039/c5ra18017a>

Mettänen M, Hirn U. **A comparison of five optical surface topography measurement methods**. TAPPI Journal. 2015 Jan 1;14(1):27-38.

Yi H, Albrecht M, Valkonen A, Rissanen K. **Perfluoro-1,1'-biphenyl and perfluoronaphthalene and their derivatives as π -acceptors for anions**. New Journal of Chemistry. 2015 Jan 1;39(1):746-749. <https://doi.org/10.1039/c4nj01654h>

Schroeder CA, Pluharová E, Seidel R, Schroeder WP, Faubel M, Slaviček P et al. **Oxidation half-reaction of aqueous nucleosides and nucleotides via photoelectron spectroscopy augmented by ab initio calculations**. Journal of the American Chemical Society. 2015 Jan 14;137(1):201-209. <https://doi.org/10.1021/ja508149e>

Czaplicki R, Mäkitalo J, Siikanen R, Husu H, Lehtolahti J, Kuittinen M et al. **Second-Harmonic Generation from Metal Nanoparticles: Resonance Enhancement versus Particle Geometry**. Nano Letters. 2015 Jan 14;15(1):530-534. <https://doi.org/10.1021/nl503901e>

Bautista G, Mäkitalo J, Chen Y, Dhaka V, Grasso M, Karvonen L et al. **Second-harmonic generation imaging of semiconductor nanowires with focused vector beams**. Nano Letters. 2015 Feb 6;15(3):1564-1569. <https://doi.org/10.1021/nl503984b>

- Zou G, Papirio S, van Hullebusch ED, Puhakka JA. **Fluidized-bed denitrification of mining water tolerates high nickel concentrations.** *Bioresource Technology.* 2015 Mar 1;179:284-290. <https://doi.org/10.1016/j.biortech.2014.12.044>
- Potapov I, Zhurov B, Volkov E. **Multi-stable dynamics of the non-adiabatic repressilator.** *Journal of the Royal Society. Interface.* 2015 Mar 6;12(104). 20141315. <https://doi.org/10.1098/rsif.2014.1315>
- Koivisto AJ, Aromaa M, Koponen IK, Fransman W, Jensen KA, Mäkelä JM et al. **Workplace performance of a loose-fitting powered air purifying respirator during nanoparticle synthesis.** *Journal of Nanoparticle Research.* 2015 Apr 9;17(4). <https://doi.org/10.1007/s11051-015-2990-9>
- Martins L, Fonseca J, Ribeiro A. **'miSimBa' - A simulator of synthetic time-lapsed microscopy images of bacterial cells.** In *Proceedings - 2015 IEEE 4th Portuguese Meeting on Bioengineering, ENBENG 2015.* The Institute of Electrical and Electronics Engineers, Inc. 2015. 7088854 <https://doi.org/10.1109/ENBENG.2015.7088854>
- Sorkio AE, Vuorimaa-Laukkanen EP, Hakola HM, Liang H, Ujula TA, Valle-Delgado JJ et al. **Biomimetic collagen I and IV double layer Langmuir-Schaefer films as microenvironment for human pluripotent stem cell derived retinal pigment epithelial cells.** *Biomaterials.* 2015 May 1;51:257-269. <https://doi.org/10.1016/j.biomaterials.2015.02.005>
- McManamon C, O'Connell J, Delaney P, Rasappa S, Holmes JD, Morris MA. **A facile route to synthesis of S-doped TiO₂ nanoparticles for photocatalytic activity.** *Journal of Molecular Catalysis A: Chemical.* 2015 May 30;406:51-57!. <https://doi.org/10.1016/j.molcata.2015.05.002>
- Perander M, DeMartini N, Brink A, Kramb J, Karlström O, Hemming J et al. **Catalytic effect of Ca and K on CO₂ gasification of spruce wood char.** *Fuel.* 2015 Jun 15;150:464-472. <https://doi.org/10.1016/j.fuel.2015.02.062>
- Massera J, Kokkari A, Närhi T, Hupa L. **The influence of SrO and CaO in silicate and phosphate bioactive glasses on human gingival fibroblasts.** *Journal of Materials Science: Materials in Medicine.* 2015 Jun 25;26(6). 196. <https://doi.org/10.1007/s10856-015-5528-x>
- Marjakangas JM, Lakaniemi AM, Koskinen PEP, Chang JS, Puhakka JA. **Lipid production by eukaryotic microorganisms isolated from palm oil mill effluent.** *Biochemical Engineering Journal.* 2015 Jul 5;99:48-54. <https://doi.org/10.1016/j.bej.2015.03.006>
- Hakkarainen TV, 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).** *Nanotechnology.* 2015 Jul 18;26(27). 275301. <https://doi.org/10.1088/0957-4484/26/27/275301>
- Çetinkaya AY, Köroğlu EO, Demir NM, Baysoy DY, Özkaya B, Çakmakçı M. **Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration.** *Chinese Journal of Catalysis.* 2015 Jul 20;36(7):1068-1076. [https://doi.org/10.1016/S1872-2067\(15\)60833-6](https://doi.org/10.1016/S1872-2067(15)60833-6)
- Rasappa S, Caridad JM, Schulte L, Cagliani A, Borah D, Morris MA et al. **High quality sub-10 nm graphene nanoribbons by on-chip PS-b-PDMS block copolymer lithography.** *RSC Advances.* 2015 Jul 29;5(82):66711-66717. <https://doi.org/10.1039/c5ra11735f>
- Kanerva U, Suhonen T, Lagerbom J, Levänen E. **Evaluation of crushing strength of spray-dried MgAl₂O₄ granule beds.** *Ceramics International.* 2015 Aug 1;41(7):8494-8500. <https://doi.org/10.1016/j.ceramint.2015.03.056>
- Foroutan F, Walters NJ, Owens GJ, Mordan NJ, Kim HW, de Leeuw NH et al. **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).** *Biomedical materials (Bristol, England).* 2015 Aug 1;10(4):45025. <https://doi.org/10.1088/1748-6041/10/4/045025>

- Levin M, Rojas E, Vanhala E, Vippola M, Liguori B, Kling KI et al. **Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials: implications for testing and risk assessment.** *Journal of Nanoparticle Research*. 2015 Aug 14;17(8). 337. <https://doi.org/10.1007/s11051-015-3139-6>
- Nikkanen JP, Huttunen-Saarivirta E, Salminen T, Hyvärinen L, Honkanen M, Isotahdon E et al. **Enhanced photoactive and photoelectrochemical properties of TiO₂ sol-gel coated steel by the application of SiO₂ intermediate layer.** *Applied Catalysis B-Environmental*. 2015 Sep 1;174-175:533-543. <https://doi.org/10.1016/j.apcatb.2015.03.014>
- Bajamundi CJE, Vainikka P, Hedman M, Silvennoinen J, Heinanen T, Taipale R et al. **Searching for a robust strategy for minimizing alkali chlorides in fluidized bed boilers during burning of high SRF-energy-share fuel.** *Fuel*. 2015 Sep 1;155:25-36. <https://doi.org/10.1016/j.fuel.2015.03.087>
- Sorkio A, Porter PJ, Juuti-Uusitalo K, Meenan BJ, Skottman H, Burke GA. **Surface Modified Biodegradable Electrospun Membranes as a Carrier for Human Embryonic Stem Cell-Derived Retinal Pigment Epithelial Cells.** *Tissue Engineering Part A*. 2015 Sep 1;21(17-18):2301-2314. <https://doi.org/10.1089/ten.tea.2014.0640>
- Kokko ME, Mäkinen AE, Sulonen MLK, Puhakka JA. **Effects of anode potentials on bioelectrogenic conversion of xylose and microbial community compositions.** *Biochemical Engineering Journal*. 2015 Sep 5;101:248-252. <https://doi.org/10.1016/j.bej.2015.06.007>
- Ter Schiphorst J, Coleman S, Stumpel JE, Ben Azouz A, Diamond D, Schenning APHJ. **Molecular Design of Light-Responsive Hydrogels, for in Situ Generation of Fast and Reversible Valves for Microfluidic Applications.** *Chemistry of Materials*. 2015 Sep 8;27(17):5925-5931. <https://doi.org/10.1021/acs.chemmater.5b01860>
- Polishchuk A, Valev D, Tarvainen M, Mishra S, Kinnunen V, Antal T et al. **Cultivation of Nannochloropsis for eicosapentaenoic acid production in wastewaters of pulp and paper industry.** *Bioresource Technology*. 2015 Oct 1;193:469-476. <https://doi.org/10.1016/j.biortech.2015.06.135>
- Vapaavuori J, Laventure A, Bazuin CG, Lebel O, Pellerin C. **Submolecular Plasticization Induced by Photons in Azobenzene Materials.** *Journal of the American Chemical Society*. 2015 Oct 28;137(42):13510-13517. <https://doi.org/10.1021/jacs.5b06611>
- Zorzi GK, Párraga JE, Seijo B, Sanchez A. **Comparison of different cationized proteins as biomaterials for nanoparticle-based ocular gene delivery.** *Colloids and Surfaces B: Biointerfaces*. 2015 Nov 1;135:533-541. <https://doi.org/10.1016/j.colsurfb.2015.08.008>
- Le HH, Parsaker M, Sriharish MN, Henning S, Menzel M, Wießner S et al. **Effect of rubber polarity on selective wetting of carbon nanotubes in ternary blends.** *Express Polymer Letters*. 2015 Nov 1;9(11):960-971. <https://doi.org/10.3144/expresspolymlett.2015.87>
- Marjakangas JM, Chen CY, Lakaniemi AM, Puhakka JA, Whang LM, Chang JS. **Simultaneous nutrient removal and lipid production with *Chlorella vulgaris* on sterilized and non-sterilized anaerobically pretreated piggy wastewater.** *Biochemical Engineering Journal*. 2015 Nov 5;103:177-184. <https://doi.org/10.1016/j.bej.2015.07.011>
- Seo JY, Lee K, Ramasamy P, Kim B, Lee SY, Oh YK et al. **Tri-functionality of Fe₃O₄-embedded carbon microparticles in microalgae harvesting.** *Chemical Engineering Journal*. 2015 Nov 5;280:206-214. <https://doi.org/10.1016/j.cej.2015.05.122>
- Kaouk A, Ruoko TP, Gönüllü Y, Kaunisto K, Mettenböcker A, Gurevich E et al. **Graphene-intercalated Fe₂O₃/TiO₂ heterojunctions for efficient photoelectrolysis of water.** *RSC Advances*. 2015 Nov 13;5(123):101401-101407. <https://doi.org/10.1039/c5ra18330h>
- Zhao MD, Björninen M, Cao L, Wang HR, Pelto J, Li XQ et al. **Polypyrrole coating on poly-(lactide/glycolide)-β-tricalcium phosphate screws enhances new bone formation in rabbits.** *Biomedical Materials*. 2015 Nov 27;10(6). 065016. <https://doi.org/10.1088/1748-6041/10/6/065016>

Mäki AJ, Peltokangas M, Kreutzer J, Auvinen S, Kallio P. **Modeling carbon dioxide transport in PDMS-based microfluidic cell culture devices**. *Chemical Engineering Science*. 2015 Dec 1;137:515-524. <https://doi.org/10.1016/j.ces.2015.06.065>

Alanen J, Saukko E, Lehtoranta K, Murtonen T, Timonen H, Hillamo R et al. **The formation and physical properties of the particle emissions from a natural gas engine**. *Fuel*. 2015 Dec 15;162:155-161. <https://doi.org/10.1016/j.fuel.2015.09.003>

Honkanen M, Kärkkäinen M, Kolli T, Heikkinen O, Viitanen V, Zeng L et al. **Accelerated deactivation studies of the natural-gas oxidation catalyst-Verifying the role of sulfur and elevated temperature in catalyst aging**. *Applied Catalysis B-Environmental*. 2016;439-448. <https://doi.org/10.1016/j.apcatb.2015.09.054>

Mahdiani S, Vanhala J, Viik J. **A novel generic algorithm for robust physiological signal classification**. In XIV Mediterranean Conference on Medical and Biological Engineering and Computing 2016: MEDICON 2016, March 31st–April 2nd 2016, Paphos, Cyprus. Springer Verlag. 2016. p. 1038-1043. (IFMBE Proceedings). https://doi.org/10.1007/978-3-319-32703-7_205

Mahdiani S, Jeyhani V, Vehkaoja A. **A review of transient suppression methods of IIR notch filters used for power-line interference rejection in ECG measurement**. In IFMBE Proceedings. Vol. 57. Springer Verlag. 2016. p. 151-156. (IFMBE Proceedings). https://doi.org/10.1007/978-3-319-32703-7_31

Prakash M, Peltomäki T, Eskola H. **A tool for geometrical measurements of orthognathic surgery changes using cone beam computed tomography**. In XIV Mediterranean Conference on Medical and Biological Engineering and Computing 2016: MEDICON 2016, March 31st–April 2nd 2016, Paphos, Cyprus. Springer Verlag. 2016. p. 430-433. (IFMBE Proceedings). https://doi.org/10.1007/978-3-319-32703-7_84

Nancharaiah YV, Mohan SV, Lens PNL. **Biological and Bioelectrochemical Recovery of Critical and Scarce Metals**. *Trends in Biotechnology*. 2016;34(2):137-155. <https://doi.org/10.1016/j.tibtech.2015.11.003>

Kim DY, Vijayan D, Praveenkumar R, Han JI, Lee K, Park JY et al. **Cell-wall disruption and lipid/astaxanthin extraction from microalgae: Chlorella and Haematococcus**. *Bioresource Technology*. 2016;199:300-310. <https://doi.org/10.1016/j.biortech.2015.08.107>

Solala I, Koistinen A, Siljander S, Vuorinen J, Vuorinen T. **Composites of high-temperature thermomechanical pulps and polylactic acid**. *BioResources*. 2016;11(1):1125-1140. <https://doi.org/10.15376/biores.11.1.1125-1140>

Halder A, Kandambeth S, Biswal BP, Kaur G, Roy NC, Addicoat M et al. **Decoding the Morphological Diversity in Two Dimensional Crystalline Porous Polymers by Core Planarity Modulation**. *Angewandte Chemie (International Edition)*. 2016;55(27):7806-7810. <https://doi.org/10.1002/anie.201600087>

Spataru A, Jain R, Chung JW, Gerner G, Krebs R, Lens PNL. **Enhanced adsorption of orthophosphate and copper onto hydrochar derived from sewage sludge by KOH activation**. *RSC Advances*. 2016;6(104):101827-101834. <https://doi.org/10.1039/c6ra22327c>

Basu D, Das A, Wang DY, George JJ, Stöckelhuber KW, Boldt R et al. **Fire-safe and environmentally friendly nanocomposites based on layered double hydroxides and ethylene propylene diene elastomer**. *RSC Advances*. 2016;6(31):26425-26436. <https://doi.org/10.1039/c5ra27444c>

Porkka PL. **Functional model for organisational and safety culture**. In *Chemical Engineering Transactions*. Italian Association of Chemical Engineering AIDIC. 2016. p. 907-912. (Chemical Engineering Transactions). <https://doi.org/10.3303/CET1648152>

Kato D, Sakai H, Tkachenko NV, Hasobe T. **High-Yield Excited Triplet States in Pentacene Self-Assembled Monolayers on Gold Nanoparticles through Singlet Exciton Fission**. *Angewandte Chemie (International Edition)*. 2016;55(17):5230-5234. <https://doi.org/10.1002/anie.201601421>

Mesaros A, Heittola T, Virtanen T. **Metrics for polyphonic sound event detection**. Applied Sciences. 2016;6(6). 162. <https://doi.org/10.3390/app6060162>

Lahti J. **Nanoscale barrier coating on BOPP packaging film by ALD**. In TAPPI PLACE Conference 2016: Exploring New Frontiers. TAPPI Press. 2016. p. 493-505

Perumbilavil S, Sridharan K, Abraham AR, Janardhanan HP, Kalarikkal N, Philip R. **Nonlinear transmittance and optical power limiting in magnesium ferrite nanoparticles: effects of laser pulsewidth and particle size**. RSC Advances. 2016;6(108):106754-106761. <https://doi.org/10.1039/c6ra15788b>

Jeyhani V, Vuorinen T, Noponen K, Mäntysalo M, Vehkaoja A. **Optimal short distance electrode locations for impedance pneumography measurement from the frontal thoracic area**. In XIV Mediterranean Conference on Medical and Biological Engineering and Computing 2016: MEDICON 2016, March 31st-April 2nd 2016, Paphos, Cyprus. Springer Verlag. 2016. p. 1138-1143. (IFMBE Proceedings). https://doi.org/10.1007/978-3-319-32703-7_223

Jain R, Dominic D, Jordan N, Rene ER, Weiss S, van Hullebusch ED et al. **Preferential adsorption of Cu in a multi-metal mixture onto biogenic elemental selenium nanoparticles**. Chemical Engineering Journal. 2016;284:917-925. <https://doi.org/10.1016/j.cej.2015.08.144>

Higashino T, Yamada T, Yamamoto M, Furube A, Tkachenko NV, Miura T et al. **Remarkable Dependence of the Final Charge Separation Efficiency on the Donor-Acceptor Interaction in Photoinduced Electron Transfer**. Angewandte Chemie (International Edition). 2016;55(2):629-633. <https://doi.org/10.1002/anie.201509067>

Saarinen JJ, Valtakari D, Bollström R, Stepien M, Haapanen J, Mäkelä JM et al. **Roll-to-roll application of photocatalytic TiO₂ nanoparticles for printed functionality**. In Advanced Manufacturing, Electronics and Microsystems: TechConnect Briefs 2016. Vol. 4. TechConnect. 2016. p. 47-50

Cavallo G, Terraneo G, Monfredini A, Saccone M, Priimägi A, Pilati T et al. **Superfluorinated Ionic Liquid Crystals Based on Supramolecular, Halogen-Bonded Anions**. Angewandte Chemie (International Edition). 2016;55(21):6300-6304. <https://doi.org/10.1002/anie.201601278>

Ylinen A, Mäkinen J, Kouhia R. **Two models for hydraulic cylinders in flexible multibody simulations**. In Computational Methods for Solids and Fluids: Multiscale Analysis, Probability Aspects and Model Reduction. Springer. 2016. p. 463-493. (Computational Methods in Applied Sciences). https://doi.org/10.1007/978-3-319-27996-1_17

Hannula M, Haaparanta AM, Tamminen I, Aula A, Kellomäki M, Hyttinen J. **X-ray microtomography of collagen and polylactide samples in liquids**. In XIV Mediterranean Conference on Medical and Biological Engineering and Computing 2016: MEDICON 2016, March 31st-April 2nd 2016, Paphos, Cyprus. Springer Verlag. 2016. p. 420-424. (IFMBE Proceedings). https://doi.org/10.1007/978-3-319-32703-7_82

Mahlamäki K, Niemi A, Jokinen J, Borgman J. **Importance of maintenance data quality in extended warranty simulation**. International Journal of COMADEM. 2016 Jan 1;19(1):3-10.

Vuornos K, Björninen M, Talvitie E, Paakinaho K, Kellomäki M, Huhtala H et al. **Human Adipose Stem Cells Differentiated on Braided Polylactide Scaffolds is a Potential Approach for Tendon Tissue Engineering**. Tissue Engineering Part A. 2016 Mar 1;22(5-6):513-523. <https://doi.org/10.1089/ten.tea.2015.0276>

Mal J, Nancharaiyah YV, Van Hullebusch ED, Lens PNL. **Metal chalcogenide quantum dots: Biotechnological synthesis and applications**. RSC Advances. 2016 Apr;6(47):41477-41495. <https://doi.org/10.1039/c6ra08447h>

Mal J, Nancharaiyah YV, van Hullebusch ED, Lens PNL. **Effect of heavy metal co-contaminants on selenite bioreduction by anaerobic granular sludge**. Bioresource Technology. 2016 Apr 1;206:1-8. <https://doi.org/10.1016/j.biortech.2016.01.064>

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

Isotahdon E, Huttunen-Saarivirta E, Kuokkala V-T. **Development of Magnetic Losses During Accelerated Corrosion Tests for Nd-Fe-B Magnets Used in Permanent Magnet Generators.** Corrosion. 2016 Jun 1;72(6):732-741. <https://doi.org/10.5006/2037>

Suominen O, Mörsky V, Ritala R, Vilkkio M. **Framework for optimization and scheduling of a copper production plant.** In 26th European Symposium on Computer Aided Process Engineering, 2016. Vol. 38. Elsevier Science B.V. 2016. p. 1243-1248. (Computer Aided Chemical Engineering). <https://doi.org/10.1016/B978-0-444-63428-3.50212-5>

Wikberg H, Ohra-aho T, Honkanen M, Kanerva H, Harlin A, Vippola M et al. **Hydrothermal carbonization of pulp mill streams.** Bioresource Technology. 2016 Jul 1;212:236-244. <https://doi.org/10.1016/j.biortech.2016.04.061>

Kramb J, DeMartini N, Perander M, Moilanen A, Konttinen J. **Modeling of the catalytic effects of potassium and calcium on spruce wood gasification in CO₂.** Fuel Processing Technology. 2016 Jul 1;148:50-59. <https://doi.org/10.1016/j.fuproc.2016.01.031>

Luna E, Wu M, Hanke M, Puustinen J, Guina M, Trampert A. **Spontaneous formation of three-dimensionally ordered Bi-rich nanostructures within GaAs_{1-x}Bi_x/GaAs quantum wells.** Nanotechnology. 2016 Jul 1;27(32). 325603. <https://doi.org/10.1088/0957-4484/27/32/325603>

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.** International Journal of Adhesion and Adhesives. 2016 Jul 1;68:298-304. <https://doi.org/10.1016/j.ijadhadh.2016.04.011>

Kärkkäinen M, Kollu T, Honkanen M, Heikkinen O, Väliheikki A, Huuhtanen M et al. **The Influence of Phosphorus Exposure on a Natural-Gas-Oxidation Catalyst.** Topics in Catalysis. 2016 Jul 1;59(10-12):1044-1048. <https://doi.org/10.1007/s11244-016-0587-x>

Stöckelhuber KW, (ed.), Das A, (ed.), Klüppel M, (ed.). **Designing of Elastomer Nanocomposites: From Theory to Application.** Springer International Publishing, 2016. (Advances in Polymer Science). <https://doi.org/10.1007/978-3-319-47696-4>

Basu D, Das A, Stöckelhuber KW, Wießner S. **Nanostructured Ionomeric Elastomers.** In Stöckelhuber KW, Das A, Klüppel M, editors, Designing of Elastomer Nanocomposites: From Theory to Applications. Springer International Publishing. 2016. p. 235-266. (Advances in Polymer Science). https://doi.org/10.1007/12_2016_8

Nancharaiyah YV, Venkata Mohan S, Lens PNL. **Recent advances in nutrient removal and recovery in biological and bioelectrochemical systems.** Bioresource Technology. 2016 Sep;215:173-185. <https://doi.org/10.1016/j.biortech.2016.03.129>

Pilehrood MK, Atashi A, Sadeghi-Aliabadi H, Nousiainen P, Harlin A. **3D micro-nano structured hybrid scaffolds: An investigation into the role of nanofiber coating on viability, proliferation and differentiation of seeded mesenchymal stem cells.** Journal Nanoscience and Nanotechnology. 2016 Sep 1;16(9):9000-9007. <https://doi.org/10.1166/jnn.2016.12740>

Sulonen MLK, Lakaniemi AM, Kokko ME, Puhakka JA. **Long-term stability of bioelectricity generation coupled with tetrathionate disproportionation.** Bioresource Technology. 2016 Sep 1;216:876-882. <https://doi.org/10.1016/j.biortech.2016.06.024>

Kramb J, Konttinen J, Backman R, Salo K, Roberts M. **Elimination of arsenic-containing emissions from gasification of chromated copper arsenate wood.** Fuel. 2016 Oct 1;181:319-324. <https://doi.org/10.1016/j.fuel.2016.04.109>

Will OM, Purcz N, Chalaris A, Heneweer C, Boretius S, Purcz L et al. **Increased survival rate by local release of diclofenac in a murine model of recurrent oral carcinoma.** International Journal of Nanomedicine. 2016 Oct 12;11:5311-5321. <https://doi.org/10.2147/IJN.S109199>

Ali-Löytty H, Hannula M, Honkanen M, Östman K, Lahtonen K, Valden M. **Grain orientation dependent Nb-Ti microalloying mediated surface segregation on ferritic stainless steel.** Corrosion Science. 2016 Nov;112:204-213. <https://doi.org/10.1016/j.corsci.2016.07.024>

Kim B, Praveenkumar R, Lee J, Nam B, Kim DM, Lee K et al. **Magnesium aminoclay enhances lipid production of mixotrophic *Chlorella* sp. KR-1 while reducing bacterial populations.** Bioresource Technology. 2016 Nov 1;219:608-613. <https://doi.org/10.1016/j.biortech.2016.08.034>

Ramasamy P, Kim B, Lee J, Vijayan D, Lee K, Nam B et al. **Mild pressure induces rapid accumulation of neutral lipid (triacylglycerol) in *Chlorella* spp.** Bioresource Technology. 2016 Nov 1;220:661-665. <https://doi.org/10.1016/j.biortech.2016.09.025>

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.** Bioresource Technology. 2016 Dec 1;221:78-84. <https://doi.org/10.1016/j.biortech.2016.09.017>

Ntziachristos L, Saukko E, Lehtoranta K, Rönkkö T, Timonen H, Simonen P et al. **Particle emissions characterization from a medium-speed marine diesel engine with two fuels at different sampling conditions.** Fuel. 2016 Dec 15;186:456-465. <https://doi.org/10.1016/j.fuel.2016.08.091>

Hyysalo A, Ristola M, Joki T, Honkanen M, Vippola M, Narkilahti S. **Aligned Poly(ϵ -caprolactone) Nanofibers Guide the Orientation and Migration of Human Pluripotent Stem Cell-Derived Neurons, Astrocytes, and Oligodendrocyte Precursor Cells In Vitro.** MACROMOLECULAR BIOSCIENCE. 2017;17(7). 1600517. <https://doi.org/10.1002/mabi.201600517>

Mal J, Nancharaiah YV, van Hullebusch ED, Lens PNL. **Biological removal of selenate and ammonium by activated sludge in a sequencing batch reactor.** Bioresource Technology. 2017;229:11-19. <https://doi.org/10.1016/j.biortech.2016.12.112>

Tao R, Lakaniemi A-M, Rintala JA. **Cultivation of *Scenedesmus acuminatus* in different liquid digestates from anaerobic digestion of pulp and paper industry biosludge.** Bioresource Technology. 2017;245(A):706-713. <https://doi.org/10.1016/j.biortech.2017.08.218>

Peltokangas M, Telembeci AA, Verho J, Leikkala J, Vehkaoja A, Oksala N. **Day-to-day repeatability of the results of the finger-toe-plot analysis.** In 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. p. 534-537. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_134

Nogueira IBR, Ribeiro AM, Rodrigues AE, Loureiro JM. **Dynamic response to process disturbances—A comparison between TMB/SMB models in transient regime.** Computers and Chemical Engineering. 2017;99:230-244. <https://doi.org/10.1016/j.compchemeng.2017.01.026>

Tuohimäki K, Mahdiani S, Jeyhani V, Vehkaoja A, Iso-Ketola P, Vanhala J et al. **Electrode comparison for textile-integrated electrocardiogram and impedance pneumography measurement.** In 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. p. 302-305. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_76

Eskola H, (ed.), Väisänen O, (ed.), Viik J, (ed.), Hyttinen J, (ed.). **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). <https://doi.org/10.1007/978-981-10-5122-7>

Mäkelä JM, Haapanen J, Harra J, Juuti P, Kujanpää S. **Liquid flame spray—a hydrogen-oxygen flame based method for nanoparticle synthesis and functional nano-coatings.** KONA POWDER AND PARTICLE JOURNAL. 2017;2017(34):141-154. <https://doi.org/10.14356/kona.2017020>

Peltokangas M, Huotari M, Verho J, Mattila VM, Rönning J, Romsa P et al. **Short-term stability of combined finger and toe photoplethysmogram analysis.** In 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. p. 342-345. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_86

Vapaavuori J, Siiskonen A, Dichiarante V, Forni A, Saccone M, Pilati T et al. **Supramolecular control of liquid crystals by doping with halogen-bonding dyes.** RSC Advances. 2017;7(64):40237-40242. <https://doi.org/10.1039/c7ra06397k>

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

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

Lahti J, Kampuri T, Kuusipalo J. **Novel bio-based materials for active and intelligent packaging.** In 16th TAPPI European PLACE Conference 2017. TAPPI Press. 2017

Lahti J, Kuusipalo J, Auvinen S. **Novel equipment to simulate hot air heat sealability of packaging materials.** In 16th TAPPI European PLACE Conference 2017. TAPPI Press. 2017. p. 237-248

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

Siiskonen A, Priimägi A. **Benchmarking DFT methods with small basis sets for the calculation of halogen-bond strengths.** Journal of Molecular Modeling. 2017 Feb 1;23(2). 50. <https://doi.org/10.1007/s00894-017-3212-4>

Milani R, Houbenov N, Fernandez-Palacio F, Cavallo G, Luzio A, Haataja J et al. **Hierarchical Self-Assembly of Halogen-Bonded Block Copolymer Complexes into Upright Cylindrical Domains.** Chem. 2017 Mar 9;2(3):417-426. <https://doi.org/10.1016/j.chempr.2017.02.003>

Bilkova E, Pleskot R, Rissanen S, Sun S, Czogalla A, Cwiklik L et al. **Calcium Directly Regulates Phosphatidylinositol 4,5-Bisphosphate Headgroup Conformation and Recognition.** Journal of the American Chemical Society. 2017 Mar 22;139(11):4019-4024. <https://doi.org/10.1021/jacs.6b11760>

Koivisto JT, Joki T, Parraga JE, Paakkönen R, Ylä-Outinen L, Salonen L et al. **Bioamine-crosslinked gellan gum hydrogel for neural tissue engineering.** Biomedical Materials. 2017 Mar 24;12(2). 025014. <https://doi.org/10.1088/1748-605X/aa62b0>

Honkanen M, Hansen TW, Jiang H, Kärkkäinen M, Huuhtanen M, Heikkinen O et al. **Electron microscopic studies of natural gas oxidation catalyst – Effects of thermally accelerated aging on catalyst microstructure.** Journal of Catalysis. 2017 May 1;349:19-29. <https://doi.org/10.1016/j.jcat.2017.03.003>

Kramb J, Gómez-Barea A, DeMartini N, Romar H, Doddapaneni TRKC, Konttinen J. **The effects of calcium and potassium on CO₂ gasification of birch wood in a fluidized bed.** Fuel. 2017 May 15;196:398-407. <https://doi.org/10.1016/j.fuel.2017.01.101>

Kaleva A, Saarimaa V, Heinonen S, Nikkanen J-P, Markkula A, Väisänen P et al. **Dissolution-induced nanowire synthesis on hot-dip galvanized surface in supercritical carbon dioxide.** *Nanomaterials*. 2017 Jul 11;7(7). 181. <https://doi.org/10.3390/nano7070181>

Di Capua F, Milone I, Lakaniemi A-M, Hullebusch EDV, Lens PNL, Esposito G. **Effects of different nickel species on autotrophic denitrification driven by thiosulfate in batch tests and a fluidized-bed reactor.** *Bioresource Technology*. 2017 Aug 1;238:534-541. <https://doi.org/10.1016/j.biortech.2017.04.082>

Pirjola L, Rönkkö T, Saukko E, Parviainen H, Malinen A, Alanen J et al. **Exhaust emissions of non-road mobile machine: Real-world and laboratory studies with diesel and HVO fuels.** *Fuel*. 2017 Aug 15;202:154-164. <https://doi.org/10.1016/j.fuel.2017.04.029>

Timr Š, Pleskot R, Kadlec J, Kohagen M, Magarkar A, Jungwirth P. **Membrane Binding of Recoverin: From Mechanistic Understanding to Biological Functionality.** *ACS Central Science*. 2017 Aug 23;3(8):868-874. <https://doi.org/10.1021/acscentsci.7b00210>

Jain R, Van Hullebusch ED, Lenz M, Farges F. **Understanding selenium biogeochemistry in engineered ecosystems: Transformation and analytical methods.** In *Bioremediation of Selenium Contaminated Wastewater*. Springer International Publishing. 2017. p. 33-56 https://doi.org/10.1007/978-3-319-57831-6_2

Uddin R, Nur-E-Habiba N, Rena G, Hwu ET, Boisen A. **New Evidence for the Mechanism of Action of a Type-2 Diabetes Drug Using a Magnetic Bead-Based Automated Biosensing Platform.** *ACS Sensors*. 2017 Sep 22;2(9):1329-1336. <https://doi.org/10.1021/acssensors.7b00384>

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

Boardman AD, Alberucci A, Assanto G, Grimalsky VV, Kibler B, McNiff J et al. **Waves in hyperbolic and double negative metamaterials including rogues and solitons.** *Nanotechnology*. 2017 Oct 9;28(44). 444001. <https://doi.org/10.1088/1361-6528/aa6792>

Danne R, Poojari C, Martinez-Seara H, Rissanen S, Lolicato F, Róg T et al. **DoGlycans-Tools for Preparing Carbohydrate Structures for Atomistic Simulations of Glycoproteins, Glycolipids, and Carbohydrate Polymers for GROMACS.** *Journal of Chemical Information and Modeling*. 2017 Oct 23;57(10):2401-2406. <https://doi.org/10.1021/acs.jcim.7b00237>

Lehtinen T, Efimova E, Tremblay PL, Santala S, Zhang T, Santala V. **Production of long chain alkyl esters from carbon dioxide and electricity by a two-stage bacterial process.** *Bioresource Technology*. 2017 Nov 1;243:30-36. <https://doi.org/10.1016/j.biortech.2017.06.073>

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

George L, Müller A, Röder B, Santala V, Efimov A. **Photodynamic self-disinfecting surface using pyridinium phthalocyanine.** *Dyes and Pigments*. 2017 Dec 1;147:334-342. <https://doi.org/10.1016/j.dyepig.2017.08.021>

Väliheikki A, Kärkkäinen M, Honkanen M, Heikkinen O, Kolli T, Kallinen K et al. **Deactivation of Pt/SiO₂-ZrO₂ diesel oxidation catalysts by sulphur, phosphorus and their combinations.** *Applied Catalysis B-Environmental*. 2017 Dec 5;218:409-419. <https://doi.org/10.1016/j.apcatb.2017.06.068>

Miinalainen T, Pursiainen S. **A case study of focal bayesian EEG inversion for whitney element source spaces: Mesh-based vs. cartesian orientations.** In *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. p. 1065-1068. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_266

Koivumäki J, Zhu WH, Mattila J. **Addressing closed-chain dynamics for high-precision control of hydraulic cylinder actuated manipulators**. In BATH/ASME 2018 Symposium on Fluid Power and Motion Control, FPMC 2018. ASME. 2018 <https://doi.org/10.1115/FPMC2018-8839>

Doddapaneni TRKC, Jain R, Praveenkumar R, Rintala J, Romar H, Konttinen J. **Adsorption of furfural from torrefaction condensate using torrefied biomass**. Chemical Engineering Journal. 2018;334:558-568. <https://doi.org/10.1016/j.cej.2017.10.053>

Havela R, Manninen T, Linne ML. **Altered synaptic signaling due to β -amyloid interference in astrocytes: A modeling study**. In 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. p. 679-682. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_170

Nurmi J, Aref MM, Mattila J. **A neural network strategy for learning of nonlinearities toward feed-forward control of pressure-compensated hydraulic valves with a significant dead zone**. In BATH/ASME 2018 Symposium on Fluid Power and Motion Control, FPMC 2018. ASME. 2018 <https://doi.org/10.1115/FPMC2018-8847>

Lylykangas J, Ilves M, Venesvirta H, Rantanen V, Mäkelä E, Vehkaoja A et al. **Artificial eye blink pacemaker - A first investigation into the blink production using constant-interval electrical stimulation**. In 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. p. 522-525. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_131

Palma CSD, Startceva S, Neeli-Venkata R, Zare M, Goncalves NSM, Fonseca JM et al. **A strategy for dissecting the kinetics of transcription repression mechanisms**. In 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. p. 1097-1100. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_274

Rezaei Yousefi Z, Parak J, Tarniceriu A, Harju J, Yli-Hankala A, Korhonen I et al. **Atrial fibrillation detection from wrist photoplethysmography data using artificial neural networks**. In World Congress on Medical Physics and Biomedical Engineering 2018. Vol. 2. Springer. 2018. p. 399-404. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-9038-7_75

Ilvesmäki T, Hakulinen U, Eskola H. **Automated pipeline for brain ROI analysis with results comparable to previous freehand measures in clinical settings**. In 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. p. 635-638. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_159

Pirhonen M, Suominen O, Vehkaoja A. **Auto-regression-driven, reallocative particle filtering approaches in PPG-based respiration rate estimation**. In 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. p. 1020-1024. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_255

Lampinen S, Koivumäki J, Mattila J. **Bilateral teleoperation of a hydraulic robotic manipulator in contact with physical and virtual constraints**. In BATH/ASME 2018 Symposium on Fluid Power and Motion Control, FPMC 2018. ASME. 2018 <https://doi.org/10.1115/FPMC2018-8842>

Ojansivu M, Wang X, Hyväri L, Kellomäki M, Hupa L, Vanhatupa S et al. **Bioactive glass induced osteogenic differentiation of human adipose stem cells is dependent on cell attachment mechanism and mitogen-activated protein kinases**. European Cells and Materials. 2018;35:53-71. <https://doi.org/10.22203/eCM.v035a05>

Korkka I, Johansson JK, Skottman H, Hyttinen J, Nymark S. **Characterization of chloride channels in human embryonic stem cell derived retinal pigment epithelium.** In 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. p. 454-457. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_114

Helander E, Khodor N, Kallonen A, Värrä A, Patural H, Carrault G et al. **Comparison of linear and non-linear heart rate variability indices between preterm infants at their theoretical term age and full term newborns.** In 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. p. 153-156. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_39

Dessi P, Porca E, Haavisto J, Lakaniemi A-M, Collins G, Lens PNL. **Composition and role of the attached and planktonic microbial communities in mesophilic and thermophilic xylose-fed microbial fuel cells.** RSC Advances. 2018;8(6):3069-3080. <https://doi.org/10.1039/c7ra12316g>

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.** In 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. p. 282-285. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_71

Välikangas T, Karvinen R. **Conjugated Heat Transfer Simulation of a Fin-and-Tube Heat Exchanger.** Heat Transfer Engineering. 2018;39(13-14):1192-1200. <https://doi.org/10.1080/01457632.2017.1363628>

Lipping T, Erkontalo N, Särkelä M, Takala RSK, Katila A, Frantzén J et al. **Connectivity analysis of full montage EEG in traumatic brain injury patients in the ICU.** In 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. p. 97-100. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_25

Hernando D, Kähönen M, Lázaro J, Lehtinen R, Nieminen T, Nikus K et al. **Coronary artery disease diagnosis by means of heart rate variability analysis using respiratory information.** In 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. p. 270-273. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_68

Olejarczyk E, Lipping T, Marciniak R. **Correlation of depth of anesthesia indexes with MAC in volatile anesthesia.** In 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. p. 972-975. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_243

Ojha N, Nguyen H, Laihininen T, Salminen T, Lastusaari M, Petit L. **Decomposition of persistent luminescent microparticles in corrosive phosphate glass melt.** Corrosion Science. 2018;135:207-214. <https://doi.org/10.1016/j.corsci.2018.02.050>

Tenhunen M, Hyttinen J, Viik J, Perez-Macias JM, Himanen SL. **Detection and assessment of sleep-disordered breathing with emfit mattress.** In 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. p. 173-176. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_44

Danaee S, Nurmi J, Minav T, Mattila J, Pietola M. **Direct position control of electro-hydraulic excavator.** In BATH/ASME 2018 Symposium on Fluid Power and Motion Control, FPMC 2018. ASME. 2018 <https://doi.org/10.1115/FPMC2018-8896>

Joutsen AS, Kaappa ES, Karinsalo TJ, Vanhala J. **Dry electrode sizes in recording ECG and heart rate in wearable applications.** In 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. p. 735-738. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_184

Tikkanen S, Ahola V, Koskela E. **Effect of driver and work cycle on losses of a loader.** In BATH/ASME 2018 Symposium on Fluid Power and Motion Control, FPMC 2018. ASME. 2018 <https://doi.org/10.1115/FPMC2018-8919>

Khanongnuch R, Di Capua F, Lakaniemi A-M, Rene ER, Lens PNL. **Effect of N/S ratio on anoxic thiosulfate oxidation in a fluidized bed reactor: Experimental and artificial neural network model analysis.** Process Biochemistry. 2018;68:171-181. <https://doi.org/10.1016/j.procbio.2018.02.018>

Alametsä J, Viik J. **Effects of nitroglycerin to ballistocardiography by EMFi.** In World Congress on Medical Physics and Biomedical Engineering 2018. Vol. 2. Springer. 2018. p. 541-545. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-9038-7_99

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

Jäntti V, Subramaniyam NP, Kamata K, Ylinen T, Yli-Hankala A, Kauppinen P et al. **Electric field of eeg during anesthesia** . In 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. p. 354-357. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_89

Chamrad J, Marcián P, Narra N, Borák L. **Evaluating different shapes of cranial fixation mini-plates using finite element method.** In 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. p. 747-750. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_187

Pietilä J, Mehrang S, Tolonen J, Helander E, Jimison H, Pavel M et al. **Evaluation of the accuracy and reliability for photoplethysmography based heart rate and beat-to-beat detection during daily activities.** In 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. p. 145-148. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_37

Väläkangas T, Singh S, Sørensen K, Condra T. **Fin-and-tube heat exchanger enhancement with a combined herringbone and vortex generator design.** International Journal of Heat and Mass Transfer. 2018;118:602-616. <https://doi.org/10.1016/j.ijheatmasstransfer.2017.11.006>

Koskela O, Lehti-Polojärvi M, Seppänen A, Figueiras E, Hyttinen J. **Finite element mapping for efficient image reconstruction in rotational electrical impedance tomography.** In World Congress on Medical Physics and Biomedical Engineering 2018. Vol. 2. Springer. 2018. p. 901-904. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-9038-7_166

Mäkinen P, Dmitrochenko O, Mattila J. **Floating frame of reference formulation for a flexible manipulator with hydraulic actuation - Modelling and experimental validation.** In BATH/ASME 2018 Symposium on Fluid Power and Motion Control, FPMC 2018. ASME. 2018 <https://doi.org/10.1115/FPMC2018-8846>

Vuorinen T, Laurila MM, Mangayil R, Karp M, Mäntysalo M. **High resolution E-jet printed temperature sensor on artificial skin.** In 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. p. 839-842. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_210

Mehrang S, Pietilä J, Tolonen J, Helander E, Jimison H, Pavel M et al. **Human activity recognition using a single optical heart rate monitoring wristband equipped with triaxial accelerometer.** In 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. p. 587-590. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_147

Hassan SS, Mangayil R, Aho T, Yli-Harja O, Karp M. **Identification of feasible pathway information for c-di-GMP binding proteins in cellulose production.** In 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. p. 667-670. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_167

Teppola H, Sarkanen JR, Jalonen TO, Linne ML. **Impacts of laminin and polyethyleneimine surface coatings on morphology of differentiating human SH-SY5Y cells and networks.** In 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. p. 298-301. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_75

Ince T, Zabihi M, Kiranyaz S, Gabbouj M. **Learned vs. hand-designed features for ECG beat classification: A comprehensive study.** In 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. p. 551-554. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_138

Jauhiainen M, Gracia J, Seppä VP, Mahrberg H, Tuomisto L, Laurikka J et al. **Linearity of simultaneously recorded impedance pneumography and direct pneumotachography in thoracic surgery patients.** In 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. p. 1077-1080. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_269

Kontunen A, Rantanen V, Vehkaoja A, Ilves M, Lylykangas J, Mäkelä E et al. **Low-latency EMG onset and termination detection for facial pacing.** In 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. p. 1016-1019. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_254

Linjama M. **Model-based control of a digital hydraulic transformer-based hybrid actuator.** In BATH/ASME 2018 Symposium on Fluid Power and Motion Control, FPMC 2018. ASME. 2018 <https://doi.org/10.1115/FPMC2018-8866>

Acar E, Baikoghli MA, Stark M, Peltonen S, Ruotsalainen U, Cheng RH. **Multiresolution MAPEM method for 3D reconstruction of symmetrical particles with electron microscopy.** In 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. p. 141-144. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_36

Jokinen VI, Korpela J, Lehtinen E, Perttunen J, Viik J. **Nocturnal use of light compression garments and recovery.** In 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. p. 125-128. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_32

Milagro J, Gil E, Bolea J, Seppä VP, Malmberg LP, Pelkonen AS et al. **Nonlinear dynamics of heart rate variability in children with asthmatic symptoms.** In 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. p. 815-818. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_204

Gracia J, Seppä VP, Pelkonen A, Kotaniemi-Syrjänen A, Mäkelä M, Malmberg P et al. **Nonlinear local projection filter for impedance pneumography.** In 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. p. 306-309. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_77

Belay B, Koivisto JT, Vuornos K, Montonen T, Koskela O, Lehti-Polojärvi M et al. **Optical projection tomography imaging of single cells in 3D gellan gum hydrogel.** In 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. p. 996-999. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_249

Tunninen V, Kauppinen T, Eskola H. **Optimization of ^{99m}Tc -sestamibi/ ^{123}I subtraction SPECT/CT protocol for parathyroid scintigraphy.** In 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. p. 847-851. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_212

Losoi P, Aho T. **Pathvalue: Pathways with value.** In 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. p. 583-586. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_146

Kaappa ES, Joutsen AS, Vanhala J. **Performance analysis of novel flexible electrodes for wearable ECG/heart rate monitoring.** In 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. p. 237-240. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_60

Tunninen V, Kauppinen T, Eskola H. **Physical characteristics of collimators for dual-isotope imaging with ^{99m}Tc and ^{123}I .** In 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. p. 245-249. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_62

Zhu L, Kesseli J, Nykter M, Huttunen H. **Predicting gene expression levels from histone modification signals with convolutional recurrent neural networks.** In 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. p. 555-558. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_139

Honkanen M, Wang J, Kärkkäinen M, Huuhtanen M, Jiang H, Kallinen K et al. **Regeneration of sulfur-poisoned Pd-based catalyst for natural gas oxidation.** Journal of Catalysis. 2018;358:253-265. <https://doi.org/10.1016/j.jcat.2017.12.021>

Gering C, Koivisto JT, Parraga JE, Kellomäki M. **Reproducible preparation method of hydrogels for cell culture applications – Case study with spermidine crosslinked gellan gum.** In 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. p. 811-814. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_203

Rantanen V, Vehkaoja A, Verho J. **Stimulation waveform selection to suppress functional electrical stimulation artifact from surface EMG signals.** In 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. p. 422-425. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_106

Ryynänen T, Lekkala J. **Temperature effect on the baseline noise in MEA measurements.** In 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. p. 5-8. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_2

Koivisto JT, Koskela O, Montonen T, Parraga JE, Joki T, Ylä-Outinen L et al. **Texture-property relations of bioamine crosslinked gellan gum hydrogels.** In 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. p. 189-192. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_48

Perez-Macias JM, Viik J, Värri A, Himanen S-L, Tenhunen M. **Time characteristics of prolonged partial obstruction periods using an Emfit mattress.** In 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. p. 775-778. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_194

Alametsä J, Viik J. **Twelve years follow-up of ballistocardiography**. In 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. p. 1117-1120. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_279

Mulholland K, Virkki J, Raunonen P, Merilampi S. **Wearable RFID perspiration sensor tags for well-being applications – From laboratory to field use**. In 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. p. 1012-1015. (IFMBE Proceedings). https://doi.org/10.1007/978-981-10-5122-7_253

Ojha N, Tuomisto M, Lastusaari M, Petit L. **Upconversion from fluorophosphate glasses prepared with NaYF₄:Er³⁺,Yb³⁺ nanocrystals**. RSC Advances. 2018 Jan 1;8(34):19226-19236. <https://doi.org/10.1039/c8ra03298j>

Lopez-Iscoa P, Pugliese D, Boetti NG, Janner D, Baldi G, Petit L et al. **Design, synthesis, and structure-property relationships of Er³⁺-doped TiO₂ luminescent particles synthesized by sol-gel**. Nanomaterials. 2018 Jan 2;8(1). 20. <https://doi.org/10.3390/nano8010020>

Lehtinen T, Efimova E, Santala S, Santala V. **Improved fatty aldehyde and wax ester production by overexpression of fatty acyl-CoA reductases**. Microbial Cell Factories. 2018 Feb 8;17(1). 19. <https://doi.org/10.1186/s12934-018-0869-z>

Hannula M, Ali-Löytty H, Lahtonen K, Sarlin E, Saari J, Valden M. **Improved Stability of Atomic Layer Deposited Amorphous TiO₂ Photoelectrode Coatings by Thermally Induced Oxygen Defects**. Chemistry of Materials. 2018 Feb 27;30(4):1199-1208. <https://doi.org/10.1021/acs.chemmater.7b02938>

Karvinen J, Joki T, Ylä-Outinen L, Koivisto JT, Narkilahti S, Kellomäki M. **Soft hydrazone crosslinked hyaluronan- and alginate-based hydrogels as 3D supportive matrices for human pluripotent stem cell-derived neuronal cells**. Reactive and Functional Polymers. 2018 Mar 1;124:29-39. <https://doi.org/10.1016/j.reactfunctpolym.2017.12.019>

Šutka A, Vanags M, Joost U, Šmits K, Ruža J, Ločs J et al. **Aqueous synthesis of Z-scheme photocatalyst powders and thin-film photoanodes from earth abundant elements**. Journal of Environmental Chemical Engineering. 2018 Apr 1;6(2):2606-2615. <https://doi.org/10.1016/j.jece.2018.04.003>

Åkerblom M, Raunonen P, Casella E, Disney MI, Danson FM, Gaulton R et al. **Non-intersecting leaf insertion algorithm for tree structure models**. Interface Focus. 2018 Apr 6;8(2). 20170045. <https://doi.org/10.1098/rsfs.2017.0045>

Kaasalainen S, Åkerblom M, Nevalainen O, Hakala T, Kaasalainen M. **Uncertainty in multispectral lidar signals caused by incidence angle effects**. Interface Focus. 2018 Apr 6;8(2). 20170033. <https://doi.org/10.1098/rsfs.2017.0033>

Disney MI, Boni Vicari M, Burt A, Calders K, Lewis SL, Raunonen P et al. **Weighing trees with lasers: Advances, challenges and opportunities**. Interface Focus. 2018 Apr 6;8(2). 20170048. <https://doi.org/10.1098/rsfs.2017.0048>

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

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

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

Raappana M, Polojärvi V, Aho A, Mäkelä J, Aho T, Tukiainen A et al. **Wet etching of dilute nitride GaInNAs, GaInNAsSb, and GaNAsSb alloys lattice-matched to GaAs.** Corrosion Science. 2018 May 15;136:268-274. <https://doi.org/10.1016/j.corsci.2018.03.018>

Zhou K, Dichlberger A, Martinez-Seara H, Nyholm TKM, Li S, Kim YA et al. **A Ceramide-Regulated Element in the Late Endosomal Protein LAPT4B Controls Amino Acid Transporter Interaction.** ACS Central Science. 2018 May 23;4(5):548-558. <https://doi.org/10.1021/acscentsci.7b00582>

Virkki K, Tervola E, Medel M, Torres T, Tkachenko NV. **Effect of Co-Adsorbate and Hole Transporting Layer on the Photoinduced Charge Separation at the TiO₂-Phthalocyanine Interface.** ACS Omega. 2018 May 31;3(5):4947-4958. <https://doi.org/10.1021/acsomega.8b00600>

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

Goyos-Ball L, Prado C, Díaz R, Fernández E, Ismailov A, Kumpulainen T et al. **The effects of laser patterning 10CeTZP-Al₂O₃ nanocomposite disc surfaces: Osseous differentiation and cellular arrangement in vitro.** Ceramics International. 2018 Jun;44(8):9472-9478. <https://doi.org/10.1016/j.ceramint.2018.02.164>

Kokko M, Epple S, Gescher J, Kerzenmacher S. **Effects of wastewater constituents and operational conditions on the composition and dynamics of anodic microbial communities in bioelectrochemical systems.** Bioresource Technology. 2018 Jun 1;258:376-389. <https://doi.org/10.1016/j.biortech.2018.01.090>

Kaunisto K, Kotilainen M, Karhu M, Lagerbom J, Vuorinen T, Honkanen M et al. **The effect of carbon and nickel additions on the precursor synthesis of Cr₃C₂-Ni nanopowder.** Ceramics International. 2018 Jun 1;44(8):9338-9346. <https://doi.org/10.1016/j.ceramint.2018.02.146>

Siljander S, Keinänen P, Rätty A, Ramakrishnan KR, Tuukkanen S, Kunnari V et al. **Effect of surfactant type and sonication energy on the electrical conductivity properties of nanocellulose-CNT nanocomposite films.** International Journal of Molecular Sciences. 2018 Jun 20;19(6). 1819. <https://doi.org/10.3390/ijms19061819>

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

Rajala S, Schouten M, Krijnen G, Tuukkanen S. **High Bending-Mode Sensitivity of Printed Piezoelectric Poly(vinylidene fluoride-co-trifluoroethylene) Sensors.** ACS Omega. 2018 Jul 23;3(7):8067-8073. <https://doi.org/10.1021/acsomega.8b01185>

Lampio K, Karvinen R. **A new method to optimize natural convection heat sinks.** Heat and Mass Transfer/Waerme- und Stoffuebertragung. 2018 Aug;54(8):2571-2580. <https://doi.org/10.1007/s00231-017-2106-4>

Tan LC, Espinosa-Ortiz EJ, Nancharaiah YV, van Hullebusch ED, Gerlach R, Lens PN. **Selenate removal in biofilm systems: Effect of nitrate and sulfate on selenium removal efficiency, biofilm structure and microbial community.** Journal of Chemical Technology and Biotechnology. 2018 Aug;93(8):2380-2389. <https://doi.org/10.1002/jctb.5586>

Mandal S, Garcia Iglesias M, Ince M, Torres T, Tkachenko NV. **Photoinduced Energy Transfer in ZnCdSeS Quantum Dot-Phthalocyanines Hybrids.** ACS Omega. 2018 Aug 31;3(8):10048-10057. <https://doi.org/10.1021/acsomega.8b01623>

Hyväluoma J, Hannula M, Arstila K, Wang H, Kulju S, Rasa K. **Effects of pyrolysis temperature on the hydrologically relevant porosity of willow biochar.** Journal of Analytical and Applied Pyrolysis. 2018 Sep;134. <https://doi.org/10.1016/j.jaap.2018.07.011>

Eregowda T, Matanhike L, Rene ER, Lens PNL. **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.** *Bioresource Technology*. 2018 Sep 1;263:591-600. <https://doi.org/10.1016/j.biortech.2018.04.095>

Jermakka J, Thompson Brewster E, Ledezma P, Freguia S. **Electro-concentration for chemical-free nitrogen capture as solid ammonium bicarbonate.** *Separation and Purification Technology*. 2018 Sep 12;203:48-55. <https://doi.org/10.1016/j.seppur.2018.04.023>

Dessi P, Porca E, Lakaniemi A-M, Collins G, Lens PNL. **Temperature control as key factor for optimal biohydrogen production from thermomechanical pulping wastewater.** *Biochemical Engineering Journal*. 2018 Sep 15;137:214-221. <https://doi.org/10.1016/j.bej.2018.05.027>

Martins DP, Leetanasaksakul K, Barros MT, Thamchaipenet A, Donnelly W, Balasubramaniam S. **Molecular Communications Pulse-based Jamming Model for Bacterial Biofilm Suppression.** *IEEE Transactions on Nanobioscience*. 2018 Oct;17(4):533-542. <https://doi.org/10.1109/TNB.2018.2871276>

Pihlman H, Keränen P, Paakinaho K, Linden J, Hannula M, Manninen IK et al. **Novel osteoconductive β -tricalcium phosphate/poly(L-lactide-co- ϵ -caprolactone) scaffold for bone regeneration: a study in a rabbit calvarial defect.** *Journal of Materials Science: Materials in Medicine*. 2018 Oct 1;29(10). 156. <https://doi.org/10.1007/s10856-018-6159-9>

Huttunen-Saarivirta E, Isotahdon E, Metsäjoki J, Salminen T, Carpén L, Ronkainen H. **Tribocorrosion behaviour of aluminium bronze in 3.5 wt.% NaCl solution.** *Corrosion Science*. 2018 Nov 1;144:207-223. <https://doi.org/10.1016/j.corsci.2018.08.058>

Nogueira IBR, Faria RPV, Requião R, Koivisto H, Martins MAF, Rodrigues AE et al. **Chromatographic studies of n-Propyl Propionate: Adsorption equilibrium, modelling and uncertainties determination.** *Computers and Chemical Engineering*. 2018 Nov 2;119:371-382. <https://doi.org/10.1016/j.compchemeng.2018.09.020>

Chevrier DM, Raich L, Rovira C, Das A, Luo Z, Yao Q et al. **Molecular-Scale Ligand Effects in Small Gold-Thiolate Nanoclusters.** *Journal of the American Chemical Society*. 2018 Nov 14;140(45):15430-15436. <https://doi.org/10.1021/jacs.8b09440>

Sakai H, Inaya R, Tkachenko NV, Hasobe T. **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.** *Chemistry - A European Journal*. 2018 Nov 16;24(64):17062-17071. <https://doi.org/10.1002/chem.201803257>

Rimpiläinen T, Andrade J, Nunes A, Ntungwe E, Fernandes AS, Vale JR et al. **Aminobenzylated 4-Nitrophenols as Antibacterial Agents Obtained from 5-Nitrosalicylaldehyde through a Petasis Borono-Mannich Reaction.** *ACS Omega*. 2018 Nov 29;3(11):16191-16202. <https://doi.org/10.1021/acsomega.8b02381>

Gasik M, Zühlke A, Haaparanta A-M, Muhonen V, Laine K, Bilotsky Y et al. **The importance of controlled mismatch of biomechanical compliances of implantable scaffolds and native tissue for articular cartilage regeneration.** *Frontiers in Bioengineering and Biotechnology*. 2018 Nov 30;6(NOV). 187. <https://doi.org/10.3389/fbioe.2018.00187>

Santala S, Efimova E, Santala V. **Dynamic decoupling of biomass and wax ester biosynthesis in *Acinetobacter baylyi* by an autonomously regulated switch.** *Metabolic Engineering Communications*. 2018 Dec 1;7. e00078. <https://doi.org/10.1016/j.mec.2018.e00078>

Czaplicki R, Kiviniemi A, Huttunen MJ, Zang X, Stolt T, Vartiainen I et al. **Less Is More: Enhancement of Second-Harmonic Generation from Metasurfaces by Reduced Nanoparticle Density.** *Nano Letters*. 2018 Dec 12;18(12):7709-7714. <https://doi.org/10.1021/acs.nanolett.8b03378>

Mänttari SK, Oksa JAH, Virkkala J, Pietilä JAK. **Activity Level and Body Mass Index as Predictors of Physical Workload During Working Career.** Safety and Health at Work. 2019. <https://doi.org/10.1016/j.shaw.2019.09.002>

Soltani A, Lahti J, Järvelä K, Laurikka J, Kuokkala VT, Hokka M. **Characterization of the anisotropic deformation of the right ventricle during open heart surgery.** COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING. 2019. <https://doi.org/10.1080/10255842.2019.1703133>

Sankelo P, Jokisalo J, Nyman J, Vinha J, Sirén K. **Cost-optimal energy performance measures in a new daycare building in cold climate.** International Journal of Sustainable Energy. 2019;38(2):104-122. <https://doi.org/10.1080/14786451.2018.1448398>

Hannula M, Narra N, Paakinaho K, Haaparanta A-M, Kellomäki M, Hyttinen J. **µCT based characterization of biomaterial scaffold microstructure under compression.** In World Congress on Medical Physics and Biomedical Engineering 2018. Springer. 2019. p. 165-169. (IFMBE Proceedings; 3). https://doi.org/10.1007/978-981-10-9023-3_30

Väläkangas T, Hærvig J, Kuuluvainen H, Dal Maso M, Peltonen P, Vuorinen V. **Deposition of dry particles on a fin-and-tube heat exchanger by a coupled soft-sphere DEM and CFD.** International Journal of Heat and Mass Transfer. 2019. 119046. <https://doi.org/10.1016/j.ijheatmasstransfer.2019.119046>

Hirvonen J, Jokisalo J, Heljo J, Kosonen R. **Effect of apartment building energy renovation on hourly power demand.** International Journal of Sustainable Energy. 2019. <https://doi.org/10.1080/14786451.2019.1613992>

Suokas E. **Effect of polyolefin molecular structure on product properties in extrusion coating.** In 17th Biennial TAPPI European PLACE Conference 2019. TAPPI Press. 2019. p. 89-98

Lylykangas J, Ilves M, Venesvirta H, Rantanen V, Mäkelä E, Vehkaoja A et al. **Electrical stimulation of eye blink in individuals with dry eye symptoms caused by chronic unilateral facial palsy.** In Badnjevic A, Gurbeta Pokvić L, Škrbić R, Badnjevic A, Gurbeta Pokvić L, editors, CMBEBIH 2019 - Proceedings of the International Conference on Medical and Biological Engineering. Springer Verlag. 2019. p. 7-11. (IFMBE Proceedings). https://doi.org/10.1007/978-3-030-17971-7_2

Ahonen T, Hanski J, Hyvärinen M, Kortelainen H, Uusitalo T, Vainio H et al. **Enablers and barriers of smart data-based asset management services in industrial business networks.** In Lecture Notes in Mechanical Engineering. Pleiades Publishing. 2019. p. 51-60. (Lecture Notes in Mechanical Engineering). https://doi.org/10.1007/978-3-319-95711-1_6

Brobbey KJ, Haapanen J, Tuominen M, Mäkelä J, Gunell M, Eerola E et al. **High-speed production of antibacterial fabrics using liquid flame spray.** Textile Research Journal. 2019. <https://doi.org/10.1177/0040517519866952>

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

Sharma V, Yiannacou K, Karjalainen M, Lahtonen K, Valden M, Sariola V. **Large-scale efficient water harvesting using bioinspired micro-patterned copper oxide nanoneedle surfaces and guided droplet transport.** Nanoscale Advances. 2019;1(10):4025-4040. <https://doi.org/10.1039/c9na00405j>

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

Halonen HT, Hyttinen JAK, Ihalainen TO. **Mechanical impact stimulation platform tailored for high-resolution light microscopy.** HEALTH AND TECHNOLOGY. 2019. <https://doi.org/10.1007/s12553-019-00382-9>

Lahti J. **Nanocellulose and Polylactic Acid Based Multilayer Coatings for Barrier Applications.** In 17th Biennial TAPPI European PLACE Conference 2019. TAPPI Press. 2019. p. 446-455

Martins DP, Barros MT, Balasubramaniam S. **Quality and Capacity Analysis of Molecular Communications in Bacterial Synthetic Logic Circuits**. IEEE Transactions on Nanobioscience. 2019. <https://doi.org/10.1109/TNB.2019.2930960>

Chen X, Ukkonen L, Virkki J. **Reliability evaluation of wearable radio frequency identification tags: Design and fabrication of a two-part textile antenna**. Textile Research Journal. 2019;89(4). <https://doi.org/10.1177/0040517517750651>

Fliervoet LAL, Lisitsyna ES, Durandin NA, Kotsis I, Maas-Bakker RFM, Yliperttula M et al. **Structure and Dynamics of Thermosensitive pDNA Polyplexes Studied by Time-Resolved Fluorescence Spectroscopy**. Biomacromolecules. 2019. <https://doi.org/10.1021/acs.biomac.9b00896>

Ayodele OB, Cai R, Wang J, Ziouani Y, Liang Z, Spadaro MC et al. **Synergistic Computational-Experimental Discovery of Highly Selective PtCu Nanocluster Catalysts for Acetylene Semihydrogenation**. ACS CATALYSIS. 2019;451-457. <https://doi.org/10.1021/acscatal.9b03539>

He H, Chen X, Ukkonen L, Virkki J. **Textile-integrated three-dimensional printed and embroidered structures for wearable wireless platforms**. Textile Research Journal. 2019;89(4). <https://doi.org/10.1177/0040517517750649>

Latikka J, Eskola H. **The electrical conductivity of human cerebrospinal fluid in vivo**. In World Congress on Medical Physics and Biomedical Engineering 2018. Springer. 2019. p. 773-776. (IFMBE Proceedings; 1). https://doi.org/10.1007/978-981-10-9035-6_142

Hirvonen J, Jokisalo J, Heljo J, Kosonen R. **Towards the EU emissions targets of 2050: optimal energy renovation measures of Finnish apartment buildings**. International Journal of Sustainable Energy. 2019;38(7). <https://doi.org/10.1080/14786451.2018.1559164>

Eregowda T, Rene ER, Rintala J, Lens PNL. **Volatile fatty acid adsorption on anion exchange resins: kinetics and selective recovery of acetic acid**. Separation Science and Technology (Philadelphia). 2019. <https://doi.org/10.1080/01496395.2019.1600553>

Kuroda K, Yazaki K, Tanaka Y, Akita M, Sakai H, Hasobe T et al. **A Pentacene-based Nanotube Displaying Enriched Electrochemical and Photochemical Activities**. Angewandte Chemie - International Edition. 2019 Jan;58(4):1115-1119. <https://doi.org/10.1002/anie.201812976>

Pekkanen TT, Timonen RS, Lendvay G, Rissanen MP, Eskola AJ. **Kinetics and thermochemistry of the reaction of 3-methylpropargyl radical with molecular oxygen**. PROCEEDINGS OF THE COMBUSTION INSTITUTE. 2019 Jan 1;37(1):299-306. <https://doi.org/10.1016/j.proci.2018.05.050>

Reyes G, Borghei M, King AWT, Lahti J, Rojas OJ. **Solvent Welding and Imprinting Cellulose Nanofiber Films Using Ionic Liquids**. Biomacromolecules. 2019 Jan 14;20(1):502-514. <https://doi.org/10.1021/acs.biomac.8b01554>

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

Luo J, Lehtinen T, Efimova E, Santala V, Santala S. **Synthetic metabolic pathway for the production of 1-alkenes from lignin-derived molecules**. Microbial Cell Factories. 2019 Mar 11;18(1). 48. <https://doi.org/10.1186/s12934-019-1097-x>

Manna M, Nieminen T, Vattulainen I. **Understanding the Role of Lipids in Signaling Through Atomistic and Multiscale Simulations of Cell Membranes**. ANNUAL REVIEW OF BIOPHYSICS. 2019 May 6;48:421-439. <https://doi.org/10.1146/annurev-biophys-052118-115553>

Halonen HT, Hyttinen JAK, Ihalainen TO. **Miniaturized stimulator for imaging of live cell responses to high frequency mechanical vibration.** In Badnjevic A, Gurbeta Pokvić L, Škrbić R, Badnjevic A, Gurbeta Pokvić L, editors, *CMBEBIH 2019 - Proceedings of the International Conference on Medical and Biological Engineering*. Springer Verlag. 2019. p. 21-27. (IFMBE Proceedings). https://doi.org/10.1007/978-3-030-17971-7_4

Sautter JD, Xu L, Miroshnichenko AE, Lysevych M, Volkovskaya I, Smirnova DA et al. **Tailoring Second-Harmonic Emission from (111)-GaAs Nanoantennas.** *Nano Letters*. 2019 Jun 12;19(6):3905-3911. <https://doi.org/10.1021/acs.nanolett.9b01112>

Jackson T, Shenkin A, Moore J, Bunce A, van Emmerik T, Kane B et al. **An architectural understanding of natural sway frequencies in trees.** *Journal of the Royal Society. Interface*. 2019 Jun 28;16(155). <https://doi.org/10.1098/rsif.2019.0116>

Kezilebieke S, Žitko R, Dvorak M, Ojanen T, Liljeroth P. **Observation of Coexistence of Yu-Shiba-Rusinov States and Spin-Flip Excitations.** *Nano Letters*. 2019 Jul 10;19(7):4614-4619. <https://doi.org/10.1021/acs.nanolett.9b01583>

Salmela M, Lehtinen T, Efimova E, Santala S, Santala V. **Alkane and wax ester production from lignin-related aromatic compounds.** *Biotechnology and Bioengineering*. 2019 Aug 1;116(8):1934-1945. <https://doi.org/10.1002/bit.27005>

Solovyev AI, Mikheylyis AV, Plyusnin VF, Shubin AA, Grivin VP, Larionov SV et al. **Photochemistry of dithiophosphate Ni(S₂P(i-Bu)₂)₂ complex in CCl₄. Transient species and TD-DFT calculations.** *Journal of Photochemistry and Photobiology A: Chemistry*. 2019 Aug 1;381. 111857. <https://doi.org/10.1016/j.jphotochem.2019.111857>

Pitkänen S, Paakinaho K, Pihlman H, Ahola N, Hannula M, Asikainen S et al. **Characterisation and in vitro and in vivo evaluation of supercritical-CO₂-foamed β-TCP/PLCL composites for bone applications.** *European cells & materials*. 2019 Aug 5;38:35-50. <https://doi.org/10.22203/eCM.v038a04>

Fantozzi D, Matikainen V, Uusitalo M, Koivuluoto H, Vuoristo P. **Chlorine induced high-temperature corrosion mechanisms in HVOF and HVAF sprayed Cr₃C₂-based hardmetal coatings.** *Corrosion Science*. 2019 Aug 14. 108166. <https://doi.org/10.1016/j.corsci.2019.108166>

Wang S, Nawale GN, Oommen OP, Hilborn J, Varghese OP. **Influence of ions to modulate hydrazone and oxime reaction kinetics to obtain dynamically cross-linked hyaluronic acid hydrogels.** *Polymer Chemistry*. 2019 Aug 21;10(31):4322-4327. <https://doi.org/10.1039/c9py00862d>

Ylönen M, Franc JP, Miettinen J, Saarenrinne P, Fivel M. **Shedding frequency in cavitation erosion evolution tracking.** *International Journal of Multiphase Flow*. 2019 Sep 1;118:141-149. <https://doi.org/10.1016/j.ijmultiphaseflow.2019.06.009>

Reshef O, Saad-Bin-Alam M, Huttunen MJ, Carlow G, Sullivan BT, Ménard JM et al. **Multiresonant High-Q Plasmonic Metasurfaces.** *Nano Letters*. 2019 Sep 11;19(9):6429-6434. <https://doi.org/10.1021/acs.nanolett.9b02638>

Haavisto J, Dessì P, Chatterjee P, Honkanen M, Noori MT, Kokko M et al. **Effects of anode materials on electricity production from xylose and treatability of TMP wastewater in an up-flow microbial fuel cell.** *Chemical Engineering Journal*. 2019 Sep 15;372:141-150. <https://doi.org/10.1016/j.cej.2019.04.090>

Saegusa T, Sakai H, Nagashima H, Kobori Y, Tkachenko NV, Hasobe T. **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.** *Journal of the American Chemical Society*. 2019 Sep 18;141(37):14720-14727. <https://doi.org/10.1021/jacs.9b06567>

Hajdu-Rahkama R, Ahoranta S, Lakaniemi A-M, Puhakka JA. **Effects of elevated pressures on the activity of acidophilic bioleaching microorganisms.** *Biochemical Engineering Journal*. 2019 Oct 15;150. 107286. <https://doi.org/10.1016/j.bej.2019.107286>

Dessi P, Chatterjee P, Mills S, Kokko M, Lakaniemi A-M, Collins G et al. **Power production and microbial community composition in thermophilic acetate-fed up-flow and flow-through microbial fuel cells.** Bioresource Technology. 2019 Dec 1;294. 122115. <https://doi.org/10.1016/j.biortech.2019.122115>

Häkkinen A, Oliveira SMD, Neeli-Venkata R, Ribeiro AS. **Transcription closed and open complex formation coordinate expression of genes with a shared promoter region.** Journal of the Royal Society Interface. 2019 Dec 1;16(161). 20190507. <https://doi.org/10.1098/rsif.2019.0507>

Bacakova L, Pajorova J, Tomkova M, Matejka R, Broz A, Stepanovska J et al. **Applications of nanocellulose/nanocarbon composites: Focus on biotechnology and medicine.** Nanomaterials. 2020;10(2). 196. <https://doi.org/10.3390/nano10020196>

Olin M, Dal Maso M. **CFD modeling the diffusional losses of nanocluster-sized particles and condensing vapors in 90° bends of circular tubes.** Journal of Aerosol Science. 2020;150. 105618. <https://doi.org/10.1016/j.jaerosci.2020.105618>

Di Vito D, Mosallaei M, Vahed BK, Kanerva M, Mäntysalo M. **Deformability analysis and improvement in stretchable electronics systems through finite element analysis.** In Carcaterra A, Graziani G, Paolone A, editors, Proceedings of XXIV AIMETA Conference 2019. Springer. 2020. p. 755-763. (Lecture Notes in Mechanical Engineering). https://doi.org/10.1007/978-3-030-41057-5_61

Haddad S, Harju J, Tarniceriu A, Halkola T, Parak J, Korhonen I et al. **Ectopic Beat Detection from Wrist Optical Signals for Sinus Rhythm and Atrial Fibrillation Subjects.** In Henriques J, de Carvalho P, Neves N, editors, 15th Mediterranean Conference on Medical and Biological Engineering and Computing – MEDICON 2019 - Proceedings of MEDICON 2019. Springer. 2020. p. 150-158. (IFMBE Proceedings). https://doi.org/10.1007/978-3-030-31635-8_18

Moormann W, Tellkamp T, Stadler E, Röhrich F, Näther C, Puttreddy R et al. **Efficient Conversion of Light to Chemical Energy: Directional, Chiral Photoswitches with Very High Quantum Yields.** Angewandte Chemie - International Edition. 2020;59(35):15081-15086. <https://doi.org/10.1002/anie.202005361>

Hannula M, Hyttinen JAK, Tanskanen JMA. **Enhancing CT 3D Images by Independent Component Analysis of Projection Images.** In Henriques J, de Carvalho P, Neves N, editors, 15th Mediterranean Conference on Medical and Biological Engineering and Computing – MEDICON 2019 - Proceedings of MEDICON 2019. Springer. 2020. p. 381-389. (IFMBE Proceedings). https://doi.org/10.1007/978-3-030-31635-8_46

Gao H, Tao J, Dehmer M, Emmert-Streib F, Sun Q, Chen Z et al. **In-flight wind field identification and prediction of parafoil systems.** Applied Sciences (Switzerland). 2020;10(6). 1958. <https://doi.org/10.3390/app10061958>

Masood MT, Qudisia S, Hadadian M, Weinberger C, Nyman M, Ahläng C et al. **Investigation of well-defined pinholes in TiO₂ electron selective layers used in planar heterojunction perovskite solar cells.** Nanomaterials. 2020;10(1). 181. <https://doi.org/10.3390/nano10010181>

Hajdu-Rahkama R, Özkaya B, Lakaniemi AM, Puhakka JA. **Kinetics and modelling of thiosulphate biotransformations by haloalkaliphilic Thioalkalivibrio versutus.** Chemical Engineering Journal. 2020;401. 126047. <https://doi.org/10.1016/j.cej.2020.126047>

Oliveira LMC, Koivisto H, Iwakiri IGI, Loureiro JM, Ribeiro AM, Nogueira IBR. **Modelling of a pressure swing adsorption unit by deep learning and artificial intelligence tools.** Chemical Engineering Science. 2020;224. 115801. <https://doi.org/10.1016/j.ces.2020.115801>

Banichuk N, Ivanova S, Jeronen J. **Moving Web and Dynamic Problem of Aerothermoelastic Vibrations and Instability.** In Indeitsev DA, Krivtsov AM, editors, Advanced Problems in Mechanics: Proceedings of the 47th International Summer School-Conference on Advanced Problems in Mechanics, APM 2019. Springer. 2020. p. 66-71. (Lecture Notes in Mechanical Engineering). https://doi.org/10.1007/978-3-030-49882-5_7

Silvonen J, Levänen E, Uusitalo M. **The thermal contact resistance of a steel-ceramic interface with oxide intermediates.** Cogent Engineering. 2020;7(1). 1720057. <https://doi.org/10.1080/23311916.2020.1720057>

Hongisto M, Veber A, Boetti NG, Danto S, Jubera V, Petit L. **Transparent Yb³⁺ doped phosphate glass-ceramics.** Ceramics International. 2020 Jan 1. <https://doi.org/10.1016/j.ceramint.2020.01.121>

Palmroth A, Pitkänen S, Hannula M, Paakinaho K, Hyttinen J, Miettinen S et al. **Evaluation of scaffold microstructure and comparison of cell seeding methods using micro-computed tomography-based tools.** Journal of the Royal Society. Interface. 2020 Apr 1;17(165). 20200102. <https://doi.org/10.1098/rsif.2020.0102>

Liu N, Santala S, Stephanopoulos G. **Mixed carbon substrates: a necessary nuisance or a missed opportunity?** CURRENT OPINION IN BIOTECHNOLOGY. 2020 Apr 1;62:15-21. <https://doi.org/10.1016/j.copbio.2019.07.003>

Adonias GL, Yastrebova A, Barros MT, Koucheryavy Y, Cleary F, Balasubramaniam S. **Utilizing Neurons for Digital Logic Circuits: A Molecular Communications Analysis.** IEEE Transactions on Nanobioscience. 2020 Apr 1;19(2):224-236. <https://doi.org/10.1109/TNB.2020.2975942>

Unban K, Khanongnuch R, Kanpiengjai A, Shetty K, Khanongnuch C. **Utilizing Gelatinized Starchy Waste from Rice Noodle Factory as Substrate for L(+)-Lactic Acid Production by Amyolytic Lactic Acid Bacterium Enterococcus faecium K-1.** Applied Biochemistry and Biotechnology. 2020 May. <https://doi.org/10.1007/s12010-020-03314-w>

Kattiparambil Rajan D. **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).

Arvani M, Keskinen J, Railanmaa A, Siljander S, Björkqvist T, Tuukkanen S et al. **Additive manufacturing of monolithic supercapacitors with biopolymer separator.** Journal of Applied Electrochemistry. 2020 Jun 1;50(6):689-697. <https://doi.org/10.1007/s10800-020-01423-2>

Ojha N, Szczodra A, Boetti NG, Massera J, Petit L. **Nucleation and growth behavior of Er³⁺ doped oxyfluorophosphate glasses.** RSC Advances. 2020 Jul 7;10(43):25703-25716. <https://doi.org/10.1039/d0ra04681g>

Khan R, Ali-Löyty H, Saari J, Valden M, Tukiainen A, Lahtonen K et al. **Optimization of photogenerated charge carrier lifetimes in ald grown tio₂ for photonic applications.** Nanomaterials. 2020 Aug 10;10(8). 1567. <https://doi.org/10.3390/nano10081567>

Kaleva A, Tassaing T, Saarimaa V, Le Bourdon G, Väisänen P, Markkula A et al. **Formation of corrosion products on zinc in wet supercritical and subcritical CO₂: In-situ spectroscopic study.** Corrosion Science. 2020 Sep 1;174. <https://doi.org/10.1016/j.corsci.2020.108850>