

Multiresolution MAPEM method for 3D reconstruction of symmetrical particles with electron microscopy

Acar, E., Baikoghli, M. A., Stark, M., Peltonen, S., Ruotsalainen, U. & Cheng, R. H., 2018, *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, p. 141-144 4 p. (IFMBE Proceedings; vol. 65).

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Utilizing Neurons for Digital Logic Circuits: A Molecular Communications Analysis

Adonias, G. L., Yastrebova, A., Barros, M. T., Koucheryavy, Y., Cleary, F. & Balasubramaniam, S., 1 Apr 2020, In : *IEEE Transactions on Nanobioscience*. 19, 2, p. 224-236 13 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Enablers and barriers of smart data-based asset management services in industrial business networks

Ahonen, T., Hanski, J., Hyvärinen, M., Kortelainen, H., Uusitalo, T., Vainio, H., Kunttu, S. & Koskinen, K., 2019, *Lecture Notes in Mechanical Engineering*. Pleiades Publishing, p. 51-60 10 p. (Lecture Notes in Mechanical Engineering).

Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

Non-intersecting leaf insertion algorithm for tree structure models

Åkerblom, M., Raunonen, P., Casella, E., Disney, M. I., Danson, F. M., Gaulton, R., Schofield, L. A. & Kaasalainen, M., 6 Apr 2018, In : *Interface Focus*. 8, 2, 20170045.

Research output: Contribution to journal > Article > Scientific > peer-review

Twelve years follow-up of ballistocardiography

Alametsä, J. & Viik, J., 2018, *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, p. 1117-1120 4 p. (IFMBE Proceedings; vol. 65).

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Effects of nitroglycerin to ballistocardiography by EMFI

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

The formation and physical properties of the particle emissions from a natural gas engine

Alanen, J., Saukko, E., Lehtoranta, K., Murtonen, T., Timonen, H., Hillamo, R., Karjalainen, P., Kuuluvainen, H., Harra, J., Keskinen, J. & Rönkkö, T., 15 Dec 2015, In : *Fuel*. 162, p. 155-161 7 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Grain orientation dependent Nb-Ti microalloying mediated surface segregation on ferritic stainless steel

Ali-Löytty, H., Hannula, M., Honkanen, M., Östman, K., Lahtonen, K. & Valden, M., Nov 2016, In : *Corrosion Science*. 112, p. 204-213

Research output: Contribution to journal > Article > Scientific > peer-review

Screening ethnically diverse human embryonic stem cells identifies a chromosome 20 minimal amplicon conferring growth advantage

Amps, K., Andrews, P. W., Anyfantis, G., Armstrong, L., Avery, S., Baharvand, H., Baker, J., Baker, D., Munoz, M. B., Beil, S., Benvenisty, N., Ben-Yosef, D., Biancotti, J. C., Bosman, A., Brena, R. M., Brison, D., Caisander, G., Camarasa, M. V., Chen, J., Chiao, E., Choi, Y. M., Choo, A. B. H., Collins, D., Colman, A., Crook, J. M., Daley, G. Q., Dalton, A., De Sousa, P. A., Denning, C., Downie, J., Dvorak, P., Montgomery, K. D., Feki, A., Ford, A., Fox, V., Fraga, A. M., Frumkin, T., Ge, L., Gokhale, P. J., Golan-Lev, T., Gourabi, H., Gropp, M., Guangxiu, L., Hampl, A., Harron, K., Healy, L., Herath, W., Holm, F., Hovatta, O., Hyllner, J., Inamdar, M. S., Irwanto, A. K., Ishii, T., Jaconi, M., Jin, Y., Kimber, S., Kiselev, S., Knowles, B. B., Kopper, O., Kukhareenko, V., Kuliev, A., Lagarkova, M. A., Laird, P. W., Lako, M., Laslett, A. L., Lavon, N., Lee, D. R., Lee, J. E., Li, C., Lim, L. S., Ludwig, T. E., Ma, Y., Maltby, E., Mateizel, I., Mayshar, Y., Mileikovsky, M., Minger, S. L., Miyazaki, T., Moon, S. Y., Moore, H., Mummery, C., Nagy, A., Nakatsuji, N., Narwani, K., Oh, S. K. W., Oh, S. K., Olson, C., Otonkoski, T., Pan, F., Park, I. H., Pells, S., Pera, M. F., Pereira, L. V., Qi, O., Raj, G. S., Reubinoff, B., Robins, A., Robson, P., Rossant, J., Salekdeh, G. H., Schulz, T. C., Sermon, K., Mohamed, J. S., Shen, H., Sherrer, E., Sidhu, K., Sivarajah, S., Skottman, H., Spits, C., Stacey, G. N., Strehl, R., Strelchenko, N., Suemori, H., Sun, B., Suuronen, R., Takahashi, K., Tuuri, T., Venu, P., Verlinsky, Y., Oostwaard, D. W. V., Weisenberger, D. J., Wu, Y., Yamanaka, S., Young, L. & Zhou, Q., Dec 2011, In : *Nature Biotechnology*. 29, 12, p. 1132-1144 13 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Additive manufacturing of monolithic supercapacitors with biopolymer separator

Arvani, M., Keskinen, J., Railanmaa, A., Siljander, S., Björkqvist, T., Tuukkanen, S. & Lupo, D., 1 Jun 2020, In : Journal of Applied Electrochemistry. 50, 6, p. 689-697 9 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Synergistic Computational-Experimental Discovery of Highly Selective PtCu Nanocluster Catalysts for Acetylene Semihydrogenation

Ayodele, O. B., Cai, R., Wang, J., Ziouani, Y., Liang, Z., Spadaro, M. C., Kovnir, K., Arbiol, J., Akola, J., Palmer, R. E. & Kolen'Ko, Y. V., 2019, In : ACS CATALYSIS. p. 451-457 7 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Applications of nanocellulose/nanocarbon composites: Focus on biotechnology and medicine

Bacakova, L., Pajorova, J., Tomkova, M., Matejka, R., Broz, A., Stepanovska, J., Prazak, S., Skogberg, A., Siljander, S. & Kallio, P., 2020, In : Nanomaterials. 10, 2, 32 p., 196.

Research output: Contribution to journal > Review Article > Scientific > peer-review

Searching for a robust strategy for minimizing alkali chlorides in fluidized bed boilers during burning of high SRF-energy-share fuel

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Research output: Contribution to journal > Article > Scientific > peer-review

Moving Web and Dynamic Problem of Aerothermoelastic Vibrations and Instability

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Fire-safe and environmentally friendly nanocomposites based on layered double hydroxides and ethylene propylene diene elastomer

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Research output: Contribution to journal > Article > Scientific > peer-review

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Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

Second-harmonic generation imaging of semiconductor nanowires with focused vector beams

Bautista, G., Mäkitalo, J., Chen, Y., Dhaka, V., Grasso, M., Karvonen, L., Jiang, H., Huttunen, M. J., Huhtio, T., Lipsanen, H. & Kauranen, M., 6 Feb 2015, In : Nano Letters. 15, 3, p. 1564-1569 6 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Screening pretreatment methods to enhance thermophilic anaerobic digestion of pulp and paper mill wastewater treatment secondary sludge

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Research output: Contribution to journal > Article > Scientific > peer-review

Multifunctional ultrasmall nanoplateforms for vascular-targeted interstitial photodynamic therapy of brain tumors guided by real-time MRI

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Research output: Contribution to journal › Article › Scientific › peer-review

Optical projection tomography imaging of single cells in 3D gellan gum hydrogel

Belay, B., Koivisto, J. T., Vuornos, K., Montonen, T., Koskela, O., Lehti-Polojärvi, M., Miettinen, S., Kellomäki, M., Figueiras, E. & Hyttinen, J., 2018, *EMBECE 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, p. 996-999 4 p. (IFMBE Proceedings; vol. 65).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Calcium Directly Regulates Phosphatidylinositol 4,5-Bisphosphate Headgroup Conformation and Recognition

Bilkova, E., Pleskot, R., Rissanen, S., Sun, S., Czogalla, A., Cwiklik, L., Róg, T., Vattulainen, I., Cremer, P. S., Jungwirth, P. & Coskun, Ü., 22 Mar 2017, In : *Journal of the American Chemical Society*. 139, 11, p. 4019-4024 6 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Waves in hyperbolic and double negative metamaterials including rogues and solitons

Boardman, A. D., Alberucci, A., Assanto, G., Grimalsky, V. V., Kibler, B., McNiff, J., Nefedov, I. S., Rapoport, Y. G. & Valagiannopoulos, C. A., 9 Oct 2017, In : *Nanotechnology*. 28, 44, 444001.

Research output: Contribution to journal › Review Article › Scientific › peer-review

The sensitivity of random polymer brush-lamellar polystyrene-b-polymethylmethacrylate block copolymer systems to process conditions

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Research output: Contribution to journal › Article › Scientific › peer-review

High-speed production of antibacterial fabrics using liquid flame spray

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Research output: Contribution to journal › Article › Scientific › peer-review

Synthesis of depsipeptides from L-amino acids and lactones

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Research output: Contribution to journal › Article › Scientific › peer-review

Superfluorinated Ionic Liquid Crystals Based on Supramolecular, Halogen-Bonded Anions

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Research output: Contribution to journal › Article › Scientific › peer-review

Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration

Çetinkaya, A. Y., Köroğlu, E. O., Demir, N. M., Baysoy, D. Y., Özkaya, B. & Çakmakçı, M., 20 Jul 2015, In : *Chinese Journal of Catalysis*. 36, 7, p. 1068-1076 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Reliability evaluation of wearable radio frequency identification tags: Design and fabrication of a two-part textile antenna

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Molecular-Scale Ligand Effects in Small Gold-Thiolate Nanoclusters

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Research output: Contribution to journal > Article > Scientific > peer-review

Starch-poly(vinyl alcohol) barrier coatings for flexible packaging paper and their effects of phase interactions

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Research output: Contribution to journal > Article > Scientific > peer-review

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Research output: Contribution to journal > Article > Scientific > peer-review

Assessment of metabolic flux distribution in the thermophilic hydrogen producer *Caloramator celer* as affected by external pH and hydrogen partial pressure

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Second-Harmonic Generation from Metal Nanoparticles: Resonance Enhancement versus Particle Geometry

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Research output: Contribution to journal > Article > Scientific > peer-review

Less Is More: Enhancement of Second-Harmonic Generation from Metasurfaces by Reduced Nanoparticle Density

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Research output: Contribution to journal > Article > Scientific > peer-review

Osteoconductive properties of poly(96L/4D-lactide)/beta-tricalcium phosphate in long term animal model

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Research output: Contribution to journal > Article > Scientific > peer-review

Direct position control of electro-hydraulic excavator

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DoGlycans-Tools for Preparing Carbohydrate Structures for Atomistic Simulations of Glycoproteins, Glycolipids, and Carbohydrate Polymers for GROMACS

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Research output: Contribution to journal > Article > Scientific > peer-review

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Research output: Contribution to journal > Article > Scientific > peer-review

Composition and role of the attached and planktonic microbial communities in mesophilic and thermophilic xylose-fed microbial fuel cells

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Research output: Contribution to journal > Article > Scientific > peer-review

Temperature control as key factor for optimal biohydrogen production from thermomechanical pulping wastewater
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Research output: Contribution to journal > Article > Scientific > peer-review

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Development and characterization of poly(ϵ -caprolactone) hollow fiber membranes for vascular tissue engineering

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Research output: Contribution to journal > Article > Scientific > peer-review

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Research output: Contribution to journal > Article > Scientific > peer-review

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Research output: Contribution to journal > Article > Scientific > peer-review

Weighing trees with lasers: Advances, challenges and opportunities

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Research output: Contribution to journal > Article > Scientific > peer-review

Deformability analysis and improvement in stretchable electronics systems through finite element analysis

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Adsorption of furfural from torrefaction condensate using torrefied biomass

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Research output: Contribution to journal > Article > Scientific > peer-review

Efficient photon upconversion at remarkably low annihilator concentrations in a liquid polymer matrix: when less is more

Durandin, N. A., Isokuortti, J., Efimov, A., Vuorimaa-Laukkanen, E., Tkachenko, N. V. & Laaksonen, T., 2018, In : *Chemical Communications*. 54, 99, p. 14029-14032 4 p.

Research output: Contribution to journal > Article > Scientific > peer-review

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

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Stearate Modified Zinc-Aluminum Layered Double Hydroxides and Acrylonitrile Butadiene Rubber Nanocomposites

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Research output: Book/Report › Anthology › Scientific › peer-review

Chemically tailored dielectric-to-metal transition for the design of metamaterials from nanoimprinted colloidal nanocrystals

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Research output: Contribution to journal › Article › Scientific › peer-review

Chlorine induced high-temperature corrosion mechanisms in HVOF and HVOF sprayed Cr₃C₂-based hardmetal coatings

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Research output: Contribution to journal › Article › Scientific › peer-review

Structure and Dynamics of Thermosensitive pDNA Polyplexes Studied by Time-Resolved Fluorescence Spectroscopy

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Research output: Contribution to journal › Article › Scientific › peer-review

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)

Foroutan, F., Walters, N. J., Owens, G. J., Mordan, N. J., Kim, H. W., de Leeuw, N. H. & Knowles, J. C., 1 Aug 2015, In : *Biomedical materials (Bristol, England)*. 10, 4, p. 45025 1 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Biomimetic surface modification of polycarbonateurethane film via phosphorylcholine-graft for resisting platelet adhesion

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Research output: Contribution to journal › Article › Scientific › peer-review

In-flight wind field identification and prediction of parafoil systems

Gao, H., Tao, J., Dehmer, M., Emmert-Streib, F., Sun, Q., Chen, Z., Xie, G. & Zhou, Q., 2020, In : *Applied Sciences (Switzerland)*. 10, 6, 15 p., 1958.

Research output: Contribution to journal › Article › Scientific › peer-review

The importance of controlled mismatch of biomechanical compliances of implantable scaffolds and native tissue for articular cartilage regeneration

Gasik, M., Zühlke, A., Haaparanta, A-M., Muhonen, V., Laine, K., Bilotsky, Y., Kellomäki, M. & Kiviranta, I., 30 Nov 2018, In : *Frontiers in Bioengineering and Biotechnology*. 6, NOV, 187.

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Photodynamic self-disinfecting surface using pyridinium phthalocyanine

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Reproducible preparation method of hydrogels for cell culture applications – Case study with spermidine crosslinked gellan gum

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Towards universal enrichment nanocoating for IR-ATR waveguides

Giammarco, J., Zdyrko, B., Petit, L., Musgraves, J. D., Hu, J., Agarwal, A., Kimerling, L., Richardson, K. & Luzinov, I., 28 Aug 2011, In : *Chemical Communications*. 47, 32, p. 9104-9106 3 p.

Research output: Contribution to journal > Article > Scientific > peer-review

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Research output: Contribution to journal > Article > Scientific > peer-review

Shape-dependent plasmonic response and directed self-assembly in a new semiconductor building block, indium-doped cadmium oxide (ICO)

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Research output: Contribution to journal > Article > Scientific > peer-review

The effects of laser patterning 10CeTZP-Al₂O₃ nanocomposite disc surfaces: Osseous differentiation and cellular arrangement in vitro

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Research output: Contribution to journal > Article > Scientific > peer-review

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Gracia, J., Seppä, V. P., Pelkonen, A., Kotaniemi-Syrjänen, A., Mäkelä, M., Malmberg, P. & Viik, J., 2018, *EMBE 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, p. 306-309 4 p. (IFMBE Proceedings; vol. 65).

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Effects of anode materials on electricity production from xylose and treatability of TMP wastewater in an up-flow microbial fuel cell

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

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Decoding the Morphological Diversity in Two Dimensional Crystalline Porous Polymers by Core Planarity Modulation

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Research output: Contribution to journal › Article › Scientific › peer-review

Miniaturized stimulator for imaging of live cell responses to high frequency mechanical vibration

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Mechanical impact stimulation platform tailored for high-resolution light microscopy

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Improved Stability of Atomic Layer Deposited Amorphous TiO₂ Photoelectrode Coatings by Thermally Induced Oxygen Defects

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Characteristics of nFOG, an aerosol-based wet thin film coating technique

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Remarkable Dependence of the Final Charge Separation Efficiency on the Donor-Acceptor Interaction in Photoinduced Electron Transfer

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Aligned Poly(ϵ -caprolactone) Nanofibers Guide the Orientation and Migration of Human Pluripotent Stem Cell-Derived Neurons, Astrocytes, and Oligodendrocyte Precursor Cells In Vitro

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The Influence of Phosphorus Exposure on a Natural-Gas-Oxidation Catalyst

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Soft hydrazone crosslinked hyaluronan- and alginate-based hydrogels as 3D supportive matrices for human pluripotent stem cell-derived neuronal cells

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Modular Instrumentation for Controlling and Monitoring In-Vitro Cultivation Environment and Image-based Functionality Measurements of Human Stem Cells

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Research output: Book/Report > Doctoral thesis > Collection of Articles

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Research output: Contribution to journal > Article > Scientific > peer-review

Observation of Coexistence of Yu-Shiba-Rusinov States and Spin-Flip Excitations

Kezilebieke, S., Žitko, R., Dvorak, M., Ojanen, T. & Liljeroth, P., 10 Jul 2019, In : *Nano Letters*. 19, 7, p. 4614-4619 6 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Fabrication of ssDNA/oligo(ethylene glycol) monolayers and complex nanostructures by an irradiation-promoted exchange reaction

Khan, M. N., Tjong, V., Chilkoti, A. & Zharnikov, M., 8 Oct 2012, In : *Angewandte Chemie (International Edition)*. 51, 41, p. 10303-10306 4 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Optimization of photogenerated charge carrier lifetimes in ald grown tio₂ for photonic applications

Khan, R., Ali-Löytty, H., Saari, J., Valden, M., Tukiainen, A., Lahtonen, K. & Tkachenko, N. V., 10 Aug 2020, In : *Nanomaterials*. 10, 8, 9 p., 1567.

Research output: Contribution to journal › Article › Scientific › peer-review

Effect of N/S ratio on anoxic thiosulfate oxidation in a fluidized bed reactor: Experimental and artificial neural network model analysis

Khanongnuch, R., Di Capua, F., Lakaniemi, A.-M., Rene, E. R. & Lens, P. N. L., 2018, In : *Process Biochemistry*. 68, p. 171-181

Research output: Contribution to journal › Article › Scientific › peer-review

Cell-wall disruption and lipid/astaxanthin extraction from microalgae: *Chlorella* and *Haematococcus*

Kim, D. Y., Vijayan, D., Praveenkumar, R., Han, J. I., Lee, K., Park, J. Y., Chang, W. S., Lee, J. S. & Oh, Y. K., 2016, In : *Bioresource Technology*. 199, p. 300-310

Research output: Contribution to journal › Article › Scientific › peer-review

Magnesium aminoclay enhances lipid production of mixotrophic *Chlorella* sp. KR-1 while reducing bacterial populations

Kim, B., Praveenkumar, R., Lee, J., Nam, B., Kim, D. M., Lee, K., Lee, Y. C. & Oh, Y. K., 1 Nov 2016, In : *Bioresource Technology*. 219, p. 608-613 6 p.

Research output: Contribution to journal › Article › Scientific › peer-review

The effect of low-temperature pretreatment on the solubilization and biomethane potential of microalgae biomass grown in synthetic and wastewater media

Kinnunen, V. & Rintala, J., 1 Dec 2016, In : *Bioresource Technology*. 221, p. 78-84 7 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Workplace performance of a loose-fitting powered air purifying respirator during nanoparticle synthesis

Koivisto, A. J., Aromaa, M., Koponen, I. K., Fransman, W., Jensen, K. A., Mäkelä, J. M. & Hämeri, K. J., 9 Apr 2015, In : *Journal of Nanoparticle Research*. 17, 4

Research output: Contribution to journal › Article › Scientific › peer-review

Bioamine-crosslinked gellan gum hydrogel for neural tissue engineering

Koivisto, J. T., Joki, T., Parraga, J. E., Paakkönen, R., Ylä-Outinen, L., Salonen, L., Jönkkäri, I., Peltola, M., Ihalainen, T. O., Narkilahti, S. & Kellomäki, M., 24 Mar 2017, In : *Biomedical Materials*. 12, 2, 025014.

Research output: Contribution to journal › Article › Scientific › peer-review

Texture-property relations of bioamine crosslinked gellan gum hydrogels

Koivisto, J. T., Koskela, O., Montonen, T., Parraga, J. E., Joki, T., Ylä-Outinen, L., Narkilahti, S., Figueiras, E., Hyttinen, J. & Kellomäki, M., 2018, *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, p. 189-192 4 p. (IFMBE Proceedings; vol. 65).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Addressing closed-chain dynamics for high-precision control of hydraulic cylinder actuated manipulators

Koivumäki, J., Zhu, W. H. & Mattila, J., 2018, *BATH/ASME 2018 Symposium on Fluid Power and Motion Control, FPMC 2018*. ASME

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Effects of anode potentials on bioelectrogenic conversion of xylose and microbial community compositions

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Research output: Contribution to journal › Article › Scientific › peer-review

Effects of wastewater constituents and operational conditions on the composition and dynamics of anodic microbial communities in bioelectrochemical systems

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Low-latency EMG onset and termination detection for facial pacing

Kontunen, A., Rantanen, V., Vehkaoja, A., Ilves, M., Lylykangas, J., Mäkelä, E., Rautiainen, M., Surakka, V. & Lekkala, J., 2018, *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, p. 1016-1019 4 p. (IFMBE Proceedings; vol. 65).

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A simulation case study of production planning and control in printed wiring board manufacturing

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Characterization of chloride channels in human embryonic stem cell derived retinal pigment epithelium

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Light-fuelled transport of large dendrimers and proteins

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Computational model for multifocal imaging in optical projection tomography and numerical analysis of all-in-focus fusion in tomographic image reconstruction

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Finite element mapping for efficient image reconstruction in rotational electrical impedance tomography

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Impact of biodiesel application at various blending ratios on passenger cars of different fueling technologies

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Modeling of the catalytic effects of potassium and calcium on spruce wood gasification in CO₂

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A 'clusters-in-liquid' method for calculating infrared spectra identifies the proton-transfer mode in acidic aqueous solutions

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A Pentacene-based Nanotube Displaying Enriched Electrochemical and Photochemical Activities

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Tampere University of Technology, laboratory of materials science, paper converting and packaging technology Tampere, Finland

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Bilateral teleoperation of a hydraulic robotic manipulator in contact with physical and virtual constraints

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The electrical conductivity of human cerebrospinal fluid in vivo

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Effect of rubber polarity on selective wetting of carbon nanotubes in ternary blends

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Effect of non-rubber components of NR on the carbon nanotube (CNT) localization in SBR/NR blends

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Research output: Contribution to journal › Article › Scientific › peer-review

Repeated use of stable magnetic flocculant for efficient harvest of oleaginous *Chlorella* sp.

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Production of long chain alkyl esters from carbon dioxide and electricity by a two-stage bacterial process

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Start-up and Operation of Laboratory-Scale Thermophilic Upflow Anaerobic Sludge Blanket Reactors Treating Vegetable Processing Wastewaters

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Research output: Contribution to journal › Article › Scientific › peer-review

Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials: implications for testing and risk assessment

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The influence of high-temperature sulfuric acid solution ageing on the properties of laminated vinyl-ester joints

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Mixed carbon substrates: a necessary nuisance or a missed opportunity?

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Modeling of anaerobic degradation of solid slaughterhouse waste: Inhibition effects of long-chain fatty acids or ammonia

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Design, synthesis, and structure-property relationships of Er³⁺-doped TiO₂ luminescent particles synthesized by sol-gel

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Spontaneous formation of three-dimensionally ordered Bi-rich nanostructures within GaAs_{1-x}Bi_x/GaAs quantum wells

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Synthetic metabolic pathway for the production of 1-alkenes from lignin-derived molecules

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Anaerobic on-site treatment of kitchen waste in combination with black water in UASB-septic tanks at low temperatures

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Artificial eye blink pacemaker - A first investigation into the blink production using constant-interval electrical stimulation

Lylykangas, J., Ilves, M., Venesvirta, H., Rantanen, V., Mäkelä, E., Vehkaoja, A., Verho, J., Lekkala, J., Rautiainen, M. & Surakka, V., 2018, *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, p. 522-525 4 p. (IFMBE Proceedings; vol. 65).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Electrical stimulation of eye blink in individuals with dry eye symptoms caused by chronic unilateral facial palsy

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Chimeric avidin shows stability against harsh chemical conditions-biochemical analysis and 3D structure

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Membrane bound COMT isoform is an interfacial enzyme: General mechanism and new drug design paradigm

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A novel generic algorithm for robust physiological signal classification

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A review of transient suppression methods of IIR notch filters used for power-line interference rejection in ECG measurement

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Importance of maintenance data quality in extended warranty simulation

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Liquid flame spray—a hydrogen-oxygen flame based method for nanoparticle synthesis and functional nanocoatings

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Modeling carbon dioxide transport in PDMS-based microfluidic cell culture devices

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Research output: Contribution to journal > Article > Scientific > peer-review

Floating frame of reference formulation for a flexible manipulator with hydraulic actuation - Modelling and experimental validation

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Effect of heavy metal co-contaminants on selenite bioreduction by anaerobic granular sludge

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Photoinduced Energy Transfer in ZnCdSeS Quantum Dot-Phthalocyanines Hybrids

Mandal, S., Garcia Iglesias, M., Ince, M., Torres, T. & Tkachenko, N. V., 31 Aug 2018, In : ACS Omega. 3, 8, p. 10048-10057 10 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Understanding the Role of Lipids in Signaling Through Atomistic and Multiscale Simulations of Cell Membranes

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Research output: Contribution to journal > Review Article > Scientific > peer-review

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Research output: Contribution to journal > Article > Scientific > peer-review

Lipid production by eukaryotic microorganisms isolated from palm oil mill effluent

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Research output: Contribution to journal > Article > Scientific > peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

'miSimBa' - A simulator of synthetic time-lapsed microscopy images of bacterial cells

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Research output: Contribution to journal › Article › Scientific › peer-review

Investigation of well-defined pinholes in TiO₂ electron selective layers used in planar heterojunction perovskite solar cells

Masood, M. T., Qudsia, S., Hadadian, M., Weinberger, C., Nyman, M., Ahläng, C., Dahlström, S., Liu, M., Vivo, P., Österbacka, R. & Smått, J. H., 2020, In : *Nanomaterials*. 10, 1, 16 p., 181.

Research output: Contribution to journal › Article › Scientific › peer-review

The influence of SrO and CaO in silicate and phosphate bioactive glasses on human gingival fibroblasts

Massera, J., Kokkari, A., Närhi, T. & Hupa, L., 25 Jun 2015, In : *Journal of Materials Science: Materials in Medicine*. 26, 6, 196.

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Research output: Contribution to journal › Article › Scientific › peer-review

Human activity recognition using a single optical heart rate monitoring wristband equipped with triaxial accelerometer

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Metrics for polyphonic sound event detection

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A comparison of five optical surface topography measurement methods

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A case study of focal bayesian EEG inversion for whitney element source spaces: Mesh-based vs. cartesian orientations

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

Efficient Conversion of Light to Chemical Energy: Directional, Chiral Photoswitches with Very High Quantum Yields

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

Chromatographic studies of n-Propyl Propionate: Adsorption equilibrium, modelling and uncertainties determination

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Particle emissions characterization from a medium-speed marine diesel engine with two fuels at different sampling conditions

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A neural network strategy for learning of nonlinearities toward feed-forward control of pressure-compensated hydraulic valves with a significant dead zone

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Evaluation of scaffold microstructure and comparison of cell seeding methods using micro-computed tomography-based tools

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Research output: Contribution to journal › Article › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Catalytic effect of Ca and K on CO₂ gasification of spruce wood char

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Research output: Contribution to journal > Article > Scientific > peer-review

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Nonlinear transmittance and optical power limiting in magnesium ferrite nanoparticles: effects of laser pulsewidth and particle size

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Evaluation of the accuracy and reliability for photoplethysmography based heart rate and beat-to-beat detection during daily activities

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Novel osteoconductive β -tricalcium phosphate/poly(L-lactide-co- ϵ -caprolactone) scaffold for bone regeneration: a study in a rabbit calvarial defect

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Research output: Contribution to journal > Article > Scientific > peer-review

3D micro-nano structured hybrid scaffolds: An investigation into the role of nanofiber coating on viability, proliferation and differentiation of seeded mesenchymal stem cells

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Research output: Contribution to journal > Article > Scientific > peer-review

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Exhaust emissions of non-road mobile machine: Real-world and laboratory studies with diesel and HVO fuels

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Research output: Contribution to journal > Article > Scientific > peer-review

Characterisation and in vitro and in vivo evaluation of supercritical-CO₂-foamed β -TCP/PLCL composites for bone applications

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Research output: Contribution to journal > Article > Scientific > peer-review

Cultivation of *Nannochloropsis* for eicosapentaenoic acid production in wastewaters of pulp and paper industry

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Research output: Contribution to journal > Article > Scientific > peer-review

Reversible biofunctionalization of surfaces with a switchable mutant of avidin

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Multi-stable dynamics of the non-adiabatic repressilator

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A tool for geometrical measurements of orthognathic surgery changes using cone beam computed tomography

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Improved biomass and lipid production in a mixotrophic culture of *Chlorella* sp. KR-1 with addition of coal-fired flue-gas

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Research output: Contribution to journal > Article > Scientific > peer-review

Wet etching of dilute nitride GaInNAs, GaInNAsSb, and GaNAsSb alloys lattice-matched to GaAs

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Research output: Contribution to journal > Article > Scientific > peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

High Bending-Mode Sensitivity of Printed Piezoelectric Poly(vinylidene fluoride- co-trifluoroethylene) Sensors

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Research output: Contribution to journal › Article › Scientific › peer-review

Mild pressure induces rapid accumulation of neutral lipid (triacylglycerol) in *Chlorella* spp.

Ramasamy, P., Kim, B., Lee, J., Vijayan, D., Lee, K., Nam, B., Jeon, S. G., Kim, D. M. & Oh, Y. K., 1 Nov 2016, In : Bioresource Technology. 220, p. 661-665 5 p.

Research output: Contribution to journal › Article › Scientific › peer-review

A Finite Cluster Approach to the Electron-Hole Pair Damping of the Adsorbate Vibration: CO Adsorbed on Cu(100)

Rantala, T. T., Rosén, A. & Hellsing, B., 1986, In : Studies in Surface Science and Catalysis. 26, C, p. 173-181 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Stimulation waveform selection to suppress functional electrical stimulation artifact from surface EMG signals

Rantanen, V., Vehkaoja, A. & Verho, J., 2018, *EMBECE 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, p. 422-425 4 p. (IFMBE Proceedings; vol. 65).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

High quality sub-10 nm graphene nanoribbons by on-chip PS-b-PDMS block copolymer lithography

Rasappa, S., Caridad, J. M., Schulte, L., Cagliani, A., Borah, D., Morris, M. A., Bøggild, P. & Ndoni, S., 29 Jul 2015, In : RSC Advances. 5, 82, p. 66711-66717 7 p.

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Fabrication of 3-D nanodimensioned electric double layer capacitor structures using block copolymer templates

Rasappa, S., Borah, D., Sentharamaikannan, R., Faulkner, C. C., Holmes, J. D. & Morris, M. A., 2014, In : Journal Nanoscience and Nanotechnology. 14, 7, p. 5221-5227 7 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Rapid, Brushless Self-assembly of a PS-b-PDMS Block Copolymer for Nanolithography

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Rasappa, S., Borah, D., Faulkner, C. C., Lutz, T., Shaw, M. T., Holmes, J. D. & Morris, M. A., 15 Feb 2013, In : Nanotechnology. 24, 6, 065503.

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Molecular mechanisms of ion-specific effects on proteins

Rembert, K. B., Paterová, J., Heyda, J., Hilty, C., Jungwirth, P. & Cremer, P. S., 20 Jun 2012, In : Journal of the American Chemical Society. 134, 24, p. 10039-10046 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Multiresonant High-Q Plasmonic Metasurfaces

Reshef, O., Saad-Bin-Alam, M., Huttunen, M. J., Carlow, G., Sullivan, B. T., Ménard, J. M., Dolgaleva, K. & Boyd, R. W., 11 Sep 2019, In : Nano Letters. 19, 9, p. 6429-6434 6 p.

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Solvent Welding and Imprinting Cellulose Nanofiber Films Using Ionic Liquids

Reyes, G., Borghei, M., King, A. W. T., Lahti, J. & Rojas, O. J., 14 Jan 2019, In : Biomacromolecules. 20, 1, p. 502-514

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Atrial fibrillation detection from wrist photoplethysmography data using artificial neural networks

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Aminobenzylated 4-Nitrophenols as Antibacterial Agents Obtained from 5-Nitrosalicylaldehyde through a Petasis Borono-Mannich Reaction

Rimpiläinen, T., Andrade, J., Nunes, A., Ntungwe, E., Fernandes, A. S., Vale, J. R., Rodrigues, J., Gomes, J. P., Rijo, P. & Candeias, N. R., 29 Nov 2018, In : *ACS Omega*. 3, 11, p. 16191-16202 12 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Thermophilic anaerobic digestion of source-sorted household solid waste: the effects of enzyme additions

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Research output: Contribution to journal > Article > Scientific > peer-review

A two-stage thermophilic anaerobic process for the treatment of source sorted household solid waste

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Highly exfoliated natural rubber/Clay composites by "propping-open procedure": The influence of fatty-acid chain length on exfoliation

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Temperature effect on the baseline noise in MEA measurements

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Roll-to-roll application of photocatalytic TiO₂ nanoparticles for printed functionality

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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

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Research output: Contribution to journal > Article > Scientific > peer-review

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Research output: Contribution to journal > Article > Scientific > peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

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Large-scale efficient water harvesting using bioinspired micro-patterned copper oxide nanoneedle surfaces and guided droplet transport

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Effect of surfactant type and sonication energy on the electrical conductivity properties of nanocellulose-CNT nanocomposite films

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Research output: Contribution to journal › Article › Scientific › peer-review

Photochemistry of dithiophosphinate $Ni(S_2P(i-Bu)_2)_2$ complex in CCl_4 . Transient species and TD-DFT calculations

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Characterization of the anisotropic deformation of the right ventricle during open heart surgery

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Influence of ionic liquids on the dielectric relaxation behavior of CNT based elastomer nanocomposites

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Research output: Contribution to journal > Article > Scientific > peer-review

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Molecular Design of Light-Responsive Hydrogels, for in Situ Generation of Fast and Reversible Valves for Microfluidic Applications

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Electrode comparison for textile-integrated electrocardiogram and impedance pneumography measurement

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New Evidence for the Mechanism of Action of a Type-2 Diabetes Drug Using a Magnetic Bead-Based Automated Biosensing Platform

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Utilizing Gelatinized Starchy Waste from Rice Noodle Factory as Substrate for L(+)-Lactic Acid Production by Amyolytic Lactic Acid Bacterium *Enterococcus faecium* K-1

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Effect of pre-treatments on barrier properties of layers applied by atomic layer deposition onto polymer-coated substrates

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Deactivation of $\text{Pt}/\text{SiO}_2\text{-ZrO}_2$ diesel oxidation catalysts by sulphur, phosphorus and their combinations

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Conjugated Heat Transfer Simulation of a Fin-and-Tube Heat Exchanger

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Research output: Contribution to journal > Article > Scientific > peer-review

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Research output: Contribution to journal > Article > Scientific > peer-review

Conductive layers on surface modified natural fibre based substrates for printed functionality

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

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Research output: Contribution to journal > Article > Scientific > peer-review

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Human Adipose Stem Cells Differentiated on Braided Polylactide Scaffolds is a Potential Approach for Tendon Tissue Engineering

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Research output: Contribution to journal > Article > Scientific > peer-review

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Research output: Contribution to journal > Article > Scientific > peer-review

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Polypyrrole coating on poly-(lactide/glycolide)- β -tricalcium phosphate screws enhances new bone formation in rabbits

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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