

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

Halonen, HT, Ihalainen, TO, Hyväri, L, Miettinen, S & Hyttinen, JAK 2020, 'Cell adhesion and culture medium dependent changes in the high frequency mechanical vibration induced proliferation, osteogenesis, and intracellular organization of human adipose stem cells', *Journal of the Mechanical Behavior of Biomedical Materials*, Vuosikerta. 101, 103419. <https://doi.org/10.1016/j.jmbbm.2019.103419>

Rebello Calejo, T, Vuorenperä, H, Vuorimaa-Laukkanen, E, Kallio, P, Aalto-Setälä, K, Miettinen, S, Skottman, H, Kellomäki, M & Juuti-Uusitalo, K 2020, 'Co-culture of human induced pluripotent stem cell-derived retinal pigment epithelial cells and endothelial cells on double collagen-coated honeycomb films', *Acta Biomaterialia*, Vuosikerta. 101, Sivut 327-343. <https://doi.org/10.1016/j.actbio.2019.11.002>

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

Kanerva, M, Besharat, Z, Pärnänen, T, Jokinen, J, Honkanen, M, Sarlin, E, Göthelid, M & Schlenzka, D 2019, 'Miniature CoCr laser welds under cyclic shear: Fatigue evolution and crack growth', *Journal of the Mechanical Behavior of Biomedical Materials*, Vuosikerta. 99, Sivut 93-103. <https://doi.org/10.1016/j.jmbbm.2019.07.004>

Faqhiri, H, Hannula, M, Kellomäki, M, Calejo, MT & Massera, J 2019, 'Effect of melt-derived bioactive glass particles on the properties of chitosan scaffolds', *JOURNAL OF FUNCTIONAL BIOMATERIALS*, Vuosikerta. 10, Nro 3, 38. <https://doi.org/10.3390/jfb10030038>

Vuornos, K, Huhtala, H, Kääriäinen, M, Kuismanen, K, Hupa, L, Kellomäki, M & Miettinen, S 2019, 'Bioactive glass ions for in vitro osteogenesis and microvascularization in gellan gum-collagen hydrogels', *Journal of Biomedical Materials Research - Part B Applied Biomaterials*. <https://doi.org/10.1002/jbm.b.34482>

Pitkänen, S, Paakinaho, K, Pihlman, H, Ahola, N, Hannula, M, Asikainen, S, Manninen, M, Morelius, M, Keränen, P, Hyttinen, J, Kellomäki, M, Laitinen-Vapaavuori, O & Miettinen, S 2019, 'Characterisation and in vitro and in vivo evaluation of supercritical-CO₂-foamed β -TCP/PLCL composites for bone applications', *European cells & materials*, Vuosikerta. 38, Sivut 35-50. <https://doi.org/10.22203/eCM.v038a04>

Wang, X, Molino, BZ, Pitkänen, S, Ojansivu, M, Xu, C, Hannula, M, Hyttinen, J, Miettinen, S, Hupa, L & Wallace, G 2019, '3D Scaffolds of Polycaprolactone/Copper-Doped Bioactive Glass: Architecture Engineering with Additive Manufacturing and Cellular Assessments in a Coculture of Bone Marrow Stem Cells and Endothelial Cells', *ACS Biomaterials Science and Engineering*, Vuosikerta. 5, Nro 9, Sivut 4496-4510. <https://doi.org/10.1021/acsbomaterials.9b00105>

Jackson, T, Shenkin, A, Moore, J, Bunce, A, van Emmerik, T, Kane, B, Burcham, D, James, K, Selker, J, Calders, K, Origo, N, Disney, M, Burt, A, Wilkes, P, Raunonen, P, Gonzalez de Tanago Menaca, J, Lau, A, Herold, M, Goodman, RC, Fourcaud, T & Malhi, Y 2019, 'An architectural understanding of natural sway frequencies in trees', *Journal of the Royal Society. Interface*, Vuosikerta. 16, Nro 155. <https://doi.org/10.1098/rsif.2019.0116>

Lolicato, F, Joly, L, Martinez-Seara, H, Fragneto, G, Scoppola, E, Baldelli Bombelli, F, Vattulainen, I, Akola, J & Maccarini, M 2019, 'The Role of Temperature and Lipid Charge on Intake/Uptake of Cationic Gold Nanoparticles into Lipid Bilayers', *Small*, Vuosikerta. 15, Nro 23, 1805046. <https://doi.org/10.1002/sml.201805046>

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

Haapanen, J, Aromaa, M, Teisala, H, Juuti, P, Tuominen, M, Sillanpää, M, Stepien, M, Saarinen, JJ, Toivakka, M, Kuusipalo, J & Mäkelä, JM 2019, 'On the limit of superhydrophobicity: Defining the minimum amount of TiO₂ nanoparticle coating', *Materials Research Express*, Vuosikerta. 6, Nro 3, 035004. <https://doi.org/10.1088/2053-1591/aaf2ee>

Salonius, E, Muhonen, V, Lehto, K, Järvinen, E, Pyhältö, T, Hannula, M, Aula, AS, Uppstu, P, Haaparanta, AM, Rosling, A, Kellomäki, M & Kiviranta, I 2019, 'Gas-foamed poly(lactide-co-glycolide) and poly(lactide-co-glycolide) with bioactive glass fibres demonstrate insufficient bone repair in lapine osteochondral defects', *Journal of Tissue Engineering and Regenerative Medicine*, Vuosikerta. 13, Nro 3, Sivut 406-415. <https://doi.org/10.1002/term.2801>

Mishra, A, Ojansivu, M, Autio, R, Vanhatupa, S, Miettinen, S & Massera, J 2019, 'In-vitro dissolution characteristics and human adipose stem cell response to novel borophosphate glasses', *Journal of Biomedical Materials Research - Part A*. <https://doi.org/10.1002/jbm.a.36722>

Tomaskovic-Crook, E, Zhang, P, Ahtiainen, A, Kaisvu, H, Lee, CY, Beirne, S, Aqrave, Z, Svirskis, D, Hyttinen, J, Wallace, GG, Travas-Sejdic, J & Crook, JM 2019, 'Human Neural Tissues from Neural Stem Cells Using Conductive Biogel and Printed Polymer Microelectrode Arrays for 3D Electrical Stimulation', *ADVANCED HEALTHCARE MATERIALS*. <https://doi.org/10.1002/adhm.201900425>

Fliervoet, LAL, Lisitsyna, ES, Durandin, NA, Kotsis, I, Maas-Bakker, RFM, Yliperttula, M, Hennink, WE, Vuorimaa-Laukkanen, E & Vermonden, T 2019, 'Structure and Dynamics of Thermosensitive pDNA Polyplexes Studied by Time-Resolved Fluorescence Spectroscopy', *Biomacromolecules*. <https://doi.org/10.1021/acs.biomac.9b00896>

Pihlman, H, Keränen, P, Paakinaho, K, Linden, J, Hannula, M, Manninen, IK, Hyttinen, J, Manninen, M & Laitinen-Vapaavuori, O 2018, 'Novel osteoconductive β -tricalcium phosphate/poly(L-lactide-co-e-caprolactone) scaffold for bone regeneration: a study in a rabbit calvarial defect', *Journal of Materials Science: Materials in Medicine*, Vuosikerta. 29, Nro 10, 156. <https://doi.org/10.1007/s10856-018-6159-9>

Abu Khamidakh, AE, Rodriguez-Martinez, A, Kaarniranta, K, Kallioniemi, A, Skottman, H, Hyttinen, J & Juuti-Uusitalo, K 2018, 'Wound healing of human embryonic stem cell-derived retinal pigment epithelial cells is affected by maturation stage', *BioMedical Engineering Online*, Vuosikerta. 17, Nro 1, 102. <https://doi.org/10.1186/s12938-018-0535-z>

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

Kaasalainen, S, Åkerblom, M, Nevalainen, O, Hakala, T & Kaasalainen, M 2018, 'Uncertainty in multispectral lidar signals caused by incidence angle effects', *Interface Focus*, Vuosikerta. 8, Nro 2, 20170033. <https://doi.org/10.1098/rsfs.2017.0033>

Åkerblom, M, Raunonen, P, Casella, E, Disney, MI, Danson, FM, Gaulton, R, Schofield, LA & Kaasalainen, M 2018, 'Non-intersecting leaf insertion algorithm for tree structure models', *Interface Focus*, Vuosikerta. 8, Nro 2, 20170045. <https://doi.org/10.1098/rsfs.2017.0045>

Disney, MI, Boni Vicari, M, Burt, A, Calders, K, Lewis, SL, Raunonen, P & Wilkes, P 2018, 'Weighing trees with lasers: Advances, challenges and opportunities', *Interface Focus*, Vuosikerta. 8, Nro 2, 20170048. <https://doi.org/10.1098/rsfs.2017.0048>

Ojansivu, M, Wang, X, Hyväri, L, Kellomäki, M, Hupa, L, Vanhatupa, S & Miettinen, S 2018, '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*, Vuosikerta. 35, Sivut 53-71. <https://doi.org/10.22203/eCM.v035a05>

Fedele, C, De Gregorio, M, Netti, PA, Cavalli, S & Attanasio, C 2017, 'Azopolymer photopatterning for directional control of angiogenesis', *Acta Biomaterialia*, Vuosikerta. 63, Sivut 317-325. <https://doi.org/10.1016/j.actbio.2017.09.022>

Virjula, S, Zhao, F, Leivo, J, Vanhatupa, S, Kreutzer, J, Vaughan, TJ, Honkala, AM, Viehrig, M, Mullen, CA, Kallio, P, McNamara, LM & Miettinen, S 2017, 'The effect of equiaxial stretching on the osteogenic differentiation and mechanical properties of human adipose stem cells', *Journal of the Mechanical Behavior of Biomedical Materials*, Vuosikerta. 72, Sivut 38-48. <https://doi.org/10.1016/j.jmbbm.2017.04.016>

Karvinen, J, Koivisto, JT, Jönkkäri, I & Kellomäki, M 2017, 'The production of injectable hydrazone crosslinked gellan gum-hyaluronan-hydrogels with tunable mechanical and physical properties', *Journal of the Mechanical Behavior of Biomedical Materials*, Vuosikerta. 71, Sivut 383-391. <https://doi.org/10.1016/j.jmbbm.2017.04.006>

Moilanen, C, Björkqvist, T, Ovaska, M, Koivisto, J, Miksic, A, Engberg, BA, Salminen, LI, Saarenrinne, P & Alava, M 2017, 'Influence of strain rate, temperature and fatigue on the radial compression behaviour of Norway spruce', *Holzforschung*, Vuosikerta. 71, Nro 6, Sivut 505-514. <https://doi.org/10.1515/hf-2016-0144>

Böttrich, M, Tanskanen, JMA & Hyttinen, JAK 2017, 'Lead field theory provides a powerful tool for designing microelectrode array impedance measurements for biological cell detection and observation', *BioMedical Engineering Online*, Vuosikerta. 16, Nro 1, 85. <https://doi.org/10.1186/s12938-017-0372-5>

Koivisto, JT, Joki, T, Parraga, JE, Paakkönen, R, Ylä-Outinen, L, Salonen, L, Jönkkäri, I, Peltola, M, Ihalainen, TO, Narkilahti, S & Kellomäki, M 2017, 'Bioamine-crosslinked gellan gum hydrogel for neural tissue engineering', *Biomedical Materials*, Vuosikerta. 12, Nro 2, 025014. <https://doi.org/10.1088/1748-605X/aa62b0>

Hyysalo, A, Ristola, M, Joki, T, Honkanen, M, Vippola, M & Narkilahti, S 2017, '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*, Vuosikerta. 17, Nro 7, 1600517. <https://doi.org/10.1002/mabi.201600517>

Will, OM, Purcz, N, Chalaris, A, Heneweer, C, Boretius, S, Purcz, L, Nikkola, L, Ashammakhi, N, Kalthoff, H, Glüer, CC, Wiltfang, J, Açil, Y & Tiwari, S 2016, 'Increased survival rate by local release of diclofenac in a murine model of recurrent oral carcinoma', *International Journal of Nanomedicine*, Vuosikerta. 11, Sivut 5311-5321. <https://doi.org/10.2147/IJN.S109199>

Lenk, K, Priwitzer, B, Ylä-Outinen, L, Tietz, LHB, Narkilahti, S & Hyttinen, JAK 2016, 'Simulation of developing human neuronal cell networks', *BioMedical Engineering Online*, Vuosikerta. 15, Nro 1, 105. <https://doi.org/10.1186/s12938-016-0226-6>

Lindgren, M, Wallin, M, Kakkonen, M, Saarela, O & Vuorinen, J 2016, 'The influence of high-temperature sulfuric acid solution ageing on the properties of laminated vinyl-ester joints', *International Journal of Adhesion and Adhesives*, Vuosikerta. 68, Sivut 298-304. <https://doi.org/10.1016/j.ijadhadh.2016.04.011>

Calejo, MT, Ilmarinen, T, Jongprasitkul, H, Skottman, H & Kellomäki, M 2016, 'Honeycomb porous films as permeable scaffold materials for human embryonic stem cell-derived retinal pigment epithelium', *Journal of Biomedical Materials Research. Part A*, Vuosikerta. 104, Nro 7, Sivut 1646-1656. <https://doi.org/10.1002/jbm.a.35690>

Sharma, R, Bhalerao, S & Gupta, D 2016, 'Effect of incorporation of CdS NPs on performance of PTB7: PCBM organic solar cells', *Organic Electronics: physics, materials, applications*, Vuosikerta. 33, Sivut 274-280. <https://doi.org/10.1016/j.orgel.2016.03.030>

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

Vuornos, K, Björninen, M, Talvitie, E, Paakinaho, K, Kellomäki, M, Huhtala, H, Miettinen, S, Seppänen-Kaijansinkko, R & Haimi, S 2016, 'Human Adipose Stem Cells Differentiated on Braided Polylactide Scaffolds is a Potential Approach for Tendon Tissue Engineering', *Tissue Engineering Part A*, Vuosikerta. 22, Nro 5-6, Sivut 513-523. <https://doi.org/10.1089/ten.tea.2015.0276>

Hiltunen, M, Pelto, J, Ellä, V & Kellomäki, M 2016, 'Uniform and electrically conductive biopolymer-doped polypyrrole coating for fibrous PLA', *Journal of Biomedical Materials Research. Part B: Applied Biomaterials*, Vuosikerta. 104, Nro 8, Sivut 1721-1729. <https://doi.org/10.1002/jbm.b.33514>

Bansod, ND, Kapgate, BP, Das, C, Das, A, Basu, D & Debnath, SC 2016, 'Compatibilization of natural rubber/nitrile rubber blends by sol-gel nano-silica generated by in situ method', *JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY*, Vuosikerta. 80, Nro 2, Sivut 548–559. <https://doi.org/10.1007/s10971-016-4114-0>

Kuuliala, L, Pippuri, T, Hultman, J, Auvinen, S-M, Kolppo, K, Nieminen, T, Karp, M, Björkroth, J, Kuusipalo, J & Jääskeläinen, E 2015, 'Preparation and antimicrobial characterization of silver-containing packaging materials for meat', *Food Packaging and Shelf Life*, Vuosikerta. 6, 67, Sivut 53-60. <https://doi.org/10.1016/j.fpsl.2015.09.004>

Zhao, MD, Björninen, M, Cao, L, Wang, HR, Pelto, J, Li, XQ, Hyttinen, J, Jiang, YQ, Kellomäki, M, Miettinen, S, Sándor, GK, Seppänen, R, Haimi, S & Dong, J 2015, 'Polypyrrole coating on poly-(lactide/glycolide)- β -tricalcium phosphate screws enhances new bone formation in rabbits', *Biomedical Materials*, Vuosikerta. 10, Nro 6, 065016. <https://doi.org/10.1088/1748-6041/10/6/065016>

Al Qaysi, M, Walters, NJ, Foroutan, F, Owens, GJ, Kim, HW, Shah, R & Knowles, JC 2015, 'Strontium- and calcium-containing, titanium-stabilised phosphate-based glasses with prolonged degradation for orthopaedic tissue engineering', *Journal of Biomaterials Applications*, Vuosikerta. 30, Nro 3, Sivut 300-310. <https://doi.org/10.1177/0885328215588898>

Sorkio, A, Porter, PJ, Juuti-Uusitalo, K, Meenan, BJ, Skottman, H & Burke, GA 2015, 'Surface Modified Biodegradable Electrospun Membranes as a Carrier for Human Embryonic Stem Cell-Derived Retinal Pigment Epithelial Cells', *Tissue Engineering Part A*, Vuosikerta. 21, Nro 17-18, Sivut 2301-2314. <https://doi.org/10.1089/ten.tea.2014.0640>

Foroutan, F, Walters, NJ, Owens, GJ, Mordan, NJ, Kim, HW, de Leeuw, NH & Knowles, JC 2015, '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)*, Vuosikerta. 10, Nro 4, Sivut 45025. <https://doi.org/10.1088/1748-6041/10/4/045025>

Ojansivu, M, Vanhatupa, S, Björkvik, L, Häkkänen, H, Kellomäki, M, Autio, R, Ihalainen, JA, Hupa, L & Miettinen, S 2015, 'Bioactive glass ions as strong enhancers of osteogenic differentiation in human adipose stem cells', *Acta Biomaterialia*, Vuosikerta. 21, Sivut 190-203. <https://doi.org/10.1016/j.actbio.2015.04.017>

Isoniemi, T, Tuukkanen, S, Cameron, DC, Simonen, J & Toppari, JJ 2015, 'Measuring optical anisotropy in poly(3,4-ethylene dioxythiophene): poly(styrene sulfonate) films with added graphene', *Organic Electronics*, Vuosikerta. 25, Sivut 317-323. <https://doi.org/10.1016/j.orgel.2015.06.037>, <https://doi.org/10.1016/j.orgel.2015.06.037>

Massera, J, Kokkari, A, Närhi, T & Hupa, L 2015, 'The influence of SrO and CaO in silicate and phosphate bioactive glasses on human gingival fibroblasts', *Journal of Materials Science: Materials in Medicine*, Vuosikerta. 26, Nro 6, 196. <https://doi.org/10.1007/s10856-015-5528-x>

Borah, D, Rasappa, S, Salaun, M, Zellsman, M, Lorret, O, Lontos, G, Ntetsikas, K, Avgeropoulos, A & Morris, MA 2015, 'Soft graphoepitaxy for large area directed self-assembly of polystyrene-block-poly(dimethylsiloxane) block copolymer on nanopatterned poss substrates fabricated by nanoimprint lithography', *Advanced Functional Materials*, Vuosikerta. 25, Nro 22, Sivut 3425-3432. <https://doi.org/10.1002/adfm.201500100>

Ribeiro, C, Pärssinen, J, Sencadas, V, Correia, V, Miettinen, S, Hytönen, VP & Lanceros-Méndez, S 2015, 'Dynamic piezoelectric stimulation enhances osteogenic differentiation of human adipose stem cells', *Journal of Biomedical Materials Research. Part A*, Vuosikerta. 103, Nro 6, Sivut 2172-2175. <https://doi.org/10.1002/jbm.a.35368>

Sorkio, AE, Vuorimaa-Laukkanen, EP, Hakola, HM, Liang, H, Ujula, TA, Valle-Delgado, JJ, Österberg, M, Yliperttula, ML & Skottman, H 2015, 'Biomimetic collagen I and IV double layer Langmuir-Schaefer films as microenvironment for human pluripotent stem cell derived retinal pigment epithelial cells', *Biomaterials*, Vuosikerta. 51, Sivut 257-269. <https://doi.org/10.1016/j.biomaterials.2015.02.005>

Vignion-Dewalle, AS, Betrouni, N, Tylcz, JB, Vermandel, M, Mortier, L & Mordon, S 2015, 'Comparison of three light doses in the photodynamic treatment of actinic keratosis using mathematical modeling', *JOURNAL OF BIOMEDICAL OPTICS*, Vuosikerta. 20, Nro 5, 058001. <https://doi.org/10.1117/1.JBO.20.5.058001>

Potapov, I, Zhurov, B & Volkov, E 2015, 'Multi-stable dynamics of the non-adiabatic repressilator', *Journal of the Royal Society. Interface*, Vuosikerta. 12, Nro 104, 20141315. <https://doi.org/10.1098/rsif.2014.1315>

Parssinen, J, Hammarén, H, Rahikainen, R, Sencadas, V, Ribeiro, C, Vanhatupa, S, Miettinen, S, Lanceros-Méndez, S & Hytönen, VP 2015, 'Enhancement of adhesion and promotion of osteogenic differentiation of human adipose stem cells by poled electroactive poly(vinylidene fluoride)', *Journal of Biomedical Materials Research. Part A*, Vuosikerta. 103, Nro 3, Sivut 919-928. <https://doi.org/10.1002/jbm.a.35234>

Li, Z, Le, T, Wu, Z, Yao, Y, Li, L, Tentzeris, M, Moon, KS & Wong, CP 2015, 'Rational design of a printable, highly conductive silicone-based electrically conductive adhesive for stretchable radio-frequency antennas', *Advanced Functional Materials*, Vuosikerta. 25, Nro 3, Sivut 464-470. <https://doi.org/10.1002/adfm.201403275>

Ahtiainen, K, Sippola, L, Nurminen, M, Mannerström, B, Haimi, S, Suuronen, R, Hyttinen, J, Ylikomi, T, Kellomäki, M & Miettinen, S 2015, 'Effects of chitosan and bioactive glass modifications of knitted and rolled polylactide-based 96/4L/D scaffolds on chondrogenic differentiation of adipose stem cells', *Journal of Tissue Engineering and Regenerative Medicine*, Vuosikerta. 9, Nro 1, Sivut 55-65. <https://doi.org/10.1002/term.1614>

Stumpel, JE, Gil, ER, Spoelstra, AB, Bastiaansen, CWM, Broer, DJ & Schenning, APHJ 2015, 'Stimuli-Responsive Materials Based on Interpenetrating Polymer Liquid Crystal Hydrogels', *Advanced Functional Materials*, Vuosikerta. 25, Nro 22, Sivut 3314-3320. <https://doi.org/10.1002/adfm.201500745>

Kulkova, J, Moritz, N, Suokas, EO, Strandberg, N, Leino, KA, Laitio, TT & Aro, HT 2014, 'Osteointegration of PLGA implants with nanostructured or micro-sized β -TCP particles in a minipig model', *Journal of the Mechanical Behavior of Biomedical Materials*, Vuosikerta. 40, Sivut 190-200. <https://doi.org/10.1016/j.jmbbm.2014.08.028>

Sorkio, A, Hongisto, H, Kaarniranta, K, Uusitalo, H, Juuti-Uusitalo, K & Skottman, H 2014, '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*, Vuosikerta. 20, Nro 3-4, Sivut 622-634. <https://doi.org/10.1089/ten.tea.2013.0049>

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

Turunen, S, Käpylä, E, Lähtenmäki, M, Ylä-Outinen, L, Narkilahti, S & Kellomäki, M 2014, 'Direct laser writing of microstructures for the growth guidance of human pluripotent stem cell derived neuronal cells', *Optics and Lasers in Engineering*, Vuosikerta. 55, Sivut 197-204. <https://doi.org/10.1016/j.optlaseng.2013.11.003>

Ylä-Outinen, L, Joki, T, Varjola, M, Skottman, H & Narkilahti, S 2014, 'Three-dimensional growth matrix for human embryonic stem cell-derived neuronal cells', *Journal of Tissue Engineering and Regenerative Medicine*, Vuosikerta. 8, Nro 3, Sivut 186-194. <https://doi.org/10.1002/term.1512>

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

Diban, N, Haimi, S, Bolhuis-Versteeg, L, Teixeira, S, Miettinen, S, Poot, A, Grijpma, D & Stamatialis, D 2013, 'Hollow fibers of poly(lactide-co-glycolide) and poly(ϵ -caprolactone) blends for vascular tissue engineering applications', *Acta Biomaterialia*, Vuosikerta. 9, Nro 5, Sivut 6450-6458. <https://doi.org/10.1016/j.actbio.2013.01.005>

Kapgate, BP, Das, C, Das, A, Basu, D, Reuter, U & Heinrich, G 2012, 'Effect of sol-gel derived in situ silica on the morphology and mechanical behavior of natural rubber and acrylonitrile butadiene rubber blends', *JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY*, Vuosikerta. 63, Nro 3, Sivut 501-509. <https://doi.org/10.1007/s10971-012-2812-9>

Paci, M, Sartiani, L, Del Lungo, M, Jaconi, M, Mugelli, A, Cerbai, E & Severi, S 2012, 'Mathematical modelling of the action potential of human embryonic stem cell derived cardiomyocytes', *BioMedical Engineering Online*, Vuosikerta. 11, 61. <https://doi.org/10.1186/1475-925X-11-61>

Priimagi, A, Cavallo, G, Forni, A, Gorynsztejn-Leben, M, Kaivola, M, Metrangolo, P, Milani, R, Shishido, A, Pilati, T, Resnati, G & Terraneo, G 2012, 'Halogen bonding versus hydrogen bonding in driving self-assembly and performance of light-responsive supramolecular polymers', *Advanced Functional Materials*, Vuosikerta. 22, Nro 12, Sivut 2572-2579. <https://doi.org/10.1002/adfm.201200135>

Praveenkumar, R, Johncy, K, MubarakAli, D, Vijayan, D, Thajuddin, N & Gunasekaran, M 2012, '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*, Vuosikerta. 6, Nro 2, Sivut 209-213. <https://doi.org/10.1166/jbmb.2012.1200>

Cuyon, L, Lesage, JC, Betrouni, N & Mordon, S 2012, 'Development of a new illumination procedure for photodynamic therapy of the abdominal cavity', *JOURNAL OF BIOMEDICAL OPTICS*, Vuosikerta. 17, Nro 3, 038001. <https://doi.org/10.1117/1.JBO.17.3.038001>

Sarkanen, JR, Kaila, V, Mannerström, B, Rätty, S, Kuokkanen, H, Miettinen, S & Ylikomi, T 2012, 'Human adipose tissue extract induces angiogenesis and adipogenesis in vitro', *Tissue Engineering Part A*, Vuosikerta. 18, Nro 1-2, Sivut 17-25. <https://doi.org/10.1089/ten.tea.2010.0712>

Waselau, M, Patrikoski, M, Juntunen, M, Kujala, K, Kääriäinen, M, Kuokkanen, H, Sándor, GK, Vapaavuori, O, Suuronen, R, Mannerström, B, von Rechenberg, B & Miettinen, S 2012, 'Effects of bioactive glass S53P4 or beta-tricalcium phosphate and bone morphogenetic protein-2 and bone morphogenetic protein-7 on osteogenic differentiation of human adipose stem cells', *Journal of Tissue Engineering*, Vuosikerta. 3, Nro 1, Sivut 1-14. <https://doi.org/10.1177/2041731412467789>

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

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

Marqa, MF, Colin, P, Nevoux, P, Mordon, SR & Betrouni, N 2011, 'Focal Laser Ablation of Prostate Cancer: Numerical Simulation of Temperature and Damage Distribution', *BioMedical Engineering Online*, Vuosikerta. 10, 45. <https://doi.org/10.1186/1475-925X-10-45>

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

Kanninen, L, Jokinen, N, Lahtonen, K, Jussila, P, Ali-Löytty, H, Hirsimäki, M, Leppiniemi, J, Hytönen, V, Kulomaa, M, Ahola, N, Paakinaho, K, Kellomäki, M & Valden, M 2010, 'Surface science analysis and surface modification methods for biomaterials research', *European Cells and Materials*, Vuosikerta. 20, Nro SUPPL. 3, Sivut 133.

Le Xuan, L, Zhou, C, Slablab, A, Chauvat, D, Tard, C, Perruchas, S, Gacoin, T, Villeval, P & Roch, J-F 2008, 'Photostable second-harmonic generation from a single KTiOPO4 nanocrystal for nonlinear microscopy', *Small*, Vuosikerta. 4, Nro 9, Sivut 1332-1336. <https://doi.org/10.1002/smll.200701093>

Nymark, P, Bakker, M, Dekkers, S, Franken, R, Fransman, W, García-Bilbao, A, Greco, D, Gulumian, M, Hadrup, N, Halappanavar, S, Hongisto, V, Hougaard, KS, Jensen, KA, Kohonen, P, Koivisto, AJ, Dal Maso, M, Oosterwijk, T, Poikkimäki, M, Rodriguez-Llopis, I, Stierum, R, Sørli, JB & Grafström, R 2020, 'Toward Rigorous Materials Production:

New Approach Methodologies Have Extensive Potential to Improve Current Safety Assessment Practices', *Small*, Vuosikerta. 16, Nro 6, 1904749. <https://doi.org/10.1002/smll.201904749>

Veber, A, Lu, Z, Vermillac, M, Pigeonneau, F, Blanc, W & Petit, L 2019, 'Nano-structured optical fibers made of glass-ceramics, and phase separated and metallic particle-containing glasses', *Fibers*, Vuosikerta. 7, Nro 12. <https://doi.org/10.3390/fib7120105>

Ukkonen, L, Sydänheimo, L, Ma, S & Björninen, T 2020, Backscattering-based wireless communication and power transfer to small biomedical implants. julkaisussa BL Gray & H Becker (toim), *Microfluidics, BioMEMS, and Medical Microsystems XVIII.*, 112350A, Progress in Biomedical Optics and Imaging - Proceedings of SPIE, Vuosikerta. 11235, SPIE, San Francisco, Yhdysvallat, 1/02/20. <https://doi.org/10.1117/12.2552183>

Vimieiro, RB, Borges, LR, Caron, RF, Barufaldi, B, Bakic, PR, Maidment, ADA & Vieira, MAC 2019, Noise measurements from reconstructed digital breast tomosynthesis. julkaisussa TG Schmidt, G-H Chen & H Bosmans (toim), *Medical Imaging 2019: Physics of Medical Imaging.*, 109480C, Progress in Biomedical Optics and Imaging - Proceedings of SPIE, Vuosikerta. 10948, SPIE, IEEE, 1/01/00. <https://doi.org/10.1117/12.2512977>

Wirdatmadja, S, Johari, P, Balasubramaniam, S, Bae, Y, Stachowiak, MK & Jornet, JM 2018, Light propagation analysis in nervous tissue for wireless optogenetic nanonetworks. julkaisussa *Optogenetics and Optical Manipulation 2018.*, 104820R, SPIE, San Francisco, Yhdysvallat, 27/01/18. <https://doi.org/10.1117/12.2288786>

Borges, LR, Bakic, PR, Foi, A, Maidment, ADA & Vieira, MAC 2017, Pipeline for effective denoising of digital mammography and digital breast tomosynthesis. julkaisussa *Medical Imaging 2017: Physics of Medical Imaging.*, 1013206, Progress in biomedical optics and imaging, SPIE, 1/01/00. <https://doi.org/10.1117/12.2255058>

Lahti, J, Lavonen, J, Lahtinen, K, Johansson, P, Seppänen, T & Cameron, DC 2016, Improved properties for packaging materials by nanoscale surface modification and ALD barrier coating. julkaisussa *TAPPI International Conference on Nanotechnology for Renewable Materials 2016*. Vuosikerta. 2, TAPPI Press, Sivut 684-706, 1/01/00.

Leroy, HA, Vermandel, M, Tétard, MC, Lejeune, JP, Mordon, S & Reyns, N 2015, Interstitial photodynamic therapy and glioblastoma: Light fractionation study on a preclinical model: Preliminary results. julkaisussa *Optical Techniques in Neurosurgery, Neurophotonics, and Optogenetics II*. Vuosikerta. 9305, 93050D, SPIE, San Francisco, Yhdysvallat, 7/02/15. <https://doi.org/10.1117/12.2079347>

Lahtinen, K, Maydannik, P, Kääriäinen, T, Seppänen, T, Cameron, DC, Johansson, P, Kraft, M & Kuusipalo, J 2013, Roll-to-roll atomic layer deposition for flexible substrates. julkaisussa *TAPPI International Conference on Nanotechnology 2013*. TAPPI Press, Sivut 726-739, Stockholm, Ruotsi, 24/06/13.

Stepien, M, Chinga-Carrasco, G, Saarinen, JJ, Teisala, H, Tuominen, M, Aromaa, M, Haapanen, J, Kuusipalo, J, Mäkelä, JM & Toivakka, M 2013, Wear resistance of nanoparticle coatings on paperboard. julkaisussa *TAPPI International Conference on Nanotechnology 2013*. TAPPI Press, Sivut 821-829, Stockholm, Ruotsi, 24/06/13.

Cetina-Diaz, SM, Vargas-Coronado, RF, Cervantes-Uc, JM, Cauch-Rodríguez, JV, Ahola, N, Paakinaho, K & Kellomäki, M 2011, HA composites of segmented polyurethanes prepared with glutamine or ascorbic acid as chain extenders for bone tissue regeneration. julkaisussa *24th European Conference on Biomaterials - Annual Conference of the European Society for Biomaterials, ESB 2011.*, Dublin, Irlanti, 4/09/11.

Ahola, N, Veiranto, M, Männistö, N & Kellomäki, M 2011, Composites of poly(L-lactide-co-caprolactone) and tricalcium phosphate containing antibiotics; Degradation and drug release. julkaisussa *24th European Conference on Biomaterials - Annual Conference of the European Society for Biomaterials, ESB 2011.*, Dublin, Irlanti, 4/09/11.

Paakinaho, K, Heino, H, Väisänen, J, Törmälä, P & Kellomäki, M 2011, Effect of lactide monomer on the hydrolytic degradation and performance of melt processed poly(lactide-coglycolide) 85L/15G. julkaisussa *24th European Conference on Biomaterials - Annual Conference of the European Society for Biomaterials, ESB 2011.*, Dublin, Irlanti, 4/09/11.

Aydogan, DB, Hannula, M, Rajala, A, Pälli, A, Haimi, S, Kellomäki, M & Hyttinen, J 2011, Analysis of biomaterial scaffold fiber thickness for assessing cell attachment. julkaisussa *24th European Conference on Biomaterials - Annual Conference of the European Society for Biomaterials, ESB 2011.*, Dublin, Irlanti, 4/09/11.

Käpylä, E, Aydogan, DB, Turunen, S, Hyttinen, J & Kellomäki, M 2011, Picosecond laser-induced polymerization of highly porous microscaffolds. julkaisussa *24th European Conference on Biomaterials - Annual Conference of the European Society for Biomaterials, ESB 2011.*, Dublin, Irlanti, 4/09/11.

Kroon, M, Talvitie, E, Miettinen, S & Kellomäki, M 2018, 'A COMPARATIVE IN VITRO STUDY OF CELL GROWTH ON TEXTILE SCAFFOLDS FOR TISSUE ENGINEERING APPLICATIONS' Artikkelit esitetty, Maastricht, Alankomaat, 9/09/18 - 13/09/18, .

Kroon, M, Talvitie, E, Miettinen, S & Kellomäki, M 2018, 'Cell response to round and star-shaped polylactide fibers' Artikkelit esitetty, Tampere, Suomi, 23/11/18, .

Virtanen, J & Tuukkanen, S 2017, 'Multi-material bio-printing facilities' Artikkelit esitetty, Tampere, Suomi, 26/10/17 - 26/10/17, .

Pammo, A, Schouten, M, Virtanen, J & Tuukkanen, S 2016, 'Biomaterials for Electronics' Sivut 1-1.