

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*. 5(9):4496-4510. <https://doi.org/10.1021/acsbiomaterials.9b00105>

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*. 35(5):1420-1428. <https://doi.org/10.1016/j.biomaterials.2013.11.028>

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

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*. 16(155). <https://doi.org/10.1098/rsif.2019.0116>

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

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*. 35:53-71. <https://doi.org/10.22203/eCM.v035a05>

Ojansivu M, Vanhatupa S, Björkvik L, Häkkinen 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*. 21:190-203. <https://doi.org/10.1016/j.actbio.2015.04.017>

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>

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*. 12(2). <https://doi.org/10.1088/1748-605X/aa62b0>

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*. 51:257-269. <https://doi.org/10.1016/j.biomaterials.2015.02.005>

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*. 101. <https://doi.org/10.1016/j.jmbm.2019.103419>

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-CO<sub>2</sub>-foamed  $\beta$ -TCP/PLCL composites for bone applications. *European cells & materials*. 38:35-50. <https://doi.org/10.22203/eCM.v038a04>

Rebelo 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*. 101:327-343. <https://doi.org/10.1016/j.actbio.2019.11.002>

- 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*. 20(5). <https://doi.org/10.1117/1.JBO.20.5.058001>
- 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*. 80(2):548–559. <https://doi.org/10.1007/s10971-016-4114-0>
- 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*. 6(2):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*. 17(3). <https://doi.org/10.1117/1.JBO.17.3.038001>
- Turunen S, Käpylä E, Lähteenmäki 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*. 55:197-204. <https://doi.org/10.1016/j.optlaseng.2013.11.003>
- 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*. 103(6):2172-2175. <https://doi.org/10.1002/jbm.a.35368>
- Sharma R, Bhalariao S, Gupta D. 2016. Effect of incorporation of CdS NPs on performance of PTB7: PCBM organic solar cells. *Organic Electronics: physics, materials, applications*. 33:274-280. <https://doi.org/10.1016/j.orgel.2016.03.030>
- 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*. 10(3). <https://doi.org/10.3390/jfb10030038>
- 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*. 63(3):501-509. <https://doi.org/10.1007/s10971-012-2812-9>
- 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*. 3(1):1-14. <https://doi.org/10.1177/2041731412467789>
- 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*. 9(1):55-65. <https://doi.org/10.1002/term.1614>
- 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*. 103(3):919-928. <https://doi.org/10.1002/jbm.a.35234>
- 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*. 17(165). <https://doi.org/10.1098/rsif.2020.0102>

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*. 522:48-56. <https://doi.org/10.1016/j.jcis.2018.03.053>

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*. 10. <https://doi.org/10.1186/1475-925X-10-45>

Salonius E, Muhonen V, Lehto K, Järvinen E, Pyhälä 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*. 13(3):406-415. <https://doi.org/10.1002/term.2801>

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*. 22(12):2572-2579. <https://doi.org/10.1002/adfm.201200135>

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( $\epsilon$ -caprolactone) blends for vascular tissue engineering applications. *Acta Biomaterialia*. 9(5):6450-6458. <https://doi.org/10.1016/j.actbio.2013.01.005>

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*. 104(7):1646-1656. <https://doi.org/10.1002/jbm.a.35690>

Vuornos K, Björninen M, Talvitie E, Paakinaho K, Kellomäki M, Huhtala H, Miettinen S, Seppänen-Kajjansinkko 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*. 22(5-6):513-523. <https://doi.org/10.1089/ten.tea.2015.0276>

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*. 18(1-2):17-25. <https://doi.org/10.1089/ten.tea.2010.0712>

Tomaskovic-Crook E, Zhang P, Ahtiainen A, Kaisvuo 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>

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*. 11(7):905-913. <https://doi.org/10.1002/mabi.201100005>

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*. 11:5311-5321. <https://doi.org/10.2147/IJN.S109199>

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*. 71(6):505-514. <https://doi.org/10.1515/hf-2016-0144>

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>

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*. 16(1). <https://doi.org/10.1186/s12938-017-0372-5>

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*. 11. <https://doi.org/10.1186/1475-925X-11-61>

Isoniemi T, Tuukkanen S, Cameron DC, Simonen J, Toppari JJ. 2015. Measuring optical anisotropy in poly(3,4-ethylene dioxothiophene): poly(styrene sulfonate) films with added graphene. *Organic Electronics*. 25:317-323. <https://doi.org/10.1016/j.orgel.2015.06.037>, <https://doi.org/10.1016/j.orgel.2015.06.037>

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*. 99:93-103. <https://doi.org/10.1016/j.jmbbm.2019.07.004>

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

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*. 8(2). <https://doi.org/10.1098/rsfs.2017.0045>

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

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 TiO<sub>2</sub> nanoparticle coating. *Materials Research Express*. 6(3). <https://doi.org/10.1088/2053-1591/aaf2ee>

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*. 32(12):3166-3177. <https://doi.org/10.1016/j.biomaterials.2011.01.033>

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*. 25:144-158.

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

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 KTiOPO<sub>4</sub> nanocrystal for nonlinear microscopy. *Small*. 4(9):1332-1336. <https://doi.org/10.1002/smll.200701093>

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)- $\beta$ -tricalcium phosphate screws enhances new bone formation in rabbits. *Biomedical Materials*. 10(6). <https://doi.org/10.1088/1748-6041/10/6/065016>

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*. 6:53-60. <https://doi.org/10.1016/j.fpsl.2015.09.004>

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*. 25(3):464-470. <https://doi.org/10.1002/adfm.201403275>

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

Borah D, Rasappa S, Salaun M, Zellsman M, Lorret O, Liontos 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*. 25(22):3425-3432. <https://doi.org/10.1002/adfm.201500100>

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)*. 10(4):45025. <https://doi.org/10.1088/1748-6041/10/4/045025>

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

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*. 25(22):3314-3320. <https://doi.org/10.1002/adfm.201500745>

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*. 30(3):300-310. <https://doi.org/10.1177/0885328215588898>

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*. 20(3-4):622-634. <https://doi.org/10.1089/ten.tea.2013.0049>

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>

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*. 21(17-18):2301-2314. <https://doi.org/10.1089/ten.tea.2014.0640>

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*. 20(SUPPL. 3):133.

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*. 72:38-48. <https://doi.org/10.1016/j.jmbbm.2017.04.016>

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*. 68:298-304. <https://doi.org/10.1016/j.ijadhadh.2016.04.011>

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*. 26(6). <https://doi.org/10.1007/s10856-015-5528-x>

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*. 71:383-391. <https://doi.org/10.1016/j.jmbbm.2017.04.006>

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*. 15(23). <https://doi.org/10.1002/sml.201805046>

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*. 393(1):192-202. <https://doi.org/10.1016/j.jcis.2012.10.070>

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*. 8(3):186-194. <https://doi.org/10.1002/term.1512>

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*. 16(161). <https://doi.org/10.1098/rsif.2019.0507>

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

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*. 104(8):1721-1729. <https://doi.org/10.1002/jbm.b.33514>

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*. 8(2). <https://doi.org/10.1098/rsfs.2017.0048>

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*. 468:21-33. <https://doi.org/10.1016/j.jcis.2016.01.040>

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*. 17(1). <https://doi.org/10.1186/s12938-018-0535-z>

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. teoksessa 24th European Conference on Biomaterials - Annual Conference of the European Society for Biomaterials, ESB 2011.

Ukkonen L, Sydänheimo L, Ma S, Björninen T. 2020. Backscattering-based wireless communication and power transfer to small biomedical implants. Gray BL, Becker H, Toimittajat. teoksessa *Microfluidics, BioMEMS, and Medical Microsystems XVIII*. SPIE. (Progress in Biomedical Optics and Imaging - Proceedings of SPIE). <https://doi.org/10.1117/12.2552183>

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. teoksessa 24th European Conference on Biomaterials - Annual Conference of the European Society for Biomaterials, ESB 2011.

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. teoksessa 24th European Conference on Biomaterials - Annual Conference of the European Society for Biomaterials, ESB 2011.

Cetina-Diaz SM, Vargas-Coronado RF, Cervantes-Uc JM, Cauich-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. teoksessa 24th European Conference on Biomaterials - Annual Conference of the European Society for Biomaterials, ESB 2011.

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. teoksessa TAPPI International Conference on Nanotechnology for Renewable Materials 2016. TAPPI Press. Sivut 684-706.

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. teoksessa Optical Techniques in Neurosurgery, Neurophotonics, and Optogenetics II. SPIE. <https://doi.org/10.1117/12.2079347>

Wirdatmadja S, Johari P, Balasubramaniam S, Bae Y, Stachowiak MK, Jornet JM. 2018. Light propagation analysis in nervous tissue for wireless optogenetic nanonetworks. teoksessa Optogenetics and Optical Manipulation 2018. SPIE. <https://doi.org/10.1117/12.2288786>

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

Käpylä E, Aydogan DB, Turunen S, Hyttinen J, Kellomäki M. 2011. Picosecond laser-induced polymerization of highly porous microscaffolds. teoksessa 24th European Conference on Biomaterials - Annual Conference of the European Society for Biomaterials, ESB 2011.

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

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. teoksessa TAPPI International Conference on Nanotechnology 2013. TAPPI Press. Sivut 726-739.

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. teoksessa TAPPI International Conference on Nanotechnology 2013. TAPPI Press. Sivut 821-829.

Kroon M, Talvitie E, Miettinen S, Kellomäki M. 2018. A COMPARATIVE IN VITRO STUDY OF CELL GROWTH ON TEXTILE SCAFFOLDS FOR TISSUE ENGINEERING APPLICATIONS. Julkaisun esittämisaika: ESB2018 - 29th Annual Meeting of European Society for Biomaterials, Maastricht, Alankomaat.

Pammo A, Schouten M, Virtanen J, Tuukkanen S. 2016. Biomaterials for Electronics.

Kroon M, Talvitie E, Miettinen S, Kellomäki M. 2018. Cell response to round and star-shaped polylactide fibers. Julkaisun esittämisaika: BioMediTech Research Day 2018, Tampere, Suomi.

Virtanen J, Tuukkanen S. 2017. Multi-material bio-printing facilities. Julkaisun esittämisaika: BMT and MED Research Day 2017, Tampere, Suomi.

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*. 7(12). <https://doi.org/10.3390/fib7120105>

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*. 16(6). <https://doi.org/10.1002/sml.201904749>