

Felicity R A J Rose

List of Publications by Year in descending order

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100
papers

5,307
citations

94269

37
h-index

88477

70
g-index

108
all docs

108
docs citations

108
times ranked

8131
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing topographically textured microparticles for induction and modulation of osteogenesis in mesenchymal stem cell engineering. <i>Biomaterials</i> , 2021, 266, 120450.	5.7	27
2	Review of emerging nanotechnology in bone regeneration: progress, challenges, and perspectives. <i>Nanoscale</i> , 2021, 13, 10266-10280.	2.8	28
3	Discovery of synergistic material-topography combinations to achieve immunomodulatory osteoinductive biomaterials using a novel in vitro screening method: The ChemoTopoChip. <i>Biomaterials</i> , 2021, 271, 120740.	5.7	20
4	Droplet Microfluidic Optimisation Using Micropipette Characterisation of Bio-Instructive Polymeric Surfactants. <i>Molecules</i> , 2021, 26, 3302.	1.7	4
5	Exploiting Generative Design for 3D Printing of Bacterial Biofilm Resistant Composite Devices. <i>Advanced Science</i> , 2021, 8, e2100249.	5.6	7
6	Bespoke 3D-Printed Polydrug Implants Created via Microstructural Control of Oligomers. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38969-38978.	4.0	6
7	Mixed polymer and bioconjugate core/shell electrospun fibres for biphasic protein release. <i>Journal of Materials Chemistry B</i> , 2021, 9, 4120-4133.	2.9	10
8	Investigating the feasibility of spatially offset Raman spectroscopy for in vivo monitoring of bone healing in rat calvarial defect models. <i>Journal of Biophotonics</i> , 2020, 13, e202000190.	1.1	13
9	The electrospinning of a thermo-responsive polymer with peptide conjugates for phenotype support and extracellular matrix production of therapeutically relevant mammalian cells. <i>Biomaterials Science</i> , 2020, 8, 2611-2626.	2.6	6
10	A Reactive Prodrug Ink Formulation Strategy for Inkjet 3D Printing of Controlled Release Dosage Forms and Implants. <i>Advanced Therapeutics</i> , 2020, 3, 1900187.	1.6	11
11	Bioinspired Precision Engineering of Three-Dimensional Epithelial Stem Cell Microniches. <i>Advanced Biology</i> , 2020, 4, e2000016.	3.0	10
12	Stem cells from the dental apical papilla in extracellular matrix hydrogels mitigate inflammation of microglial cells. <i>Scientific Reports</i> , 2019, 9, 14015.	1.6	16
13	A thermoresponsive three-dimensional fibrous cell culture platform for enzyme-free expansion of mammalian cells. <i>Acta Biomaterialia</i> , 2019, 95, 427-438.	4.1	10
14	Polymer Microparticles with Defined Surface Chemistry and Topography Mediate the Formation of Stem Cell Aggregates and Cardiomyocyte Function. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34560-34574.	4.0	25
15	Nanofibrous Scaffolds Support a 3D in vitro Permeability Model of the Human Intestinal Epithelium. <i>Frontiers in Pharmacology</i> , 2019, 10, 456.	1.6	18
16	Probing <i>Clostridium difficile</i> Infection in Complex Human Gut Cellular Models. <i>Frontiers in Microbiology</i> , 2019, 10, 879.	1.5	22
17	In vitro evaluation of electrospun blends of gelatin and PCL for application as a partial thickness corneal graft. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 828-838.	2.1	21
18	Spatially-offset Raman spectroscopy for monitoring mineralization of bone tissue engineering scaffolds: feasibility study based on phantom samples. <i>Biomedical Optics Express</i> , 2019, 10, 1678.	1.5	14

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19	Photocrosslinkable Gelatin Hydrogels Modulate the Production of the Major Pro-inflammatory Cytokine, TNF- α , by Human Mononuclear Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 116.	2.0	36
20	Improved delivery of PLGA microparticles and microparticle-cell scaffolds in clinical needle gauges using modified viscosity formulations. <i>International Journal of Pharmaceutics</i> , 2018, 546, 272-278.	2.6	11
21	Electrospun gelatin-based scaffolds as a novel 3D platform to study the function of contractile smooth muscle cells <i>in vitro</i> . <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 045039.	0.6	12
22	A biomaterials approach to influence stem cell fate in injectable cell-based therapies. <i>Stem Cell Research and Therapy</i> , 2018, 9, 39.	2.4	28
23	3D Microfabricated Scaffolds and Microfluidic Devices for Ocular Surface Replacement: a Review. <i>Stem Cell Reviews and Reports</i> , 2017, 13, 430-441.	5.6	14
24	Feasibility of Spatially Offset Raman Spectroscopy for <i>in Vitro</i> and <i>in Vivo</i> Monitoring Mineralization of Bone Tissue Engineering Scaffolds. <i>Analytical Chemistry</i> , 2017, 89, 847-853.	3.2	28
25	Peptide Hydrogels—A Tissue Engineering Strategy for the Prevention of Oesophageal Strictures. <i>Advanced Functional Materials</i> , 2017, 27, 1702424.	7.8	36
26	Translational considerations in injectable cell-based therapeutics for neurological applications: concepts, progress and challenges. <i>Npj Regenerative Medicine</i> , 2017, 2, 23.	2.5	117
27	A design of experiments approach to identify the influencing parameters that determine poly-D,L-lactic acid (PDLLA) electrospun scaffold morphologies. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 055009.	1.7	27
28	A new photocrosslinkable polycaprolactone-based ink for three-dimensional inkjet printing. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 1645-1657.	1.6	48
29	Surface chemistry of Ti6Al4V components fabricated using selective laser melting for biomedical applications. <i>Materials Science and Engineering C</i> , 2016, 67, 294-303.	3.8	88
30	A Detailed Assessment of Varying Ejection Rate on Delivery Efficiency of Mesenchymal Stem Cells Using Narrow-Bore Needles. <i>Stem Cells Translational Medicine</i> , 2016, 5, 366-378.	1.6	24
31	IL-33 drives airway hyperresponsiveness through IL-33-mediated mast cell: airway smooth muscle crosstalk. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2015, 70, 556-567.	2.7	134
32	Adapting the Electrospinning Process to Provide Three Unique Environments for a Tri-layered <i>In Vitro</i> Model of the Airway Wall. <i>Journal of Visualized Experiments</i> , 2015, , e52986.	0.2	14
33	<i>In Vivo</i> Assessment of Bone Regeneration in Alginate/Bone ECM Hydrogels with Incorporated Skeletal Stem Cells and Single Growth Factors. <i>PLoS ONE</i> , 2015, 10, e0145080.	1.1	67
34	Investigating NF- κ B signaling in lung fibroblasts in 2D and 3D culture systems. <i>Respiratory Research</i> , 2015, 16, 144.	1.4	28
35	Gelatin-Based Materials in Ocular Tissue Engineering. <i>Materials</i> , 2014, 7, 3106-3135.	1.3	248
36	Biocompatibility and enhanced osteogenic differentiation of human mesenchymal stem cells in response to surface engineered poly(D,L-lactide-co-glycolic acid) microparticles. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 3872-3882.	2.1	6

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37	Controlled release of BMP-2 from a sintered polymer scaffold enhances bone repair in a mouse calvarial defect model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014, 8, 59-66.	1.3	86
38	A novel technique for the production of electrospun scaffolds with tailored three-dimensional micro-patterns employing additive manufacturing. <i>Biofabrication</i> , 2014, 6, 035003.	3.7	48
39	Immunocompetent 3D Model of Human Upper Airway for Disease Modeling and In Vitro Drug Evaluation. <i>Molecular Pharmaceutics</i> , 2014, 11, 2082-2091.	2.3	66
40	Human airway smooth muscle maintain in situ cell orientation and phenotype when cultured on aligned electrospun scaffolds. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014, 307, L38-L47.	1.3	20
41	A novel electrospun biphasic scaffold provides optimal three-dimensional topography for <i>in vitro</i> co-culture of airway epithelial and fibroblast cells. <i>Biofabrication</i> , 2014, 6, 035014.	3.7	43
42	Evaluation of skeletal tissue repair, Part 1: Assessment of novel growth-factor-releasing hydrogels in an ex vivo chick femur defect model. <i>Acta Biomaterialia</i> , 2014, 10, 4186-4196.	4.1	57
43	Interconnectivity and permeability of supercritical fluid-foamed scaffolds and the effect of their structural properties on cell distribution. <i>Polymer</i> , 2014, 55, 435-444.	1.8	56
44	Evaluation of skeletal tissue repair, Part 2: Enhancement of skeletal tissue repair through dual-growth-factor-releasing hydrogels within an ex vivo chick femur defect model. <i>Acta Biomaterialia</i> , 2014, 10, 4197-4205.	4.1	56
45	Hydrogels derived from demineralized and decellularized bone extracellular matrix. <i>Acta Biomaterialia</i> , 2013, 9, 7865-7873.	4.1	224
46	The Effect of a Type I Photoinitiator on Cure Kinetics and Cell Toxicity in Projection-Microlithography. <i>Procedia CIRP</i> , 2013, 5, 222-225.	1.0	32
47	Electrospun PLGA fibre sheets incorporating fluorescent nanosensors: self-reporting scaffolds for application in tissue engineering. <i>Analytical Methods</i> , 2013, 5, 68-71.	1.3	5
48	Accelerating protein release from microparticles for regenerative medicine applications. <i>Materials Science and Engineering C</i> , 2013, 33, 2578-2583.	3.8	45
49	PLGA/PEG hydrogel composite scaffolds with controllable mechanical properties. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101B, 648-655.	1.6	49
50	Post-processing of polymer foam tissue scaffolds with high power ultrasound: A route to increased pore interconnectivity, pore size and fluid transport. <i>Materials Science and Engineering C</i> , 2013, 33, 4825-4832.	3.8	18
51	Adjuvant Chemotherapy for Brain Tumors Delivered via a Novel Intra-Cavity Moldable Polymer Matrix. <i>PLoS ONE</i> , 2013, 8, e77435.	1.1	25
52	Self-reporting Scaffolds for 3-Dimensional Cell Culture. <i>Journal of Visualized Experiments</i> , 2013, , e50608.	0.2	3
53	Tissue transglutaminase (TG-2) modified amniotic membrane: a novel scaffold for biomedical applications. <i>Biomedical Materials (Bristol)</i> , 2012, 7, 045011.	1.7	23
54	Application of a maximum likelihood algorithm to ultrasound modulated optical tomography. <i>Journal of Biomedical Optics</i> , 2012, 17, 026014.	1.4	5

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55	Tissue Engineering in the Development of Replacement Technologies. <i>Advances in Experimental Medicine and Biology</i> , 2012, 745, 47-57.	0.8	5
56	Chemistry of Polymer and Ceramic-Based Injectable Scaffolds and Their Applications in Regenerative Medicine. <i>Chemistry of Materials</i> , 2012, 24, 781-795.	3.2	28
57	Recapitulation of Tumor Heterogeneity and Molecular Signatures in a 3D Brain Cancer Model with Decreased Sensitivity to Histone Deacetylase Inhibition. <i>PLoS ONE</i> , 2012, 7, e52335.	1.1	46
58	Engineering an in-vitro model of rodent cartilage. <i>Journal of Pharmacy and Pharmacology</i> , 2012, 64, 821-831.	1.2	0
59	Enzyme-passage free culture of mouse embryonic stem cells on thermo-responsive polymer surfaces. <i>Journal of Materials Chemistry</i> , 2011, 21, 6883.	6.7	33
60	Application of a maximum likelihood algorithm to ultrasound modulated optical tomography. , 2011, , .		1
61	Analysis of sintered polymer scaffolds using concomitant synchrotron computed tomography and in situ mechanical testing. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 2599-2605.	1.7	30
62	Growth of the chorioallantoic membrane into a rapid-prototyped model pore system: experiments and mathematical model. <i>Biomechanics and Modeling in Mechanobiology</i> , 2011, 10, 539-558.	1.4	2
63	Growth-induced buckling of an epithelial layer. <i>Biomechanics and Modeling in Mechanobiology</i> , 2011, 10, 883-900.	1.4	33
64	Individual-based modelling of angiogenesis inside three-dimensional porous biomaterials. <i>BioSystems</i> , 2011, 103, 372-383.	0.9	12
65	Characterization of tissue scaffolds using optics and ultrasound. <i>Proceedings of SPIE</i> , 2011, , .	0.8	3
66	PLGA-Based Microparticles for the Sustained Release of BMP-2. <i>Polymers</i> , 2011, 3, 571-586.	2.0	59
67	Delivery systems for bone growth factors " the new players in skeletal regeneration. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 56, 415-427.	1.2	97
68	Preparation of Caco-2 cell sheets using plasma polymerised acrylic acid as a weak boundary layer. <i>Biomaterials</i> , 2010, 31, 6764-6771.	5.7	9
69	Maintenance of pluripotency in human embryonic stem cells cultured on a synthetic substrate in conditioned medium. <i>Biotechnology and Bioengineering</i> , 2010, 105, 130-140.	1.7	53
70	The visualisation of vitreous using surface modified poly(lactic-co-glycolic acid) microparticles. <i>British Journal of Ophthalmology</i> , 2010, 94, 648-653.	2.1	3
71	Prediction of Drug Response in Breast Cancer Using Integrative Experimental/Computational Modeling. <i>Cancer Research</i> , 2009, 69, 4484-4492.	0.4	125
72	A High-Throughput Assay of Cell-Surface Interactions using Topographical and Chemical Gradients. <i>Advanced Materials</i> , 2009, 21, 300-304.	11.1	98

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73	Tracking large solid constructs suspended in a rotating bioreactor: A combined experimental and theoretical study. <i>Biotechnology and Bioengineering</i> , 2009, 104, 1224-1234.	1.7	13
74	Effect of Sessile Drop Volume on the Wetting Anisotropy Observed on Grooved Surfaces. <i>Langmuir</i> , 2009, 25, 2567-2571.	1.6	57
75	Mathematical modelling of tissue-engineered angiogenesis. <i>Mathematical Biosciences</i> , 2009, 221, 101-120.	0.9	31
76	A thermoreversible hydrogel as a biosynthetic bandage for corneal wound repair. <i>Biomaterials</i> , 2008, 29, 272-281.	5.7	83
77	In Situ Gelling Hydrogels Incorporating Microparticles as Drug Delivery Carriers for Regenerative Medicine. <i>Journal of Pharmaceutical Sciences</i> , 2008, 97, 3972-3980.	1.6	43
78	In situ monitoring of 3D in vitro cell aggregation using an optical imaging system. <i>Biotechnology and Bioengineering</i> , 2008, 100, 159-167.	1.7	16
79	Investigation of cell-surface interactions using chemical gradients formed from plasma polymers. <i>Biomaterials</i> , 2008, 29, 172-184.	5.7	146
80	A supercritical CO ₂ injection system for the production of polymer/mammalian cell composites. <i>Journal of Supercritical Fluids</i> , 2008, 43, 535-541.	1.6	24
81	Direct calculation of Maxwell stress tensor for accurate trajectory prediction during DEP for 2D and 3D structures. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 71-77.	1.3	33
82	Cellular adaptations to hypoxia and acidosis during somatic evolution of breast cancer. <i>British Journal of Cancer</i> , 2007, 97, 646-653.	2.9	301
83	Cell adhesion and mechanical properties of a flexible scaffold for cardiac tissue engineering. <i>Acta Biomaterialia</i> , 2007, 3, 457-462.	4.1	99
84	Mathematical modelling of human mesenchymal stem cell proliferation and differentiation inside artificial porous scaffolds. <i>Journal of Theoretical Biology</i> , 2007, 249, 543-553.	0.8	31
85	The effect of anisotropic architecture on cell and tissue infiltration into tissue engineering scaffolds. <i>Biomaterials</i> , 2006, 27, 5909-5917.	5.7	201
86	Zonal release of proteins within tissue engineering scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2006, 17, 1049-1056.	1.7	37
87	Tissue growth in a rotating bioreactor. Part I: mechanical stability. <i>Mathematical Medicine and Biology</i> , 2006, 23, 311-337.	0.8	33
88	Mammalian cell survival and processing in supercritical CO ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 7426-7431.	3.3	45
89	The influence of dispersant concentration on the pore morphology of hydroxyapatite ceramics for bone tissue engineering. <i>Biomaterials</i> , 2005, 26, 697-702.	5.7	162
90	British Society for Matrix Biology Autumn Meeting - Joint with the UK Tissue & Cell Engineering Society, University of Bristol, UK. <i>International Journal of Experimental Pathology</i> , 2005, 86, A1-A56.	0.6	0

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91	Supercritical carbon dioxide foaming of elastomer/heterocyclic methacrylate blends as scaffolds for tissue engineering. <i>Journal of Materials Chemistry</i> , 2005, 15, 4881.	6.7	31
92	In vitro assessment of cell penetration into porous hydroxyapatite scaffolds with a central aligned channel. <i>Biomaterials</i> , 2004, 25, 5507-5514.	5.7	133
93	Seeding cells into needled felt scaffolds for tissue engineering applications. <i>Journal of Biomedical Materials Research Part B</i> , 2003, 66A, 425-431.	3.0	27
94	Porous Polymer and Cell Composites That Self-Assemble In Situ. <i>Advanced Materials</i> , 2003, 15, 210-213.	11.1	103
95	Bone Tissue Engineering: Hope vs Hype. <i>Biochemical and Biophysical Research Communications</i> , 2002, 292, 1-7.	1.0	490
96	Expression of antimicrobial neutrophil defensins in epithelial cells of active inflammatory bowel disease mucosa. <i>Journal of Clinical Pathology</i> , 2002, 55, 298-304.	1.0	75
97	Human defensin 5 is stored in precursor form in normal Paneth cells and is expressed by some villous epithelial cells and by metaplastic Paneth cells in the colon in inflammatory bowel disease. <i>Gut</i> , 2001, 48, 176-185.	6.1	193
98	Potential Role of Epithelial Cell-Derived Histone H1 Proteins in Innate Antimicrobial Defense in the Human Gastrointestinal Tract. <i>Infection and Immunity</i> , 1998, 66, 3255-3263.	1.0	123
99	Antimicrobial peptides in the gastrointestinal tract.. <i>Gut</i> , 1997, 40, 161-163.	6.1	36
100	Mineralizing Coating on 3D Printed Scaffolds for the Promotion of Osseointegration. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	2.0	4