

Jonathan James Blaker

List of Publications by Year in descending order

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79
papers

8,826
citations

70961

41
h-index

66788

78
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84
all docs

84
docs citations

84
times ranked

11211
citing authors

#	ARTICLE	IF	CITATIONS
1	Solution blow spinning of highly deacetylated chitosan nanofiber scaffolds for dermal wound healing. , 2022, 137, 212871.		13
2	Graphene oxide and electroactive reduced graphene oxide-based composite fibrous scaffolds for engineering excitable nerve tissue. Materials Science and Engineering C, 2021, 119, 111632.	3.8	65
3	Recent Developments in Chitosan-Based Micro/Nanofibers for Sustainable Food Packaging, Smart Textiles, Cosmeceuticals, and Biomedical Applications. Molecules, 2021, 26, 2683.	1.7	36
4	Blood, sweat, and tears: extraterrestrial regolith biocomposites with in vivo binders. Materials Today Bio, 2021, 12, 100136.	2.6	12
5	Lipase-Catalyzed Epoxyâ€“Acid Addition and Transesterification: from Model Molecule Studies to Network Build-Up. Biomacromolecules, 2021, 22, 4544-4551.	2.6	6
6	Patterned, morphing composites <i>via</i> maskless photo-click lithography. Soft Matter, 2020, 16, 1270-1278.	1.2	3
7	Designing multigradient biomaterials for skin regeneration. Materials Today Advances, 2020, 5, 100051.	2.5	49
8	Non-covalent protein-based adhesives for transparent substratesâ€“bovine serum albumin vs. recombinant spider silk. Materials Today Bio, 2020, 7, 100068.	2.6	24
9	Modulation of Neuronal Cell Affinity on PEDOTâ€“PSS Nonwoven Silk Scaffolds for Neural Tissue Engineering. ACS Biomaterials Science and Engineering, 2020, 6, 6906-6916.	2.6	36
10	Electroresponsive Silk-Based Biohybrid Composites for Electrochemically Controlled Growth Factor Delivery. Pharmaceutics, 2020, 12, 742.	2.0	23
11	Dicarboxylic acid-epoxy vitrimers: influence of the off-stoichiometric acid content on cure reactions and thermo-mechanical properties. Polymer Chemistry, 2020, 11, 5327-5338.	1.9	55
12	Hierarchically Porous Silk/Activated-Carbon Composite Fibres for Adsorption and Repellence of Volatile Organic Compounds. Molecules, 2020, 25, 1207.	1.7	4
13	The effect of terminal globular domains on the response of recombinant mini-spidroins to fiber spinning triggers. Scientific Reports, 2020, 10, 10671.	1.6	22
14	Rapid fabrication of reinforced and cell-laden vascular grafts structurally inspired by human coronary arteries. Nature Communications, 2019, 10, 3098.	5.8	46
15	Improved mechanical performance of self-adhesive resin cement filled with hybrid nanofibers-embedded with niobium pentoxide. Dental Materials, 2019, 35, e272-e285.	1.6	23
16	Grapheneâ€“aramid nanocomposite fibres <i>via</i> superacid co-processing. Chemical Communications, 2019, 55, 11703-11706.	2.2	8
17	Fabrication and Characterisation of Stimuli Responsive Piezoelectric PVDF and Hydroxyapatite-Filled PVDF Fibrous Membranes. Molecules, 2019, 24, 1903.	1.7	31
18	Cold-adaptation of a methacrylamide gelatin towards the expansion of the biomaterial toolbox for specialized functionalities in tissue engineering. Materials Science and Engineering C, 2019, 102, 373-390.	3.8	15

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19	Synthetic biology for fibers, adhesives, and active camouflage materials in protection and aerospace. MRS Communications, 2019, 9, 486-504.	0.8	21
20	Fabrication and characterisation of 3D printed MWCNT composite porous scaffolds for bone regeneration. Materials Science and Engineering C, 2019, 98, 266-278.	3.8	89
21	Synthesis and characterisation of fluorescent pyrene-terminated capped polylactide fibres. Polymer International, 2019, 68, 360-368.	1.6	10
22	Piezoelectric materials as stimulatory biomedical materials and scaffolds for bone repair. Acta Biomaterialia, 2018, 73, 1-20.	4.1	239
23	Mechanical response of multi-layer bacterial cellulose nanopaper reinforced polylactide laminated composites. Composites Part A: Applied Science and Manufacturing, 2018, 107, 155-163.	3.8	26
24	Electroactive biomaterials: Vehicles for controlled delivery of therapeutic agents for drug delivery and tissue regeneration. Advanced Drug Delivery Reviews, 2018, 129, 148-168.	6.6	119
25	Porous, Aligned, and Biomimetic Fibers of Regenerated Silk Fibroin Produced by Solution Blow Spinning. Biomacromolecules, 2018, 19, 4542-4553.	2.6	61
26	Bioactive Silk-Based Nerve Guidance Conduits for Augmenting Peripheral Nerve Repair. Advanced Healthcare Materials, 2018, 7, e1800308.	3.9	98
27	3D-Printed Poly(ϵ -caprolactone)/Graphene Scaffolds Activated with P1-Latex Protein for Bone Regeneration. 3D Printing and Additive Manufacturing, 2018, 5, 127-137.	1.4	33
28	Exploiting Inherent Instability of 2D Black Phosphorus for Controlled Phosphate Release from Blow-Spun Poly(lactide-co-glycolide) Nanofibers. ACS Applied Nano Materials, 2018, 1, 4190-4197.	2.4	14
29	Polymer-Ceramic Composite Scaffolds: The Effect of Hydroxyapatite and β -tri-Calcium Phosphate. Materials, 2018, 11, 129.	1.3	121
30	Rigidisation of deployable space polymer membranes by heat-activated self-folding. Smart Materials and Structures, 2018, 27, 105037.	1.8	6
31	Synergistic effects of crosslinking and chitosan molecular weight on the microstructure, molecular mobility, thermal and sorption properties of porous chitosan/gelatin/hyaluronic acid scaffolds. Journal of Applied Polymer Science, 2017, 134, .	1.3	22
32	Hybrid sol-gel inorganic/gelatin porous fibres via solution blow spinning. Journal of Materials Science, 2017, 52, 9066-9081.	1.7	27
33	Edible Scaffolds Based on Non-Mammalian Biopolymers for Myoblast Growth. Materials, 2017, 10, 1404.	1.3	54
34	Enhancing the Hydrophilicity and Cell Attachment of 3D Printed PCL/Graphene Scaffolds for Bone Tissue Engineering. Materials, 2016, 9, 992.	1.3	230
35	Development of novel composites through fibre and interface/interphase modification. IOP Conference Series: Materials Science and Engineering, 2016, 139, 012001.	0.3	9
36	Aqueous solution blow spinning of poly(vinyl alcohol) micro- and nanofibers. Materials Letters, 2016, 176, 122-126.	1.3	44

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37	Porous Bioactive Nanofibers via Cryogenic Solution Blow Spinning and Their Formation into 3D Macroporous Scaffolds. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1442-1449.	2.6	48
38	Property and Shape Modulation of Carbon Fibers Using Lasers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16351-16358.	4.0	10
39	Morphological, mechanical and biological assessment of PCL/pristine graphene scaffolds for bone regeneration. <i>International Journal of Bioprinting</i> , 2016, 2, .	1.7	38
40	A comparative study of the effects of different bioactive fillers in PLGA matrix composites and their suitability as bone substitute materials: A thermo-mechanical and in vitro investigation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 50, 277-289.	1.5	29
41	Nacre-nanomimetics: Strong, Stiff, and Plastic. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 26783-26791.	4.0	28
42	pH-triggered phase inversion and separation of hydrophobised bacterial cellulose stabilised Pickering emulsions. <i>Reactive and Functional Polymers</i> , 2014, 85, 208-213.	2.0	22
43	Phase Behavior of Medium and High Internal Phase Water-in-Oil Emulsions Stabilized Solely by Hydrophobized Bacterial Cellulose Nanofibrils. <i>Langmuir</i> , 2014, 30, 452-460.	1.6	95
44	Aligned unidirectional PLA/bacterial cellulose nanocomposite fibre reinforced PDLLA composites. <i>Reactive and Functional Polymers</i> , 2014, 85, 185-192.	2.0	60
45	Bacterial cellulose as source for activated nanosized carbon for electric double layer capacitors. <i>Journal of Materials Science</i> , 2013, 48, 367-376.	1.7	48
46	Green polyurethane nanocomposites from soy polyol and bacterial cellulose. <i>Journal of Materials Science</i> , 2013, 48, 2167-2175.	1.7	52
47	Short sisal fibre reinforced bacterial cellulose polylactide nanocomposites using hairy sisal fibres as reinforcement. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 2065-2074.	3.8	70
48	Bio-based macroporous polymer nanocomposites made by mechanical frothing of acrylated epoxidised soybean oil. <i>Green Chemistry</i> , 2011, 13, 3117.	4.6	53
49	Surface only modification of bacterial cellulose nanofibres with organic acids. <i>Cellulose</i> , 2011, 18, 595-605.	2.4	177
50	Long-term in vitro degradation of PDLLA/Bioglass® bone scaffolds in acellular simulated body fluid. <i>Acta Biomaterialia</i> , 2011, 7, 829-840.	4.1	73
51	Structure, morphology and thermal characteristics of banana nano fibers obtained by steam explosion. <i>Bioresource Technology</i> , 2011, 102, 1988-1997.	4.8	472
52	Hierarchical Composites Made Entirely from Renewable Resources. <i>Journal of Biobased Materials and Bioenergy</i> , 2011, 5, 1-16.	0.1	74
53	Premature degradation of poly(\pm -hydroxyesters) during thermal processing of Bioglass®-containing composites. <i>Acta Biomaterialia</i> , 2010, 6, 756-762.	4.1	67
54	An elastomeric patch derived from poly(glycerol sebacate) for delivery of embryonic stem cells to the heart. <i>Biomaterials</i> , 2010, 31, 3885-3893.	5.7	168

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55	Ice-microsphere templating to produce highly porous nanocomposite PLA matrix scaffolds with pores selectively lined by bacterial cellulose nano-whiskers. <i>Composites Science and Technology</i> , 2010, 70, 1879-1888.	3.8	33
56	Assessment of Polymer/Bioactive Glass-Composite Microporous Spheres for Tissue Regeneration Applications. <i>Tissue Engineering - Part A</i> , 2009, 15, 1451-1461.	1.6	55
57	Surface functionalisation of bacterial cellulose as the route to produce green polylactide nanocomposites with improved properties. <i>Composites Science and Technology</i> , 2009, 69, 2724-2733.	3.8	189
58	Renewable nanocomposite polymer foams synthesized from Pickering emulsion templates. <i>Green Chemistry</i> , 2009, 11, 1321.	4.6	110
59	Novel fabrication techniques to produce microspheres by thermally induced phase separation for tissue engineering and drug delivery. <i>Acta Biomaterialia</i> , 2008, 4, 264-272.	4.1	114
60	Assessment of antimicrobial microspheres as a prospective novel treatment targeted towards the repair of perianal fistulae. <i>Alimentary Pharmacology and Therapeutics</i> , 2008, 28, 614-622.	1.9	23
61	Three-dimensional culture of annulus fibrosus cells within PDLLA/Bioglass® composite foam scaffolds: Assessment of cell attachment, proliferation and extracellular matrix production. <i>Biomaterials</i> , 2007, 28, 2010-2020.	5.7	72
62	Evaluation of human bone marrow stromal cell growth on biodegradable polymer/Bioglass® composites. <i>Biochemical and Biophysical Research Communications</i> , 2006, 342, 1098-1107.	1.0	76
63	Biodegradable and bioactive porous polymer/inorganic composite scaffolds for bone tissue engineering. <i>Biomaterials</i> , 2006, 27, 3413-3431.	5.7	3,317
64	Poly(D,L-lactide) (PDLLA) foams with TiO ₂ nanoparticles and PDLLA/TiO ₂ -Bioglass® foam composites for tissue engineering scaffolds. <i>Journal of Materials Science</i> , 2006, 41, 3999-4008.	1.7	54
65	Bioglass® Coatings on Biodegradable Poly(3-hydroxybutyrate) (P3HB) Meshes for Tissue Engineering Scaffolds. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2006, 37, 577-583.	0.5	4
66	Biodegradable and Bioactive Polymer/Bioglass® Composite Foams for Tissue Engineering Scaffolds. <i>Materials Science Forum</i> , 2005, 494, 499-506.	0.3	10
67	Wetting of bioactive glass surfaces by poly(±-hydroxyacid) melts: interaction between Bioglass® and biodegradable polymers. <i>E-Polymers</i> , 2005, 5, .	1.3	11
68	Characterisation of "wet"™ polymer surfaces for tissue engineering applications: Are flat surfaces a suitable model for complex structures?. <i>E-Polymers</i> , 2005, 5, .	1.3	4
69	Preparation and characterisation of poly(lactide-co-glycolide) (PLGA) and PLGA/Bioglass® composite tubular foam scaffolds for tissue engineering applications. <i>Materials Science and Engineering C</i> , 2005, 25, 23-31.	3.8	128
70	Effect of iron on the surface, degradation and ion release properties of phosphate-based glass fibres. <i>Acta Biomaterialia</i> , 2005, 1, 553-563.	4.1	125
71	Mechanical properties of highly porous PDLLA/Bioglass® composite foams as scaffolds for bone tissue engineering. <i>Acta Biomaterialia</i> , 2005, 1, 643-652.	4.1	210
72	Thermal Characterizations of Silver-containing Bioactive Glass-coated Sutures. <i>Journal of Biomaterials Applications</i> , 2005, 20, 81-98.	1.2	23

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73	Bioactive composite materials for tissue engineering scaffolds. Expert Review of Medical Devices, 2005, 2, 303-317.	1.4	275
74	Fabrication, characterisation and assessment of bioactivity of poly(d,l lactid acid) (PDLLA)/TiO ₂ nanocomposite films. Composites Part A: Applied Science and Manufacturing, 2005, 36, 721-727.	3.8	46
75	In Vitro Attachment of Staphylococcus Epidermidis to Surgical Sutures with and without Ag-Containing Bioactive Glass Coating. Journal of Biomaterials Applications, 2004, 19, 47-57.	1.2	90
76	PDLLA/Bioglass® composites for soft-tissue and hard-tissue engineering: an in vitro cell biology assessment. Biomaterials, 2004, 25, 3013-3021.	5.7	273
77	Development and characterisation of silver-doped bioactive glass-coated sutures for tissue engineering and wound healing applications. Biomaterials, 2004, 25, 1319-1329.	5.7	292
78	Novel Bioresorbable Poly(lactide-co-glycolide) (PLGA) and PLGA/Bioglass [®] Composite Tubular Foam Scaffolds for Tissue Engineering Applications. Materials Science Forum, 2004, 455-456, 415-419.	0.3	7
79	Biodegradable and Bioactive Polymer/Bioglass® Composite Foams for Tissue Engineering Scaffolds. Materials Science Forum, 0, , 499-506.	0.3	1