

Sophie Cox

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

959
citations

15
h-index

30
g-index

53
ext. papers

1,296
ext. citations

6.4
avg, IF

4.63
L-index

#	Paper	IF	Citations
49	3D printing of porous hydroxyapatite scaffolds intended for use in bone tissue engineering applications. <i>Materials Science and Engineering C</i> , 2015 , 47, 237-47	8.3	307
48	Suspended Manufacture of Biological Structures. <i>Advanced Materials</i> , 2017 , 29, 1605594	24	57
47	Adding functionality with additive manufacturing: Fabrication of titanium-based antibiotic eluting implants. <i>Materials Science and Engineering C</i> , 2016 , 64, 407-415	8.3	52
46	The design of additively manufactured lattices to increase the functionality of medical implants. <i>Materials Science and Engineering C</i> , 2019 , 94, 901-908	8.3	47
45	Clinical, industrial, and research perspectives on powder bed fusion additively manufactured metal implants. <i>Additive Manufacturing</i> , 2019 , 28, 565-584	6.1	46
44	Engineered Extracellular Vesicles: Tailored-Made Nanomaterials for Medical Applications. <i>Nanomaterials</i> , 2020 , 10,	5.4	38
43	Tailoring selective laser melting process for titanium drug-delivering implants with releasing micro-channels. <i>Additive Manufacturing</i> , 2018 , 20, 144-155	6.1	37
42	Selective Laser Melting of Ti-6Al-4V: The Impact of Post-processing on the Tensile, Fatigue and Biological Properties for Medical Implant Applications. <i>Materials</i> , 2020 , 13,	3.5	30
41	Surface Finish has a Critical Influence on Biofilm Formation and Mammalian Cell Attachment to Additively Manufactured Prosthetics. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 1616-1626	5.5	26
40	Additive Manufacturing of Titanium Alloys for Orthopedic Applications: A Materials Science Viewpoint. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800172	3.5	26
39	The role of extracellular vesicles in biomineralisation: current perspective and application in regenerative medicine. <i>Journal of Tissue Engineering</i> , 2018 , 9, 2041731418810130	7.5	26
38	Reactive oxygen: A novel antimicrobial mechanism for targeting biofilm-associated infection. <i>Journal of Global Antimicrobial Resistance</i> , 2017 , 8, 186-191	3.4	22
37	The role of subchondral bone, and its histomorphology, on the dynamic viscoelasticity of cartilage, bone and osteochondral cores. <i>Osteoarthritis and Cartilage</i> , 2019 , 27, 535-543	6.2	18
36	Biologically Analogous Calcium Phosphate Tubes from a Chemical Garden. <i>Langmuir</i> , 2017 , 33, 2059-2067		17
35	Physical Structuring of Injectable Polymeric Systems to Controllably Deliver Nanosized Extracellular Vesicles. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801604	10.1	15
34	A call for action to the biomaterial community to tackle antimicrobial resistance. <i>Biomaterials Science</i> , 2020 , 8, 4951-4974	7.4	15
33	Critical and diverse roles of phosphates in human bone formation. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 7460-7470	7.3	14

32	A review of co-culture models to study the oral microenvironment and disease. <i>Journal of Oral Microbiology</i> , 2020 , 12, 1773122	6.3	13
31	Filling the Gap: A Correlation between Objective and Subjective Measures of Injectability. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901521	10.1	12
30	Interfacial Mineral Fusion and Tubule Entanglement as a Means to Harden a Bone Augmentation Material. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1701166	10.1	12
29	Modification of gellan gum with nanocrystalline hydroxyapatite facilitates cell expansion and spontaneous osteogenesis. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 1568-76	4.9	12
28	Epigenetic reprogramming enhances the therapeutic efficacy of osteoblast-derived extracellular vesicles to promote human bone marrow stem cell osteogenic differentiation. <i>Journal of Extracellular Vesicles</i> , 2021 , 10, e12118	16.4	12
27	Post Processing of 3D Printed Metal Scaffolds: a Preliminary Study of Antimicrobial Efficiency. <i>Procedia Manufacturing</i> , 2020 , 47, 1106-1112	1.5	11
26	Reducing MRI susceptibility artefacts in implants using additively manufactured porous Ti-6Al-4V structures. <i>Acta Biomaterialia</i> , 2020 , 107, 338-348	10.8	9
25	Osteoblast-Derived Vesicle Protein Content Is Temporally Regulated During Osteogenesis: Implications for Regenerative Therapies. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 92	5.8	8
24	Encapsulation and Fluidization Maintains the Viability and Glucose Sensitivity of Beta-Cells. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 1750-1757	5.5	7
23	Development of a Bone-Mimetic 3D Printed Ti6Al4V Scaffold to Enhance Osteoblast-Derived Extracellular Vesicles Therapeutic Efficacy for Bone Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 757220	5.8	7
22	A cohesive premixed monetite biocement. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1241-1249	3.8	6
21	Hexametaphosphate as a potential therapy for the dissolution and prevention of kidney stones. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 5215-5224	7.3	6
20	Dynamic viscoelastic characterisation of human osteochondral tissue: understanding the effect of the cartilage-bone interface. <i>BMC Musculoskeletal Disorders</i> , 2019 , 20, 575	2.8	6
19	Formulation and viscoelasticity of mineralised hydrogels for use in bone-cartilage interfacial reconstruction. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 80, 33-41	4.1	5
18	Calcium pre-conditioning substitution enhances viability and glucose sensitivity of pancreatic beta-cells encapsulated using polyelectrolyte multilayer coating method. <i>Scientific Reports</i> , 2017 , 7, 43171	4.9	4
17	Antimicrobial emulsions: Formulation of a triggered release reactive oxygen delivery system. <i>Materials Science and Engineering C</i> , 2019 , 103, 109735	8.3	4
16	A design approach to facilitate selective attachment of bacteria and mammalian cells to additively manufactured implants. <i>Additive Manufacturing</i> , 2020 , 36, 101528	6.1	4
15	Formulation of an antimicrobial superabsorbent powder that gels in situ to produce reactive oxygen. <i>Materials Science and Engineering C</i> , 2021 , 118, 111479	8.3	4

14	Controlled Release of Epigenetically-Enhanced Extracellular Vesicles from a GelMA/Nanoclay Composite Hydrogel to Promote Bone Repair.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	3
13	Biofilm viability checker: An open-source tool for automated biofilm viability analysis from confocal microscopy images. <i>Npj Biofilms and Microbiomes</i> , 2021 , 7, 44	8.2	3
12	Methacrylated Silk Fibroin Hydrogels: pH as a Tool to Control Functionality. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 4779-4791	5.5	3
11	Hydrostatic pressure promotes chondrogenic differentiation and microvesicle release from human embryonic and bone marrow stem cells.. <i>Biotechnology Journal</i> , 2021 , e2100401	5.6	2
10	The Quantification of Injectability by Mechanical Testing. <i>Journal of Visualized Experiments</i> , 2020 ,	1.6	2
9	The influence of zirconium content on the microstructure, mechanical properties, and biocompatibility of in-situ alloying Ti-Nb-Ta based Alloys processed by selective laser melting. <i>Materials Science and Engineering C</i> , 2021 , 131, 112486	8.3	2
8	An ECM-Mimetic Hydrogel to Promote the Therapeutic Efficacy of Osteoblast-Derived Extracellular Vesicles for Bone Regeneration.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 829969	5.8	2
7	Formulation of a reactive oxygen producing calcium sulphate cement as an anti-bacterial hard tissue scaffold. <i>Scientific Reports</i> , 2021 , 11, 4491	4.9	1
6	Formulation of inherently antimicrobial magnesium oxychloride cement and the effect of supplementation with silver phosphate. <i>Materials Science and Engineering C</i> , 2021 , 126, 112158	8.3	1
5	Photocurable antimicrobial silk-based hydrogels for corneal repair.. <i>Journal of Biomedical Materials Research - Part A</i> , 2022 ,	5.4	1
4	A feasible route for the design and manufacture of customised respiratory protection through digital facial capture. <i>Scientific Reports</i> , 2021 , 11, 21449	4.9	0
3	Repeated exposure of nosocomial pathogens to silver does not select for silver resistance but does impact ciprofloxacin susceptibility. <i>Acta Biomaterialia</i> , 2021 , 134, 760-773	10.8	0
2	Formulation of an antibacterial topical cream containing bioengineered honey that generates reactive oxygen species.. <i>Materials Science and Engineering C</i> , 2022 , 112664	8.3	
1	Determining the Structure of Hexametaphosphate by Titration and 31P-NMR Spectroscopy. <i>Comments on Inorganic Chemistry</i> ,1-13	3.9	