

Mark C Allenby

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

717
citations

566801

15
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552369

26
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40
all docs

40
docs citations

40
times ranked

853
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasound Imaging Offers Promising Alternative to Create 3-D Models for Personalised Auricular Implants. <i>Ultrasound in Medicine and Biology</i> , 2022, 48, 450-459.	0.7	2
2	Dissolvable 3D printed PVA moulds for melt electrowriting tubular scaffolds with patient-specific geometry. <i>Materials and Design</i> , 2022, 215, 110466.	3.3	11
3	Soft pneumatic actuators for mimicking multi-axial femoropopliteal artery mechanobiology. <i>Biofabrication</i> , 2022, 14, 035005.	3.7	3
4	Image analyses for engineering advanced tissue biomanufacturing processes. <i>Biomaterials</i> , 2022, 284, 121514.	5.7	7
5	3D Plotting of Calcium Phosphate Cement and Melt Electrowriting of Polycaprolactone Microfibers in One Scaffold: A Hybrid Additive Manufacturing Process. <i>Journal of Functional Biomaterials</i> , 2022, 13, 75.	1.8	8
6	Personalized Volumetric Tissue Generation by Enhancing Multiscale Mass Transport through 3D Printed Scaffolds in Perfused Bioreactors. <i>Advanced Healthcare Materials</i> , 2022, 11, .	3.9	5
7	Additive manufacturing enables personalised porous high-density polyethylene surgical implant manufacturing with improved tissue and vascular ingrowth. <i>Applied Materials Today</i> , 2021, 22, 100965.	2.3	10
8	Detection of clustered anomalies in single-voxel morphometry as a rapid automated method for identifying intracranial aneurysms. <i>Computerized Medical Imaging and Graphics</i> , 2021, 89, 101888.	3.5	6
9	A deep learning method for automatic segmentation of the bony orbit in MRI and CT images. <i>Scientific Reports</i> , 2021, 11, 13693.	1.6	28
10	Using melt-electrowritten microfibres for tailoring scaffold mechanics of 3D bioprinted chondrocyte-laden constructs. <i>Bioprinting</i> , 2021, 23, e00158.	2.9	7
11	A quantitative analysis of cell bridging kinetics on a scaffold using computer vision algorithms. <i>Acta Biomaterialia</i> , 2021, 136, 429-440.	4.1	8
12	A Spatiotemporal Microenvironment Model to Improve Design of a Three-Dimensional Bioreactor for Red Cell Production. <i>Tissue Engineering - Part A</i> , 2021, , .	1.6	4
13	The Effects of COVID-19 on the Placenta During Pregnancy. <i>Frontiers in Immunology</i> , 2021, 12, 743022.	2.2	39
14	Model-based data analysis of tissue growth in thin 3D printed scaffolds. <i>Journal of Theoretical Biology</i> , 2021, 528, 110852.	0.8	23
15	Engineering inkjet bioprinting processes toward translational therapies. <i>Biotechnology and Bioengineering</i> , 2020, 117, 272-284.	1.7	82
16	Cell proliferation and migration explain pore bridging dynamics in 3D printed scaffolds of different pore size. <i>Acta Biomaterialia</i> , 2020, 114, 285-295.	4.1	61
17	An advanced prosthetic manufacturing framework for economic personalised ear prostheses. <i>Scientific Reports</i> , 2020, 10, 11453.	1.6	12
18	Auxetic tubular scaffolds via melt electrowriting. <i>Materials and Design</i> , 2020, 193, 108787.	3.3	36

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19	Design tools for patient specific and highly controlled melt electrowritten scaffolds. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 105, 103695.	1.5	39
20	Bone morphogenetic proteinâ€‘assisted bone regeneration and applications in biofabrication. , 2020, , 363-391.		2
21	RGDâ€‘functionalized polyurethane scaffolds promote umbilical cord blood mesenchymal stem cell expansion and osteogenic differentiation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019, 13, 232-243.	1.3	22
22	Dynamic human erythropoiesis in a three-dimensional perfusion bone marrow biomimicry. <i>Biomaterials</i> , 2019, 188, 24-37.	5.7	25
23	Biomedical applications of polyethylene. <i>European Polymer Journal</i> , 2019, 118, 412-428.	2.6	107
24	Rheological Characterization of Biomaterials Directs Additive Manufacturing of Strontiumâ€‘Substituted Bioactive Glass/Polycaprolactone Microfibers. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900019.	2.0	38
25	Biofabrication of personalised anatomical models and tools for the clinic. <i>Journal of Cystic Fibrosis</i> , 2019, 18, 161-162.	0.3	3
26	Stem cell biomanufacturing under uncertainty: A case study in optimizing red blood cell production. <i>AIChE Journal</i> , 2018, 64, 3011-3022.	1.8	13
27	Ceramic Hollow Fibre Constructs for Continuous Perfusion and Cell Harvest from 3D Hematopoietic Organoids. <i>Stem Cells International</i> , 2018, 2018, 1-14.	1.2	11
28	A 3D bioinspired highly porous polymeric scaffolding system for <i>in vitro</i> simulation of pancreatic ductal adenocarcinoma. <i>RSC Advances</i> , 2018, 8, 20928-20940.	1.7	31
29	Differentiation of Human Pluripotent Stem Cells for Red Blood Cell Production. , 2018, , 47-62.		0
30	A Quantitative Three-Dimensional Image Analysis Tool for Maximal Acquisition of Spatial Heterogeneity Data. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 108-117.	1.1	15
31	Antibacterial activity of fractions from three Chumash medicinal plant extracts and <i>in vitro</i> inhibition of the enzyme enoyl reductase by the flavonoid jaceosidin. <i>Natural Product Research</i> , 2017, 31, 707-712.	1.0	18
32	Spatiotemporal Mapping of Erythroid, Stromal, and Osteogenic Niche Formation to Support Physiologic Red Cell Production in a Three-Dimensional Hollow Fibre Perfusion Bioreactor. <i>Blood</i> , 2016, 128, 3885-3885.	0.6	1
33	Early Erythroid Development Is Enhanced with Hypoxia and Terminal Maturation with Normoxia in a 3D Ex Vivo Physiologic Erythropoiesis Model. <i>Blood</i> , 2016, 128, 2453-2453.	0.6	0
34	Development of an ex vivo bone marrow mimicry microenvironment in a novel 3D hollow fibre bioreactor. <i>Experimental Hematology</i> , 2015, 43, S51.	0.2	1
35	Effect of Oxygen and 3D Microenvironment on Physiologic Erythropoiesis. <i>Blood</i> , 2015, 126, 3600-3600.	0.6	0
36	Crystallization of Proteins at Ultralow Supersaturations Using Novel Three-Dimensional Nanotemplates. <i>Crystal Growth and Design</i> , 2012, 12, 1772-1777.	1.4	32