

David C Bassett

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,475
citations

430754

18
h-index

454834

30
g-index

31
all docs

31
docs citations

31
times ranked

2155
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling the central nervous system: tissue engineering of the cellular microenvironment. <i>Emerging Topics in Life Sciences</i> , 2021, 5, 507-517.	1.1	9
2	Formation of Hydroxyapatite via Transformation of Amorphous Calcium Phosphate in the Presence of Alginate Additives. <i>Crystal Growth and Design</i> , 2019, 19, 7077-7087.	1.4	22
3	Local Structure of Ca ²⁺ Alginate Hydrogels Gelled via Competitive Ligand Exchange and Measured by Small Angle X-ray Scattering. <i>Gels</i> , 2019, 5, 3.	2.1	16
4	Critical and diverse roles of phosphates in human bone formation. <i>Journal of Materials Chemistry B</i> , 2019, 7, 7460-7470.	2.9	30
5	Transformation of brushite to hydroxyapatite and effects of alginate additives. <i>Journal of Crystal Growth</i> , 2017, 468, 774-780.	0.7	19
6	Letter to the Editor re "Characterization of alginate-brushite in-situ hydrogel composites". <i>Materials Science and Engineering C</i> , 2017, 70, 930-931.	3.8	3
7	Diagenesis-inspired reaction of magnesium ions with surface enamel mineral modifies properties of human teeth. <i>Acta Biomaterialia</i> , 2016, 37, 174-183.	4.1	30
8	Gelling kinetics and in situ mineralization of alginate hydrogels: A correlative spatiotemporal characterization toolbox. <i>Acta Biomaterialia</i> , 2016, 44, 243-253.	4.1	27
9	Versatile, cell and chip friendly method to gel alginate in microfluidic devices. <i>Lab on A Chip</i> , 2016, 16, 3718-3727.	3.1	63
10	A correlative spatiotemporal microscale study of calcium phosphate formation and transformation within an alginate hydrogel matrix. <i>Acta Biomaterialia</i> , 2016, 44, 254-266.	4.1	25
11	Competitive ligand exchange of crosslinking ions for ionotropic hydrogel formation. <i>Journal of Materials Chemistry B</i> , 2016, 4, 6175-6182.	2.9	38
12	Controlled mineralisation and recrystallisation of brushite within alginate hydrogels. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 015013.	1.7	13
13	Dissolution of copper mineral phases in biological fluids and the controlled release of copper ions from mineralized alginate hydrogels. <i>Biomedical Materials (Bristol)</i> , 2015, 10, 015006.	1.7	2
14	Elucidating the individual effects of calcium and phosphate ions on hMSCs by using composite materials. <i>Acta Biomaterialia</i> , 2015, 17, 1-15.	4.1	56
15	Nucleation and Growth of Brushite in the Presence of Alginate. <i>Crystal Growth and Design</i> , 2015, 15, 5397-5405.	1.4	20
16	A new class of bioactive glasses: Calcium-magnesium sulfophosphates. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 2842-2848.	2.1	9
17	Self-assembled photoactive heterojunction phase gradient. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8868-8874.	5.2	2
18	Osseointegration of dental implants in 3D-printed synthetic onlay grafts customized according to bone metabolic activity in recipient site. <i>Biomaterials</i> , 2014, 35, 5436-5445.	5.7	92

#	ARTICLE	IF	CITATIONS
19	Ultrasonic Phosphate Bonding of Nanoparticles. <i>Advanced Materials</i> , 2013, 25, 5953-5958.	11.1	11
20	Perfluorodecalin and bone regeneration. , 2013, 25, 22-36.		20
21	Stabilization of Amorphous Calcium Carbonate with Nanofibrillar Biopolymers. <i>Advanced Functional Materials</i> , 2012, 22, 3460-3469.	7.8	25
22	The Role of the Air-Liquid Interface in Protein-Mediated Biomineralization of Calcium Carbonate. <i>Crystal Growth and Design</i> , 2011, 11, 803-810.	1.4	9
23	Serum Protein Controlled Nanoparticle Synthesis. <i>Advanced Functional Materials</i> , 2011, 21, 2968-2977.	7.8	16
24	Biocompatibility of magnesium phosphate minerals and their stability under physiological conditions. <i>Acta Biomaterialia</i> , 2011, 7, 2678-2685.	4.1	145
25	Collagen Biomineralization In Vivo by Sustained Release of Inorganic Phosphate Ions. <i>Advanced Materials</i> , 2010, 22, 1858-1862.	11.1	70
26	Resorption of monetite granules in alveolar bone defects in human patients. <i>Biomaterials</i> , 2010, 31, 2762-2769.	5.7	111
27	Minimally invasive maxillofacial vertical bone augmentation using brushite based cements. <i>Biomaterials</i> , 2009, 30, 208-216.	5.7	61
28	Craniofacial vertical bone augmentation: A comparison between 3D printed monolithic monetite blocks and autologous onlay grafts in the rabbit. <i>Biomaterials</i> , 2009, 30, 6318-6326.	5.7	128
29	The importance of particle size and DNA condensation salt for calcium phosphate nanoparticle transfection. <i>Biomaterials</i> , 2008, 29, 3384-3392.	5.7	82
30	Osteoconduction and osteoinduction of low-temperature 3D printed bioceramic implants. <i>Biomaterials</i> , 2008, 29, 944-953.	5.7	311
31	Cortical bone screw fixation in ionically modified apatite cements. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005, 73B, 238-243.	1.6	10