

Timothy Douglas

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.

75
papers

1,870
citations

25
h-index

41
g-index

78
ext. papers

2,176
ext. citations

5
avg, IF

4.71
L-index

#	Paper	IF	Citations
75	Mineralization of hydrogels for bone regeneration. <i>Tissue Engineering - Part B: Reviews</i> , 2010 , 16, 577-85	7.9	171
74	Fibrillogenesis of collagen types I, II, and III with small leucine-rich proteoglycans decorin and biglycan. <i>Biomacromolecules</i> , 2006 , 7, 2388-93	6.9	127
73	Hierarchy of Hybrid Materials-The Place of Inorganics--Organics in it, Their Composition and Applications. <i>Frontiers in Chemistry</i> , 2019 , 7, 179	5	119
72	Biodegradable ceramic-polymer composites for biomedical applications: A review. <i>Materials Science and Engineering C</i> , 2017 , 71, 1175-1191	8.3	116
71	Collagenous matrix coatings on titanium implants modified with decorin and chondroitin sulfate: characterization and influence on osteoblastic cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 77, 551-62	5.4	93
70	Interactions of collagen types I and II with chondroitin sulfates A-C and their effect on osteoblast adhesion. <i>Biomacromolecules</i> , 2007 , 8, 1085-92	6.9	72
69	Enzymatic mineralization of hydrogels for bone tissue engineering by incorporation of alkaline phosphatase. <i>Macromolecular Bioscience</i> , 2012 , 12, 1077-89	5.5	66
68	Ceramic scaffolds produced by computer-assisted 3D printing and sintering: characterization and biocompatibility investigations. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010 , 93, 212-7	3.5	57
67	Injectable self-gelling composites for bone tissue engineering based on gellan gum hydrogel enriched with different bioglasses. <i>Biomedical Materials (Bristol)</i> , 2014 , 9, 045014	3.5	47
66	Porous polymer/hydroxyapatite scaffolds: characterization and biocompatibility investigations. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 1909-15	4.5	40
65	Vaterite coatings on electrospun polymeric fibers for biomedical applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 94-103	5.4	39
64	Nanofibrous poly(lactide-co-glycolide) membranes loaded with diamond nanoparticles as promising substrates for bone tissue engineering. <i>International Journal of Nanomedicine</i> , 2012 , 7, 1931-51	7.3	38
63	Ulvan-chitosan polyelectrolyte complexes as matrices for enzyme induced biomimetic mineralization. <i>Carbohydrate Polymers</i> , 2018 , 182, 254-264	10.3	36
62	Acceleration of gelation and promotion of mineralization of chitosan hydrogels by alkaline phosphatase. <i>International Journal of Biological Macromolecules</i> , 2013 , 56, 122-32	7.9	36
61	Comparison of in vitro biocompatibility of NanoBone(□) and BioOss(□) for human osteoblasts. <i>Clinical Oral Implants Research</i> , 2011 , 22, 1259-64	4.8	32
60	Chitosan hydrogels enriched with polyphenols: Antibacterial activity, cell adhesion and growth and mineralization. <i>Carbohydrate Polymers</i> , 2015 , 129, 135-42	10.3	30
59	Morphological, Mechanical and Mucoadhesive Properties of Electrospun Chitosan/Phospholipid Hybrid Nanofibers. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	28

58	Poly lactide nanofibers with hydroxyapatite as growth substrates for osteoblast-like cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 3918-30	5.4	28
57	Tissue engineering of periosteal cell membranes in vitro. <i>Clinical Oral Implants Research</i> , 2009 , 20, 761-64.8	4.8	28
56	Novel self-gelling injectable hydrogel/alpha-tricalcium phosphate composites for bone regeneration: Physicochemical and microcomputer tomographical characterization. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 822-828	5.4	27
55	Influence of collagen-fibril-based coatings containing decorin and biglycan on osteoblast behavior. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 84, 805-16	5.4	27
54	Pectin-bioactive glass self-gelling, injectable composites with high antibacterial activity. <i>Carbohydrate Polymers</i> , 2019 , 205, 427-436	10.3	27
53	Hydrostatic pressure stimulation of human mesenchymal stem cells seeded on collagen-based artificial extracellular matrices. <i>Journal of Biomechanical Engineering</i> , 2010 , 132, 021001	2.1	26
52	Enzymatic, urease-mediated mineralization of gellan gum hydrogel with calcium carbonate, magnesium-enriched calcium carbonate and magnesium carbonate for bone regeneration applications. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 3556-3566	4.4	25
51	Characterization of collagen II fibrils containing biglycan and their effect as a coating on osteoblast adhesion and proliferation. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 1653-60	4.5	25
50	Application of whey protein isolate in bone regeneration: Effects on growth and osteogenic differentiation of bone-forming cells. <i>Journal of Dairy Science</i> , 2018 , 101, 28-36	4	25
49	Enzymatically induced mineralization of platelet-rich fibrin. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 1335-46	5.4	23
48	Effect of low-temperature plasma treatment of electrospun polycaprolactone fibrous scaffolds on calcium carbonate mineralisation.. <i>RSC Advances</i> , 2018 , 8, 39106-39114	3.7	23
47	Composites of gellan gum hydrogel enzymatically mineralized with calcium-zinc phosphate for bone regeneration with antibacterial activity. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 1610-1618	4.4	22
46	Novel injectable gellan gum hydrogel composites incorporating Zn- and Sr-enriched bioactive glass microparticles: High-resolution X-ray microcomputed tomography, antibacterial and in vitro testing. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, 1313-1326	4.4	22
45	Electrospun polycaprolactone membranes with Zn-doped bioglass for nasal tissues treatment. <i>Journal of Materials Science: Materials in Medicine</i> , 2019 , 30, 80	4.5	21
44	A new insight into in vitro behaviour of poly(L-lactide)/bioactive glass composites in biologically related fluids. <i>Journal of Materials Science</i> , 2018 , 53, 3939-3958	4.3	20
43	Enzymatically biomineralized chitosan scaffolds for tissue-engineering applications. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 1500-1513	4.4	19
42	Collagen-lactoferrin fibrillar coatings enhance osteoblast proliferation and differentiation. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 525-33	5.4	18
41	Titanium surface functionalization with coatings of chitosan and polyphenol-rich plant extracts. <i>Materials Letters</i> , 2017 , 196, 213-216	3.3	17

40	ANN prediction of corrosion behaviour of uncoated and biopolymers coated cp-Titanium substrates. <i>Materials and Design</i> , 2018 , 157, 35-51	8.1	17
39	Novel multicomponent organic-inorganic WPI/gelatin/CaP hydrogel composites for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 2479-2491	5.4	16
38	Pulsed laser deposition of magnesium-doped calcium phosphate coatings on porous polycaprolactone scaffolds produced by rapid prototyping. <i>Materials Letters</i> , 2015 , 148, 178-183	3.3	16
37	Enrichment of chitosan hydrogels with perfluorodecalin promotes gelation and stem cell vitality. <i>Materials Letters</i> , 2014 , 128, 79-84	3.3	16
36	Hydroxyapatite Crystal Growth on Modified Collagen I-Templates in a Model Dual Membrane Diffusion System. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005 , 631, 1825-1830	1.3	16
35	Magnesium-enhanced enzymatically mineralized platelet-rich fibrin for bone regeneration applications. <i>Biomedical Materials (Bristol)</i> , 2013 , 8, 055001	3.5	15
34	Development of thermosensitive hydrogels of chitosan, sodium and magnesium glycerophosphate for bone regeneration applications. <i>Journal of Functional Biomaterials</i> , 2015 , 6, 192-203	4.8	15
33	Novel naturally derived whey protein isolate and aragonite biocomposite hydrogels have potential for bone regeneration. <i>Materials and Design</i> , 2020 , 188, 108408	8.1	14
32	A simple way of modulating in vitro angiogenic response using Cu and Co-doped bioactive glasses. <i>Materials Letters</i> , 2018 , 215, 87-90	3.3	13
31	Mineralization of gellan gum hydrogels with calcium and magnesium carbonates by alternate soaking in solutions of calcium/magnesium and carbonate ion solutions. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, 1825-1834	4.4	13
30	Additive manufacturing of cell-loaded alginate enriched with alkaline phosphatase for bone tissue engineering application. <i>BioNanoMaterials</i> , 2014 , 15,		12
29	Whey Protein Complexes with Green Tea Polyphenols: Antimicrobial, Osteoblast-Stimulatory, and Antioxidant Activities. <i>Cells Tissues Organs</i> , 2018 , 206, 106-118	2.1	12
28	Pectin coatings on titanium alloy scaffolds produced by additive manufacturing: Promotion of human bone marrow stromal cell proliferation. <i>Materials Letters</i> , 2018 , 227, 225-228	3.3	12
27	Ca:Mg:Zn:CO and Ca:Mg:CO-tri- and bi-elemental carbonate microparticles for novel injectable self-gelling hydrogel-microparticle composites for tissue regeneration. <i>Biomedical Materials (Bristol)</i> , 2017 , 12, 025015	3.5	11
26	Novel ceramic bone replacement material CeraBall seeded with human mesenchymal stem cells. <i>Clinical Oral Implants Research</i> , 2010 , 21, 262-7	4.8	10
25	Electrospun Produced 3D Matrices for Covering of Vascular Stents: Paclitaxel Release Depending on Fiber Structure and Composition of the External Environment. <i>Materials</i> , 2018 , 11,	3.5	10
24	Enhancement of Biomimetic Enzymatic Mineralization of Gellan Gum Polysaccharide Hydrogels by Plant-Derived Gallotannins. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	9
23	Novel whey protein isolate-based highly porous scaffolds modified with therapeutic ion-releasing bioactive glasses. <i>Materials Letters</i> , 2020 , 261, 127115	3.3	9

22	Composites of polyvinyl alcohol (PVA) hydrogel and calcium and magnesium phosphate formed by enzymatic functionalization. <i>Materials Letters</i> , 2014 , 137, 62-67	3.3	8
21	Glucuronic acid and phosphoserine act as mineralization mediators of collagen I based biomimetic substrates. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 407-18	4.5	7
20	Biofunctionalization of poly(l-lactide-co-glycolide) by post-plasma grafting of 2-aminoethyl methacrylate and gelatin immobilization. <i>Materials Letters</i> , 2015 , 139, 344-347	3.3	6
19	Phenolic-Enriched Collagen Fibrillar Coatings on Titanium Alloy to Promote Osteogenic Differentiation and Reduce Inflammation. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	6
18	Unilateral atrophy of the cheek: autologous fat injection as treatment of choice. <i>Journal of Craniofacial Surgery</i> , 2009 , 20, 423-5	1.2	5
17	Dairy-Inspired Coatings for Bone Implants From Whey Protein Isolate-Derived Self-Assembled Fibrils. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5
16	Composites Based on Hydroxyapatite and Whey Protein Isolate for Applications in Bone Regeneration. <i>Materials</i> , 2021 , 14,	3.5	5
15	Marine Polysaccharide-Collagen Coatings on Ti6Al4V Alloy Formed by Self-Assembly. <i>Micromachines</i> , 2019 , 10,	3.3	3
14	Modification of heat-induced whey protein isolate hydrogel with highly bioactive glass particles results in promising biomaterial for bone tissue engineering. <i>Materials and Design</i> , 2021 , 205, 109749	8.1	3
13	pH-Sensitive Dairy-Derived Hydrogels with a Prolonged Drug Release Profile for Cancer Treatment. <i>Materials</i> , 2021 , 14,	3.5	3
12	Phytase-mediated enzymatic mineralization of chitosan-enriched hydrogels. <i>Materials Letters</i> , 2018 , 214, 186-189	3.3	3
11	Marine-Inspired Enzymatic Mineralization of Dairy-Derived Whey Protein Isolate (WPI) Hydrogels for Bone Tissue Regeneration. <i>Marine Drugs</i> , 2020 , 18,	6	2
10	The influence of Ca/Mg ratio on autogelation of hydrogel biomaterials with bioceramic compounds.. <i>Materials Science and Engineering C</i> , 2022 , 112632	8.3	1
9	Freeze-Dried Curdlan/Whey Protein Isolate-Based Biomaterial as Promising Scaffold for Matrix-Associated Autologous Chondrocyte Transplantation-A Pilot In-Vitro Study.. <i>Cells</i> , 2022 , 11,	7.9	1
8	Electron Beam-Treated Enzymatically Mineralized Gelatin Hydrogels for Bone Tissue Engineering. <i>Journal of Functional Biomaterials</i> , 2021 , 12,	4.8	1
7	Amine-Rich Coatings to Potentially Promote Cell Adhesion, Proliferation and Differentiation, and Reduce Microbial Colonization: Strategies for Generation and Characterization. <i>Coatings</i> , 2021 , 11, 983	2.9	1
6	Phloroglucinol-enhanced whey protein isolate hydrogels with antimicrobial activity for tissue engineering. <i>Materials Science and Engineering C</i> , 2021 , 129, 112412	8.3	1
5	Complex Material and Surface Analysis of Anterolateral Distal Tibial Plate of 1.4441 Steel. <i>Metals</i> , 2022 , 12, 60	2.3	1

- 4 Newly crosslinked chitosan- and chitosan-pectin-based hydrogels with high antioxidant and potential anticancer activity.. *Carbohydrate Polymers*, **2022**, 290, 119486 10.3 1
- 3 Biomimetic biphasic curdlan-based scaffold for osteochondral tissue engineering applications □
Characterization and preliminary evaluation of mesenchymal stem cell response in vitro **2022**, 212724 1
- 2 Biomimetic Mineralization of Hydrogel Biomaterials for Bone Tissue Engineering **2013**, 51-67
- 1 WPI Hydrogels with a Prolonged Drug-Release Profile for Antimicrobial Therapy. *Pharmaceutics*, **2022**, 14, 1199 6.4