

Chang Du

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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.

83

papers

2,782

citations

28

h-index

50

g-index

86

ext. papers

3,059

ext. citations

6.2

avg, IF

4.95

L-index

#	Paper	IF	Citations
83	Supramolecular assembly of amelogenin nanospheres into birefringent microribbons. <i>Science</i> , 2005 , 307, 1450-4	33.3	297
82	Three-dimensional nano-HAp/collagen matrix loading with osteogenic cells in organ culture. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 44, 407-15		295
81	Formation of calcium phosphate/collagen composites through mineralization of collagen matrix. <i>Journal of Biomedical Materials Research Part B</i> , 2000 , 50, 518-27		241
80	Morphological behaviour of osteoblasts on diamond-like carbon coating and amorphous C-N film in organ culture. <i>Biomaterials</i> , 1998 , 19, 651-8	15.6	109
79	PLLA nanofibrous paper-based plasmonic substrate with tailored hydrophilicity for focusing SERS detection. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 5391-9	9.5	93
78	PHBV microspheres--PLGA matrix composite scaffold for bone tissue engineering. <i>Biomaterials</i> , 2010 , 31, 4278-85	15.6	88
77	Amelogenin Promotes the Formation of Elongated Apatite Microstructures in a Controlled Crystallization System. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 6398-6404	3.8	74
76	Directing the fate of human and mouse mesenchymal stem cells by hydroxyl-methyl mixed self-assembled monolayers with varying wettability. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 4794-4807	7.3	63
75	Bone growth in biomimetic apatite coated porous Polyactive 1000PEGT70PBT30 implants. <i>Biomaterials</i> , 2002 , 23, 4649-56	15.6	59
74	On the formation of amelogenin microribbons. <i>European Journal of Oral Sciences</i> , 2006 , 114 Suppl 1, 289-96; discussion 327-9, 382	2.3	58
73	Biomimetic mineralization of carboxymethyl chitosan nanofibers with improved osteogenic activity in vitro and in vivo. <i>Carbohydrate Polymers</i> , 2018 , 195, 225-234	10.3	57
72	The role of secondary structure in the entropically driven amelogenin self-assembly. <i>Biophysical Journal</i> , 2007 , 93, 3664-74	2.9	56
71	Surface chemistry from wettability and charge for the control of mesenchymal stem cell fate through self-assembled monolayers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 148, 549-556	6	50
70	Hierarchical porous hydroxyapatite microsphere as drug delivery carrier. <i>CrystEngComm</i> , 2013 , 15, 5760	3.3	48
69	Analysis of secondary structure and self-assembly of amelogenin by variable temperature circular dichroism and isothermal titration calorimetry. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009 , 76, 560-9	4.2	47
68	Biomimetic calcium phosphate coatings on Polyactive 1000/70/30. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 59, 535-46		45
67	Apatite/amelogenin coating on titanium promotes osteogenic gene expression. <i>Journal of Dental Research</i> , 2005 , 84, 1070-4	8.1	44

66	A novel PHBV/HA microsphere releasing system loaded with alendronate. <i>Materials Science and Engineering C</i> , 2009 , 29, 2221-2225	8.3	42
65	Early stage structural evolution of PLLA porous scaffolds in thermally induced phase separation process and the corresponding biodegradability and biological property. <i>Polymer Degradation and Stability</i> , 2012 , 97, 955-963	4.7	37
64	Reactive electrospinning of composite nanofibers of carboxymethyl chitosan cross-linked by alginate dialdehyde with the aid of polyethylene oxide. <i>Carbohydrate Polymers</i> , 2016 , 148, 98-106	10.3	37
63	In vitro study on the interaction between the 32 kDa enamelin and amelogenin. <i>Journal of Structural Biology</i> , 2009 , 166, 88-94	3.4	35
62	Effect of frequency on the structure and cell response of Ca- and P-containing MAO films. <i>Applied Surface Science</i> , 2010 , 256, 2018-2024	6.7	35
61	Control of apatite crystal growth by the co-operative effect of a recombinant porcine amelogenin and fluoride. <i>European Journal of Oral Sciences</i> , 2006 , 114 Suppl 1, 304-7; discussion 327-9, 382	2.3	32
60	Effects of hydroxyapatite microparticle morphology on bone mesenchymal stem cell behavior. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 4703-4710	7.3	31
59	A systematic examination of the morphology of hydroxyapatite in the presence of citrate. <i>RSC Advances</i> , 2013 , 3, 23184	3.7	30
58	Early stage evolution of structure and nanoscale property of nanofibers in thermally induced phase separation process. <i>Reactive and Functional Polymers</i> , 2012 , 72, 765-772	4.6	30
57	The structure, surface topography and mechanical properties of SiCN films fabricated by RF and DC magnetron sputtering. <i>Applied Surface Science</i> , 2011 , 258, 1328-1336	6.7	29
56	Synthesis and bioactive properties of macroporous nanoscale SiO ₂ /CaO/B ₂ O ₅ bioactive glass. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 2678-2681	3.9	29
55	Fabrication, structure and biological properties of organic acid-derived sol-gel bioactive glasses. <i>Biomedical Materials (Bristol)</i> , 2010 , 5, 054103	3.5	28
54	Acetic acid derived mesoporous bioactive glasses with an enhanced in vitro bioactivity. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 2583-2587	3.9	28
53	Enamel proteases reduce amelogenin-apatite binding. <i>Journal of Dental Research</i> , 2008 , 87, 1133-7	8.1	28
52	Controlled growth of hydroxyapatite fibers precipitated by propionamide through hydrothermal synthesis. <i>Powder Technology</i> , 2014 , 253, 172-177	5.2	27
51	Structure and surface nanomechanics of poly(L-lactide) from thermally induced phase separation process. <i>Applied Surface Science</i> , 2012 , 258, 6665-6671	6.7	27
50	In vivo and in vitro osteogenesis of stem cells induced by controlled release of drugs from microspherical scaffolds. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9140		26
49	Combined effect of ion concentration and functional groups on surface chemistry modulated CaCO ₃ crystallization. <i>CrystEngComm</i> , 2012 , 14, 6647	3.3	25

48	Macroporous poly (l-lactic acid)/chitosan nanofibrous scaffolds through cloud point thermally induced phase separation for enhanced bone regeneration. <i>European Polymer Journal</i> , 2018 , 109, 303-316	5.2	25
47	Silicon nitride films for the protective functional coating: blood compatibility and biomechanical property study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 16, 9-20	4.1	24
46	Preparation of carboxymethyl cellulose based microgels for cell encapsulation. <i>EXPRESS Polymer Letters</i> , 2014 , 8, 841-849	3.4	22
45	Influence of Sintering Temperature on Pore Structure and Apatite Formation of a Sol-Gel-Derived Bioactive Glass. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 32-35	3.8	21
44	Assembly and processing of an engineered amelogenin proteolytic product (rP148). <i>European Journal of Oral Sciences</i> , 2006 , 114 Suppl 1, 59-63; discussion 93-5, 379-80	2.3	21
43	Tooth regeneration: challenges and opportunities for biomedical material research. <i>Biomedical Materials (Bristol)</i> , 2006 , 1, R10-7	3.5	20
42	Osteogenic and tenogenic induction of hBMSCs by an integrated nanofibrous scaffold with chemical and structural mimicry of the bone-ligament connection. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 1015-1027	7.3	19
41	A tracheal scaffold of gelatin-chondroitin sulfate-hyaluronan-polyvinyl alcohol with orientated porous structure. <i>Carbohydrate Polymers</i> , 2017 , 159, 20-28	10.3	19
40	Tailorable hierarchical structures of biomimetic hydroxyapatite micro/nano particles promoting endocytosis and osteogenic differentiation of stem cells. <i>Biomaterials Science</i> , 2020 , 8, 3286-3300	7.4	19
39	Microfluidics-based approaches for separation and analysis of circulating tumor cells. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 117, 84-100	14.6	19
38	Two competitive nucleation mechanisms of calcium carbonate biomineralization in response to surface functionality in low calcium ion concentration solution. <i>International Journal of Energy Production and Management</i> , 2015 , 2, 187-95	5.3	19
37	Calcium carbonate crystallization controlled by functional groups: A mini-review. <i>Frontiers of Materials Science</i> , 2013 , 7, 62-68	2.5	18
36	Citric acid modification of PLLA nano-fibrous scaffolds to enhance cellular adhesion, proliferation and osteogenic differentiation. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 5291-5299	7.3	17
35	Surface nanoscale patterning of bioactive glass to support cellular growth and differentiation. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 94, 1091-9	5.4	17
34	Hybrid scaffolding strategy for dermal tissue reconstruction: a bioactive glass/chitosan/silk fibroin composite. <i>RSC Advances</i> , 2016 , 6, 19887-19896	3.7	14
33	Biodegradable 3D printed HA/CMCS/PDA scaffold for repairing lacunar bone defect. <i>Materials Science and Engineering C</i> , 2020 , 116, 111148	8.3	13
32	Effect of Sn ⁴⁺ doping on the photoactivity inhibition and near infrared reflectance property of mica-titania pigments for a solar reflective coating. <i>Ceramics International</i> , 2016 , 42, 17148-17153	5.1	12
31	Insight into vitronectin structural evolution on material surface chemistries: The mediation for cell adhesion. <i>Bioactive Materials</i> , 2020 , 5, 1044-1052	16.7	12

30	The correlation between osteopontin adsorption and cell adhesion to mixed self-assembled monolayers of varying charges and wettability. <i>Biomaterials Science</i> , 2017 , 5, 800-807	7.4	11
29	Detection of Circulating Tumor Cells by Fluorescence Microspheres-Mediated Amplification. <i>Analytical Chemistry</i> , 2020 , 92, 6968-6976	7.8	11
28	Structure and nanomechanics of collagen fibrils in articular cartilage at different stages of osteoarthritis. <i>RSC Advances</i> , 2014 , 4, 51165-51170	3.7	11
27	Different fate of cancer cells on several chemical functional groups. <i>Surface and Coatings Technology</i> , 2013 , 228, S48-S54	4.4	10
26	The growth process of regular radiated nanorod bundles hydroxyapatite formed by thermal aqueous solution approach. <i>Materials Chemistry and Physics</i> , 2013 , 141, 488-494	4.4	9
25	A Biomimetic Material with a High Bio-responsibility for Bone Reconstruction and Tissue Engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011 , 22, 153-63	3.5	9
24	Influence of the seed layer on photoactivity inhibition of mica/titania pigments. <i>Ceramics International</i> , 2016 , 42, 6595-6600	5.1	9
23	Highly efficient capture of circulating tumor cells with low background signals by using pyramidal microcavity array. <i>Analytica Chimica Acta</i> , 2019 , 1060, 133-141	6.6	8
22	Nanoindentation creep behavior of enamel biological nanocomposites. <i>RSC Advances</i> , 2014 , 4, 41003-41009	3.9	8
21	Doping strontium in tricalcium phosphate microspheres using yeast-based biotemplate. <i>Materials Chemistry and Physics</i> , 2014 , 147, 540-544	4.4	8
20	Bifunctional scaffolds of hydroxyapatite/poly(dopamine)/carboxymethyl chitosan with osteogenesis and anti-osteosarcoma effect. <i>Biomaterials Science</i> , 2021 , 9, 3319-3333	7.4	8
19	Size controlling of monodisperse carboxymethyl cellulose microparticles via a microfluidic process. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	7
18	Role of Ninth Type-III Domain of Fibronectin in the Mediation of Cell-Binding Domain Adsorption on Surfaces with Different Chemistries. <i>Langmuir</i> , 2018 , 34, 9847-9855	4	6
17	In vitro effects of differentially shaped hydroxyapatite microparticles on RAW264.7 cell responses. <i>RSC Advances</i> , 2014 , 4, 28615-28622	3.7	6
16	Enhanced osteogenesis of titanium with nano-Mg(OH) film and a mechanism study via whole genome expression analysis. <i>Bioactive Materials</i> , 2021 , 6, 2729-2741	16.7	6
15	Synthesis of magnesium-doped calcium carbonate microcapsules through yeast-regulated mineralization. <i>Materials Letters</i> , 2017 , 193, 38-41	3.3	5
14	Nanomechanical properties of poly(L-lactide) nanofibers after deformation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 120, 97-101	6	5
13	Immunogold labeling of amelogenin in developing porcine enamel revealed by field emission scanning electron microscopy. <i>Cells Tissues Organs</i> , 2009 , 189, 207-11	2.1	5

12	Mechanistic insights into the adsorption and bioactivity of fibronectin on surfaces with varying chemistries by a combination of experimental strategies and molecular simulations. <i>Bioactive Materials</i> , 2021 , 6, 3125-3135	16.7	5
11	Construct Scaffold-like delivery system with poly (lactic-co-glycolic) microspheres on micro-arc oxidation titanium. <i>Applied Surface Science</i> , 2013 , 266, 81-88	6.7	4
10	Preparation of PrxZn1 kO nanopowder with UV-visible light response. <i>Materials Letters</i> , 2009 , 63, 1781-1784	3.8	4
9	Biomimetic three-layered membranes comprising (poly)-ε-caprolactone, collagen and mineralized collagen for guided bone regeneration. <i>International Journal of Energy Production and Management</i> , 2021 , 8, rbab065	5.3	4
8	Controlling the strontium-doping in calcium phosphate microcapsules through yeast-regulated biomimetic mineralization. <i>International Journal of Energy Production and Management</i> , 2016 , 3, 269-276	5.3	4
7	Progress in the Biomineralization Study of Bone and Enamel and Biomimetic Synthesis of Calcium Phosphate. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2009 , 24, 882-888	1	3
6	Bioactive glass nanoparticles inhibit osteoclast differentiation and osteoporotic bone loss by activating lncRNA NRON expression in the extracellular vesicles derived from bone marrow mesenchymal stem cells.. <i>Biomaterials</i> , 2022 , 283, 121438	15.6	2
5	Mediating Mesenchymal Stem Cells Responses and Osteopontin Adsorption via Oligo(ethylene glycol)-amino Mixed Self-assembled Monolayers. <i>Journal of Materials Science and Technology</i> , 2016 , 32, 966-970	9.1	1
4	Antimicrobial Peptides-Loaded Hydroxyapatite Microsphere With Different Hierarchical Structures for Enhanced Drug Loading, Sustained Release and Antibacterial Activity. <i>Frontiers in Chemistry</i> , 2021 , 9, 747665	5	1
3	Surface Modification of Bioglass with Phosphatidyl Cholines. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2009 , 24, 889-892	1	
2	The mechanism of Megalobrama amblycephala muscle injury repair based on RNA-seq.. <i>Gene</i> , 2022 , 827, 146455	3.8	
1	Current Strategies for Real-Time Enzyme Activation. <i>Biomolecules</i> , 2022 , 12, 599	5.9	