Huan Zhou

List of Publications by Year
in descending order

60 papers	1,641 citations	331259 21 h-index	301761 39 g-index
60 all docs	60 docs citations	60 times ranked	2131 citing authors

#	Article	IF	Citations
1	Magnesium-based bioceramics in orthopedic applications. Acta Biomaterialia, 2018, 66, 23-43.	4.1	239
2	Fabrication aspects of PLA-CaP/PLGA-CaP composites for orthopedic applications: A review. Acta Biomaterialia, 2012, 8, 1999-2016.	4.1	223
3	Injectable biomaterials for translational medicine. Materials Today, 2019, 28, 81-97.	8.3	82
4	Rapid coating of AZ31 magnesium alloy with calcium deficient hydroxyapatite using microwave energy. Materials Science and Engineering C, 2015, 49, 364-372.	3.8	75
5	Biomimetic coating technology for orthopedic implants. Current Opinion in Chemical Engineering, 2017, 15, 49-55.	3.8	64
6	Microwave assisted preparation of magnesium phosphate cement (MPC) for orthopedic applications: A novel solution to the exothermicity problem. Materials Science and Engineering C, 2013, 33, 4288-4294.	3.8	60
7	Fabrication of novel PLA/CDHA bionanocomposite fibers for tissue engineering applications via electrospinning. Journal of Materials Science: Materials in Medicine, 2011, 22, 1183-1193.	1.7	54
8	Novel microwave synthesis of amorphous calcium phosphate nanospheres. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 1142-1150.	1.6	45
9	Monetite, an important calcium phosphate compoundâ€“Its synthesis, properties and applications in orthopedics. Acta Biomaterialia, 2021, 127, 41-55.	4.1	43
10	Microwave assisted synthesis of amorphous magnesium phosphate nanospheres. Journal of Materials Science: Materials in Medicine, 2012, 23, 2831-2837.	1.7	42
11	A fast route to modify biopolymer surface: A study on polyetheretherketone (PEEK). Materials Letters, 2014, 125, 96-98.	1.3	41
12	Fabrication of novel poly(lactic acid)/amorphous magnesium phosphate bionanocomposite fibers for tissue engineering applications via electrospinning. Materials Science and Engineering C, 2013, 33, 2302-2310.	3.8	39
13	Microwave assisted apatite coating deposition on Ti6Al4V implants. Materials Science and Engineering C, 2013, 33, 4435-4443.	3.8	34
14	Mesoporous hydroxyapatite nanoparticles hydrothermally synthesized in aqueous solution with hexametaphosphate and tea polyphenols. Materials Science and Engineering C, 2017, 71, 439-445.	3.8	30
15	Nanotechnology-enabled materials for hemostatic and anti-infection treatments in orthopedic surgery. International Journal of Nanomedicine, 2018, Volume 13, 8325-8338.	3.3	29
16	Development of multi-walled carbon nanotubes reinforced monetite bionanocomposite cements for orthopedic applications. Materials Science and Engineering C, 2013, 33, 4323-4330.	3.8	27
17	Development of nanosilica bonded monetite cement from egg shells. Materials Science and Engineering C, 2015, 50, 45-51.	3.8	26
18	Biomimetic coating of bisphosphonate incorporated CDHA on Ti6Al4V. Journal of Materials Science: Materials in Medicine, 2012, 23, 365-374.	1.7	25

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19	Synthesis of mesoporous hydroxyapatite via a vitamin C templating hydrothermal route. Materials Letters, 2018, 218, 52-55.	1.3	25
20	Development of monetite/phosphorylated chitosan composite bone cement. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 260-266.	1.6	23
21	Preparation of Chinese mystery snail shells derived hydroxyapatite with different morphology using condensed phosphate sources. Ceramics International, 2016, 42, 16671-16676.	2.3	23
22	Formation of nanostructured fluorapatite via microwave assisted solution combustion synthesis. Materials Science and Engineering C, 2014, 37, 363-368.	3.8	22
23	Microwave-assisted fabrication of strontium doped apatite coating on Ti6Al4V. Materials Science and Engineering C, 2015, 56, 174-180.	3.8	22
24	Translation of bone wax and its substitutes: History, clinical status and future directions. Journal of Orthopaedic Translation, 2019, 17, 64-72.	1.9	22
25	Effects of polydopamine coatings on nucleation modes of surface mineralization from simulated body fluid. Scientific Reports, 2020, 10, 14982.	1.6	22
26	Cytocompatibility evaluation of microwave sintered biphasic calcium phosphate scaffolds synthesized using pH control. Materials Science and Engineering C, 2013, 33, 1710-1719.	3.8	20
27	Influence of ethanol content in the precipitation medium on the composition, structure and reactivity of magnesiumâ€“calcium phosphate. Materials Science and Engineering C, 2015, 53, 204-211.	3.8	20
28	Development of monetiteâ€“nanosilica bone cement: A preliminary study. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 1620-1626.	1.6	19
29	iRGDâ€paclitaxel conjugate nanoparticles for targeted paclitaxel delivery. Drug Development Research, 2019, 80, 1080-1088.	1.4	19
30	Fabrication of GO-TiO2/(Ca,Y)F2:Tm,Yb composites with high-efficiency optical driving photocatalytic activity for degradation of organic dyes and bacteriostasis. Rare Metals, 2022, 41, 650-662.	3.6	18
31	Hydrolysis of monetite/chitosan composites in Î±-MEM and SBF solutions. Journal of Materials Science: Materials in Medicine, 2011, 22, 1101-1109.	1.7	17
32	Biodegradable Mg-based alloys: biological implications and restorative opportunities. International Materials Reviews, 2023, 68, 365-403.	9.4	16
33	Synthesis of Î²-TCP and CPP containing biphasic calcium phosphates by a robust technique. Ceramics International, 2016, 42, 11032-11038.	2.3	15
34	Sustained release of small molecules from carbon nanotube-reinforced monetite calcium phosphate cement. Materials Science and Engineering C, 2014, 43, 92-96.	3.8	14
35	A review of the effects and molecular mechanisms of dimethylcurcumin (ASCâ€9) on androgen receptorâ€related diseases. Chemical Biology and Drug Design, 2021, 97, 821-835.	1.5	14
36	Co-precipitation of calcium carbonate and curcumin in an ethanol medium as a novel approach for curcumin dissolution enhancement. Journal of Drug Delivery Science and Technology, 2019, 51, 397-402.	1.4	12

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37	Femtosecond laser-induced nanoporous layer for enhanced osteogenesis of titanium implants. Materials Science and Engineering C, 2021, 127, 112247.	3.8	12
38	Development of hydrofluoric acid-cleaned silicon nitride implants for periprosthetic infection eradication and bone regeneration enhancement. Materials Science and Engineering C, 2021, 127, 112241.	3.8	10
39	Using calcium sulfate cementâ€"Hydroxypropyl methyl cellulose/sodium alginate composites as substitutes of bone wax. International Journal of Applied Ceramic Technology, 2018, 15, 903-909.	1.1	9
40	Deposition of PLA/CDHA composite coating via electrospraying. Journal of Biomaterials Science, Polymer Edition, 2013, 24, 784-796.	1.9	8
41	Methoxylpoly(ethylene glycol)â€retinoic acid Micelles Loaded with Dimethylcurcumin for Efficient Castrationâ€Resistant Prostate Cancer Therapy. ChemistrySelect, 2019, 4, 12015-12021.	0.7	8
42	Improve endothelialization of metallic cardiovascular stent via femtosecond laser induced micro/nanostructure dependent cells proliferation and drug delivery control. Colloids and Surfaces B: Biointerfaces, 2022, 212, 112376.	2.5	8
43	Microwave assisted solution combustion synthesis (MASCS) of europium (Eu) doped chlorapatite nanowhiskers. Materials Letters, 2013, 108, 54-57.	1.3	7
44	Macroporous and Antibacterial Hydrogels Enabled by Incorporation of Mg-Cu Alloy Particles for Accelerating Skin Wound Healing. Acta Metallurgica Sinica (English Letters), 2022, 35, 853-866.	1.5	7
45	The impacts of Mg2+ on strontium phosphate: A preliminary study. Materials Letters, 2013, 113, 63-66.	1.3	6
46	Microwave assisted solution combustion synthesis of strontium phosphate (SrP) whiskers. Materials Letters, 2014, 116, 286-288.	1.3	6
47	A multi-functional SiO₃^{2â^'}-releasing hydrogel with bioinspired mechanical properties and biodegradability for vascularized skeletal muscle regeneration. Journal of Materials Chemistry B, 2022, 10, 7540-7555.	2.9	6
48	Application of mesoporous calcium silicate nanoparticles as a potential SD carrier to improve the solubility of curcumin. Journal of Dispersion Science and Technology, 2023, 44, 2258-2266.	1.3	6
49	Deposition of calcium phosphate coatings using condensed phosphates (P 2 O 7 4â^' and P 3 O 10 5â^') as phosphate source through induction heating. Materials Science and Engineering C, 2016, 69, 337-342.	3.8	5
50	Microwave hydrothermal synthesis of calcium phosphates using inorganic condensed phosphate salts as precursors. Materials Letters, 2016, 180, 239-242.	1.3	5
51	Preparation of Yttrium Phosphate and Yttriumâ€Doped Calcium Phosphate Microspheres via Hydrated Ions Exchange. International Journal of Applied Ceramic Technology, 2015, 12, E146.	1.1	4
52	Microwave-assisted rapid preparation of Ca10Na(PO4)7 using sodium triphosphate as a phosphorus source. Ceramics International, 2015, 41, 15111-15115.	2.3	4
53	The translatory aspects of calcium phosphates for orthopedic applications. , 2019, , 37-55.		3
54	Development of a silica sol reinforced monetite cement matrix. Materials Technology, 2015, 30, B237-B241.	1.5	2

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55	Development of a silica sol-reinforced monetite cement matrix. Materials Technology, 0, , 1-6.	1.5	1
56	Synthesis of mesoporous magnesium phosphates as dispersing carriers for cryptotanshinone solid dispersions. International Journal of Applied Ceramic Technology, 2018, 15, 938-946.	1.1	1
57	SynthesisÂand Herbicidal Activity of Trifluoromethylâ€Substituted Phenyl Alkyl Ketoxime Esters of Bispyribac. ChemistrySelect, 2020, 5, 4194-4199.	0.7	1
58	Preparation of (CaY)F ₂ :Tm ³⁺ ,Yb ³⁺ deposited porous TiO ₂ matrix with highly nearâ€infrared light photocatalytic activity. Micro and Nano Letters, 2021, 16, 83-89.	0.6	1
59	Microwaveâ€Assisted Production of Amorphous Calcium Magnesium Phosphate: Study From Coâ€Precipitation to Sintered Products. International Journal of Applied Ceramic Technology, 2015, 12, E7.	1.1	0
60	Application of Î² â€CD/HA composite as a potential SD carrier to improve the dissolution of curcumin. Micro and Nano Letters, 2019, 14, 353-358.	0.6	0