Congqin Ning

List of Publications by Year
in descending order

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82 papers	3,436 citations	159358 30 h-index	143772 57 g-index
84 all docs	84 docs citations	84 times ranked	4243 citing authors

#	Article	IF	Citations
1	Sol-gel preparation of ZrO2â€“Li2Si2O5 ceramics and their sintering properties. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 126, 105032.	1.5	3
2	Favorable osteogenic activity of iron doped in silicocarnotite bioceramic: In vitro and in vivo Studies. Journal of Orthopaedic Translation, 2022, 32, 103-111.	1.9	7
3	Co-exchanged montmorillonite: a potential antibacterial agent with good antibacterial activity and cytocompatibility. Journal of Materials Chemistry B, 2022, 10, 3705-3715.	2.9	6
4	Osteoimmune reaction caused by a novel silicocarnotite bioceramic promoting osteogenesis through the MAPK pathway. Biomaterials Science, 2022, 10, 2877-2891.	2.6	1
5	Gradient composite film with calcium phosphate silicate for improved tendon -to-Bone intergration. Chemical Engineering Journal, 2021, 404, 126473.	6.6	16
6	Sintering and mechanical properties of lithium disilicate glass-ceramics prepared by sol-gel method. Journal of Non-Crystalline Solids, 2021, 552, 120443.	1.5	11
7	Complementary and synergistic effects on osteogenic and angiogenic properties of copper-incorporated silicocarnotite bioceramic: In vitro and in vivo studies. Biomaterials, 2021, 268, 120553.	5.7	43
8	Copper containing silicocarnotite bioceramic with improved mechanical strength and antibacterial activity. Materials Science and Engineering C, 2021, 118, 111493.	3.8	18
9	Fabrication of enamel-like structure on polymer-infiltrated zirconia ceramics. Dental Materials, 2021, 37, e245-e255.	1.6	11
10	Double-edged effects caused by magnesium ions and alkaline environment regulate bioactivities of magnesium-incorporated silicocarnotite in vitro. International Journal of Energy Production and Management, 2021, 8, rbab016.	1.9	12
11	Study on antibacterial and fluoride-releasing properties of a novel composite resin with fluorine-doped nano-zirconia fillers. Journal of Dentistry, 2021, 113, 103772.	1.7	15
12	Improved cellular bioactivity by heparin immobilization on polycarbonate film via an aminolysis modification for potential tendon repair. International Journal of Biological Macromolecules, 2020, 142, 835-845.	3.6	10
13	Ferric oxide: A favorable additive to balance mechanical strength and biological activity of silicocarnotite bioceramic. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 109, 103819.	1.5	6
14	Ultrasound-assisted synthesis of nanocrystallized silicocarnotite biomaterial with improved sinterability and osteogenic activity. Journal of Materials Chemistry B, 2020, 8, 3092-3103.	2.9	9
15	Highly dense Ca5(PO4)2SiO4 bioceramics with ultrafine microstructure prepared by pressureless sintering. Ceramics International, 2019, 45, 23728-23733.	2.3	3
16	High strength polymer/silicon nitride composites for dental restorations. Dental Materials, 2019, 35, 1254-1263.	1.6	26
17	Enhanced tendon to bone healing in rotator cuff tear by PLLA/CPS composite films prepared by a simple melt-pressing method: An in vitro and in vivo study. Composites Part B: Engineering, 2019, 165, 526-536.	5.9	22
18	Facile preparation of Ti3+/Ni co-doped TiO2 nanotubes photoanode for efficient photoelectrochemical water splitting. Applied Surface Science, 2019, 480, 219-228.	3.1	58

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19	Ni-doped TiO2 nanotubes photoanode for enhanced photoelectrochemical water splitting. Applied Surface Science, 2018, 443, 321-328.	3.1	133
20	Black Si-doped TiO₂ nanotube photoanode for high-efficiency photoelectrochemical water splitting. RSC Advances, 2018, 8, 5652-5660.	1.7	48
21	Bioactive calcium phosphate silicate ceramic surface-modified PLGA for tendon-to-bone healing. Colloids and Surfaces B: Biointerfaces, 2018, 164, 388-395.	2.5	16
22	Facile fabrication of Si-doped TiO2 nanotubes photoanode for enhanced photoelectrochemical hydrogen generation. Applied Surface Science, 2018, 436, 125-133.	3.1	22
23	NaBH4 reduction of Ti Si O nanotubes photoanode for high-efficiency photoelectrochemical water splitting. International Journal of Hydrogen Energy, 2018, 43, 14183-14192.	3.8	16
24	Sintering properties of solâ€“gel derived lithium disilicate glass ceramics. Journal of Sol-Gel Science and Technology, 2018, 87, 372-379.	1.1	6
25	Enhanced Bioactivity and Bacteriostasis of Surface Fluorinated Polyetheretherketone. ACS Applied Materials & Interfaces, 2017, 9, 16824-16833.	4.0	79
26	Effects of pore connectivity and microstructure on mechanical performance of ZrO2 scaffolds and PMMA-infiltrated ZrO2 composites. Journal of Alloys and Compounds, 2017, 728, 189-195.	2.8	7
27	Porous Si3N4 fabrication via volume-controlled foaming and their sound absorption properties. Journal of Alloys and Compounds, 2017, 727, 163-167.	2.8	19
28	Porous Si3N4 ceramics fabricated through a modified incomplete gelcasting and freeze-drying method. Ceramics International, 2017, 43, 14678-14682.	2.3	8
29	Photoelectrochemical Water Splitting Properties of Ti-Ni-Si-O Nanostructures on Ti-Ni-Si Alloy. Nanomaterials, 2017, 7, 359.	1.9	7
30	Enhanced osteogenic and selective antibacterial activities on micro-/nano-structured carbon fiber reinforced polyetheretherketone. Journal of Materials Chemistry B, 2016, 4, 2944-2953.	2.9	21
31	Shape Memory Alloys and Their Medical Applications. , 2016, , 187-195.		1
32	Biomaterials for Bone Tissue Engineering. , 2016, , 35-57.		4
33	Enhanced osteogenic activity of poly ether ether ketone using calcium plasma immersion ion implantation. Colloids and Surfaces B: Biointerfaces, 2016, 142, 192-198.	2.5	39
34	Influence of sulfur content on bone formation and antibacterial ability of sulfonated PEEK. Biomaterials, 2016, 83, 115-126.	5.7	189
35	Nonstoichiometric In 2 O 3 nanorods/black Tiâ€“Niâ€“O nanotubes heterojunction photoanode for high-efficiency photoelectrochemical water splitting. Solar Energy Materials and Solar Cells, 2016, 145, 382-390.	3.0	10
36	rBMSC and bacterial responses to isoelastic carbon fiber-reinforced poly(ether-ether-ketone) modified by zirconium implantation. Journal of Materials Chemistry B, 2016, 4, 96-104.	2.9	20

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37	Cobalt-phosphate/Ni-doped TiO2 nanotubes composite photoanodes for solar water oxidation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 202, 54-60.	1.7	21
38	Black Ni-doped TiO2 photoanodes for high-efficiency photoelectrochemical water-splitting. International Journal of Hydrogen Energy, 2015, 40, 2107-2114.	3.8	84
39	Enhanced osteointegration on tantalum-implanted polyetheretherketone surface with bone-like elastic modulus. Biomaterials, 2015, 51, 173-183.	5.7	206
40	Î±-Fe2O3/Tiâ€“Nbâ€“Zrâ€“O composite photoanode for enhanced photoelectrochemical water splitting. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 196, 15-22.	1.7	14
41	Reduced N/Ni-doped TiO₂ nanotubes photoanodes for photoelectrochemical water splitting. RSC Advances, 2015, 5, 95478-95487.	1.7	25
42	Mechanical Properties and Protein Adsorption of Ca₅(PO₄)₂SiO₄ Bioceramics Sintered from Solid State Reaction Derived Powders. Journal of Biomaterials and Tissue Engineering, 2015, 5, 162-168.	0.0	4
43	Anodic Fabrication of Ti-Ni-O Nanotube Arrays on Shape Memory Alloy. Materials, 2014, 7, 3262-3273.	1.3	20
44	Anodic Fabrication of Ti-Nb-Zr-O Nanotube Arrays. Journal of Nanomaterials, 2014, 2014, 1-7.	1.5	3
45	Ni-doped TiO2 nanotubes for wide-range hydrogen sensing. Nanoscale Research Letters, 2014, 9, 118.	3.1	57
46	Effect of the Interposition of Calcium Phosphate Materials on Tendon-Bone Healing During Repair of Chronic Rotator Cuff Tear. American Journal of Sports Medicine, 2014, 42, 1920-1929.	1.9	56
47	p-Type hydrogen sensing with Al- and V-doped TiO2 nanostructures. Nanoscale Research Letters, 2013, 8, 25.	3.1	27
48	Hydrogen Sensing with Ni-Doped TiO2 Nanotubes. Sensors, 2013, 13, 8393-8402.	2.1	54
49	Macromolecules on nano-outlets responding to electric field and pH for dual-mode drug delivery. Journal of Materials Chemistry B, 2013, 1, 1579.	2.9	7
50	Cytocompatibility and osteogenic activity of a novel calcium phosphate silicate bioceramic: Silicocarnotite. Journal of Biomedical Materials Research - Part A, 2013, 101A, 1955-1961.	2.1	38
51	Biological Properties of Ti-Nb-Zr-O Nanostructures Grown on Ti35Nb5Zr Alloy. Journal of Nanomaterials, 2012, 2012, 1-7.	1.5	7
52	Evaluation of Osteoinduction and Proliferation on Nano-Sr-HAP: A Novel Orthopedic Biomaterial for Bone Tissue Regeneration. Journal of Nanoscience and Nanotechnology, 2012, 12, 207-212.	0.9	26
53	Mechanical Properties and In Vitro Bioactivity of Ca₅(PO₄)₂SiO₄ Bioceramic. Journal of Biomaterials Applications, 2012, 26, 637-650.	1.2	47
54	Wide-range hydrogen sensing with Nb-doped TiO₂nanotubes. Nanotechnology, 2012, 23, 015502.	1.3	52

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55	Preparation and Characterization of PLLA/CaSiO₃/Apatite Composite Films. International Journal of Applied Ceramic Technology, 2012, 9, 133-142.	1.1	11
56	Hydrothermal fabrication of mesoporous carbonated hydroxyapatite microspheres for a drug delivery system. Microporous and Mesoporous Materials, 2012, 155, 245-251.	2.2	82
57	Synthesis and Protein Adsorption of Calcium Silicate/Apatite Composite Powders. Journal of Biomaterials and Tissue Engineering, 2012, 2, 76-82.	0.0	1
58	Anodic Replicas of Precipitates in Age-Hardening Ti Alloys. Nanoscience and Nanotechnology Letters, 2012, 4, 574-579.	0.4	0
59	Antibacterial activity of silicate bioceramics. Journal Wuhan University of Technology, Materials Science Edition, 2011, 26, 226-230.	0.4	47
60	Nacre-Like Calcium Carbonate Nanoarchitectures. Nanoscience and Nanotechnology Letters, 2011, 3, 446-450.	0.4	0
61	The effect of Zr content on the microstructure, mechanical properties and cell attachment of Tiâ€“35Nbâ€“xZr alloys. Biomedical Materials (Bristol), 2010, 5, 045006.	1.7	33
62	Anodic growth of uniform nanotube arrays on biphase Ti35Nb5Zr alloy. Electrochemistry Communications, 2010, 12, 152-155.	2.3	8
63	Synthesis and Characterization of Nanocomposite Powders Composed of Hydroxyapatite Nanoparticles and Wollastonite Nanowires. International Journal of Applied Ceramic Technology, 2010, 7, 178-183.	1.1	18
64	Fabrication and hydrogen sensing properties of doped titania nanotubes. , 2010, , .		0
65	Solâ€“gel synthesis of Na2CaSiO4 and its in vitro biological behaviors. Journal of Sol-Gel Science and Technology, 2009, 52, 69-74.	1.1	30
66	Study on antibacterial effect of 45S5 BioglassÂ®. Journal of Materials Science: Materials in Medicine, 2009, 20, 281-286.	1.7	205
67	Anodic fabrication and bioactivity of Nb-doped TiO₂nanotubes. Nanotechnology, 2009, 20, 305103.	1.3	43
68	Thermal stability andin vitrobioactivity of Tiâ€“Alâ€“Vâ€“O nanostructures fabricated on Ti6Al4V alloy. Nanotechnology, 2009, 20, 065708.	1.3	21
69	Surface modification of polycaprolactone membrane via layerâ€byâ€layer deposition for promoting blood compatibility. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 87B, 244-250.	1.6	44
70	Spark plasma sintering of macroporous calcium phosphate scaffolds from nanocrystalline powders. Journal of the European Ceramic Society, 2008, 28, 539-545.	2.8	100
71	Reconstruction of calvarial defect of rabbits using porous calcium silicate bioactive ceramics. Biomaterials, 2008, 29, 2588-2596.	5.7	388
72	Correlations between the in vitro and in vivo bioactivity of the Ti/HA composites fabricated by a powder metallurgy method. Acta Biomaterialia, 2008, 4, 1944-1952.	4.1	86

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73	Surface modification of beta-tricalcium phosphate scaffolds with topological nanoapatite coatings. Materials Science and Engineering C, 2008, 28, 1330-1339.	3.8	18
74	Fabrication of Poly-(DL-Lactic Acid)â€"Wollastonite Composite Films with Surface Modified Î²-CaSiO3 Particles. Journal of Biomaterials Applications, 2008, 22, 465-480.	1.2	9
75	Bioinspired structure of bioceramics for bone regeneration in load-bearing sites. Acta Biomaterialia, 2007, 3, 896-904.	4.1	58
76	A simple method to synthesize single-crystalline Î²-wollastonite nanowires. Journal of Crystal Growth, 2007, 300, 267-271.	0.7	78
77	Effect of bioactive ceramic dissolution on the mechanism of bone mineralization and guided tissue growthin vitro. Journal of Biomedical Materials Research - Part A, 2006, 76A, 386-397.	2.1	55
78	Effects of silica on the bioactivity of calcium phosphate composites in vitro. Journal of Materials Science: Materials in Medicine, 2005, 16, 355-360.	1.7	69
79	Cyclosilicate nanocomposite: A novel resorbable bioactive tissue engineering scaffold for BMP and bone-marrow cell delivery. Journal of Biomedical Materials Research Part B, 2004, 71A, 377-390.	3.0	54
80	On the microstructure of biocomposites sintered from Ti, HA and bioactive glass. Biomaterials, 2004, 25, 3379-3387.	5.7	78
81	In vitro bioactivity of a biocomposite fabricated from HA and Ti powders by powder metallurgy method. Biomaterials, 2002, 23, 2909-2915.	5.7	209
82	Apatite formation on the surface of a Ti/HA composite in a simulated body fluid. Journal of Materials Science Letters, 2000, 19, 1243-1245.	0.5	16