

# 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	Reconstruction of calvarial defect of rabbits using porous calcium silicate bioactive ceramics. <i>Biomaterials</i> , 2008, 29, 2588-2596.	5.7	388
2	In vitro bioactivity of a biocomposite fabricated from HA and Ti powders by powder metallurgy method. <i>Biomaterials</i> , 2002, 23, 2909-2915.	5.7	209
3	Enhanced osteointegration on tantalum-implanted polyetheretherketone surface with bone-like elastic modulus. <i>Biomaterials</i> , 2015, 51, 173-183.	5.7	206
4	Study on antibacterial effect of 45S5 Bioglass®. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 281-286.	1.7	205
5	Influence of sulfur content on bone formation and antibacterial ability of sulfonated PEEK. <i>Biomaterials</i> , 2016, 83, 115-126.	5.7	189
6	Ni-doped TiO <sub>2</sub> nanotubes photoanode for enhanced photoelectrochemical water splitting. <i>Applied Surface Science</i> , 2018, 443, 321-328.	3.1	133
7	Spark plasma sintering of macroporous calcium phosphate scaffolds from nanocrystalline powders. <i>Journal of the European Ceramic Society</i> , 2008, 28, 539-545.	2.8	100
8	Correlations between the in vitro and in vivo bioactivity of the Ti/HA composites fabricated by a powder metallurgy method. <i>Acta Biomaterialia</i> , 2008, 4, 1944-1952.	4.1	86
9	Black Ni-doped TiO <sub>2</sub> photoanodes for high-efficiency photoelectrochemical water-splitting. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 2107-2114.	3.8	84
10	Hydrothermal fabrication of mesoporous carbonated hydroxyapatite microspheres for a drug delivery system. <i>Microporous and Mesoporous Materials</i> , 2012, 155, 245-251.	2.2	82
11	Enhanced Bioactivity and Bacteriostasis of Surface Fluorinated Polyetheretherketone. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 16824-16833.	4.0	79
12	On the microstructure of biocomposites sintered from Ti, HA and bioactive glass. <i>Biomaterials</i> , 2004, 25, 3379-3387.	5.7	78
13	A simple method to synthesize single-crystalline $\beta$ -wollastonite nanowires. <i>Journal of Crystal Growth</i> , 2007, 300, 267-271.	0.7	78
14	Effects of silica on the bioactivity of calcium phosphate composites in vitro. <i>Journal of Materials Science: Materials in Medicine</i> , 2005, 16, 355-360.	1.7	69
15	Bioinspired structure of bioceramics for bone regeneration in load-bearing sites. <i>Acta Biomaterialia</i> , 2007, 3, 896-904.	4.1	58
16	Facile preparation of Ti <sup>3+</sup> /Ni co-doped TiO <sub>2</sub> nanotubes photoanode for efficient photoelectrochemical water splitting. <i>Applied Surface Science</i> , 2019, 480, 219-228.	3.1	58
17	Ni-doped TiO <sub>2</sub> nanotubes for wide-range hydrogen sensing. <i>Nanoscale Research Letters</i> , 2014, 9, 118.	3.1	57
18	Effect of the Interposition of Calcium Phosphate Materials on Tendon-Bone Healing During Repair of Chronic Rotator Cuff Tear. <i>American Journal of Sports Medicine</i> , 2014, 42, 1920-1929.	1.9	56

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19	Effect of bioactive ceramic dissolution on the mechanism of bone mineralization and guided tissue growth in vitro. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 76A, 386-397.	2.1	55
20	Cyclosilicate nanocomposite: A novel resorbable bioactive tissue engineering scaffold for BMP and bone-marrow cell delivery. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 71A, 377-390.	3.0	54
21	Hydrogen Sensing with Ni-Doped TiO <sub>2</sub> Nanotubes. <i>Sensors</i> , 2013, 13, 8393-8402.	2.1	54
22	Wide-range hydrogen sensing with Nb-doped TiO <sub>2</sub> nanotubes. <i>Nanotechnology</i> , 2012, 23, 015502.	1.3	52
23	Black Si-doped TiO <sub>2</sub> nanotube photoanode for high-efficiency photoelectrochemical water splitting. <i>RSC Advances</i> , 2018, 8, 5652-5660.	1.7	48
24	Antibacterial activity of silicate bioceramics. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2011, 26, 226-230.	0.4	47
25	Mechanical Properties and <i>In Vitro</i> Bioactivity of Ca <sub>5</sub> (PO <sub>4</sub> ) <sub>2</sub> SiO <sub>4</sub> Bioceramic. <i>Journal of Biomaterials Applications</i> , 2012, 26, 637-650.	1.2	47
26	Surface modification of polycaprolactone membrane via layer-by-layer deposition for promoting blood compatibility. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 87B, 244-250.	1.6	44
27	Anodic fabrication and bioactivity of Nb-doped TiO <sub>2</sub> nanotubes. <i>Nanotechnology</i> , 2009, 20, 305103.	1.3	43
28	Complementary and synergistic effects on osteogenic and angiogenic properties of copper-incorporated silicocarnotite bioceramic: In vitro and in vivo studies. <i>Biomaterials</i> , 2021, 268, 120553.	5.7	43
29	Enhanced osteogenic activity of poly ether ether ketone using calcium plasma immersion ion implantation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 142, 192-198.	2.5	39
30	Cytocompatibility and osteogenic activity of a novel calcium phosphate silicate bioceramic: Silicocarnotite. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 1955-1961.	2.1	38
31	The effect of Zr content on the microstructure, mechanical properties and cell attachment of Ti-35Nb-Zr alloys. <i>Biomedical Materials (Bristol)</i> , 2010, 5, 045006.	1.7	33
32	Sol-gel synthesis of Na <sub>2</sub> CaSiO <sub>4</sub> and its in vitro biological behaviors. <i>Journal of Sol-Gel Science and Technology</i> , 2009, 52, 69-74.	1.1	30
33	p-Type hydrogen sensing with Al- and V-doped TiO <sub>2</sub> nanostructures. <i>Nanoscale Research Letters</i> , 2013, 8, 25.	3.1	27
34	Evaluation of Osteoinduction and Proliferation on Nano-Sr-HAP: A Novel Orthopedic Biomaterial for Bone Tissue Regeneration. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 207-212.	0.9	26
35	High strength polymer/silicon nitride composites for dental restorations. <i>Dental Materials</i> , 2019, 35, 1254-1263.	1.6	26
36	Reduced N/Ni-doped TiO <sub>2</sub> nanotubes photoanodes for photoelectrochemical water splitting. <i>RSC Advances</i> , 2015, 5, 95478-95487.	1.7	25

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37	Facile fabrication of Si-doped TiO <sub>2</sub> nanotubes photoanode for enhanced photoelectrochemical hydrogen generation. <i>Applied Surface Science</i> , 2018, 436, 125-133.	3.1	22
38	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. <i>Composites Part B: Engineering</i> , 2019, 165, 526-536.	5.9	22
39	Thermal stability and in vitro bioactivity of Ti-Al-O nanostructures fabricated on Ti6Al4V alloy. <i>Nanotechnology</i> , 2009, 20, 065708.	1.3	21
40	Cobalt-phosphate/Ni-doped TiO <sub>2</sub> nanotubes composite photoanodes for solar water oxidation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 202, 54-60.	1.7	21
41	Enhanced osteogenic and selective antibacterial activities on micro-/nano-structured carbon fiber reinforced polyetheretherketone. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2944-2953.	2.9	21
42	Anodic Fabrication of Ti-Ni-O Nanotube Arrays on Shape Memory Alloy. <i>Materials</i> , 2014, 7, 3262-3273.	1.3	20
43	rBMSC and bacterial responses to isoelastic carbon fiber-reinforced poly(ether-ether-ketone) modified by zirconium implantation. <i>Journal of Materials Chemistry B</i> , 2016, 4, 96-104.	2.9	20
44	Porous Si <sub>3</sub> N <sub>4</sub> fabrication via volume-controlled foaming and their sound absorption properties. <i>Journal of Alloys and Compounds</i> , 2017, 727, 163-167.	2.8	19
45	Surface modification of beta-tricalcium phosphate scaffolds with topological nanoapatite coatings. <i>Materials Science and Engineering C</i> , 2008, 28, 1330-1339.	3.8	18
46	Synthesis and Characterization of Nanocomposite Powders Composed of Hydroxyapatite Nanoparticles and Wollastonite Nanowires. <i>International Journal of Applied Ceramic Technology</i> , 2010, 7, 178-183.	1.1	18
47	Copper containing silicocarnotite bioceramic with improved mechanical strength and antibacterial activity. <i>Materials Science and Engineering C</i> , 2021, 118, 111493.	3.8	18
48	Apatite formation on the surface of a Ti/HA composite in a simulated body fluid. <i>Journal of Materials Science Letters</i> , 2000, 19, 1243-1245.	0.5	16
49	Bioactive calcium phosphate silicate ceramic surface-modified PLGA for tendon-to-bone healing. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 164, 388-395.	2.5	16
50	NaBH <sub>4</sub> reduction of Ti Si O nanotubes photoanode for high-efficiency photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 14183-14192.	3.8	16
51	Gradient composite film with calcium phosphate silicate for improved tendon -to-Bone intergration. <i>Chemical Engineering Journal</i> , 2021, 404, 126473.	6.6	16
52	Study on antibacterial and fluoride-releasing properties of a novel composite resin with fluoride-doped nano-zirconia fillers. <i>Journal of Dentistry</i> , 2021, 113, 103772.	1.7	15
53	Î±-Fe <sub>2</sub> O <sub>3</sub> /Ti-Al-O composite photoanode for enhanced photoelectrochemical water splitting. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 196, 15-22.	1.7	14
54	Double-edged effects caused by magnesium ions and alkaline environment regulate bioactivities of magnesium-incorporated silicocarnotite in vitro. <i>International Journal of Energy Production and Management</i> , 2021, 8, rbab016.	1.9	12

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55	Preparation and Characterization of PLLA/CaSiO <sub>3</sub> /Apatite Composite Films. International Journal of Applied Ceramic Technology, 2012, 9, 133-142.	1.1	11
56	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
57	Fabrication of enamel-like structure on polymer-infiltrated zirconia ceramics. Dental Materials, 2021, 37, e245-e255.	1.6	11
58	Nonstoichiometric In <sub>2</sub> O <sub>3</sub> nanorods/black TiO <sub>2</sub> nanotubes heterojunction photoanode for high-efficiency photoelectrochemical water splitting. Solar Energy Materials and Solar Cells, 2016, 145, 382-390.	3.0	10
59	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
60	Fabrication of Poly-(DL-Lactic Acid)/Wollastonite Composite Films with Surface Modified $\beta$ -CaSiO <sub>3</sub> Particles. Journal of Biomaterials Applications, 2008, 22, 465-480.	1.2	9
61	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
62	Anodic growth of uniform nanotube arrays on biphasic Ti <sub>35</sub> Nb <sub>5</sub> Zr alloy. Electrochemistry Communications, 2010, 12, 152-155.	2.3	8
63	Porous Si <sub>3</sub> N <sub>4</sub> ceramics fabricated through a modified incomplete gelcasting and freeze-drying method. Ceramics International, 2017, 43, 14678-14682.	2.3	8
64	Biological Properties of Ti-Nb-Zr-O Nanostructures Grown on Ti <sub>35</sub> Nb <sub>5</sub> Zr Alloy. Journal of Nanomaterials, 2012, 2012, 1-7.	1.5	7
65	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
66	Effects of pore connectivity and microstructure on mechanical performance of ZrO <sub>2</sub> scaffolds and PMMA-infiltrated ZrO <sub>2</sub> composites. Journal of Alloys and Compounds, 2017, 728, 189-195.	2.8	7
67	Photoelectrochemical Water Splitting Properties of Ti-Ni-Si-O Nanostructures on Ti-Ni-Si Alloy. Nanomaterials, 2017, 7, 359.	1.9	7
68	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
69	Sintering properties of sol-gel derived lithium disilicate glass ceramics. Journal of Sol-Gel Science and Technology, 2018, 87, 372-379.	1.1	6
70	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
71	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
72	Biomaterials for Bone Tissue Engineering. , 2016, , 35-57.		4

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73	Mechanical Properties and Protein Adsorption of Ca <sub>5</sub> (PO <sub>4</sub> ) <sub>2</sub> SiO <sub>4</sub> Bioceramics Sintered from Solid State Reaction Derived Powders. Journal of Biomaterials and Tissue Engineering, 2015, 5, 162-168.	0.0	4
74	Anodic Fabrication of Ti-Nb-Zr-O Nanotube Arrays. Journal of Nanomaterials, 2014, 2014, 1-7.	1.5	3
75	Highly dense Ca <sub>5</sub> (PO <sub>4</sub> ) <sub>2</sub> SiO <sub>4</sub> bioceramics with ultrafine microstructure prepared by pressureless sintering. Ceramics International, 2019, 45, 23728-23733.	2.3	3
76	Sol-gel preparation of ZrO <sub>2</sub> -Li <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ceramics and their sintering properties. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 126, 105032.	1.5	3
77	Shape Memory Alloys and Their Medical Applications. , 2016, , 187-195.		1
78	Synthesis and Protein Adsorption of Calcium Silicate/Apatite Composite Powders. Journal of Biomaterials and Tissue Engineering, 2012, 2, 76-82.	0.0	1
79	Osteoimmune reaction caused by a novel silicocarnotite bioceramic promoting osteogenesis through the MAPK pathway. Biomaterials Science, 2022, 10, 2877-2891.	2.6	1
80	Fabrication and hydrogen sensing properties of doped titania nanotubes. , 2010, , .		0
81	Nacre-Like Calcium Carbonate Nanoarchitectures. Nanoscience and Nanotechnology Letters, 2011, 3, 446-450.	0.4	0
82	Anodic Replicas of Precipitates in Age-Hardening Ti Alloys. Nanoscience and Nanotechnology Letters, 2012, 4, 574-579.	0.4	0