

Cheng yun Ning

List of Publications by Year in Descending Order

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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.

123
papers

3,028
citations

29
h-index

49
g-index

129
ext. papers

3,987
ext. citations

7.3
avg, IF

5.42
L-index

#	Paper	IF	Citations
123	Dynamically modulated gating process of nanoporous membrane at sub-2-nm speed. <i>Matter</i> , 2022 , 5, 281-290	12.7	1
122	An injectable, self-healing, electroconductive extracellular matrix-based hydrogel for enhancing tissue repair after traumatic spinal cord injury. <i>Bioactive Materials</i> , 2022 , 7, 98-111	16.7	21
121	Tough and Highly Efficient Underwater Self-Repairing Hydrogels for Soft Electronics.. <i>Small Methods</i> , 2022 , e2101513	12.8	5
120	Exosomes-Loaded Electroconductive Hydrogel Synergistically Promotes Tissue Repair after Spinal Cord Injury via Immunoregulation and Enhancement of Myelinated Axon Growth.. <i>Advanced Science</i> , 2022 , e2105586	13.6	5
119	Characterization of Porous Titanium-Hydroxyapatite Composite Biological Coating on Polyetheretherketone (PEEK) by Vacuum Plasma Spraying. <i>Coatings</i> , 2022 , 12, 433	2.9	0
118	Wireless electrical stimulation at the nanoscale interface induces tumor vascular normalization.. <i>Bioactive Materials</i> , 2022 , 18, 399-408	16.7	5
117	Programmable biological state-switching photoelectric nanosheets for the treatment of infected wounds. <i>Materials Today Bio</i> , 2022 , 100292	9.9	1
116	Extracellular Matrix-Based Conductive Interpenetrating Network Hydrogels with Enhanced Neurovascular Regeneration Properties for Diabetic Wounds Repair. <i>Advanced Healthcare Materials</i> , 2021 , e2101556	10.1	9
115	Spiral Donor Design Strategy for Blue Thermally Activated Delayed Fluorescence Emitters. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5302-5311	9.5	32
114	Injectable Self-Healing Natural Biopolymer-Based Hydrogel Adhesive with Thermoresponsive Reversible Adhesion for Minimally Invasive Surgery. <i>Advanced Functional Materials</i> , 2021 , 31, 2007457	15.6	54
113	One-step construction of a food-grade expression system based on the URA3 gene in <i>Kluyveromyces lactis</i> . <i>Plasmid</i> , 2021 , 116, 102577	3.3	
112	Wearable sensors and devices for real-time cardiovascular disease monitoring. <i>Cell Reports Physical Science</i> , 2021 , 2, 100541	6.1	11
111	Exosome-functionalized polyetheretherketone-based implant with immunomodulatory property for enhancing osseointegration. <i>Bioactive Materials</i> , 2021 , 6, 2754-2766	16.7	26
110	Biomimetic Ti-6Al-4V alloy/gelatin methacrylate hybrid scaffold with enhanced osteogenic and angiogenic capabilities for large bone defect restoration. <i>Bioactive Materials</i> , 2021 , 6, 3437-3448	16.7	13
109	Self-curling electroconductive nerve dressing for enhancing peripheral nerve regeneration in diabetic rats. <i>Bioactive Materials</i> , 2021 , 6, 3892-3903	16.7	11
108	Ultrafast and On-Demand Oil/Water Separation Membrane System Based on Conducting Polymer Nanotip Arrays. <i>Nano Letters</i> , 2020 , 20, 4895-4900	11.5	15
107	Wireless Electrochemotherapy by Selenium-Doped Piezoelectric Biomaterials to Enhance Cancer Cell Apoptosis. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 34505-34513	9.5	11

106	Endogenous electric field as a bridge for antibacterial ion transport from implant to bacteria. <i>Science China Materials</i> , 2020 , 63, 1831-1841	7.1	3
105	Spider silk-inspired universal strategy: Directional patching of one-dimensional nanomaterial-based flexible transparent electrodes for smart flexible electronics. <i>Chemical Engineering Journal</i> , 2020 , 389, 123663	14.7	6
104	Latest research progress of marine microbiological corrosion and bio-fouling, and new approaches of marine anti-corrosion and anti-fouling. <i>Bioactive Materials</i> , 2019 , 4, 189-195	16.7	60
103	Elastomeric conductive hybrid hydrogels with continuous conductive networks. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 2389-2397	7.3	26
102	Inhibition of astrocytic differentiation of transplanted neural stem cells by chondroitin sulfate methacrylate hydrogels for the repair of injured spinal cord. <i>Biomaterials Science</i> , 2019 , 7, 1995-2008	7.4	22
101	Nanomaterials as photothermal therapeutic agents. <i>Progress in Materials Science</i> , 2019 , 99, 1-26	42.2	234
100	Polypyrrole Nanocones and Dynamic Piezoelectric Stimulation-Induced Stem Cell Osteogenic Differentiation. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 4386-4392	5.5	15
99	A spatially varying charge model for regulating site-selective protein adsorption and cell behaviors. <i>Biomaterials Science</i> , 2019 , 7, 876-888	7.4	9
98	A Tough and Self-Powered Hydrogel for Artificial Skin. <i>Chemistry of Materials</i> , 2019 , 31, 9850-9860	9.6	56
97	Antimicrobial Peptide Functionalized Conductive Nanowire Array Electrode as a Promising Candidate for Bacterial Environment Application. <i>Advanced Functional Materials</i> , 2019 , 29, 1806353	15.6	8
96	The antibacterial effect of potassium-sodium niobate ceramics based on controlling piezoelectric properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 175, 463-468	6	23
95	Regulation of osteoblast functions on titanium surfaces with different micro/nanotopographies and compositions. <i>Science China Technological Sciences</i> , 2019 , 62, 559-568	3.5	2
94	Construction of high surface potential polypyrrole nanorods with enhanced antibacterial properties. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 3128-3135	7.3	11
93	A built-in electric field with nanoscale distinction for cell behavior regulation. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 2723-2727	7.3	3
92	Tunable Mechanical, Antibacterial, and Cytocompatible Hydrogels Based on a Functionalized Dual Network of Metal Coordination Bonds and Covalent Crosslinking. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6190-6198	9.5	35
91	Conducting photopolymers on orthopedic implants having a switch of priority between promoting osteogenic and antibacterial activity. <i>Materials Horizons</i> , 2018 , 5, 545-552	14.4	16
90	Incorporating catechol into electroactive polypyrrole nanowires on titanium to promote hydroxyapatite formation. <i>Bioactive Materials</i> , 2018 , 3, 74-79	16.7	8
89	A Multifunctional Metallohydrogel with Injectability, Self-Healing, and Multistimulus-Responsiveness for Bioadhesives. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1800305	3.9	10

88	Electroactive polymers for tissue regeneration: Developments and perspectives. <i>Progress in Polymer Science</i> , 2018 , 81, 144-162	29.6	132
87	Large-scale functionalization of biomedical porous titanium scaffolds surface with TiO ₂ nanostructures. <i>Science China Materials</i> , 2018 , 61, 557-564	7.1	7
86	Effect of crystalline phase changes in titania (TiO) nanotube coatings on platelet adhesion and activation. <i>Materials Science and Engineering C</i> , 2018 , 82, 91-101	8.3	28
85	Soft Conducting Polymer Hydrogels Cross-Linked and Doped by Tannic Acid for Spinal Cord Injury Repair. <i>ACS Nano</i> , 2018 , 12, 10957-10967	16.7	146
84	Polydopamine-Assisted Immobilization of Copper Ions onto Hemodialysis Membranes for Antimicrobial.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 1236-1243	4.1	5
83	Electrically Reversible Redox-Switchable Polydopamine Films for Regulating Cell Behavior. <i>Electrochimica Acta</i> , 2017 , 228, 343-350	6.7	16
82	Directing Stem Cell Differentiation via Electrochemical Reversible Switching between Nanotubes and Nanotips of Polypyrrole Array. <i>ACS Nano</i> , 2017 , 11, 5915-5924	16.7	69
81	Corrosion behaviour of microarc-oxidised magnesium alloy in Earle's balanced salt solution. <i>Surface Innovations</i> , 2017 , 5, 43-53	1.9	8
80	Bone-Inspired Spatially Specific Piezoelectricity Induces Bone Regeneration. <i>Theranostics</i> , 2017 , 7, 3387-3397	32.9	44
79	In vitro study on the osteogenesis enhancement effect of BMP-2 incorporated biomimetic apatite coating on titanium surfaces. <i>Dental Materials Journal</i> , 2017 , 36, 677-685	2.5	9
78	Palladium nanoparticles entrapped in a self-supporting nanoporous gold wire as sensitive dopamine biosensor. <i>Scientific Reports</i> , 2017 , 7, 7941	4.9	27
77	Spatial charge manipulated set-selective apatite deposition on micropatterned piezoceramic. <i>RSC Advances</i> , 2017 , 7, 32974-32981	3.7	6
76	A Dual-Bonded Approach for Improving Hydrogel Implant Stability in Cartilage Defects. <i>Materials</i> , 2017 , 10,	3.5	11
75	Fabrication of Biocompatible Potassium Sodium Niobate Piezoelectric Ceramic as an Electroactive Implant. <i>Materials</i> , 2017 , 10,	3.5	29
74	Investigation of Radial Mesoporous Bioactive Glass Particles as Drug Carriers for Inhibition of Tumor Cells. <i>Science of Advanced Materials</i> , 2017 , 9, 562-570	2.3	6
73	Surface Wettability Switched Cell Adhesion and Detachment on Conducting Polymer Nanoarray. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600598	4.6	26
72	Effect of Amino-, Methyl- and Epoxy-Silane Coupling as a Molecular Bridge for Formatting a Biomimetic Hydroxyapatite Coating on Titanium by Electrochemical Deposition. <i>Journal of Materials Science and Technology</i> , 2016 , 32, 956-965	9.1	24
71	Fourth-generation biomedical materials. <i>Materials Today</i> , 2016 , 19, 2-3	21.8	49

70	Corrosion performance of MAO coatings on AZ31 Mg alloy in simulated body fluid vs. Earle's Balance Salt Solution. <i>Applied Surface Science</i> , 2016 , 363, 328-337	6.7	40
69	Corrosion behavior and mechanism of MAO coated Ti6Al4V with a grain-fined surface layer. <i>Journal of Alloys and Compounds</i> , 2016 , 664, 770-776	5.7	28
68	The mechanism of pH-induced polydopamine films surface protonation and cell adhesion behavior. <i>Scientia Sinica Chimica</i> , 2016 , 46, 373-381	1.6	2
67	Periodic Nanoneedle and Buffer Zones Constructed on a Titanium Surface Promote Osteogenic Differentiation and Bone Calcification In Vivo. <i>Advanced Healthcare Materials</i> , 2016 , 5, 364-72	10.1	14
66	Polarization of an electroactive functional film on titanium for inducing osteogenic differentiation. <i>Scientific Reports</i> , 2016 , 6, 35512	4.9	23
65	Ti nanorod arrays with a medium density significantly promote osteogenesis and osteointegration. <i>Scientific Reports</i> , 2016 , 6, 19047	4.9	12
64	Built-in microscale electrostatic fields induced by anatase-rutile-phase transition in selective areas promote osteogenesis. <i>NPG Asia Materials</i> , 2016 , 8,	10.3	26
63	Polydopamine-Assisted Electrochemical Fabrication of Polypyrrole Nanofibers on Bone Implants to Improve Bioactivity. <i>Macromolecular Materials and Engineering</i> , 2016 , 301, 1288-1294	3.9	20
62	Surface-Selective Preferential Production of Reactive Oxygen Species on Piezoelectric Ceramics for Bacterial Killing. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24306-9	9.5	38
61	Controllable Protein Adsorption and Bacterial Adhesion on Polypyrrole Nanocone Arrays. <i>Journal of Materials Science and Technology</i> , 2016 , 32, 950-955	9.1	8
60	Covalent Bonding of an Electroconductive Hydrogel to Gold-Coated Titanium Surfaces via Thiol-ene Click Chemistry. <i>Macromolecular Materials and Engineering</i> , 2016 , 301, 1423-1429	3.9	7
59	The synergistic antibacterial activity and mechanism of multicomponent metal ions-containing aqueous solutions against <i>Staphylococcus aureus</i> . <i>Journal of Inorganic Biochemistry</i> , 2016 , 163, 214-220	4.2	40
58	Osteogenic Differentiation: Periodic Nanoneedle and Buffer Zones Constructed on a Titanium Surface Promote Osteogenic Differentiation and Bone Calcification In Vivo (Adv. Healthcare Mater. 3/2016). <i>Advanced Healthcare Materials</i> , 2016 , 5, 300-300	10.1	
57	Magnesium with micro-arc oxidation coating and polymeric membrane: an in vitro study on microenvironment. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 147	4.5	8
56	Effect of thermal treatment on carbonated hydroxyapatite: Morphology, composition, crystal characteristics and solubility. <i>Ceramics International</i> , 2015 , 41, 6149-6157	5.1	41
55	Concentration ranges of antibacterial cations for showing the highest antibacterial efficacy but the least cytotoxicity against mammalian cells: implications for a new antibacterial mechanism. <i>Chemical Research in Toxicology</i> , 2015 , 28, 1815-22	4	127
54	Facile synthesis of mesoporous bioactive glasses with controlled shapes. <i>Materials Letters</i> , 2015 , 161, 605-608	3.3	22
53	Chondroitin sulphate-guided construction of polypyrrole nanoarchitectures. <i>Materials Science and Engineering C</i> , 2015 , 48, 172-8	8.3	10

52	Influence of Surrounding Cations on the Surface Degradation of Magnesium Alloy Implants under a Compressive Pressure. <i>Langmuir</i> , 2015 , 31, 13561-70	4	9
51	Highly Water-Dispersible, Highly Conductive, and Biocompatible Polypyrrole-Coated Silica Particles Stabilized and Doped by Chondroitin Sulfate. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 1068-1077	3.1	10
50	hMSCs bridging across micro-patterned grooves. <i>RSC Advances</i> , 2015 , 5, 47975-47982	3.7	5
49	Promoting Bone Mesenchymal Stem Cells and Inhibiting Bacterial Adhesion of Acid-Etched Nanostructured Titanium by Ultraviolet Functionalization. <i>Journal of Materials Science and Technology</i> , 2015 , 31, 182-190	9.1	17
48	Modification of biomaterials surface by mimetic cell membrane to improve biocompatibility. <i>Frontiers of Materials Science</i> , 2014 , 8, 325-331	2.5	11
47	Tuning nano-architectures and improving bioactivity of conducting polypyrrole coating on bone implants by incorporating bone-borne small molecules. <i>Journal of Materials Chemistry B</i> , 2014 , 2014, 7872-7876	7.3	14
46	Surface-dependent self-assembly of conducting polypyrrole nanotube arrays in template-free electrochemical polymerization. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 10946-51	9.5	22
45	Synthesis of radial mesoporous bioactive glass particles to deliver osteoactivin gene. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 7045-7054	7.3	39
44	Taurine-induced fabrication of nano-architected conducting polypyrrole on biomedical titanium. <i>Macromolecular Rapid Communications</i> , 2014 , 35, 574-8	4.8	14
43	Polymeric nanoarchitectures on Ti-based implants for antibacterial applications. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17323-45	9.5	71
42	Bio-inspired citrate functionalized apatite coating on rapid prototyped titanium scaffold. <i>Applied Surface Science</i> , 2014 , 313, 947-953	6.7	17
41	Facile synthesis of hollow mesoporous bioactive glass sub-micron spheres with a tunable cavity size. <i>Materials Letters</i> , 2014 , 134, 130-133	3.3	33
40	Ti nanorod arrays with periodic density fabricated via anodic technology. <i>Micro and Nano Letters</i> , 2014 , 9, 168-170	0.9	2
39	Biomimetic mineralization of anionic gelatin hydrogels: effect of degree of methacrylation. <i>RSC Advances</i> , 2014 , 4, 21997-22008	3.7	59
38	Cell-laden photocrosslinked GelMA-DexMA copolymer hydrogels with tunable mechanical properties for tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2014 , 25, 2173-83	4.5	55
37	Controlled oxidative nanopatterning of microrough titanium surfaces for improving osteogenic activity. <i>Journal of Materials Science: Materials in Medicine</i> , 2014 , 25, 1875-84	4.5	14
36	Protein Adsorption on Titanium Surface Functionalized with Bioactive Gelatin Methacrylate Hydrogel Coating. <i>Advanced Materials Research</i> , 2014 , 936, 663-668	0.5	1
35	Reversibly Controlling Preferential Protein Adsorption on Bone Implants by Using an Applied Weak Potential as a Switch. <i>Angewandte Chemie</i> , 2014 , 126, 13284-13288	3.6	7

34	Conducting Polypyrrole Nanotube Arrays as an Implant Surface: Fabricated on Biomedical Titanium with Fine-Tunability by Means of Template-Free Electrochemical Polymerization. <i>ChemPlusChem</i> , 2014 , 79, 524-530	2.8	6
33	Reversibly controlling preferential protein adsorption on bone implants by using an applied weak potential as a switch. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13068-72	16.4	35
32	Corrosion mechanism of micro-arc oxidation treated biocompatible AZ31 magnesium alloy in simulated body fluid. <i>Progress in Natural Science: Materials International</i> , 2014 , 24, 516-522	3.6	15
31	Long-term corrosion inhibition mechanism of microarc oxidation coated AZ31 Mg alloys for biomedical applications. <i>Materials & Design</i> , 2013 , 46, 66-75		65
30	Nanostructured PPy coating on titanium fabricated via template-free electrochemical polymerization in PBS. <i>Surface and Coatings Technology</i> , 2013 , 228, S41-S43	4.4	19
29	Effect of applied voltage on phase components of composite coatings prepared by micro-arc oxidation. <i>Thin Solid Films</i> , 2013 , 544, 79-82	2.2	18
28	Potential-induced reversible switching in the tubular structure of conducting polypyrrole nanotube arrays. <i>RSC Advances</i> , 2013 , 3, 14946	3.7	10
27	Micropatterned TiO nanotubes: fabrication, characterization and in vitro protein/cell responses. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 3506-3512	7.3	23
26	Micropatterned film with nano-porous sodium titanate structure fabricated via template-free direct laser irradiation technology: Characteristics and set-selective apatite deposition ability. <i>Surface and Coatings Technology</i> , 2013 , 235, 267-272	4.4	4
25	Microstructure, mechanical properties and wetting behavior of F: SiCN films as bio-mechanical coating grown by DC unbalanced magnetron sputtering. <i>Journal of Alloys and Compounds</i> , 2013 , 552, 111-118	5.7	2
24	Biomimetically-mineralized composite coatings on titanium functionalized with gelatin methacrylate hydrogels. <i>Applied Surface Science</i> , 2013 , 279, 293-299	6.7	50
23	Nanostructured conducting polymers as intelligent implant surface: fabricated on biomedical titanium with a potential-induced reversible switch in wettability. <i>ChemPhysChem</i> , 2013 , 14, 3891-4	3.2	18
22	Anodic formation of Ti nanorods with periodic length. <i>Electrochemistry Communications</i> , 2012 , 17, 14-17	5.1	15
21	Efficient and toxicity-free surface immobilization of nano-hydroxyapatite for bone-regenerative composite scaffolds by grafting polyvinyl pyrrolidone. <i>Materials Science and Engineering C</i> , 2012 , 32, 1032-1036	8.3	10
20	Effects of argon plasma treatment on surface characteristic of photopolymerization PEGDA/HEMA hydrogels. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 459-465	2.9	8
19	Effect of oxidation time on the corrosion behavior of micro-arc oxidation produced AZ31 magnesium alloys in simulated body fluid. <i>Journal of Alloys and Compounds</i> , 2012 , 543, 109-117	5.7	93
18	Corrosion mechanism and model of pulsed DC microarc oxidation treated AZ31 alloy in simulated body fluid. <i>Applied Surface Science</i> , 2012 , 258, 6116-6126	6.7	106
17	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

16	Nanostructure Transition on Anodic Titanium: Structure Control via a Competition Strategy between Electrochemical Oxidation and Chemical Etching. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22359-22364	3.8	20
15	Electrochemical behavior of biocompatible AZ31 magnesium alloy in simulated body fluid. <i>Journal of Materials Science</i> , 2012 , 47, 5197-5204	4.3	28
14	In vivo evaluation of novel amine-terminated nanopore Ti surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 3428-35	5.4	3
13	Preparation, characterization, and drug-release properties of PEG-DA-based copolymer hydrogel microspheres. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 3509-3516	2.9	9
12	Residual Stresses in Microarc Oxidation Ceramic Coatings on Biocompatible AZ31 Magnesium Alloys. <i>Journal of Materials Engineering and Performance</i> , 2012 , 21, 1085-1090	1.6	22
11	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
10	Preparation and characterization of APTES films on modification titanium by SAMs. <i>Thin Solid Films</i> , 2011 , 519, 4997-5001	2.2	50
9	Effect of Different Acid Treatment on Surface Characteristics of Titanium Alloy. <i>Materials Science Forum</i> , 2011 , 694, 490-496	0.4	3
8	Study on Surface Characterization and Properties of Three Dimensional Nano-Porous Titanium Film. <i>Key Engineering Materials</i> , 2011 , 492, 146-150	0.4	1
7	Preparation and properties of a cerium-containing hydroxyapatite coating on commercially pure titanium by micro-arc oxidation. <i>Rare Metals</i> , 2008 , 27, 257-260	5.5	19
6	In vitro mineralization of surface-modified porous polycaprolactone scaffolds in simulated body fluid. <i>Applied Surface Science</i> , 2008 , 255, 429-431	6.7	7
5	Hydroxyapatite coatings produced on commercially pure titanium by micro-arc oxidation. <i>Biomedical Materials (Bristol)</i> , 2007 , 2, 196-201	3.5	28
4	Frequency Effect on Electrochemical Characteristics of MAO Coated Magnesium Alloy in Simulated Body Fluid. <i>Ceramic Transactions</i> , 81-92	0.1	1
3	0D/1D Heterojunction Implant with Electro-Mechanobiological Coupling Cues Promotes Osteogenesis. <i>Advanced Functional Materials</i> , 2106249	15.6	7
2	The innovation of biomaterials: From bioactive to bioelectroactive. <i>Science China Materials</i> , 1	7.1	2
1	Near-Infrared Light-Activatable Bismuth-based Nanomaterials for Antibacterial and Antitumor Treatment. <i>Advanced Therapeutics</i> , 2200027	4.9	1