

Lu-Ning Wang

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.

61
papers

1,847
citations

22
h-index

42
g-index

63
ext. papers

2,494
ext. citations

7.3
avg, IF

5.25
L-index

#	Paper	IF	Citations
61	Bacterial anti-adhesion surface design: Surface patterning, roughness and wettability: A review. <i>Journal of Materials Science and Technology</i> , 2022 , 99, 82-100	9.1	10
60	Second phase refining induced optimization of Fe alloying in Zn: Significantly enhanced strengthening effect and corrosion uniformity. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022 , 29, 796-806	3.1	0
59	Organic semiconductor nanostructures: Optoelectronic properties, Modification strategy, and Photocatalytic Applications. <i>Journal of Materials Science and Technology</i> , 2021 ,	9.1	1
58	Improving the Mechanical Properties of Additively Manufactured Micro-Architected Biodegradable Metals. <i>Jom</i> , 2021 , 73, 4188	2.1	2
57	A double-crosslinked self-healing antibacterial hydrogel with enhanced mechanical performance for wound treatment. <i>Acta Biomaterialia</i> , 2021 , 124, 139-152	10.8	19
56	Structure/Property Control in Photocatalytic Organic Semiconductor Nanocrystals. <i>Advanced Functional Materials</i> , 2021 , 31, 2104099	15.6	9
55	Hierarchical microstructure and two-stage corrosion behavior of a high-performance near-eutectic Zn-Li alloy. <i>Journal of Materials Science and Technology</i> , 2021 , 80, 50-65	9.1	9
54	Development of a high-strength Zn-Mn-Mg alloy for ligament reconstruction fixation. <i>Acta Biomaterialia</i> , 2021 , 119, 485-498	10.8	9
53	Influence of bovine serum albumin on corrosion behaviour of pure Zn in phosphate buffered saline. <i>Journal of Materials Science: Materials in Medicine</i> , 2021 , 32, 95	4.5	2
52	Mechanism of Nitrogen-Doped TiC Quantum Dots for Free-Radical Scavenging and the Ultrasensitive HO Detection Performance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 42442-42450	8.5	5
51	Insight into role and mechanism of Li on the key aspects of biodegradable ZnLi alloys: Microstructure evolution, mechanical properties, corrosion behavior and cytotoxicity. <i>Materials Science and Engineering C</i> , 2020 , 114, 111049	8.3	18
50	Anodized metal oxide nanostructures for photoelectrochemical water splitting. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2020 , 27, 584-601	3.1	6
49	Enhancement in mechanical and corrosion resistance properties of a biodegradable Zn-Fe alloy through second phase refinement. <i>Materials Science and Engineering C</i> , 2020 , 116, 111197	8.3	18
48	Design biodegradable Zn alloys: Second phases and their significant influences on alloy properties. <i>Bioactive Materials</i> , 2020 , 5, 210-218	16.7	43
47	Mesenchymal Stem Cell-Laden Hydrogel Microfibers for Promoting Nerve Fiber Regeneration in Long-Distance Spinal Cord Transection Injury. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 1165-1175	5.5	15
46	A Novel Double-Crosslinking-Double-Network Design for Injectable Hydrogels with Enhanced Tissue Adhesion and Antibacterial Capability for Wound Treatment. <i>Advanced Functional Materials</i> , 2020 , 30, 1904156	15.6	112
45	Research on elastic recoil and restoration of vessel pulsatility of Zn-Cu biodegradable coronary stents. <i>Biomedizinische Technik</i> , 2020 , 65, 219-227	1.3	5

44	An ice-melting kinetic control strategy for highly photocatalytic organic nanocrystals. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25275-25282	13	2
43	Visible-light responsive organic nano-heterostructured photocatalysts for environmental remediation and H ₂ generation. <i>Journal of Materials Science and Technology</i> , 2020 , 38, 93-106	9.1	26
42	High-performance hot-warm rolled Zn-0.8Li alloy with nano-sized metastable precipitates and sub-micron grains for biodegradable stents. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 2618-2624	9.1	31
41	Hemocompatibility of biodegradable Zn-0.8 wt% (Cu, Mn, Li) alloys. <i>Materials Science and Engineering C</i> , 2019 , 104, 109896	8.3	29
40	Influences of albumin on in vitro corrosion of pure Zn in artificial plasma. <i>Corrosion Science</i> , 2019 , 153, 341-356	6.8	44
39	Fundamental Theory of Biodegradable Metals Definition, Criteria, and Design. <i>Advanced Functional Materials</i> , 2019 , 29, 1805402	15.6	111
38	Effects of Ag, Cu or Ca addition on microstructure and comprehensive properties of biodegradable Zn-0.8Mn alloy. <i>Materials Science and Engineering C</i> , 2019 , 99, 969-978	8.3	45
37	Long-term in vivo study of biodegradable Zn-Cu stent: A 2-year implantation evaluation in porcine coronary artery. <i>Acta Biomaterialia</i> , 2019 , 97, 657-670	10.8	46
36	Facile synthesis of bimodal macroporous g-C ₃ N ₄ /SnO ₂ nanohybrids with enhanced photocatalytic activity. <i>Science Bulletin</i> , 2019 , 64, 44-53	10.6	19
35	Insertion of peripherally inserted central catheters with intracavitary electrocardiogram guidance: A randomized multicenter study in China. <i>Journal of Vascular Access</i> , 2019 , 20, 524-529	1.8	18
34	Initial formation of corrosion products on pure zinc in saline solution. <i>Bioactive Materials</i> , 2019 , 4, 87-96	16.7	54
33	Highly Elastic and Ultratough Hybrid Ionic-Covalent Hydrogels with Tunable Structures and Mechanics. <i>Advanced Materials</i> , 2018 , 30, e1707071	24	199
32	Immobilization of tungsten disulfide nanosheets on active carbon fibers as electrode materials for high performance quasi-solid-state asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7835-7841	13	27
31	Progress in organic photocatalysts. <i>Rare Metals</i> , 2018 , 37, 1-12	5.5	29
30	A skin-like stretchable colorimetric temperature sensor. <i>Science China Materials</i> , 2018 , 61, 969-976	7.1	12
29	Hierarchically aligned fibrin nanofiber hydrogel accelerated axonal regrowth and locomotor function recovery in rat spinal cord injury. <i>International Journal of Nanomedicine</i> , 2018 , 13, 2883-2895	7.3	49
28	Effects of β Ray Irradiation on the Fatigue Strength, Thermal Conductivities and Thermal Stabilities of the Glass Fibres/Epoxy Resins Composites. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018 , 31, 105-112	2.5	5
27	Fabrication and characterization of novel biodegradable Zn-Mn-Cu alloys. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 1008-1015	9.1	49

26	Initial formation of corrosion products on pure zinc in simulated body fluid. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 2271-2282	9.1	50
25	Inorganic Nanotube/Organic Nanoparticle Hybrids for Enhanced Photoelectrochemical Properties. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 728-733	9.1	15
24	Defective MoS ₂ electrocatalyst for highly efficient hydrogen evolution through a simple ball-milling method. <i>Science China Materials</i> , 2017 , 60, 849-856	7.1	17
23	Fabrication and characterization of aligned fibrin nanofiber hydrogel loaded with PLGA microspheres. <i>Macromolecular Research</i> , 2017 , 25, 528-533	1.9	6
22	Regulation of RAW 264.7 macrophages behavior on anodic TiO ₂ nanotubular arrays. <i>Frontiers of Materials Science</i> , 2017 , 11, 318-327	2.5	9
21	A highly active molybdenum multisulfide electrocatalyst for the hydrogen evolution reaction. <i>RSC Advances</i> , 2016 , 6, 107158-107162	3.7	11
20	Fabrication and characterization of anodic oxide nanotubes on TiNb alloys. <i>Rare Metals</i> , 2016 , 35, 140-145	4.5	17
19	Facile fabrication of organic/inorganic nanotube heterojunction arrays for enhanced photoelectrochemical water splitting. <i>Nanoscale</i> , 2016 , 8, 13228-35	7.7	16
18	In situ plasmonic Ag nanoparticle anchored TiO ₂ nanotube arrays as visible-light-driven photocatalysts for enhanced water splitting. <i>Nanoscale</i> , 2016 , 8, 5226-34	7.7	208
17	Porphyrin-Based Nanostructures for Photocatalytic Applications. <i>Nanomaterials</i> , 2016 , 6,	5.4	109
16	Lithium-Ion Battery Cycling for Magnetism Control. <i>Nano Letters</i> , 2016 , 16, 583-7	11.5	54
15	Drug-nanoencapsulated PLGA microspheres prepared by emulsion electrospray with controlled release behavior. <i>International Journal of Energy Production and Management</i> , 2016 , 3, 309-317	5.3	22
14	Dual stimulus responsive drug release under the interaction of pH value and pulsatile electric field for a bacterial cellulose/sodium alginate/multi-walled carbon nanotube hybrid hydrogel. <i>RSC Advances</i> , 2015 , 5, 41820-41829	3.7	36
13	TiO ₂ -Based Nanomaterials: Design, Synthesis, and Applications. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-3	3.2	6
12	Immobilization of collagen peptide on dialdehyde bacterial cellulose nanofibers via covalent bonds for tissue engineering and regeneration. <i>International Journal of Nanomedicine</i> , 2015 , 10, 4623-37	7.3	24
11	Monolithic organic/inorganic ternary nanohybrids toward electron transfer cascade for enhanced visible-light photocatalysis. <i>RSC Advances</i> , 2015 , 5, 23174-23180	3.7	6
10	Controllable wettability and adhesion on bioinspired multifunctional TiO ₂ nanostructure surfaces for liquid manipulation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18531-18538	13	76
9	Microstructure and mechanical properties of spark plasma sintered Ti-Mo alloys for dental applications. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2014 , 21, 479-486	3.1	13

8	Electrochemical behavior of CoCrMo implant in Ringer's solution. <i>Surface and Interface Analysis</i> , 2013 , 45, 1323-1328	1.5	11
7	Enhancement of hydroxyapatite formation on anodic TiO ₂ nanotubular arrays via precalcification. <i>Journal of Porous Materials</i> , 2013 , 20, 183-190	2.4	5
6	Variation on wettability of anodic zirconium oxide nanotube surface. <i>Thin Solid Films</i> , 2013 , 531, 277-283.	2.2	8
5	Influence of albumin on the electrochemical behaviour of Zr in phosphate buffered saline solutions. <i>Journal of Materials Science: Materials in Medicine</i> , 2013 , 24, 295-305	4.5	10
4	Anodic TiO ₂ nanotubular arrays with pre-synthesized hydroxyapatite--an effective approach to enhance the biocompatibility of titanium. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 5316-26 ¹⁻³	1.3	5
3	Formation of Hydroxyapatite Coating on Anodic Titanium Dioxide Nanotubes via an Efficient Dipping Treatment. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 3255-3264	2.3	9
2	Enhancement of the capability of hydroxyapatite formation on Zr with anodic ZrO ₂ nanotubular arrays via an effective dipping pretreatment. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011 , 99, 291-301	3.5	15
1	Organic photocatalysts: From molecular to aggregate level. <i>Nano Research</i> , 1	10	1