

Lu-Ning Wang

List of Publications by Year in descending order

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62
papers

3,167
citations

172386

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155592

55
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docs citations

63
times ranked

3974
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Elastic and Ultratough Hybrid Ionic-Covalent Hydrogels with Tunable Structures and Mechanics. <i>Advanced Materials</i> , 2018, 30, e1707071.	11.1	306
2	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.	7.8	256
3	In situ plasmonic Ag nanoparticle anchored TiO ₂ nanotube arrays as visible-light-driven photocatalysts for enhanced water splitting. <i>Nanoscale</i> , 2016, 8, 5226-5234.	2.8	243
4	Fundamental Theory of Biodegradable Metals-Definition, Criteria, and Design. <i>Advanced Functional Materials</i> , 2019, 29, 1805402.	7.8	226
5	Porphyrin-Based Nanostructures for Photocatalytic Applications. <i>Nanomaterials</i> , 2016, 6, 51.	1.9	150
6	Bacterial anti-adhesion surface design: Surface patterning, roughness and wettability: A review. <i>Journal of Materials Science and Technology</i> , 2022, 99, 82-100.	5.6	119
7	Initial formation of corrosion products on pure zinc in saline solution. <i>Bioactive Materials</i> , 2019, 4, 87-96.	8.6	98
8	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.	3.8	86
9	Design biodegradable Zn alloys: Second phases and their significant influences on alloy properties. <i>Bioactive Materials</i> , 2020, 5, 210-218.	8.6	85
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.	5.2	84
11	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.	4.1	82
12	Initial formation of corrosion products on pure zinc in simulated body fluid. <i>Journal of Materials Science and Technology</i> , 2018, 34, 2271-2282.	5.6	79
13	Fabrication and characterization of novel biodegradable Zn-Mn-Cu alloys. <i>Journal of Materials Science and Technology</i> , 2018, 34, 1008-1015.	5.6	77
14	Hierarchically aligned fibrin nanofiber hydrogel accelerated axonal regrowth and locomotor function recovery in rat spinal cord injury. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 2883-2895.	3.3	77
15	Influences of albumin on in vitro corrosion of pure Zn in artificial plasma. <i>Corrosion Science</i> , 2019, 153, 341-356.	3.0	70
16	Lithium-Ion Battery Cycling for Magnetism Control. <i>Nano Letters</i> , 2016, 16, 583-587.	4.5	68
17	A double-crosslinked self-healing antibacterial hydrogel with enhanced mechanical performance for wound treatment. <i>Acta Biomaterialia</i> , 2021, 124, 139-152.	4.1	61
18	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.	5.6	59

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19	g-C3N4: Properties, Pore Modifications, and Photocatalytic Applications. <i>Nanomaterials</i> , 2022, 12, 121.	1.9	55
20	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.	1.7	47
21	Hemocompatibility of biodegradable Zn-0.8wt% (Cu, Mn, Li) alloys. <i>Materials Science and Engineering C</i> , 2019, 104, 109896.	3.8	46
22	Progress in organic photocatalysts. <i>Rare Metals</i> , 2018, 37, 1-12.	3.6	45
23	Insight into role and mechanism of Li on the key aspects of biodegradable Zn Li alloys: Microstructure evolution, mechanical properties, corrosion behavior and cytotoxicity. <i>Materials Science and Engineering C</i> , 2020, 114, 111049.	3.8	40
24	Development of a high-strength Zn-Mn-Mg alloy for ligament reconstruction fixation. <i>Acta Biomaterialia</i> , 2021, 119, 485-498.	4.1	40
25	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.	3.8	38
26	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.	5.2	37
27	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.	5.6	32
28	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.	2.6	32
29	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.	1.9	31
30	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.	5.6	31
31	Structure/Property Control in Photocatalytic Organic Semiconductor Nanocrystals. <i>Advanced Functional Materials</i> , 2021, 31, 2104099.	7.8	31
32	Mechanism of Nitrogen-Doped Ti ₃ C ₂ Quantum Dots for Free-Radical Scavenging and the Ultrasensitive H ₂ O ₂ Detection Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42442-42450.	4.0	30
33	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.	3.3	29
34	Facile synthesis of bimodal macroporous g-C ₃ N ₄ /SnO ₂ nano hybrids with enhanced photocatalytic activity. <i>Science Bulletin</i> , 2019, 64, 44-53.	4.3	29
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.	0.5	25
36	Defective MoS ₂ electrocatalyst for highly efficient hydrogen evolution through a simple ball-milling method. <i>Science China Materials</i> , 2017, 60, 849-856.	3.5	23

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37	Facile fabrication of organic/inorganic nanotube heterojunction arrays for enhanced photoelectrochemical water splitting. <i>Nanoscale</i> , 2016, 8, 13228-13235.	2.8	20
38	Inorganic Nanotube/Organic Nanoparticle Hybrids for Enhanced Photoelectrochemical Properties. <i>Journal of Materials Science and Technology</i> , 2017, 33, 728-733.	5.6	20
39	A skin-like stretchable colorimetric temperature sensor. <i>Science China Materials</i> , 2018, 61, 969-976.	3.5	20
40	Fabrication and characterization of anodic oxide nanotubes on TiNb alloys. <i>Rare Metals</i> , 2016, 35, 140-148.	3.6	19
41	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, 99B, 291-301.	1.6	17
42	Organic semiconductor nanostructures: optoelectronic properties, modification strategies, and photocatalytic applications. <i>Journal of Materials Science and Technology</i> , 2022, 113, 175-198.	5.6	15
43	Organic photocatalysts: From molecular to aggregate level. <i>Nano Research</i> , 2022, 15, 3835-3858.	5.8	15
44	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.	2.4	14
45	A highly active molybdenum multisulfide electrocatalyst for the hydrogen evolution reaction. <i>RSC Advances</i> , 2016, 6, 107158-107162.	1.7	14
46	Electrochemical behavior of CoCrMo implant in Ringer's solution. <i>Surface and Interface Analysis</i> , 2013, 45, 1323-1328.	0.8	11
47	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.	1.7	11
48	Regulation of RAW 264.7 macrophages behavior on anodic TiO ₂ nanotubular arrays. <i>Frontiers of Materials Science</i> , 2017, 11, 318-327.	1.1	11
49	Effects of ⁶⁰ Co-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.	1.5	11
50	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.	2.4	11
51	Anodized metal oxide nanostructures for photoelectrochemical water splitting. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2020, 27, 584-601.	2.4	10
52	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.	1.1	9
53	Variation on wettability of anodic zirconium oxide nanotube surface. <i>Thin Solid Films</i> , 2013, 531, 277-283.	0.8	9
54	Enhancement of hydroxyapatite formation on anodic TiO ₂ nanotubular arrays via precalcification. <i>Journal of Porous Materials</i> , 2013, 20, 183-190.	1.3	8

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55	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, 5316-5326.	0.9	8
56	Research on elastic recoil and restoration of vessel pulsatility of Zn-Cu biodegradable coronary stents. <i>Biomedizinische Technik</i> , 2020, 65, 219-227.	0.9	8
57	TiO ₂ -Based Nanomaterials: Design, Synthesis, and Applications. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-3.	1.5	7
58	An "ice-melting" kinetic control strategy for highly photocatalytic organic nanocrystals. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25275-25282.	5.2	7
59	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.	1.7	7
60	Monolithic organic/inorganic ternary nanohybrids toward electron transfer cascade for enhanced visible-light photocatalysis. <i>RSC Advances</i> , 2015, 5, 23174-23180.	1.7	6
61	Fabrication and characterization of aligned fibrin nanofiber hydrogel loaded with PLGA microspheres. <i>Macromolecular Research</i> , 2017, 25, 528-533.	1.0	6
62	Improving the Mechanical Properties of Additively Manufactured Micro-Architected Biodegradable Metals. <i>Jom</i> , 2021, 73, 4188-4198.	0.9	6