

# Gaowu

## List of Publications by Year in descending order

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82  
papers

2,625  
citations

218381

26  
h-index

205818

48  
g-index

86  
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86  
docs citations

86  
times ranked

2755  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Pre-Tensile Deformation on the Fatigue Fracture Behavior of Annealed 7005 Aluminum Alloy Plate. <i>Materials</i> , 2022, 15, 623.	1.3	0
2	Achieving high strength above 400 MPa in conventionally extruded Mg-Ca-Zn ternary alloys. <i>Science China Technological Sciences</i> , 2022, 65, 519-528.	2.0	9
3	A novel Ti-Au alloy with strong antibacterial properties and excellent biocompatibility for biomedical application. <i>Materials Science and Engineering C</i> , 2022, 133, 112653.	3.8	12
4	High-entropy-alloy nanoparticles with 21 ultra-mixed elements for efficient photothermal conversion. <i>National Science Review</i> , 2022, 9, .	4.6	31
5	Quinary High-Entropy Alloy@Graphite Nanocapsules with Tunable Interfacial Impedance Matching for Optimizing Microwave Absorption. <i>Small</i> , 2022, 18, e2107265.	5.2	60
6	Redetermination of the Fe-Pt phase diagram by using diffusion couple technique combined with key alloys. <i>International Journal of Materials Research</i> , 2022, 113, 428-439.	0.1	7
7	Investigation of interdiffusion behavior in the Ti-Zr-Cu ternary system. <i>International Journal of Materials Research</i> , 2022, 113, 381-390.	0.1	1
8	Effect of Post-Fabricated Aging on Microstructure and Mechanical Properties in Underwater Friction Stir Additive Manufacturing of Al-Zn-Mg-Cu Alloy. <i>Materials</i> , 2022, 15, 3368.	1.3	3
9	Low-cost and high-strength Mg-Al-Ca-Zn-Mn wrought alloy with balanced ductility. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022, 29, 1396-1405.	2.4	11
10	Wood-Derived Porous Carbon/Iron Oxide Nanoparticle Composites for Enhanced Electromagnetic Interference Shielding. <i>ACS Applied Nano Materials</i> , 2022, 5, 8537-8545.	2.4	15
11	Carbon-CeO <sub>2</sub> interface confinement enhances the chemical stability of Pt nanocatalyst for catalytic oxidation reactions. <i>Science China Materials</i> , 2021, 64, 128-136.	3.5	17
12	Position selective dielectric polarization enhancement in CNT based heterostructures for highly efficient microwave absorption. <i>Nanoscale</i> , 2021, 13, 2324-2332.	2.8	30
13	Sulfur-doped wood-derived porous carbon for optimizing electromagnetic response performance. <i>Nanoscale</i> , 2021, 13, 16084-16093.	2.8	6
14	Synchronous Growth of Porous MgO and Half-Embedded Nano-Ru on a Mg Plate: A Monolithic Catalyst for Fast Hydrogen Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3616-3623.	3.2	20
15	Development of novel lightweight and cost-effective Mg-Ce-Al wrought alloy with high strength. <i>Materials Research Letters</i> , 2021, 9, 329-335.	4.1	41
16	Floating Grain Formation and Macroseggregation in a 2024 Al Alloy Prepared by Hot-Top DC Casting with a 2024 Al Alloy Insert. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 3342-3352.	1.1	5
17	Correlating Strength and Hardness of High-Entropy Alloys. <i>Advanced Engineering Materials</i> , 2021, 23, 2001514.	1.6	23
18	The osteoimmunomodulatory effect of nanostructured TiF <sub>x</sub> /TiO <sub>x</sub> coating on osteogenesis induction. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 045041.	1.7	4

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19	Development of a low elastic modulus and antibacterial Ti-13Nb-13Zr-5Cu titanium alloy by microstructure controlling. <i>Materials Science and Engineering C</i> , 2021, 126, 112116.	3.8	23
20	Full-Electrical Writing and Reading of Magnetization States in a Magnetic Junction with Symmetrical Structure and Antiparallel Magnetic Configuration. <i>ACS Nano</i> , 2021, 15, 12213-12221.	7.3	7
21	Antibacterial metals and alloys for potential biomedical implants. <i>Bioactive Materials</i> , 2021, 6, 2569-2612.	8.6	283
22	Antibacterial effect of Ti Ag alloy motivated by Ag-containing phases. <i>Materials Science and Engineering C</i> , 2021, 128, 112266.	3.8	25
23	Interfacial antiferromagnetic coupling and high spin polarization in metallic phthalocyanines. <i>Physical Review B</i> , 2021, 103, .	1.1	7
24	Microstructure and Mechanical Properties of 6061 Al/AZ31 Mg Joints Friction Stir Lap Welded by a Tool with Variable-Pitch Thread Pin. <i>Metals</i> , 2021, 11, 34.	1.0	10
25	High-Entropy Alloy Nanoparticles with Enhanced Interband Transitions for Efficient Photothermal Conversion. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 27113-27118.	7.2	56
26	High-Entropy Alloy Nanoparticles with Enhanced Interband Transitions for Efficient Photothermal Conversion. <i>Angewandte Chemie</i> , 2021, 133, 27319-27324.	1.6	11
27	What controls the antibacterial activity of Ti-Ag alloy, Ag ion or Ti <sub>2</sub> Ag particles?. <i>Materials Science and Engineering C</i> , 2020, 109, 110548.	3.8	59
28	Mechanical performance and biocompatibility assessment of Zn-0.05wt%Mg-(0.5, 1 wt%) Ag alloys. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 2925-2936.	1.6	9
29	High and reversible spin polarization in a collinear antiferromagnet. <i>Applied Physics Reviews</i> , 2020, 7, .	5.5	10
30	Magnetic relaxation dependences on the central ions for Ln (Ln = Tb, Dy, Er) phthalocyanines. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	6
31	Magnesium in Combinatorial With Valproic Acid Suppressed the Proliferation and Migration of Human Bladder Cancer Cells. <i>Frontiers in Oncology</i> , 2020, 10, 589112.	1.3	11
32	Magnetic Modification and the Mechanism of Tb-Phthalocyanine Single Molecule Magnets Prepared by a High Yield Method. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 2112-2117.	1.0	8
33	Nanoscale nickel-iron nitride-derived efficient electrochemical oxygen evolution catalysts. <i>Catalysis Science and Technology</i> , 2020, 10, 4458-4466.	2.1	22
34	Enhanced high-frequency microwave absorption in core-shell nanocapsules with atomic-scale oxygen substitutions. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	7
35	A potential strategy for in-stent restenosis: Inhibition of migration and proliferation of vascular smooth muscle cells by Cu ion. <i>Materials Science and Engineering C</i> , 2020, 115, 111090.	3.8	9
36	Electrospinning synthesis of transition metal alloy nanoparticles encapsulated in nitrogen-doped carbon layers as an advanced bifunctional oxygen electrode. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7245-7252.	5.2	66

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37	Effect of extrusion temperature on mechanical properties of as-extruded Zn–22Al alloys. <i>Materials Science and Technology</i> , 2020, 36, 805-810.	0.8	2
38	Effect of ultrasonic micro-arc oxidation on the antibacterial properties and cell biocompatibility of Ti-Cu alloy for biomedical application. <i>Materials Science and Engineering C</i> , 2020, 115, 110921.	3.8	48
39	Control of Catalytic Activity of NanoAu through Tailoring the Fermi Level of Support. <i>Small</i> , 2019, 15, e1901789.	5.2	27
40	Screening alloy electrocatalysts by combining magnetron sputtering and scanning electrochemical microscopy. <i>Philosophical Magazine Letters</i> , 2019, 99, 185-191.	0.5	1
41	Effect of heat treatment on the bio-corrosion properties and wear resistance of antibacterial Co-29Cr-6Mo-xCu alloys. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 112.	1.7	5
42	Microstructural evolution of equal channel angular drawn purity titanium at room temperature. <i>Journal of Alloys and Compounds</i> , 2019, 811, 152002.	2.8	7
43	An <i>in situ</i> Bi-decorated BiOBr photocatalyst for synchronously treating multiple antibiotics in water. <i>Nanoscale Advances</i> , 2019, 1, 1124-1129.	2.2	60
44	Abnormal thermal stability of sub-10 nm Au nanoparticles and their high catalytic activity. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10980-10987.	5.2	35
45	<i>In situ</i> synthesis of Ni/NiO composites with defect-rich ultrathin nanosheets for highly efficient biomass-derivative selective hydrogenation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17834-17841.	5.2	33
46	Synergistic effects of carbon-encapsulated cobalt/tricobalt tetroxide nanocapsules on hydrogenation of 4-nitrophenol. <i>Functional Materials Letters</i> , 2019, 12, 1950059.	0.7	1
47	Shear-induced hexagonal close-packed to face-centered cubic phase transition in pure titanium processed by equal channel angular drawing. <i>Journal of Materials Science</i> , 2019, 54, 7953-7960.	1.7	14
48	In vivo antibacterial property of Ti-Cu sintered alloy implant. <i>Materials Science and Engineering C</i> , 2019, 100, 38-47.	3.8	59
49	Anti-bacterium influenced corrosion effect of antibacterial Ti-3Cu alloy in <i>Staphylococcus aureus</i> suspension for biomedical application. <i>Materials Science and Engineering C</i> , 2019, 94, 376-384.	3.8	37
50	New Structured Laves Phase in the Mg-In-Ca System with Nontranslational Symmetry and Two Unit Cells. <i>Physical Review Letters</i> , 2018, 120, 085701.	2.9	25
51	In vitro bioactivity, tribological property, and antibacterial ability of Ca–Si-based coatings doped with Cu particles in-situ fabricated by laser cladding. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	3
52	Photocatalytic degradation properties of $\text{Fe}_2\text{O}_3$ nanoparticles for dibutyl phthalate in aqueous solution system. <i>Royal Society Open Science</i> , 2018, 5, 172196.	1.1	29
53	Optimization of mechanical properties, biocorrosion properties and antibacterial properties of wrought Ti-3Cu alloy by heat treatment. <i>Bioactive Materials</i> , 2018, 3, 28-38.	8.6	55
54	Oxygen vacancy induced superior visible-light-driven photodegradation pollutant performance in BiOCl microflowers. <i>New Journal of Chemistry</i> , 2018, 42, 3614-3618.	1.4	35

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55	Tribocorrosion Behavior of Ti-Cu Alloy in Hank's Solution for Biomedical Application. Journal of Bio- and Tribo-Corrosion, 2018, 4, 1.	1.2	8
56	Structure and electrochemical properties of copper wires with seamless 1D nanostructures. Data in Brief, 2018, 17, 747-752.	0.5	1
57	Confining Gold Nanoclusters in Highly Defective Graphitic Layers To Enhance the Methanol Electrooxidation Reaction. ChemCatChem, 2018, 10, 141-147.	1.8	9
58	Unexpected magnetic coupling oscillations for $\text{Cu}/\text{MnO}_2$ films induced by quantum wells. Physical Review B, 2018, 97, .	1.4	2
59	Magnetoresistance Effect and the Applications for Organic Spin Valves Using Molecular Spacers. Materials, 2018, 11, 721.	1.3	14
60	Properties and Applications of the $\beta$ Phase Poly(vinylidene fluoride). Polymers, 2018, 10, 228.	2.0	462
61	Self-Assembly of Two Unit Cells into a Nanodomain Structure Containing Five-Fold Symmetry. Journal of Physical Chemistry Letters, 2018, 9, 4373-4378.	2.1	22
62	Facile fabrication of $\text{Fe}_2\text{O}_3/\text{Ag}_2\text{S}$ heterojunction with enhanced photoelectrochemical water splitting property. Journal of Nanoparticle Research, 2018, 20, 1.	0.8	4
63	Magnesium Alloys Strengthened by Nanosaucer Precipitates with Confined New Topologically Close-Packed Structure. Crystal Growth and Design, 2018, 18, 5866-5873.	1.4	14
64	Self-adapted clustering of solute atoms into a confined two-dimensional prismatic platelet with an ellipse-like quasi-unit cell. IUCr, 2018, 5, 823-829.	1.0	10
65	Effect of nano/micro-Ag compound particles on the bio-corrosion, antibacterial properties and cell biocompatibility of Ti-Ag alloys. Materials Science and Engineering C, 2017, 75, 906-917.	3.8	102
66	Room temperature magnetoresistance effects in ferroelectric poly(vinylidene fluoride) spin valves. Journal of Materials Chemistry C, 2017, 5, 5055-5062.	2.7	37
67	Microstructure and wear resistance of Ti-Cu-N composite coating prepared via laser cladding/laser nitriding technology on Ti-6Al-4V alloy. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	12
68	A graded nano-TiN coating on biomedical Ti alloy: Low friction coefficient, good bonding and biocompatibility. Materials Science and Engineering C, 2017, 71, 520-528.	3.8	86
69	High-Magnetization FeCo Nanochains with Ultrathin Interfacial Gaps for Broadband Electromagnetic Wave Absorption at Gigahertz. ACS Applied Materials & Interfaces, 2016, 8, 3494-3498.	4.0	152
70	Structural and morphological modulation of BiOCl visible-light photocatalyst prepared via an in situ oxidation synthesis. Chemical Research in Chinese Universities, 2016, 32, 338-342.	1.3	3
71	Formation of profuse $\text{Cu}$ dislocations in deformed calcium-containing magnesium alloys. Philosophical Magazine Letters, 2016, 96, 249-255.	0.5	14
72	Organic spin valves with poly(vinylidene fluoride) barriers. , 2016, , .		1

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73	Organic-inorganic hybrid spin valves with different organic spacers. , 2016, , .		0
74	Orientation modulated charge transport in hematite for photoelectrochemical water splitting. Functional Materials Letters, 2016, 09, 1650047.	0.7	14
75	Effect of Cu/Zn on microstructure and mechanical properties of extruded Mg-Sn alloys. Materials Science and Technology, 2016, 32, 1240-1248.	0.8	11
76	Gigahertz Dielectric Polarization of Substitutional Single Niobium Atoms in Defective Graphitic Layers. Physical Review Letters, 2015, 115, 147601.	2.9	101
77	BiOCl Hierarchical Nanoflowers with Superior Mixed-dye Photodegradation Activity. Chemistry Letters, 2015, 44, 1306-1308.	0.7	11
78	4d transition-metal doped hematite for enhancing photoelectrochemical activity: theoretical prediction and experimental confirmation. RSC Advances, 2015, 5, 19353-19361.	1.7	26
79	Fabrication of long-range ordered, broccoli-like SERS arrays and application in detecting endocrine disrupting chemicals. Journal of Materials Chemistry C, 2015, 3, 1309-1318.	2.7	45
80	A synergistic combination of diatomaceous earth with Au nanoparticles as a periodically ordered, button-like substrate for SERS analysis of the chemical composition of eccrine sweat in latent fingerprints. Journal of Materials Chemistry C, 2015, 3, 4933-4944.	2.7	30
81	Synthesis of small Fe <sub>2</sub> O <sub>3</sub> nanocubes and their enhanced water vapour adsorption-desorption properties. RSC Advances, 2015, 5, 84587-84591.	1.7	3
82	Fabrication of tunable Au SERS nanostructures by a versatile technique and application in detecting sodium cyclamate. RSC Advances, 2014, 4, 22660-22668.	1.7	15