

Zhong-Chang Wang

List of Publications by Year in descending order

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290
papers

10,530
citations

26567

56
h-index

54797

84
g-index

292
all docs

292
docs citations

292
times ranked

12507
citing authors

#	ARTICLE	IF	CITATIONS
1	Atom-resolved imaging of ordered defect superstructures at individual grain boundaries. <i>Nature</i> , 2011, 479, 380-383.	13.7	219
2	Merging of Kirkendall Growth and Ostwald Ripening: CuO@MnO ₂ Core-shell Architectures for Asymmetric Supercapacitors. <i>Scientific Reports</i> , 2014, 4, 4518.	1.6	219
3	Strategies towards the challenges of zinc metal anode in rechargeable aqueous zinc ion batteries. <i>Energy Storage Materials</i> , 2021, 35, 19-46.	9.5	212
4	Quasi-one-dimensional metal-oxide-based heterostructural gas-sensing materials: A review. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 1570-1585.	4.0	208
5	Growth of 2D GaN Single Crystals on Liquid Metals. <i>Journal of the American Chemical Society</i> , 2018, 140, 16392-16395.	6.6	183
6	Few-layer Bismuthene with Anisotropic Expansion for High-area Capacity Sodium-ion Batteries. <i>Advanced Materials</i> , 2019, 31, e1807874.	11.1	165
7	Recent Development and Future Perspectives of Amorphous Transition Metal-based Electrocatalysts for Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	158
8	Enhanced gas sensing properties by SnO ₂ nanosphere functionalized TiO ₂ nanobelts. <i>Journal of Materials Chemistry</i> , 2012, 22, 3544.	6.7	157
9	Geometrically Controlled Nanoporous PdAu Bimetallic Catalysts with Tunable Pd/Au Ratio for Direct Ethanol Fuel Cells. <i>ACS Catalysis</i> , 2013, 3, 1220-1230.	5.5	152
10	Gas-sensing performance enhancement in ZnO nanostructures by hierarchical morphology. <i>Sensors and Actuators B: Chemical</i> , 2012, 166-167, 492-499.	4.0	145
11	Ferromagnetic dislocations in antiferromagnetic NiO. <i>Nature Nanotechnology</i> , 2013, 8, 266-270.	15.6	145
12	Hierarchically structured diamond composite with exceptional toughness. <i>Nature</i> , 2020, 582, 370-374.	13.7	141
13	Selective Detection of Formaldehyde Gas Using a Cd-Doped TiO ₂ -SnO ₂ Sensor. <i>Sensors</i> , 2009, 9, 9029-9038.	2.1	137
14	Atomically dispersed nonmagnetic electron traps improve oxygen reduction activity of perovskite oxides. <i>Energy and Environmental Science</i> , 2021, 14, 1016-1028.	15.6	130
15	Strong Electronic Coupling between Ultrafine Iridium-Ruthenium Nanoclusters and Conductive, Acid-Stable Tellurium Nanoparticle Support for Efficient and Durable Oxygen Evolution in Acidic and Neutral Media. <i>ACS Catalysis</i> , 2020, 10, 3571-3579.	5.5	122
16	Molecular dynamics simulation of nanoindentation on Cu/Ni nanotwinned multilayer films using a spherical indenter. <i>Scientific Reports</i> , 2016, 6, 35665.	1.6	121
17	Regulating Infrared Photoresponses in Reduced Graphene Oxide Phototransistors by Defect and Atomic Structure Control. <i>ACS Nano</i> , 2013, 7, 6310-6320.	7.3	112
18	Atomic-scale structure and properties of highly stable antiphase boundary defects in Fe ₃ O ₄ . <i>Nature Communications</i> , 2014, 5, 5740.	5.8	112

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19	Growth-controlled NiCo ₂ S ₄ nanosheet arrays with self-decorated nanoneedles for high-performance pseudocapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17652-17658.	5.2	107
20	Self-Assembled Biomolecular 1D Nanostructures for Aqueous Sodium-Ion Battery. <i>Advanced Science</i> , 2018, 5, 1700634.	5.6	107
21	Nanosheet-assembled hierarchical SnO ₂ nanostructures for efficient gas-sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2016, 231, 120-128.	4.0	97
22	Magnetism and Optical Anisotropy in van der Waals Antiferromagnetic Insulator CrOCl. <i>ACS Nano</i> , 2019, 13, 11353-11362.	7.3	97
23	Activating Basal Planes of NiPS ₃ for Hydrogen Evolution by Nonmetal Heteroatom Doping. <i>Advanced Functional Materials</i> , 2020, 30, 1908708.	7.8	96
24	Sensitivity improvement of TiO ₂ -doped SnO ₂ to volatile organic compounds. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 43, 633-638.	1.3	95
25	Atomistic mechanisms of nonstoichiometry-induced twin boundary structural transformation in titanium dioxide. <i>Nature Communications</i> , 2015, 6, 7120.	5.8	90
26	Magnetolectric quasi-(0-3) nanocomposite heterostructures. <i>Nature Communications</i> , 2015, 6, 6680.	5.8	89
27	Phase Identification and Strong Second Harmonic Generation in Pure μ -InSe and Its Alloys. <i>Nano Letters</i> , 2019, 19, 2634-2640.	4.5	86
28	Polymorphism of dislocation core structures at the atomic scale. <i>Nature Communications</i> , 2014, 5, 3239.	5.8	85
29	Atomic-Scale Structure and Local Chemistry of CoFeB/MgO Magnetic Tunnel Junctions. <i>Nano Letters</i> , 2016, 16, 1530-1536.	4.5	85
30	Surface modified TiO ₂ floating photocatalyst with PDDA for efficient adsorption and photocatalytic inactivation of <i>Microcystis aeruginosa</i> . <i>Water Research</i> , 2018, 131, 320-333.	5.3	85
31	Fe-Doped ZnO/Reduced Graphene Oxide Nanocomposite with Synergic Enhanced Gas Sensing Performance for the Effective Detection of Formaldehyde. <i>ACS Omega</i> , 2019, 4, 10252-10262.	1.6	83
32	Hollow, porous, and yttrium functionalized ZnO nanospheres with enhanced gas-sensing performances. <i>Sensors and Actuators B: Chemical</i> , 2013, 178, 53-62.	4.0	82
33	Impact of solute elements on detwinning in magnesium and its alloys. <i>International Journal of Plasticity</i> , 2017, 91, 134-159.	4.1	81
34	Oxygen Adsorption on Anatase TiO ₂ (101) and (001) Surfaces from First Principles. <i>Materials Transactions</i> , 2010, 51, 171-175.	0.4	80
35	Enhanced damping capacity of magnesium alloys by tensile twin boundaries. <i>Scripta Materialia</i> , 2015, 101, 8-11.	2.6	80
36	Vanadium Doping Enhanced Electrochemical Performance of Molybdenum Oxide in Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1805227.	7.8	79

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37	Adsorption-photocatalysis functional expanded graphite C/C composite for in-situ photocatalytic inactivation of <i>Microcystis aeruginosa</i> . <i>Chemical Engineering Journal</i> , 2018, 341, 516-525.	6.6	78
38	Assembly of 2D nanosheets into 3D flower-like NiO: Synthesis and the influence of petal thickness on gas-sensing properties. <i>Ceramics International</i> , 2016, 42, 4567-4573.	2.3	74
39	In Situ Atomic-Scale Study of Particle-Mediated Nucleation and Growth in Amorphous Bismuth to Nanocrystal Phase Transformation. <i>Advanced Science</i> , 2018, 5, 1700992.	5.6	74
40	Improved piezoelectricity of PVDF-HFP/carbon black composite films. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 135302.	1.3	73
41	Hydrothermal synthesis and gas-sensing properties of ultrathin hexagonal ZnO nanosheets. <i>Ceramics International</i> , 2014, 40, 2295-2298.	2.3	73
42	A room-temperature magnetic semiconductor from a ferromagnetic metallic glass. <i>Nature Communications</i> , 2016, 7, 13497.	5.8	71
43	Dimensionality-driven insulator-metal transition in A-site excess non-stoichiometric perovskites. <i>Nature Communications</i> , 2010, 1, 106.	5.8	70
44	Effects of different petal thickness on gas sensing properties of flower-like WO ₃ -H ₂ O hierarchical architectures. <i>Applied Surface Science</i> , 2015, 347, 73-78.	3.1	70
45	Impact of Nb doping on gas-sensing performance of TiO ₂ thick-film sensors. <i>Sensors and Actuators B: Chemical</i> , 2012, 166-167, 141-149.	4.0	69
46	Molecular mechanics simulation of the sliding behavior between nested walls in a multi-walled carbon nanotube. <i>Carbon</i> , 2010, 48, 2934-2940.	5.4	67
47	Molecular dynamics simulation of plasticity in VN(001) crystals under nanoindentation with a spherical indenter. <i>Applied Surface Science</i> , 2017, 392, 942-949.	3.1	67
48	Interfacial optimization of PtNi octahedrons@Ti ₃ C ₂ MXene with enhanced alkaline hydrogen evolution activity and stability. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120100.	10.8	67
49	Misfit accommodation mechanism at the heterointerface between diamond and cubic boron nitride. <i>Nature Communications</i> , 2015, 6, 6327.	5.8	66
50	Hydrothermal synthesis of hierarchical flower-like SnO ₂ nanostructures with enhanced ethanol gas sensing properties. <i>Materials Research Bulletin</i> , 2014, 57, 91-96.	2.7	65
51	In-Plane Optical Anisotropy and Linear Dichroism in Low-Symmetry Layered TlSe. <i>ACS Nano</i> , 2018, 12, 8798-8807.	7.3	64
52	Ohmic contacts on silicon carbide: The first monolayer and its electronic effect. <i>Physical Review B</i> , 2009, 80, .	1.1	63
53	Pseudo-binary electrolyte, LiBH ₄ -LiCl, for bulk-type all-solid-state lithium-sulfur battery. <i>Nanotechnology</i> , 2015, 26, 254001.	1.3	63
54	Gas-sensing property improvement of ZnO by hierarchical flower-like architectures. <i>Materials Letters</i> , 2011, 65, 3384-3387.	1.3	62

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55	Molecular dynamics simulation of VN thin films under indentation. Applied Surface Science, 2015, 357, 643-650.	3.1	62
56	High-yield Electrochemical Production of Large-sized and Thinly Layered NiPS ₃ Flakes for Overall Water Splitting. Small, 2019, 15, e1902427.	5.2	62
57	Nanocomposite with fast Li ⁺ conducting percolation network: Solid polymer electrolyte with Li ⁺ non-conducting filler. Nano Energy, 2021, 79, 105475.	8.2	61
58	Regulating twin boundary mobility by annealing in magnesium and its alloys. International Journal of Plasticity, 2017, 99, 1-18.	4.1	59
59	Molecular dynamics simulation of effects of twin interfaces on Cu/Ni multilayers. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 658, 1-7.	2.6	58
60	Electrical conductivity optimization in electrolyte-free fuel cells by single-component Ce _{0.8} Sm _{0.2} O _{2-λ} /Li _{0.15} Ni _{0.45} Zn _{0.4} layer. RSC Advances, 2012, 2, 3828.	1.7	57
61	Electronic property and bonding configuration at the TiN(111)/VN(111) interface. Journal of Applied Physics, 2010, 108, .	1.1	56
62	Nonequilibrium Quantum Transport Properties of a Silver Atomic Switch. Nano Letters, 2007, 7, 2688-2692.	4.5	55
63	Modification of grain refinement and texture in AZ31 Mg alloy by a new plastic deformation method. Journal of Alloys and Compounds, 2015, 628, 130-134.	2.8	55
64	SiC/Ti ₃ SiC ₂ interface: Atomic structure, energetics, and bonding. Physical Review B, 2009, 79, .	1.1	53
65	Regulating the coarsening of the γ phase in superalloys. NPG Asia Materials, 2015, 7, e212-e212.	3.8	52
66	First-principles simulations on bulk Ta ₂ O ₅ and Cu/Ta ₂ O ₅ /Pt heterojunction: Electronic structures and transport properties. Journal of Applied Physics, 2009, 106, .	1.1	51
67	Synthesis and characterization of CeO ₂ nano-rods. Ceramics International, 2013, 39, 6607-6610.	2.3	51
68	Deformation and fracture behavior of hot extruded Mg alloys AZ31. Materials Characterization, 2012, 67, 93-100.	1.9	50
69	Improvement of the piezoelectric properties of PVDF-HFP using AgNWs. RSC Advances, 2014, 4, 35896-35903.	1.7	50
70	Atomic-scale structure and electronic property of the LaAlO ₃ /TiO ₂ interface. Journal of Applied Physics, 2010, 108, .	1.1	49
71	Recognition of carbon monoxide with SnO ₂ /Ti thick-film sensor and its gas-sensing mechanism. Sensors and Actuators B: Chemical, 2014, 191, 1-8.	4.0	49
72	Facile synthesis of groove-like NiMoO ₄ hollow nanorods for high-performance supercapacitors. Applied Surface Science, 2016, 360, 234-239.	3.1	49

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73	Synthesis of boron nitride nanosheets with a few atomic layers and their gas-sensing performance. <i>Ceramics International</i> , 2016, 42, 971-975.	2.3	48
74	Atomistic origin of an ordered superstructure induced superconductivity in layered chalcogenides. <i>Nature Communications</i> , 2015, 6, 6091.	5.8	47
75	Molecular dynamics simulation of TiN (001) thin films under indentation. <i>Ceramics International</i> , 2015, 41, 14078-14086.	2.3	47
76	Excess-silver-induced bridge formation in a silver sulfide atomic switch. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	46
77	A₂-Site-Doping Enhanced B₂-Site Ordering and Correlated Magnetic Property in La₂Bi₆CoMnO₆. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16841-16847.	1.5	46
78	Air-Induced Degradation and Electrochemical Regeneration for the Performance of Layered Ni-Rich Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44036-44045.	4.0	45
79	Ultrafine oxygen-defective iridium oxide nanoclusters for efficient and durable water oxidation at high current densities in acidic media. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24743-24751.	5.2	45
80	MD simulation of nanoindentation on (001) and (111) surfaces of Ag⁺Ni multilayers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 74, 481-488.	1.3	43
81	Bulk metallic glassy surface native oxide: Its atomic structure, growth rate and electrical properties. <i>Acta Materialia</i> , 2015, 97, 282-290.	3.8	43
82	Molecular dynamics simulation of deformation twin in rocksalt vanadium nitride. <i>Journal of Alloys and Compounds</i> , 2016, 675, 128-133.	2.8	43
83	The effect of nanoquasicrystals on mechanical properties of as-extruded Mg⁺Zn⁺Gd alloy. <i>Materials Letters</i> , 2012, 79, 281-283.	1.3	42
84	Ultrahigh Oxidation Resistance and High Electrical Conductivity in Copper-Silver Powder. <i>Scientific Reports</i> , 2016, 6, 39650.	1.6	42
85	Point defects in two-dimensional hexagonal boron nitride: A perspective. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	42
86	A highly efficient TiOX (X= N and P) photocatalyst for inactivation of <i>Microcystis aeruginosa</i> under visible light irradiation. <i>Separation and Purification Technology</i> , 2019, 222, 99-108.	3.9	41
87	Realizing Few-Layer Iodine for High-Rate Sodium-Ion Batteries. <i>Advanced Materials</i> , 2020, 32, e2004835.	11.1	41
88	Two-dimensional electron gas at the Ti-diffused BiFeO₃/SrTiO₃ interface. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	38
89	Carbon-based catalysts by structural manipulation with iron for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8405-8412.	5.2	38
90	Research on Biodegradable Mg⁺Zn⁺Gd Alloys for Potential Orthopedic Implants: In Vitro and in Vivo Evaluations. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 1623-1634.	2.6	38

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91	Room temperature magnetoresistance effects in ferroelectric poly(vinylidene fluoride) spin valves. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5055-5062.	2.7	37
92	Nanoscale precipitations in deformed dilute alloying Mg-Zn-Gd alloy. <i>Materials and Design</i> , 2020, 196, 109122.	3.3	36
93	Low-temperature and high-rate sodium metal batteries enabled by electrolyte chemistry. <i>Energy Storage Materials</i> , 2022, 50, 47-54.	9.5	36
94	UV Light Activation of TiO ₂ -Doped SnO ₂ Thick Film for Sensing Ethanol at Room Temperature. <i>Materials Transactions</i> , 2010, 51, 243-245.	0.4	35
95	Molecular dynamics simulation of nano-indentation of (111) cubic boron nitride with optimized Tersoff potential. <i>Applied Surface Science</i> , 2016, 382, 309-315.	3.1	35
96	Inverted Pyramid Textured p-Silicon Covered with Co ₂ P as an Efficient and Stable Solar Hydrogen Evolution Photocathode. <i>ACS Energy Letters</i> , 2019, 4, 1755-1762.	8.8	35
97	Highly Sensitive Polarization Photodetection Using a Pseudo-One-Dimensional Nb _x Ti _x S ₃ Alloy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3342-3350.	4.0	35
98	Tensile and fracture process of the TiN/VN interface from first principles. <i>Ceramics International</i> , 2014, 40, 14453-14462.	2.3	34
99	Gas-sensing properties and mechanisms of Cu-doped SnO ₂ spheres towards H ₂ S. <i>Ceramics International</i> , 2016, 42, 10006-10013.	2.3	34
100	Strain rate dependence of tension and compression behavior in nano-polycrystalline vanadium nitride. <i>Ceramics International</i> , 2017, 43, 11635-11641.	2.3	34
101	<i>In Situ</i> Atomic-Scale Observation of Droplet Coalescence Driven Nucleation and Growth at Liquid/Solid Interfaces. <i>ACS Nano</i> , 2017, 11, 5590-5597.	7.3	34
102	Universal growth of ultra-thin III-V semiconductor single crystals. <i>Nature Communications</i> , 2020, 11, 3979.	5.8	34
103	Facile fabrication of novel Ti ₃ C ₂ T _x -supported fallen leaf-like Bi ₂ S ₃ nanopieces by a combined local-repulsion and macroscopic attraction strategy with enhanced symmetrical supercapacitor performance. <i>Electrochimica Acta</i> , 2021, 366, 137406.	2.6	34
104	Three-dimensional graphene and its composite for gas sensors. <i>Rare Metals</i> , 2021, 40, 1494-1514.	3.6	34
105	Effect of Twinning Behavior on Dynamic Recrystallization During Extrusion of AZ31Mg Alloy. <i>Jom</i> , 2019, 71, 1566-1573.	0.9	31
106	In-situ active formation of carbides coated with NP TiO ₂ nanoparticles for efficient adsorption-photocatalytic inactivation of harmful algae in eutrophic water. <i>Chemosphere</i> , 2019, 228, 351-359.	4.2	31
107	Carbon free silicon/polyaniline hybrid anodes with 3D conductive structures for superior lithium-ion batteries. <i>Chemical Communications</i> , 2020, 56, 2328-2331.	2.2	31
108	Growth and Microstructure of Epitaxial Ti ₃ SiC ₂ Contact Layers on SiC. <i>Materials Transactions</i> , 2009, 50, 1071-1075.	0.4	30

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109	Facile synthesis of ceria nanospheres by Ce(OH)CO ₃ precursors. <i>Materials Letters</i> , 2014, 122, 90-93.	1.3	30
110	Molecular dynamics simulation of the slip systems in VN. <i>RSC Advances</i> , 2015, 5, 77831-77838.	1.7	30
111	Atomic motion in Mg ₃ Al ₁ Zn during twinning deformation. <i>Scripta Materialia</i> , 2010, 62, 556-559.	2.6	29
112	Controllable Synthesis of Ceria Nanoparticles with Uniform Reactive {100} Exposure Planes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4437-4443.	1.5	29
113	Fabrication of ultra-high strength magnesium alloys over 540 MPa with low alloying concentration by double continuously extrusion. <i>Journal of Magnesium and Alloys</i> , 2018, 6, 107-113.	5.5	29
114	Strengthening and toughening by partial slip in nanotwinned diamond. <i>Carbon</i> , 2019, 150, 1-7.	5.4	29
115	Ultrathin high- κ antimony oxide single crystals. <i>Nature Communications</i> , 2020, 11, 2502.	5.8	29
116	A high-voltage and high-capacity Ti ₃ C ₂ T _x /BiCuS _{2.5} heterostructure to boost up the energy density and recyclability of zinc-ion-hybrid capacitors. <i>Nano Energy</i> , 2021, 87, 106136.	8.2	28
117	Atomic-Scale Observation of Migration and Coalescence of Au Nanoclusters on YSZ Surface by Aberration-Corrected STEM. <i>Scientific Reports</i> , 2014, 4, 5521.	1.6	27
118	First-principles calculations of the twin boundary energies and adhesion energies of interfaces for cubic face-centered transition-metal nitrides and carbides. <i>Applied Surface Science</i> , 2015, 355, 1132-1135.	3.1	27
119	Enhancing ethanol detection by heterostructural silver nanoparticles decorated polycrystalline zinc oxide nanosheets. <i>Ceramics International</i> , 2016, 42, 3138-3144.	2.3	27
120	In Situ Atomic-Scale Observation of Kinetic Pathways of Sublimation in Silver Nanoparticles. <i>Advanced Science</i> , 2019, 6, 1802131.	5.6	27
121	Migration of Ag in low-temperature Ag ₂ S from first principles. <i>Journal of Chemical Physics</i> , 2008, 128, 014704.	1.2	26
122	Rapid selective detection of formaldehyde by hollow ZnSnO ₃ nanocages. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 48, 46-52.	1.3	26
123	Fluorine in Shark Teeth: Its Direct Atomic-Resolution Imaging and Strengthening Function. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1543-1547.	7.2	26
124	A Single-Atom-Thick TiO ₂ Nanomesh on an Insulating Oxide. <i>ACS Nano</i> , 2015, 9, 8766-8772.	7.3	26
125	Ultrafine-Grained Porous Ir-Based Catalysts for High-Performance Overall Water Splitting in Acidic Media. <i>ACS Applied Energy Materials</i> , 2020, 3, 3736-3744.	2.5	26
126	Impurity-induced ferromagnetism and metallicity of WS ₂ monolayer. <i>Ceramics International</i> , 2016, 42, 2364-2369.	2.3	25

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127	Boosting acidic water oxidation performance by constructing arrays-like nanoporous IrxRu1-xO2 with abundant atomic steps. Nano Research, 2022, 15, 5933-5939.	5.8	25
128	Effect of the sheet thickness of hierarchical SnO 2 on the gas sensing performance. Applied Surface Science, 2015, 355, 631-637.	3.1	24
129	Synthesis, characterization and frictional wear behavior of ceria hybrid architectures with {111} exposure planes. Applied Surface Science, 2017, 401, 100-105.	3.1	24
130	Interface Atomic-Scale Structure and its Impact on Quantum Electron Transport. Advanced Materials, 2009, 21, 4966-4969.	11.1	23
131	Excellent mechanical properties of an ultrafine-grained quasicrystalline strengthened magnesium alloy with multi-modal microstructure. Materials Letters, 2013, 107, 181-184.	1.3	23
132	A dislocation core in titanium dioxide and its electronic structure. RSC Advances, 2015, 5, 18506-18510.	1.7	23
133	First-principles calculation and molecular dynamics simulation of fracture behavior of VN layers under uniaxial tension. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 69, 224-231.	1.3	23
134	AgAl alloy electrode for efficient perovskite solar cells. RSC Advances, 2015, 5, 56037-56044.	1.7	23
135	Spin conserved electron transport behaviors in fullerenes (C60 and C70) spin valves. Carbon, 2016, 106, 202-207.	5.4	23
136	Plasma tailoring in WTe2 nanosheets for efficiently boosting hydrogen evolution reaction. Journal of Materials Science and Technology, 2021, 78, 170-175.	5.6	23
137	Impact of residual stress on the adhesion and tensile fracture of TiN/CrN multi-layered coatings from first principles. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 1838-1845.	1.3	22
138	Effect of Icosahedral Quasicrystalline Fraction and Extrusion Ratio on Microstructure, Mechanical Properties, and Anisotropy of Mg-Zn-Gd-Based Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 2725-2734.	1.1	22
139	Atomic-scale observation of dynamical fluctuation and three-dimensional structure of gold clusters. Journal of Applied Physics, 2015, 117, .	1.1	22
140	MD simulation of effect of crystal orientations and substrate temperature on growth of Cu/Ni bilayer films. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	22
141	Direct Atomic-Scale Observation of Intermediate Pathways of Melting and Crystallization in Supported Bi Nanoparticles. Journal of Physical Chemistry Letters, 2018, 9, 961-969.	2.1	22
142	Competing Interface and Bulk Effect-Driven Magnetoelectric Coupling in Vertically Aligned Nanocomposites. Advanced Science, 2019, 6, 1901000.	5.6	22
143	Nanowire Quantum Dot Surface Engineering for High Temperature Single Photon Emission. ACS Nano, 2019, 13, 13492-13500.	7.3	22
144	An Atomically Thin Air-Stable Narrow-Gap Semiconductor Cr₂S₃ for Broadband Photodetection with High Responsivity. Advanced Electronic Materials, 2021, 7, 2000962.	2.6	22

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145	Strain control of orbital polarization and correlated metal-insulator transition in La ₂ CoMnO ₆ from first principles. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	21
146	Microstructures and grain boundaries of cubic boron nitrides. <i>Diamond and Related Materials</i> , 2013, 32, 27-31.	1.8	21
147	Engineering one-dimensional and two-dimensional birnessite manganese dioxides on nickel foam-supported cobalt-aluminum layered double hydroxides for advanced binder-free supercapacitors. <i>RSC Advances</i> , 2014, 4, 63901-63908.	1.7	21
148	Formation mechanism of quasicrystals at the nanoscale during hot compression of Mg alloys. <i>Scripta Materialia</i> , 2014, 78-79, 61-64.	2.6	21
149	Template effect in TiN/AlN multilayered coatings from first principles. <i>Ceramics International</i> , 2015, 41, 10095-10101.	2.3	21
150	MD simulation of growth of Pd on Cu (1 1 1) and Cu on Pd (1 1 1) substrates. <i>Applied Surface Science</i> , 2015, 356, 651-658.	3.1	21
151	Planar Vacancies in Sn _{1-x} Bi _x Te Nanoribbons. <i>ACS Nano</i> , 2016, 10, 5507-5515.	7.3	21
152	CeO _x /TiO ₂ -yF _y nanocomposite: An efficient electron and oxygen tuning mechanism for photocatalytic inactivation of water-bloom algae. <i>Ceramics International</i> , 2018, 44, 19151-19159.	2.3	21
153	Strain-induced Band-Gap Tuning of 2D SnS ₂ Flakes for Application in Flexible Sensors. <i>Advanced Materials Technologies</i> , 2020, 5, 1900853.	3.0	21
154	A novel "butter-sandwich" Ti ₃ C ₂ T _x /PANI/PPY electrode with enhanced adsorption capacity and recyclability toward asymmetric capacitive deionization. <i>Separation and Purification Technology</i> , 2021, 276, 119379.	3.9	21
155	Recent progress and strategies in photodetectors based on 2D inorganic/organic heterostructures. <i>2D Materials</i> , 2021, 8, 012001.	2.0	21
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