

Zhong-Chang Wang

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287
papers

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h-index

70
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292
ext. papers

9,096
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
287	Merging of Kirkendall growth and Ostwald ripening: CuO@MnO ₂ core-shell architectures for asymmetric supercapacitors. <i>Scientific Reports</i> , 2014 , 4, 4518	4.9	199
286	Atom-resolved imaging of ordered defect superstructures at individual grain boundaries. <i>Nature</i> , 2011 , 479, 380-3	50.4	194
285	Quasi-one-dimensional metal-oxide-based heterostructural gas-sensing materials: A review. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 1570-1585	8.5	171
284	Enhanced gas sensing properties by SnO ₂ nanosphere functionalized TiO ₂ nanobelts. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3544		152
283	Geometrically Controlled Nanoporous PdAu Bimetallic Catalysts with Tunable Pd/Au Ratio for Direct Ethanol Fuel Cells. <i>ACS Catalysis</i> , 2013 , 3, 1220-1230	13.1	129
282	Gas-sensing performance enhancement in ZnO nanostructures by hierarchical morphology. <i>Sensors and Actuators B: Chemical</i> , 2012 , 166-167, 492-499	8.5	128
281	Selective Detection of Formaldehyde Gas Using a Cd-Doped TiO ₂ -SnO ₂ Sensor. <i>Sensors</i> , 2009 , 9, 9029-38	3.38	121
280	Growth of 2D GaN Single Crystals on Liquid Metals. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16392-16395	16.4	110
279	Ferromagnetic dislocations in antiferromagnetic NiO. <i>Nature Nanotechnology</i> , 2013 , 8, 266-70	28.7	104
278	Few-Layer Bismuthene with Anisotropic Expansion for High-Areal-Capacity Sodium-Ion Batteries. <i>Advanced Materials</i> , 2019 , 31, e1807874	24	98
277	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	13	97
276	Molecular dynamics simulation of nanoindentation on Cu/Ni nanotwinned multilayer films using a spherical indenter. <i>Scientific Reports</i> , 2016 , 6, 35665	4.9	91
275	Regulating infrared photoresponses in reduced graphene oxide phototransistors by defect and atomic structure control. <i>ACS Nano</i> , 2013 , 7, 6310-20	16.7	89
274	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	3	87
273	Atomic-scale structure and properties of highly stable antiphase boundary defects in FeO. <i>Nature Communications</i> , 2014 , 5, 5740	17.4	86
272	Self-Assembled Biomolecular 1D Nanostructures for Aqueous Sodium-Ion Battery. <i>Advanced Science</i> , 2018 , 5, 1700634	13.6	82
271	Nanosheet-assembled hierarchical SnO ₂ nanostructures for efficient gas-sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2016 , 231, 120-128	8.5	79

270	Silver Nanoparticles: In Situ Atomic-Scale Observation of Kinetic Pathways of Sublimation in Silver Nanoparticles (Adv. Sci. 8/2019). <i>Advanced Science</i> , 2019 , 6, 1970049	13.6	78
269	Polymorphism of dislocation core structures at the atomic scale. <i>Nature Communications</i> , 2014 , 5, 3239	17.4	78
268	Atomistic mechanisms of nonstoichiometry-induced twin boundary structural transformation in titanium dioxide. <i>Nature Communications</i> , 2015 , 6, 7120	17.4	77
267	Magnetoelectric quasi-(0-3) nanocomposite heterostructures. <i>Nature Communications</i> , 2015 , 6, 6680	17.4	77
266	Hollow, porous, and yttrium functionalized ZnO nanospheres with enhanced gas-sensing performances. <i>Sensors and Actuators B: Chemical</i> , 2013 , 178, 53-62	8.5	72
265	Oxygen Adsorption on Anatase TiO ₂ (101) and (001) Surfaces from First Principles. <i>Materials Transactions</i> , 2010 , 51, 171-175	1.3	70
264	Atomic-Scale Structure and Local Chemistry of CoFeB-MgO Magnetic Tunnel Junctions. <i>Nano Letters</i> , 2016 , 16, 1530-6	11.5	69
263	Strategies towards the challenges of zinc metal anode in rechargeable aqueous zinc ion batteries. <i>Energy Storage Materials</i> , 2021 , 35, 19-46	19.4	68
262	Enhanced damping capacity of magnesium alloys by tensile twin boundaries. <i>Scripta Materialia</i> , 2015 , 101, 8-11	5.6	65
261	Impact of solute elements on detwinning in magnesium and its alloys. <i>International Journal of Plasticity</i> , 2017 , 91, 134-159	7.6	64
260	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	5.1	63
259	Dimensionality-driven insulator-metal transition in A-site excess non-stoichiometric perovskites. <i>Nature Communications</i> , 2010 , 1, 106	17.4	63
258	Hydrothermal synthesis and gas-sensing properties of ultrathin hexagonal ZnO nanosheets. <i>Ceramics International</i> , 2014 , 40, 2295-2298	5.1	62
257	Hydrothermal synthesis of hierarchical flower-like SnO ₂ nanostructures with enhanced ethanol gas sensing properties. <i>Materials Research Bulletin</i> , 2014 , 57, 91-96	5.1	62
256	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	6.7	60
255	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	8.5	60
254	Hierarchically structured diamond composite with exceptional toughness. <i>Nature</i> , 2020 , 582, 370-374	50.4	59
253	Molecular dynamics simulation of VN thin films under indentation. <i>Applied Surface Science</i> , 2015 , 357, 643-650	6.7	58

252	Molecular mechanics simulation of the sliding behavior between nested walls in a multi-walled carbon nanotube. <i>Carbon</i> , 2010 , 48, 2934-2940	10.4	58
251	Gas-sensing property improvement of ZnO by hierarchical flower-like architectures. <i>Materials Letters</i> , 2011 , 65, 3384-3387	3.3	57
250	Surface modified TiO floating photocatalyst with PDDA for efficient adsorption and photocatalytic inactivation of <i>Microcystis aeruginosa</i> . <i>Water Research</i> , 2018 , 131, 320-333	12.5	55
249	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	13.1	54
248	Misfit accommodation mechanism at the heterointerface between diamond and cubic boron nitride. <i>Nature Communications</i> , 2015 , 6, 6327	17.4	54
247	Improved piezoelectricity of PVDF-HFP/carbon black composite films. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 135302	3	54
246	Ohmic contacts on silicon carbide: The first monolayer and its electronic effect. <i>Physical Review B</i> , 2009 , 80,	3.3	54
245	Electrical conductivity optimization in electrolyte-free fuel cells by single-component Ce _{0.8} Sm _{0.2} O ₂ -Ti _{0.15} Ni _{0.45} Zn _{0.4} layer. <i>RSC Advances</i> , 2012 , 2, 3828	3.7	53
244	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	13.6	52
243	Molecular dynamics simulation of plasticity in VN(001) crystals under nanoindentation with a spherical indenter. <i>Applied Surface Science</i> , 2017 , 392, 942-949	6.7	52
242	Activating Basal Planes of NiPS ₃ for Hydrogen Evolution by Nonmetal Heteroatom Doping. <i>Advanced Functional Materials</i> , 2020 , 30, 1908708	15.6	52
241	Pseudo-binary electrolyte, LiBH ₄ -LiCl, for bulk-type all-solid-state lithium-sulfur battery. <i>Nanotechnology</i> , 2015 , 26, 254001	3.4	51
240	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	3.9	50
239	Phase Identification and Strong Second Harmonic Generation in Pure InSe and Its Alloys. <i>Nano Letters</i> , 2019 , 19, 2634-2640	11.5	50
238	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	14.7	50
237	SiC/Ti ₃ SiC ₂ interface: Atomic structure, energetics, and bonding. <i>Physical Review B</i> , 2009 , 79,	3.3	49
236	Nonequilibrium quantum transport properties of a silver atomic switch. <i>Nano Letters</i> , 2007 , 7, 2688-92	11.5	49
235	Molecular dynamics simulation of effects of twin interfaces on Cu/Ni multilayers. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 658, 1-7	5.3	48

234	Electronic property and bonding configuration at the TiN(111)/VN(111) interface. <i>Journal of Applied Physics</i> , 2010 , 108, 033714	2.5	48
233	First-principles simulations on bulk Ta2O5 and Cu/Ta2O5/Pt heterojunction: Electronic structures and transport properties. <i>Journal of Applied Physics</i> , 2009 , 106, 103713	2.5	48
232	A room-temperature magnetic semiconductor from a ferromagnetic metallic glass. <i>Nature Communications</i> , 2016 , 7, 13497	17.4	48
231	Synthesis and characterization of CeO 2 nano-rods. <i>Ceramics International</i> , 2013 , 39, 6607-6610	5.1	47
230	Magnetism and Optical Anisotropy in van der Waals Antiferromagnetic Insulator CrOCl. <i>ACS Nano</i> , 2019 , 13, 11353-11362	16.7	46
229	Atomic-scale structure and electronic property of the LaAlO3/TiO2 interface. <i>Journal of Applied Physics</i> , 2010 , 108, 113701	2.5	45
228	Regulating twin boundary mobility by annealing in magnesium and its alloys. <i>International Journal of Plasticity</i> , 2017 , 99, 1-18	7.6	44
227	In-Plane Optical Anisotropy and Linear Dichroism in Low-Symmetry Layered TlSe. <i>ACS Nano</i> , 2018 , 12, 8798-8807	16.7	43
226	Excess-silver-induced bridge formation in a silver sulfide atomic switch. <i>Applied Physics Letters</i> , 2008 , 93, 152106	3.4	43
225	Vanadium Doping Enhanced Electrochemical Performance of Molybdenum Oxide in Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1805227	15.6	43
224	Molecular dynamics simulation of TiN (001) thin films under indentation. <i>Ceramics International</i> , 2015 , 41, 14078-14086	5.1	42
223	Facile synthesis of groove-like NiMoO 4 hollow nanorods for high-performance supercapacitors. <i>Applied Surface Science</i> , 2016 , 360, 234-239	6.7	42
222	Deformation and fracture behavior of hot extruded Mg alloys AZ31. <i>Materials Characterization</i> , 2012 , 67, 93-100	3.9	42
221	Modification of grain refinement and texture in AZ31 Mg alloy by a new plastic deformation method. <i>Journal of Alloys and Compounds</i> , 2015 , 628, 130-134	5.7	42
220	Recognition of carbon monoxide with SnO2/Ti thick-film sensor and its gas-sensing mechanism. <i>Sensors and Actuators B: Chemical</i> , 2014 , 191, 1-8	8.5	41
219	Regulating the coarsening of the β phase in superalloys. <i>NPG Asia Materials</i> , 2015 , 7, e212-e212	10.3	39
218	A-Site-Doping Enhanced B-Site Ordering and Correlated Magnetic Property in La2xBixCoMnO6. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16841-16847	3.8	38
217	Bulk metallic glassy surface native oxide: Its atomic structure, growth rate and electrical properties. <i>Acta Materialia</i> , 2015 , 97, 282-290	8.4	36

216	Synthesis of boron nitride nanosheets with a few atomic layers and their gas-sensing performance. <i>Ceramics International</i> , 2016 , 42, 971-975	5.1	35
215	High-Yield Electrochemical Production of Large-Sized and Thinly Layered NiPS Flakes for Overall Water Splitting. <i>Small</i> , 2019 , 15, e1902427	11	35
214	Molecular dynamics simulation of deformation twin in rocksalt vanadium nitride. <i>Journal of Alloys and Compounds</i> , 2016 , 675, 128-133	5.7	35
213	Improvement of the piezoelectric properties of PVDF-HFP using AgNWs. <i>RSC Advances</i> , 2014 , 4, 35896-35903	3.9	35
212	Two-dimensional electron gas at the Ti-diffused BiFeO ₃ /SrTiO ₃ interface. <i>Applied Physics Letters</i> , 2015 , 107, 031601	3.4	33
211	Carbon-based catalysts by structural manipulation with iron for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8405-8412	13	33
210	The effect of nanoquasicrystals on mechanical properties of as-extruded Mg ₂ Ni ₃ Zn alloy. <i>Materials Letters</i> , 2012 , 79, 281-283	3.3	33
209	Atomistic origin of an ordered superstructure induced superconductivity in layered chalcogenides. <i>Nature Communications</i> , 2015 , 6, 6091	17.4	32
208	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	1.3	32
207	Room temperature magnetoresistance effects in ferroelectric poly(vinylidene fluoride) spin valves. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5055-5062	7.1	31
206	Tensile and fracture process of the TiN/VN interface from first principles. <i>Ceramics International</i> , 2014 , 40, 14453-14462	5.1	31
205	MD simulation of nanoindentation on (001) and (111) surfaces of Ag ₂ Ni multilayers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 74, 481-488	3	31
204	Molecular dynamics simulation of the slip systems in VN. <i>RSC Advances</i> , 2015 , 5, 77831-77838	3.7	28
203	Air-Induced Degradation and Electrochemical Regeneration for the Performance of Layered Ni-Rich Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 44036-44045	9.5	28
202	Controllable Synthesis of Ceria Nanoparticles with Uniform Reactive {100} Exposure Planes. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 4437-4443	3.8	28
201	Atomically dispersed nonmagnetic electron traps improve oxygen reduction activity of perovskite oxides. <i>Energy and Environmental Science</i> , 2021 , 14, 1016-1028	35.4	28
200	Growth and Microstructure of Epitaxial Ti ₃ SiC ₂ Contact Layers on SiC. <i>Materials Transactions</i> , 2009 , 50, 1071-1075	1.3	27
199	Atomic motion in Mg ₂ Al ₃ Zn during twinning deformation. <i>Scripta Materialia</i> , 2010 , 62, 556-559	5.6	27

198	In Situ Atomic-Scale Observation of Droplet Coalescence Driven Nucleation and Growth at Liquid/Solid Interfaces. <i>ACS Nano</i> , 2017 , 11, 5590-5597	16.7	26
197	Gas-sensing properties and mechanisms of Cu-doped SnO ₂ spheres towards H ₂ S. <i>Ceramics International</i> , 2016 , 42, 10006-10013	5.1	26
196	Facile synthesis of ceria nanospheres by Ce(OH)CO ₃ precursors. <i>Materials Letters</i> , 2014 , 122, 90-93	3.3	26
195	Molecular dynamics simulation of nano-indentation of (111) cubic boron nitride with optimized Tersoff potential. <i>Applied Surface Science</i> , 2016 , 382, 309-315	6.7	26
194	Highly Sensitive Polarization Photodetection Using a Pseudo-One-Dimensional NbTiS Alloy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3342-3350	9.5	26
193	Atomic-scale observation of migration and coalescence of Au nanoclusters on YSZ surface by aberration-corrected STEM. <i>Scientific Reports</i> , 2014 , 4, 5521	4.9	25
192	A Single-Atom-Thick TiO ₂ Nanomesh on an Insulating Oxide. <i>ACS Nano</i> , 2015 , 9, 8766-72	16.7	24
191	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	8.3	23
190	Enhancing ethanol detection by heterostructural silver nanoparticles decorated polycrystalline zinc oxide nanosheets. <i>Ceramics International</i> , 2016 , 42, 3138-3144	5.1	23
189	Ultrahigh Oxidation Resistance and High Electrical Conductivity in Copper-Silver Powder. <i>Scientific Reports</i> , 2016 , 6, 39650	4.9	23
188	Strain rate dependence of tension and compression behavior in nano-polycrystalline vanadium nitride. <i>Ceramics International</i> , 2017 , 43, 11635-11641	5.1	22
187	Effect of the sheet thickness of hierarchical SnO ₂ on the gas sensing performance. <i>Applied Surface Science</i> , 2015 , 355, 631-637	6.7	22
186	Fluorine in shark teeth: its direct atomic-resolution imaging and strengthening function. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 1543-7	16.4	22
185	First-principles calculation and molecular dynamics simulation of fracture behavior of VN layers under uniaxial tension. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 69, 224-231	3	22
184	MD simulation of effect of crystal orientations and substrate temperature on growth of Cu/Ni bilayer films. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	21
183	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	21.8	21
182	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	6.7	20
181	Carbon free silicon/polyaniline hybrid anodes with 3D conductive structures for superior lithium-ion batteries. <i>Chemical Communications</i> , 2020 , 56, 2328-2331	5.8	20

180	Rapid selective detection of formaldehyde by hollow ZnSnO ₃ nanocages. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013 , 48, 46-52	3	20
179	Interface atomic-scale structure and its impact on quantum electron transport. <i>Advanced Materials</i> , 2009 , 21, 4966-4969	24	20
178	Migration of Ag in low-temperature Ag ₂ S from first principles. <i>Journal of Chemical Physics</i> , 2008 , 128, 014704	3.9	20
177	Spin conserved electron transport behaviors in fullerenes (C ₆₀ and C ₇₀) spin valves. <i>Carbon</i> , 2016 , 106, 202-207	10.4	20
176	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	8.8	20
175	AgAl alloy electrode for efficient perovskite solar cells. <i>RSC Advances</i> , 2015 , 5, 56037-56044	3.7	19
174	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	6.7	19
173	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	3.7	19
172	Impact of residual stress on the adhesion and tensile fracture of TiN/CrN multi-layered coatings from first principles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 44, 1838-1845	3	19
171	In-situ active formation of carbides coated with NPTiO nanoparticles for efficient adsorption-photocatalytic inactivation of harmful algae in eutrophic water. <i>Chemosphere</i> , 2019 , 228, 351-359	8.4	18
170	Template effect in TiN/AlN multilayered coatings from first principles. <i>Ceramics International</i> , 2015 , 41, 10095-10101	5.1	18
169	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	20.1	18
168	Formation mechanism of quasicrystals at the nanoscale during hot compression of Mg alloys. <i>Scripta Materialia</i> , 2014 , 78-79, 61-64	5.6	18
167	Nanoscale icosahedral quasicrystal phase precipitation mechanism during annealing for MgZnCd-based alloys. <i>Materials Letters</i> , 2014 , 130, 236-239	3.3	18
166	Excellent mechanical properties of an ultrafine-grained quasicrystalline strengthened magnesium alloy with multi-modal microstructure. <i>Materials Letters</i> , 2013 , 107, 181-184	3.3	18
165	Effect of pretreatment and annealing on microstructure and mechanical properties of Mg _{1.5} Zn _{0.25} Gd (at%) alloys reinforced with quasicrystal. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 581, 73-82	5.3	18
164	Atomic-scale observation of dynamical fluctuation and three-dimensional structure of gold clusters. <i>Journal of Applied Physics</i> , 2015 , 117, 085303	2.5	18
163	A dislocation core in titanium dioxide and its electronic structure. <i>RSC Advances</i> , 2015 , 5, 18506-18510	3.7	18

162	Synthesis of unique ZnO/SnO ₂ core-shell structural microspheres and their gas-sensing properties. <i>Materials Letters</i> , 2012 , 89, 5-8	3.3	18
161	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, 202110	3.4	18
160	Atomic structures and electronic properties of interfaces between aluminum and carbides/nitrides: A first-principles study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 89, 15-20	3	17
159	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	5.5	17
158	Impurity-induced ferromagnetism and metallicity of WS ₂ monolayer. <i>Ceramics International</i> , 2016 , 42, 2364-2369	5.1	17
157	Competing Interface and Bulk Effect-Driven Magnetoelectric Coupling in Vertically Aligned Nanocomposites. <i>Advanced Science</i> , 2019 , 6, 1901000	13.6	17
156	Double change channel angular pressing of magnesium alloys AZ31. <i>Materials & Design</i> , 2012 , 35, 138-143		17
155	Realizing Few-Layer Iodinene for High-Rate Sodium-Ion Batteries. <i>Advanced Materials</i> , 2020 , 32, e2004835	3.1	17
154	Nanocomposite with fast Li ⁺ conducting percolation network: Solid polymer electrolyte with Li ⁺ non-conducting filler. <i>Nano Energy</i> , 2021 , 79, 105475	17.1	17
153	In Situ Atomic-Scale Observation of Kinetic Pathways of Sublimation in Silver Nanoparticles. <i>Advanced Science</i> , 2019 , 6, 1802131	13.6	16
152	Enhancement of NH ₃ sensing performance in flower-like ZnO nanostructures and their growth mechanism. <i>Applied Surface Science</i> , 2015 , 357, 31-36	6.7	16
151	Direct Atomic-Scale Observation of Intermediate Pathways of Melting and Crystallization in Supported Bi Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 961-969	6.4	16
150	In-plane anisotropy and twin boundary effects in vanadium nitride under nanoindentation. <i>Scientific Reports</i> , 2017 , 7, 4768	4.9	16
149	Microstructures and grain boundaries of cubic boron nitrides. <i>Diamond and Related Materials</i> , 2013 , 32, 27-31	3.5	16
148	Hydrothermal synthesis of ZnSe:Cu quantum dots and their luminescent mechanism study by first-principles. <i>Journal of Luminescence</i> , 2013 , 143, 185-192	3.8	16
147	Synthesis, characterization and frictional wear behavior of ceria hybrid architectures with {111} exposure planes. <i>Applied Surface Science</i> , 2017 , 401, 100-105	6.7	15
146	Precipitation of secondary phase in Mg-Zn-Gd alloy after room-temperature deformation and annealing. <i>Journal of Materials Research and Technology</i> , 2018 , 7, 135-141	5.5	15
145	Effect of Icosahedral Quasicrystalline Fraction and Extrusion Ratio on Microstructure, Mechanical Properties, and Anisotropy of Mg-Zn-Gd-Based Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 2725-2734	2.3	15

144	Atomic and electronic structure of the SrNbO ₃ /SrNbO _{3.4} interface. <i>Applied Physics Letters</i> , 2014 , 105, 221602	3.4	15
143	Insulator-metal transition driven by pressure and B-site disorder in double perovskite La ₂ CoMnO ₆ . <i>Journal of Computational Chemistry</i> , 2012 , 33, 1433-9	3.5	15
142	Mechanism of A-B intersite charge transfer and negative thermal expansion in A-site-ordered perovskite LaCu ₃ Fe ₄ O ₁₂ . <i>Journal of Applied Physics</i> , 2012 , 111, 103718	2.5	15
141	Nanoscale precipitations in deformed dilute alloying Mg-Zn-Gd alloy. <i>Materials and Design</i> , 2020 , 196, 109122	8.1	15
140	Planar Vacancies in Sn _{1-x} BixTe Nanoribbons. <i>ACS Nano</i> , 2016 , 10, 5507-15	16.7	15
139	Synthesis of WO ₃ microfibers and their optical properties. <i>Ceramics International</i> , 2017 , 43, 7048-7056	5.1	14
138	Effect of Twinning Behavior on Dynamic Recrystallization During Extrusion of AZ31 Mg Alloy. <i>Jom</i> , 2019 , 71, 1566-1573	2.1	14
137	Strengthening and toughening by partial slip in nanotwinned diamond. <i>Carbon</i> , 2019 , 150, 1-7	10.4	14
136	Real-Time Dynamical Observation of Lattice Induced Nucleation and Growth in Interfacial Solid-Solid Phase Transitions. <i>Crystal Growth and Design</i> , 2016 , 16, 7256-7262	3.5	14
135	Microstructure and corrosion behavior of AZ31 alloys prepared by dual directional extrusion. <i>Materials & Design</i> , 2012 , 36, 687-693		14
134	Molecular dynamics simulation of nano-indentation on Ti-V multilayered thin films. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 87, 213-219	3	14
133	Hierarchical ZnO porous microspheres and their gas-sensing properties. <i>Ceramics International</i> , 2013 , 39, 5919-5924	5.1	14
132	Facile synthesis of hybrid hexagonal CeF ₃ nano-disks on CeO ₂ frustum pyramids. <i>Materials Letters</i> , 2013 , 92, 7-10	3.3	14
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