Zhong-Chang Wang

List of Publications by Year in Descending Order

287 papers	7,610 citations	50 h-index	70 g-index
292 ext. papers	9,096 ext. citations	7.2 avg, IF	6.36 L-index

#	Paper	IF	Citations
287	Particle size dependent Ag precipitation at different temperature and the resultant oxidation behavior of Cu-5Ag powders. *Advanced Powder Technology*, **2022**, 33, 103436	4.6	1
286	Latest advance on seamless metal-semiconductor contact with ultralow Schottky barrier in 2D-material-based devices. *Nano Today*, **2022**, 42, 101372	17.9	3
285	Novel intelligent devices: Two-dimensional materials based memristors. *Frontiers of Physics*, **2022**, 17, 1	3.7	0
284	Low-temperature and high-rate sodium metal batteries enabled by electrolyte chemistry. *Energy Storage Materials*, **2022**, 50, 47-54	19.4	3
283	Plasma boosted the conversion of waste plastics into liquid fuel by a peroxymonosulfate-hydrothermal process. *Chemical Engineering Journal*, **2022**, 137236	14.7	0
282	Recent progress and strategies in photodetectors based on 2D inorganic/organic heterostructures. *2D Materials*, **2021**, 8, 012001	5.9	5
281	Atomic structure, work function and magnetism in layered single crystal VOCl. *2D Materials*, **2021**, 8, 015027	5.9	7
280	Morphology-Tunable Synthesis of Intrinsic Room-Temperature Ferromagnetic □FeO Nanoflakes. *ACS Applied Materials & Interfaces*, **2021**, 13, 24051-24061	9.5	4
279	Role of sublimation kinetics of ammonia borane in chemical vapor deposition of uniform, large-area hexagonal boron nitride. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2021**, 39, 042202	2.9	1
278	Engineering biocompatible TeSe nano-alloys as a versatile theranostic nanoplatform. *National Science Review*, **2021**, 8,	10.8	4
277	Facile fabrication of novel Ti3C2T -supported fallen leaf-like Bi2S3 nanopieces by a combined local-repulsion and macroscopic attraction strategy with enhanced symmetrical supercapacitor performance. *Electrochimica Acta*, **2021**, 366, 137406	6.7	11
276	Growth of 2D MoP single crystals on liquid metals by chemical vapor deposition. *Science China Materials*, **2021**, 64, 1182-1188	7.1	9
275	An Atomically Thin Air-Stable Narrow-Gap Semiconductor Cr2S3 for Broadband Photodetection with High Responsivity. *Advanced Electronic Materials*, **2021**, 7, 2000962	6.4	9
274	Nanocomposite with fast Li+ conducting percolation network: Solid polymer electrolyte with Li+ non-conducting filler. *Nano Energy*, **2021**, 79, 105475	17.1	17
273	Strategies towards the challenges of zinc metal anode in rechargeable aqueous zinc ion batteries. *Energy Storage Materials*, **2021**, 35, 19-46	19.4	68
272	Plasma tailoring in WTe2 nanosheets for efficiently boosting hydrogen evolution reaction. *Journal of Materials Science and Technology*, **2021**, 78, 170-175	9.1	12
271	Interfacial optimization of PtNi octahedrons@Ti3C2MXene with enhanced alkaline hydrogen evolution activity and stability. *Applied Catalysis B: Environmental*, **2021**, 291, 120100	21.8	21

270	A high-voltage and high-capacity Ti3C2Tx/BiCuS2.5 heterostructure to boost up the energy density and recyclability of zinc-ion-hybrid capacitors. *Nano Energy*, **2021**, 87, 106136	17.1	6
269	Regulating the oxidation resistance of Cu-5Ag alloy by heat treatment. *Corrosion Science*, **2021**, 190, 109686	6.8	5
268	Engineering surface electron and active site at electrochemical sensing interface of CN vacancy-mediated Prussian blue analogue for analysis of heavy metal ions. *Applied Surface Science*, **2021**, 564, 150131	6.7	5
267	A novel butter-sandwich Ti3C2Tx/PANI/PPY electrode with enhanced adsorption capacity and recyclability toward asymmetric capacitive deionization. *Separation and Purification Technology*, **2021**, 276, 119379	8.3	3
266	Atomically dispersed nonmagnetic electron traps improve oxygen reduction activity of perovskite oxides. *Energy and Environmental Science*, **2021**, 14, 1016-1028	35.4	28
265	Three-dimensional graphene and its composite for gas sensors. *Rare Metals*, **2021**, 40, 1494-1514	5.5	9
264	Ultrathin high-antimony oxide single crystals. *Nature Communications*, **2020**, 11, 2502	17.4	13
263	Hierarchically structured diamond composite with exceptional toughness. *Nature*, **2020**, 582, 370-374	50.4	59
262	Synthesis of Meta Symmetric 1T WTe2 Using an Edge-Induced Mechanism. *Chinese Journal of Chemistry*, **2020**, 38, 709-713	4.9	1
261	Tunable Mechanical Property and Structural Transition of Silicon Nitride Nanowires Induced by Focused Ion Beam Irradiation. *ACS Applied Materials & Interfaces*, **2020**, 12, 32175-32181	9.5	
260	Acid-corrosion-formed amorphous phosphate surfaces improve electrochemical stability of LiNi0.80Co0.15Al0.05O2 cathodes. *Corrosion Science*, **2020**, 168, 108553	6.8	11
259	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. *ACS Catalysis*, **2020**, 10, 3571-3579	13.1	54
258	Carbon free silicon/polyaniline hybrid anodes with 3D conductive structures for superior lithium-ion batteries. *Chemical Communications*, **2020**, 56, 2328-2331	5.8	20
257	Ultrafine-Grained Porous Ir-Based Catalysts for High-Performance Overall Water Splitting in Acidic Media. *ACS Applied Energy Materials*, **2020**, 3, 3736-3744	6.1	13
256	Mille-Cr e-like Metal Phosphide Nanocrystals/Carbon Nanotube Film Composites as High-Capacitance Negative Electrodes in Asymmetric Supercapacitors. *ACS Applied Energy Materials* , **2020**, 3, 4580-4588	6.1	10
255	Grain Boundary Induced Ultralow Threshold Random Laser in a Single GaTe Flake. *ACS Applied Materials & Interfaces*, **2020**, 12, 23323-23329	9.5	7
254	Enhanced out-of-plane thermoelectric performance of Cmcm SnSe phase by uniaxial strain. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2020**, 384, 126002	2.3	7
253	Atomic structure and electronic property of two-dimensional ferroelectric CuInP2Se6. *Ceramics International*, **2020**, 46, 7014-7018	5.1	1

252	Strain-Induced Band-Gap Tuning of 2D-SnSSe Flakes for Application in Flexible Sensors. *Advanced Materials Technologies*, **2020**, 5, 1900853	6.8	10
251	Nanoscale precipitations in deformed dilute alloying Mg-Zn-Gd alloy. *Materials and Design*, **2020**, 196, 109122	8.1	15
250	Realizing Few-Layer Iodinene for High-Rate Sodium-Ion Batteries. *Advanced Materials*, **2020**, 32, e2004835	24	17
249	Electrically Stimulated Band Alignment Transit in Black Phosphorus/Ga2O3 Heterostructure Dual-band Photodetector. *Chemical Research in Chinese Universities*, **2020**, 36, 703-708	2.2	3
248	Growth of NiSe2, NiTe2 and alloy NiSe2−x Te x nanosheets with tunable shape evolution and chemical composition. *2D Materials*, **2020**, 7, 041001	5.9	7
247	Ultrafine oxygen-defective iridium oxide nanoclusters for efficient and durable water oxidation at high current densities in acidic media. *Journal of Materials Chemistry A*, **2020**, 8, 24743-24751	13	13
246	Universal growth of ultra-thin III-V semiconductor single crystals. *Nature Communications*, **2020**, 11, 3979	17.4	12
245	High-performance junction field-effect transistor based on black phosphorus/Ga2O3 heterostructure. *Journal of Semiconductors*, **2020**, 41, 082002	2.3	7
244	Peculiar spectra and photocurrent oscillation caused by laser interference in WX2 (X = S, Se) bubbles. *Journal of Materials Science*, **2020**, 55, 15857-15866	4.3	2
243	Point defects in two-dimensional hexagonal boron nitride: A perspective. *Journal of Applied Physics*, **2020**, 128, 100902	2.5	14
242	Activating Basal Planes of NiPS3 for Hydrogen Evolution by Nonmetal Heteroatom Doping. *Advanced Functional Materials*, **2020**, 30, 1908708	15.6	52
241	The n- and p-type thermoelectricity property of GeTe by first-principles study. *Journal of Alloys and Compounds*, **2019**, 810, 151838	5.7	5
240	Magnetism and Optical Anisotropy in van der Waals Antiferromagnetic Insulator CrOCl. *ACS Nano*, **2019**, 13, 11353-11362	16.7	46
239	Research on Biodegradable Mg-Zn-Gd Alloys for Potential Orthopedic Implants: In Vitro and in Vivo Evaluations. *ACS Biomaterials Science and Engineering*, **2019**, 5, 1623-1634	5.5	17
238	Effect of Twinning Behavior on Dynamic Recrystallization During Extrusion of AZ31 Mg Alloy. *Jom*, **2019**, 71, 1566-1573	2.1	14
237	A ternary SnSSe alloy for flexible broadband photodetectors.. *RSC Advances*, **2019**, 9, 14352-14359	3.7	4
236	High-Yield Electrochemical Production of Large-Sized and Thinly Layered NiPS Flakes for Overall Water Splitting. *Small*, **2019**, 15, e1902427	11	35
235	Fe-Doped ZnO/Reduced Graphene Oxide Nanocomposite with Synergic Enhanced Gas Sensing Performance for the Effective Detection of Formaldehyde. *ACS Omega*, **2019**, 4, 10252-10262	3.9	50

234	In-situ active formation of carbides coated with NPTiO nanoparticles for efficient adsorption-photocatalytic inactivation of harmful algae in eutrophic water. *Chemosphere*, **2019**, 228, 351-359	8.4	18
233	Silver Nanoparticles: In Situ Atomic-Scale Observation of Kinetic Pathways of Sublimation in Silver Nanoparticles (Adv. Sci. 8/2019). *Advanced Science*, **2019**, 6, 1970049	13.6	78
232	Strengthening and toughening by partial slip in nanotwinned diamond. *Carbon*, **2019**, 150, 1-7	10.4	14
231	A highly efficient TiOX (X = N and P) photocatalyst for inactivation of Microcystis aeruginosa under visible light irradiation. *Separation and Purification Technology*, **2019**, 222, 99-108	8.3	23
230	Phase Identification and Strong Second Harmonic Generation in Pure □nSe and Its Alloys. *Nano Letters*, **2019**, 19, 2634-2640	11.5	50
229	In Situ Atomic-Scale Observation of Kinetic Pathways of Sublimation in Silver Nanoparticles. *Advanced Science*, **2019**, 6, 1802131	13.6	16
228	2D/2D Electrical Contacts in the Monolayer WSe2 Transistors: A First-Principles Study. *ACS Applied Nano Materials*, **2019**, 2, 2796-2805	5.6	11
227	Competing Interface and Bulk Effect-Driven Magnetoelectric Coupling in Vertically Aligned Nanocomposites. *Advanced Science*, **2019**, 6, 1901000	13.6	17
226	Atomic-scale dynamic observation reveals temperature-dependent multistep nucleation pathways in crystallization. *Nanoscale Horizons*, **2019**, 4, 1302-1309	10.8	8
225	Inverted Pyramid Textured p-Silicon Covered with Co2P as an Efficient and Stable Solar Hydrogen Evolution Photocathode. *ACS Energy Letters*, **2019**, 4, 1755-1762	20.1	18
224	Air-Induced Degradation and Electrochemical Regeneration for the Performance of Layered Ni-Rich Cathodes. *ACS Applied Materials & Interfaces*, **2019**, 11, 44036-44045	9.5	28
223	Metallic interface induced by electronic reconstruction in crystalline-amorphous bilayer oxide films. *Science Bulletin*, **2019**, 64, 1567-1572	10.6	0
222	Nanowire Quantum Dot Surface Engineering for High Temperature Single Photon Emission. *ACS Nano*, **2019**, 13, 13492-13500	16.7	13
221	Nanoscale magnetization inhomogeneity within single phase nanopillars. *Physical Review Materials*, **2019**, 3,	3.2	3
220	Synthesis of low-symmetry 2D GeSnSe alloy flakes with anisotropic optical response and birefringence. *Nanoscale*, **2019**, 11, 23116-23125	7.7	5
219	Highly Sensitive Polarization Photodetection Using a Pseudo-One-Dimensional NbTi S Alloy. *ACS Applied Materials & Interfaces*, **2019**, 11, 3342-3350	9.5	26
218	Microstructure and Mechanical Properties of AZ31 Mg Alloy Fabricated by Pre-compression and Frustum Shearing Extrusion. *Acta Metallurgica Sinica (English Letters)*, **2019**, 32, 235-244	2.5	10
217	Vanadium Doping Enhanced Electrochemical Performance of Molybdenum Oxide in Lithium-Ion Batteries. *Advanced Functional Materials*, **2019**, 29, 1805227	15.6	43

216	Disassembly of 2D Vertical Heterostructures. *Advanced Materials*, **2019**, 31, e1805976	24	8
215	Few-Layer Bismuthene with Anisotropic Expansion for High-Areal-Capacity Sodium-Ion Batteries. *Advanced Materials*, **2019**, 31, e1807874	24	98
214	Adsorption-photocatalysis functional expanded graphite C/C composite for in-situ photocatalytic inactivation of Microcystis aeruginosa. *Chemical Engineering Journal*, **2018**, 341, 516-525	14.7	50
213	Carbon-based catalysts by structural manipulation with iron for oxygen reduction reaction. *Journal of Materials Chemistry A*, **2018**, 6, 8405-8412	13	33
212	Direct Atomic-Scale Observation of Intermediate Pathways of Melting and Crystallization in Supported Bi Nanoparticles. *Journal of Physical Chemistry Letters*, **2018**, 9, 961-969	6.4	16
211	Surface modified TiO floating photocatalyst with PDDA for efficient adsorption and photocatalytic inactivation of Microcystis aeruginosa. *Water Research*, **2018**, 131, 320-333	12.5	55
210	Self-Assembled Biomolecular 1D Nanostructures for Aqueous Sodium-Ion Battery. *Advanced Science*, **2018**, 5, 1700634	13.6	82
209	Structural stability, electronic structures and enhanced photocatalytic properties of BiF3 nanowires: A first-principles study. *Ceramics International*, **2018**, 44, 9623-9632	5.1	5
208	Precipitation of secondary phase in Mg-Zn-Gd alloy after room-temperature deformation and annealing. *Journal of Materials Research and Technology*, **2018**, 7, 135-141	5.5	15
207	Atomic disorders in layer structured topological insulator SnBi2Te4 nanoplates. *Nano Research*, **2018**, 11, 696-706	10	8
206	In-Plane Optical Anisotropy and Linear Dichroism in Low-Symmetry Layered TlSe. *ACS Nano*, **2018**, 12, 8798-8807	16.7	43
205	In Situ Atomic-Scale Study of Particle-Mediated Nucleation and Growth in Amorphous Bismuth to Nanocrystal Phase Transformation. *Advanced Science*, **2018**, 5, 1700992	13.6	52
204	Simulation of magnetoelastic response of iron nanowire loop. *Physica A: Statistical Mechanics and Its Applications*, **2018**, 493, 384-399	3.3	
203	Effects of Carbon and Boron on Structure and Properties of Austenitic Stainless Steel Coatings Fabricated by Laser Remanufacturing. *Steel Research International*, **2018**, 90, 1800473	1.6	3
202	Growth of 2D GaN Single Crystals on Liquid Metals. *Journal of the American Chemical Society*, **2018**, 140, 16392-16395	16.4	110
201	Recent advances of low-dimensional materials in lasing applications. *FlatChem*, **2018**, 10, 22-38	5.1	12
200	Fabrication of ultra-high strength magnesium alloys over 540 MPa with low alloying concentration by double continuously extrusion. *Journal of Magnesium and Alloys*, **2018**, 6, 107-113	8.8	20
199	Electronic structure and magnetism in transition metal doped InSe monolayer: A GGA + U study. *Ceramics International*, **2018**, 44, 15912-15917	5.1	12

198	CeOx/TiO2-yFy nanocomposite: An efficient electron and oxygen tuning mechanism for photocatalytic inactivation of water-bloom algae. *Ceramics International*, **2018**, 44, 19151-19159	5.1	12
197	Synthesis, characterization and frictional wear behavior of ceria hybrid architectures with {111} exposure planes. *Applied Surface Science*, **2017**, 401, 100-105	6.7	15
196	Atomic structures and electronic properties of interfaces between aluminum and carbides/nitrides: A first-principles study. *Physica E: Low-Dimensional Systems and Nanostructures*, **2017**, 89, 15-20	3	17
195	Synthesis of WO 3 microfibers and their optical properties. *Ceramics International*, **2017**, 43, 7048-7056	5.1	14
194	Hydrothermal synthesis and photocatalytic properties of WO 3 nanorods by using capping agent SnCl 4 □5H 2 O. *Physica E: Low-Dimensional Systems and Nanostructures*, **2017**, 92, 12-16	3	7
193	Room temperature magnetoresistance effects in ferroelectric poly(vinylidene fluoride) spin valves. *Journal of Materials Chemistry C*, **2017**, 5, 5055-5062	7.1	31
192	Strain rate dependence of tension and compression behavior in nano-polycrystalline vanadium nitride. *Ceramics International*, **2017**, 43, 11635-11641	5.1	22
191	Atomic structure, electronic properties and generalized stacking fault energy of diamond/c-BN multilayer. *RSC Advances*, **2017**, 7, 29599-29605	3.7	5
190	In Situ Atomic-Scale Observation of Droplet Coalescence Driven Nucleation and Growth at Liquid/Solid Interfaces. *ACS Nano*, **2017**, 11, 5590-5597	16.7	26
189	Regulating twin boundary mobility by annealing in magnesium and its alloys. *International Journal of Plasticity*, **2017**, 99, 1-18	7.6	44
188	In-plane anisotropy and twin boundary effects in vanadium nitride under nanoindentation. *Scientific Reports*, **2017**, 7, 4768	4.9	16
187	Effects of Helium Ion Irradiation on Properties of Crystalline and Amorphous Multiphase Ceramic Coatings. *Journal of Materials Engineering and Performance*, **2017**, 26, 4131-4137	1.6	1
186	Deformation behavior and texture randomization of Mg□Zn□d alloys reinforced with icosahedral quasicrystal. *International Journal of Materials Research*, **2017**, 108, 455-464	0.5	2
185	Transparent magnetic semiconductor with embedded metallic glass nano-granules. *Materials and Design*, **2017**, 132, 208-214	8.1	12
184	Impact of solute elements on detwinning in magnesium and its alloys. *International Journal of Plasticity*, **2017**, 91, 134-159	7.6	64
183	Molecular dynamics simulation of nano-indentation on Ti-V multilayered thin films. *Physica E: Low-Dimensional Systems and Nanostructures*, **2017**, 87, 213-219	3	14
182	Molecular dynamics simulation of plasticity in VN(001) crystals under nanoindentation with a spherical indenter. *Applied Surface Science*, **2017**, 392, 942-949	6.7	52
181	Double extrusion of Mg-Al-Zn alloys. *International Journal of Advanced Manufacturing Technology*, **2017**, 89, 869-875	3.2	5

180	Designing biocompatible Ti-based amorphous thin films with no toxic element. *Journal of Alloys and Compounds*, **2017**, 707, 142-147	5.7	7
179	Microtexture and Nanoindentation of α and β Phases in Ti-6Al-1.5Cr-2.5Mo-0.5Fe-0.3Si Titanium Alloy. *Science of Advanced Materials*, **2017**, 9, 1476-1483	2.3	3
178	Synthesis of boron nitride nanosheets with a few atomic layers and their gas-sensing performance. *Ceramics International*, **2016**, 42, 971-975	5.1	35
177	Molecular dynamics simulation of nanoindentation on Cu/Ni nanotwinned multilayer films using a spherical indenter. *Scientific Reports*, **2016**, 6, 35665	4.9	91
176	Real-Time Dynamical Observation of Lattice Induced Nucleation and Growth in Interfacial Solid–Solid Phase Transitions. *Crystal Growth and Design*, **2016**, 16, 7256-7262	3.5	14
175	Secondary dislocation structures in a Ni–TiN system from the GMS and O-lattice theory. *Physica E: Low-Dimensional Systems and Nanostructures*, **2016**, 77, 97-101	3	4
174	Impurity-induced ferromagnetism and metallicity of WS2 monolayer. *Ceramics International*, **2016**, 42, 2364-2369	5.1	17
173	Assembly of 2D nanosheets into 3D flower-like NiO: Synthesis and the influence of petal thickness on gas-sensing properties. *Ceramics International*, **2016**, 42, 4567-4573	5.1	63
172	Gas-sensing properties and mechanisms of Cu-doped SnO2 spheres towards H2S. *Ceramics International*, **2016**, 42, 10006-10013	5.1	26
171	Molecular dynamics simulation of deformation twin in rocksalt vanadium nitride. *Journal of Alloys and Compounds*, **2016**, 675, 128-133	5.7	35
170	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	5.3	48
169	Atomic-Scale Structure and Local Chemistry of CoFeB-MgO Magnetic Tunnel Junctions. *Nano Letters*, **2016**, 16, 1530-6	11.5	69
168	Synthesis and luminescence properties of three dimensional architectures of nanostructural WO3. *Optik*, **2016**, 127, 3454-3458	2.5	6
167	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	2.6	21
166	Composite of ZnO spheres and functionalized SnO2 nanofibers with an enhanced ethanol gas sensing properties. *Materials Letters*, **2016**, 169, 246-249	3.3	12
165	Nanosheet-assembled hierarchical SnO 2 nanostructures for efficient gas-sensing applications. *Sensors and Actuators B: Chemical*, **2016**, 231, 120-128	8.5	79
164	Facile synthesis of groove-like NiMoO 4 hollow nanorods for high-performance supercapacitors. *Applied Surface Science*, **2016**, 360, 234-239	6.7	42
163	Hydrothermal synthesis and characterization of novel Sn2O3 hierarchical nanostructures. *Materials Letters*, **2016**, 165, 235-238	3.3	8

162	Dislocations in icosahedral quasicrystalline phase embedded in hot-deformed Mg alloys. *Journal of Alloys and Compounds*, **2016**, 658, 483-487	5.7	7
161	Enhancing ethanol detection by heterostructural silver nanoparticles decorated polycrystalline zinc oxide nanosheets. *Ceramics International*, **2016**, 42, 3138-3144	5.1	23
160	A room-temperature magnetic semiconductor from a ferromagnetic metallic glass. *Nature Communications*, **2016**, 7, 13497	17.4	48
159	Ultrahigh Oxidation Resistance and High Electrical Conductivity in Copper-Silver Powder. *Scientific Reports*, **2016**, 6, 39650	4.9	23
158	Molecular dynamics simulation of nano-indentation of (111) cubic boron nitride with optimized Tersoff potential. *Applied Surface Science*, **2016**, 382, 309-315	6.7	26
157	Planar Vacancies in Sn1-xBixTe Nanoribbons. *ACS Nano*, **2016**, 10, 5507-15	16.7	15
156	Spin conserved electron transport behaviors in fullerenes (C60 and C70) spin valves. *Carbon*, **2016**, 106, 202-207	10.4	20
155	AgAl alloy electrode for efficient perovskite solar cells. *RSC Advances*, **2015**, 5, 56037-56044	3.7	19
154	Quasi-one-dimensional metal-oxide-based heterostructural gas-sensing materials: A review. *Sensors and Actuators B: Chemical*, **2015**, 221, 1570-1585	8.5	171
153	Effect of the sheet thickness of hierarchical SnO2 on the gas sensing performance. *Applied Surface Science*, **2015**, 355, 631-637	6.7	22
152	First-principles calculations of the twin boundary energies and adhesion energies of interfaces for cubic face-centered transition-metal nitrides and carbides. *Applied Surface Science*, **2015**, 355, 1132-1135	6.7	20
151	Growth-controlled NiCo2S4 nanosheet arrays with self-decorated nanoneedles for high-performance pseudocapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 17652-17658	13	97
150	Bulk metallic glassy surface native oxide: Its atomic structure, growth rate and electrical properties. *Acta Materialia*, **2015**, 97, 282-290	8.4	36
149	Molecular dynamics simulation of TiN (001) thin films under indentation. *Ceramics International*, **2015**, 41, 14078-14086	5.1	42
148	Effects of different petal thickness on gas sensing properties of flower-like WO3□H2O hierarchical architectures. *Applied Surface Science*, **2015**, 347, 73-78	6.7	60
147	Template effect in TiN/AlN multilayered coatings from first principles. *Ceramics International*, **2015**, 41, 10095-10101	5.1	18
146	PEG-20000 assisted hydrothermal synthesis of hierarchical ZnO flowers: Structure, growth and gas sensor properties. *Physica E: Low-Dimensional Systems and Nanostructures*, **2015**, 73, 163-168	3	13
145	Atomistic mechanisms of nonstoichiometry-induced twin boundary structural transformation in titanium dioxide. *Nature Communications*, **2015**, 6, 7120	17.4	77

144	Magnetoelectric quasi-(0-3) nanocomposite heterostructures. *Nature Communications*, **2015**, 6, 6680	17.4	77
143	Synthesis of carbon fiber@nickel oxide nanosheet core–shells for high-performance supercapacitors. *RSC Advances*, **2015**, 5, 84238-84244	3.7	11
142	Enhancement of NH3 sensing performance in flower-like ZnO nanostructures and their growth mechanism. *Applied Surface Science*, **2015**, 357, 31-36	6.7	16
141	Two-dimensional electron gas at the Ti-diffused BiFeO3/SrTiO3 interface. *Applied Physics Letters*, **2015**, 107, 031601	3.4	33
140	Patterning Oxide Nanopillars at the Atomic Scale by Phase Transformation. *Nano Letters*, **2015**, 15, 6469-74	11.5	11
139	A Single-Atom-Thick TiO2 Nanomesh on an Insulating Oxide. *ACS Nano*, **2015**, 9, 8766-72	16.7	24
138	Molecular dynamics simulation of VN thin films under indentation. *Applied Surface Science*, **2015**, 357, 643-650	6.7	58
137	Secondary phases in quasicrystal-reinforced Mg□3.5Zn□0.6Gd Mg alloy. *Materials Characterization*, **2015**, 108, 132-136	3.9	13
136	Molecular dynamics simulation of the slip systems in VN. *RSC Advances*, **2015**, 5, 77831-77838	3.7	28
135	Regulating the coarsening of the □ phase in superalloys. *NPG Asia Materials*, **2015**, 7, e212-e212	10.3	39
134	MD simulation of growth of Pd on Cu (1 1 1) and Cu on Pd (1 1 1) substrates. *Applied Surface Science* , **2015**, 356, 651-658	6.7	19
133	HAADF STEM observation of the Au/CeO2 nanostructures. *Materials Letters*, **2015**, 141, 31-34	3.3	5
132	On the Periodicity of ⟨001⟩ Symmetrical Tilt Grain Boundaries. *Materials Transactions*, **2015**, 56, 281-287	1.3	11
131	The Decomposition Formula of ⟨001⟩ Symmetrical Tilt Grain Boundaries. *Materials Transactions*, **2015**, 56, 1945-1952	1.3	7
130	Spectroscopy Applied to Engineering Materials. *Journal of Spectroscopy*, **2015**, 2015, 1-2	1.5	
129	Atomic-scale observation of dynamical fluctuation and three-dimensional structure of gold clusters. *Journal of Applied Physics*, **2015**, 117, 085303	2.5	18
128	Pseudo-binary electrolyte, LiBH4-LiCl, for bulk-type all-solid-state lithium-sulfur battery. *Nanotechnology*, **2015**, 26, 254001	3.4	51
127	Misfit accommodation mechanism at the heterointerface between diamond and cubic boron nitride. *Nature Communications*, **2015**, 6, 6327	17.4	54

126	Hydrothermal synthesis of ZnO microcakes assembled by octahedrons and their gas-sensing property. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 9529-9534	2.1	1
125	MD simulation of nanoindentation on (001) and (111) surfaces of Ag/Ni multilayers. *Physica E: Low-Dimensional Systems and Nanostructures*, **2015**, 74, 481-488	3	31
124	A dewetting route to grow heterostructured nanoparticles based on thin film heterojunctions. *Nanoscale*, **2015**, 7, 19977-84	7.7	3
123	First-principles study of atomic structure and electronic properties of Si and F doped anatase TiO2. *Materials Science-Poland*, **2015**, 33, 549-554	0.6	10
122	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	5.7	42
121	First-principles study of negative thermal expansion mechanism in A-site-ordered perovskite SrCu3Fe4O12. *RSC Advances*, **2015**, 5, 1801-1807	3.7	9
120	A dislocation core in titanium dioxide and its electronic structure. *RSC Advances*, **2015**, 5, 18506-18510	3.7	18
119	First-principles investigation of electronic and magnetic properties of double perovskite CaFeTi2O6. *Physica E: Low-Dimensional Systems and Nanostructures*, **2015**, 69, 133-137	3	5
118	Atomistic origin of an ordered superstructure induced superconductivity in layered chalcogenides. *Nature Communications*, **2015**, 6, 6091	17.4	32
117	Enhanced damping capacity of magnesium alloys by tensile twin boundaries. *Scripta Materialia*, **2015**, 101, 8-11	5.6	65
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