Zhi Li Dong

List of Publications by Citations

213 papers	12,240 citations	49 h-index	107 g-index
222 ext. papers	13,898 ext. citations	6.7 avg, IF	6.62 L-index

#	Paper	IF	Citations
213	Generation of sulfate radical through heterogeneous catalysis for organic contaminants removal: Current development, challenges and prospects. *Applied Catalysis B: Environmental*, **2016**, 194, 169-201	21.8	1236
212	Application of layered double hydroxides for removal of oxyanions: a review. *Water Research*, **2008**, 42, 1343-68	12.5	1207
211	Review of selective laser melting: Materials and applications. *Applied Physics Reviews*, **2015**, 2, 041101	17.3	1001
210	Composition-tunable Zn(x)Cd(1-x)Se nanocrystals with high luminescence and stability. *Journal of the American Chemical Society*, **2003**, 125, 8589-94	16.4	496
209	Zinc oxide nanocomb biosensor for glucose detection. *Applied Physics Letters*, **2006**, 88, 233106	3.4	470
208	Enzymatic glucose biosensor based on ZnO nanorod array grown by hydrothermal decomposition. *Applied Physics Letters*, **2006**, 89, 123902	3.4	379
207	Mechanical force-driven growth of elongated bending TiO2 -based nanotubular materials for ultrafast rechargeable lithium ion batteries. *Advanced Materials*, **2014**, 26, 6111-8	24	358
206	Large-area synthesis of monolayer and few-layer MoSe2 films on SiO2 substrates. *Nano Letters*, **2014**, 14, 2419-25	11.5	312
205	Efficient Ag@AgCl Cubic Cage Photocatalysts Profit from Ultrafast Plasmon-Induced Electron Transfer Processes. *Advanced Functional Materials*, **2013**, 23, 2932-2940	15.6	255
204	Hierarchical TiO2 Nanoflakes and Nanoparticles Hybrid Structure for Improved Photocatalytic Activity. *Journal of Physical Chemistry C*, **2012**, 116, 2772-2780	3.8	231
203	Zinc oxide nanodisk. *Applied Physics Letters*, **2004**, 85, 3878-3880	3.4	195
202	Stable field emission from hydrothermally grown ZnO nanotubes. *Applied Physics Letters*, **2006**, 88, 213102	3.4	188
201	Ag@AgBr/TiO2/RGO nanocomposite for visible-light photocatalytic degradation of penicillin G. *Journal of Materials Chemistry A*, **2013**, 1, 4718	13	171
200	Growth mechanism of tubular ZnO formed in aqueous solution. *Nanotechnology*, **2006**, 17, 1740-4	3.4	166
199	In situ formation of large-scale Ag/AgCl nanoparticles on layered titanate honeycomb by gas phase reaction for visible light degradation of phenol solution. *Applied Catalysis B: Environmental*, **2011**, 106, 577-585	21.8	157
198	Unravelling the correlation between the aspect ratio of nanotubular structures and their electrochemical performance to achieve high-rate and long-life lithium-ion batteries. *Angewandte Chemie - International Edition*, **2014**, 53, 13488-92	16.4	152
197	Enhanced arsenic removal by hydrothermally treated nanocrystalline Mg/Al layered double hydroxide with nitrate intercalation. *Environmental Science & Technology*, **2009**, 43, 2537-43	10.3	148

196	Surface-active bismuth ferrite as superior peroxymonosulfate activator for aqueous sulfamethoxazole removal: Performance, mechanism and quantification of sulfate radical. *Journal of Hazardous Materials*, **2017**, 325, 71-81	12.8	131
195	A novel quasi-cubic CuFe2O4/Fe2O3 catalyst prepared at low temperature for enhanced oxidation of bisphenol A via peroxymonosulfate activation. *Journal of Materials Chemistry A*, **2015**, 3, 22208-22217	13	127
194	Interface driven energy filtering of thermoelectric power in spark plasma sintered Bi(2)Te(2.7)Se(0.3) nanoplatelet composites. *Nano Letters*, **2012**, 12, 4305-10	11.5	127
193	Vanadium pentoxide cathode materials for high-performance lithium-ion batteries enabled by a hierarchical nanoflower structure via an electrochemical process. *Journal of Materials Chemistry A*, **2013**, 1, 82-88	13	126
192	Performance of magnetic activated carbon composite as peroxymonosulfate activator and regenerable adsorbent via sulfate radical-mediated oxidation processes. *Journal of Hazardous Materials*, **2015**, 284, 1-9	12.8	121
191	Carbon-Coated Nanophase CaMoO4 as Anode Material for Li Ion Batteries. *Chemistry of Materials*, **2004**, 16, 504-512	9.6	121
190	Three-dimensional CdS-titanate composite nanomaterials for enhanced visible-light-driven hydrogen evolution. *Small*, **2013**, 9, 996-1002	11	118
189	Understanding the Role of Nanostructures for Efficient Hydrogen Generation on Immobilized Photocatalysts. *Advanced Energy Materials*, **2013**, 3, 1368-1380	21.8	118
188	A new integrated approach for dye removal from wastewater by polyoxometalates functionalized membranes. *Journal of Hazardous Materials*, **2016**, 301, 462-70	12.8	111
187	High surface area DPA-hematite for efficient detoxification of bisphenol A via peroxymonosulfate activation. *Journal of Materials Chemistry A*, **2014**, 2, 15836-15845	13	97
186	Microstructural evolution and its influence on the magnetic properties of CoFe2O4 powders during mechanical milling. *Physical Review B*, **2006**, 74,	3.3	90
185	A novel three-dimensional spherical CuBi2O4 consisting of nanocolumn arrays with persulfate and peroxymonosulfate activation functionalities for 1H-benzotriazole removal. *Nanoscale*, **2015**, 7, 8149-58	7.7	84
184	Ultraviolet emission from a ZnO rod homojunction light-emitting diode. *Applied Physics Letters*, **2009**, 95, 133124	3.4	83
183	Chemical functionalization of graphene oxide for improving mechanical and thermal properties of polyurethane composites. *Materials and Design*, **2015**, 85, 808-814	8.1	78
182	Additively manufactured CoCrFeNiMn high-entropy alloy via pre-alloyed powder. *Materials and Design*, **2019**, 168, 107576	8.1	75
181	Sorption characteristics and mechanisms of oxyanions and oxyhalides having different molecular properties on Mg/Al layered double hydroxide nanoparticles. *Journal of Hazardous Materials*, **2010**, 179, 818-27	12.8	75
180	Synthesis of nanostructured silver/silver halides on titanate surfaces and their visible-light photocatalytic performance. *ACS Applied Materials & Interfaces*, **2012**, 4, 438-46	9.5	70
179	Synthesis of boron nitride nanowires. *Applied Physics Letters*, **2002**, 80, 3611-3613	3.4	67

178	DNA-directed growth of FePO4 nanostructures on carbon nanotubes to achieve nearly 100% theoretical capacity for lithium-ion batteries. *Energy and Environmental Science*, **2012**, 5, 6919	35.4	65
177	Visible-light plasmonic photocatalyst anchored on titanate nanotubes: a novel nanohybrid with synergistic effects of adsorption and degradation. *RSC Advances*, **2012**, 2, 9406	3.7	63
176	TEM and STEM analysis on heat-treated and in vitro plasma-sprayed hydroxyapatite/Ti-6Al-4V composite coatings. *Biomaterials*, **2003**, 24, 97-105	15.6	62
175	Ultraviolet amplified spontaneous emission from self-organized network of zinc oxide nanofibers. *Applied Physics Letters*, **2005**, 86, 011118	3.4	59
174	Thin-walled graphitic nanocages as a unique platform for amperometric glucose biosensor. *ACS Applied Materials & Interfaces*, **2010**, 2, 2481-4	9.5	57
173	An epitaxial ferroelectric tunnel junction on silicon. *Advanced Materials*, **2014**, 26, 7185-9	24	55
172	Efficient Energy Transfer and Enhanced Infrared Emission in Er-Doped ZnO-SiO2 Composites. *Journal of Physical Chemistry C*, **2012**, 116, 13458-13462	3.8	55
171	Fabrication of bimetallic Cu/Au nanotubes and their sensitive, selective, reproducible and reusable electrochemical sensing of glucose. *Nanoscale*, **2015**, 7, 11190-8	7.7	54
170	Interface and Surface Cation Stoichiometry Modified by Oxygen Vacancies in Epitaxial Manganite Films. *Advanced Functional Materials*, **2012**, 22, 4312-4321	15.6	54
169	The Origin of Visible Light Absorption in Chalcogen Element (S, Se, and Te)-Doped Anatase TiO2 Photocatalysts. *Journal of Physical Chemistry C*, **2010**, 114, 7063-7069	3.8	53
168	A Review on Recent Advances in Electrochromic Devices: A Material Approach. *Advanced Engineering Materials*, **2020**, 22, 2000082	3.5	52
167	High-permeability pluronic-based TiO2 hybrid photocatalytic membrane with hierarchical porosity: Fabrication, characterizations and performances. *Chemical Engineering Journal*, **2013**, 228, 1030-1039	14.7	52
166	Controllably self-assembled graphene-supported Au@Pt bimetallic nanodendrites as superior electrocatalysts for methanol oxidation in direct methanol fuel cells. *Journal of Materials Chemistry A*, **2016**, 4, 7352-7364	13	51
165	DNA-directed growth of Pd nanocrystals on carbon nanotubes towards efficient oxygen reduction reactions. *Chemistry - A European Journal*, **2012**, 18, 15693-8	4.8	49
164	Aligned ZnO nanorods synthesized by a simple hydrothermal reaction. *Journal Physics D: Applied Physics*, **2006**, 39, 1690-1693	3	49
163	Hierarchical layered titanate microspherulite: formation by electrochemical spark discharge spallation and application in aqueous pollutant treatment. *Journal of Materials Chemistry*, **2010**, 20, 10169		47
162	An effective analytical model of selective laser melting. *Virtual and Physical Prototyping*, **2016**, 11, 21-26	10.1	47
161	Ferroelectricity and ferroelectric resistive switching in sputtered Hf0.5Zr0.5O2 thin films. *Applied Physics Letters*, **2016**, 108, 232905	3.4	45

160	Effect of coating thickness on microstructure, mechanical properties and fracture behaviour of cold sprayed Ti6Al4V coatings on Ti6Al4V substrates. *Surface and Coatings Technology*, **2018**, 349, 303-317	4.4	45
159	Effects of Traverse Scanning Speed of Spray Nozzle on the Microstructure and Mechanical Properties of Cold-Sprayed Ti6Al4V Coatings. *Journal of Thermal Spray Technology*, **2017**, 26, 1484-1497	2.5	44
158	Ultrafast synthesis of layered titanate microspherulite particles by electrochemical spark discharge spallation. *Chemistry - A European Journal*, **2010**, 16, 7704-8	4.8	43
157	Synthesis of fivefold stellate polyhedral gold nanoparticles with {110}-facets via a seed-mediated growth method. *Small*, **2013**, 9, 705-10	11	41
156	Surface Eu-Treated ZnO Nanowires with Efficient Red Emission. *Journal of Physical Chemistry C*, **2010**, 114, 18081-18084	3.8	41
155	A SnO2 Nanoparticle/Nanobelt and Si Heterojunction Light-Emitting Diode. *Journal of Physical Chemistry C*, **2010**, 114, 18390-18395	3.8	41
154	Solution-Processable Barium Titanate and Strontium Titanate Nanoparticle Dielectrics for Low-Voltage Organic Thin-Film Transistors. *Chemistry of Materials*, **2009**, 21, 3153-3161	9.6	41
153	Rational design of hierarchically-structured CuBi2O4 composites by deliberate manipulation of the nucleation and growth kinetics of CuBi2O4 for environmental applications. *Nanoscale*, **2016**, 8, 2046-54	7.7	40
152	Color tunable light-emitting diodes based on p+-Si/p-CuAlO2/n-ZnO nanorod array heterojunctions. *Applied Physics Letters*, **2010**, 97, 013101	3.4	40
151	Formation of antimony sulfide powders and thin films from single-source antimony precursors. *Journal of Materials Chemistry*, **2008**, 18, 5399		40
150	Preparation, characterization and properties of polycaprolactone diol-functionalized multi-walled carbon nanotube/thermoplastic polyurethane composite. *Composites Part A: Applied Science and Manufacturing*, **2015**, 70, 8-15	8.4	39
149	Temperature and chemical bonding-directed self-assembly of cobalt phosphide nanowires in reaction solutions into vertical and horizontal alignments. *Advanced Materials*, **2012**, 24, 4369-75	24	39
148	Nanostructured Single-Crystalline Twin Disks of Zinc Oxide. *Crystal Growth and Design*, **2007**, 7, 541-544	3.5	39
147	Zinc oxide nanowires and nanorods fabricated by vapour-phase transport at low temperature. *Nanotechnology*, **2004**, 15, 839-842	3.4	39
146	Zinc oxide hexagram whiskers. *Applied Physics Letters*, **2006**, 88, 093101	3.4	37
145	Colloidal nanocrystals of orthorhombic Cu2ZnGeS4: phase-controlled synthesis, formation mechanism and photocatalytic behavior. *Nanoscale*, **2015**, 7, 3247-53	7.7	36
144	Synthesis and Crystal Structure Characterization of Silicate Apatite Sr2Y8(SiO4)6O2. *Journal of the American Ceramic Society*, **2010**, 93, 1176-1182	3.8	34
143	Ferroelectricity emerging in strained (111)-textured ZrO2 thin films. *Applied Physics Letters*, **2016**, 108, 012906	3.4	34

142	Study of the cation distributions in Eu doped Sr2Y8(SiO4)6O2 by X-ray diffraction and photoluminescent spectra. *Journal of Solid State Chemistry*, **2010**, 183, 3093-3099	3.3	33
141	Hierarchical protonated titanate nanostructures for lithium-ion batteries. *Nanoscale*, **2011**, 3, 4074-7	7.7	32
140	Hierarchically-structured Co□uBi2O4 and Cu□uBi2O4 for sulfanilamide removal via peroxymonosulfate activation. *Catalysis Today*, **2017**, 280, 2-7	5.3	30
139	Size dependence of radiation-induced amorphization and recrystallization of synthetic nanostructured CePO4 monazite. *Acta Materialia*, **2013**, 61, 2984-2992	8.4	29
138	Facile synthesis of luminescent AgInS□ZnS solid solution nanorods. *Small*, **2013**, 9, 2689-95	11	29
137	CrSi(2) hexagonal nanowebs. *Journal of the American Chemical Society*, **2010**, 132, 15875-7	16.4	29
136	Model Apatite Systems for the Stabilization of Toxic Metals: I, Calcium Lead Vanadate. *Journal of the American Ceramic Society*, **2002**, 85, 2515-2522	3.8	29
135	Unravelling the Correlation between the Aspect Ratio of Nanotubular Structures and Their Electrochemical Performance To Achieve High-Rate and Long-Life Lithium-Ion Batteries. *Angewandte Chemie*, **2014**, 126, 13706-13710	3.6	28
134	Magnetic nanobelts of iron-doped zinc oxide. *Applied Physics Letters*, **2005**, 86, 173110	3.4	28
133	Manganese-doped zinc oxide tetratubes and their photoluminescent properties. *Journal of Applied Physics*, **2005**, 98, 113513	2.5	28
132	Static dielectric constant of isolated silicon nanocrystals embedded in a SiO2 thin film. *Applied Physics Letters*, **2006**, 88, 063103	3.4	28
131	Model Apatite Systems for the Stabilization of Toxic Metals: II, Cation and Metalloid Substitutions in Chlorapatites. *Journal of the American Ceramic Society*, **2005**, 88, 1253-1260	3.8	27
130	Highly Efficient and Stable Hydrogen Production in All pH Range by Two-Dimensional Structured Metal-Doped Tungsten Semicarbides. *Research*, **2019**, 2019, 4029516	7.8	27
129	Perovskite-Ion Beam Interactions: Toward Controllable Light Emission and Lasing. *ACS Applied Materials & Interfaces*, **2019**, 11, 15756-15763	9.5	25
128	Selective laser melting of nickel powder. *Rapid Prototyping Journal*, **2017**, 23, 750-757	3.8	24
127	Direct observation and analysis of annealing-induced microstructure at interface and its effect on performance improvement of organic thin film transistors. *Journal of Physical Chemistry B*, **2008**, 112, 12270-8	3.4	24
126	Network array of zinc oxide whiskers. *Nanotechnology*, **2005**, 16, 70-73	3.4	24
125	Thermal transport behavior of polycrystalline graphene: A molecular dynamics study. *Journal of Applied Physics*, **2014**, 116, 204303	2.5	23

124	Removal of arsenate from aqueous solution by nanocrystalline Mg/Al layered double hydroxide: sorption characteristics, prospects, and challenges. *Water Science and Technology*, **2010**, 61, 1411-7	2.2	23
123	One-dimensional single-crystalline bismuth oxide micro/nanoribbons: morphology-controlled synthesis and luminescent properties. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 8322-7	1.3	23
122	Fabrication and characterization of highly transparent Yb3+: Y2O3 ceramics. *Optical Materials*, **2015**, 50, 21-24	3.3	22
121	Phase transformation of a rare-earth Anderson polyoxometalate at low temperature. *CrystEngComm*, **2008**, 10, 1318	3.3	22
120	Plasma spraying of functionally graded yttria stabilized zirconia/NiCoCrAlY coating system using composite powders. *Journal of Thermal Spray Technology*, **2000**, 9, 245-249	2.5	22
119	Oxidation behavior of Mo-Si-B alloys at medium-to-high temperatures. *Journal of Materials Science and Technology*, **2021**, 60, 113-127	9.1	22
118	Influence of Particle Velocity When Propelled Using N2 or N2-He Mixed Gas on the Properties of Cold-Sprayed Ti6Al4V Coatings. *Coatings*, **2018**, 8, 327	2.9	22
117	Spark plasma sintering of Al□Cr□e quasicrystals: Electric field effects and densification mechanism. *Scripta Materialia*, **2016**, 114, 88-92	5.6	21
116	Dye removal by surfactant encapsulated polyoxometalates. *Journal of Hazardous Materials*, **2014**, 280, 428-35	12.8	21
115	Tailoring the radiation tolerance of vanadate□phosphate fluorapatites by chemical composition control. *RSC Advances*, **2013**, 3, 15178	3.7	21
114	Solid-state photopolymerization of a photochromic hybrid based on Keggin tungstophosphates. *CrystEngComm*, **2008**, 10, 652	3.3	21
113	Solution-processable organic-capped titanium oxide nanoparticle dielectrics for organic thin-film transistors. *Applied Physics Letters*, **2008**, 93, 113304	3.4	21
112	Temperature and strain-rate dependent mechanical properties of single-layer borophene. *Extreme Mechanics Letters*, **2018**, 19, 39-45	3.9	20
111	Syntheses, structures and properties of a series of photochromic hybrids based on Keggin tungstophosphates. *Journal of Solid State Chemistry*, **2009**, 182, 1040-1044	3.3	20
110	Calcium-lead fluoro-vanadinite apatites. I. Disequilibrium structures. *Acta Crystallographica Section B: Structural Science*, **2004**, 60, 138-45		20
109	Intense vortex pinning enhanced by semicrystalline defect traps in self-aligned nanostructured MgB2. *Applied Physics Letters*, **2003**, 83, 314-316	3.4	20
108	Al□Cr□e quasicrystals as novel reinforcements in Ti based composites consolidated using high pressure spark plasma sintering. *Materials and Design*, **2016**, 102, 255-263	8.1	20
107	Controlled Formation of Hierarchical Metal□Organic Frameworks Using CO2-Expanded Solvent Systems. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 7887-7893	8.3	19

106	Controlled Synthesis of Copper-Silicide Nanostructures. *Crystal Growth and Design*, **2010**, 10, 2983-2989	3.5	19
105	Formation of Cu diffusion channels in Ta layer of a Cu/Ta/SiO2/Si structure. *Applied Physics Letters*, **2002**, 80, 2296-2298	3.4	19
104	New double-sintering aid for fabrication of highly transparent ytterbium-doped yttria ceramics. *Journal of the European Ceramic Society*, **2016**, 36, 253-256	6	18
103	Fabrication and spectroscopic characterization of Ce3+ doped Sr2Y8(SiO4)6O2 translucent ceramics. *Optical Materials*, **2012**, 34, 1155-1160	3.3	18
102	Ab initio constrained crystal-chemical Rietveld refinement of Ca10(VxP1-xO4)6F2 apatites. *Acta Crystallographica Section B: Structural Science*, **2007**, 63, 37-48		18
101	Facile low temperature solid state synthesis of iodoapatite by high-energy ball milling. *RSC Advances*, **2014**, 4, 38718-38725	3.7	17
100	Rapid Copper Metallization of Textile Materials: a Controlled Two-Step Route to Achieve User-Defined Patterns under Ambient Conditions. *ACS Applied Materials & Interfaces*, **2015**, 7, 21545-51	9.5	16
99	Effect of graphene-oxide enhancement on large-deflection bending performance of thermoplastic polyurethane elastomer. *Composites Part B: Engineering*, **2016**, 89, 1-8	10	15
98	Microstructure characterization of Al□rFe quasicrystals sintered using spark plasma sintering. *Materials Characterization*, **2015**, 110, 264-271	3.9	15
97	Fabrication of catalytic membrane contactors based on polyoxometalates and polyvinylidene fluoride intended for degrading phenol in wastewater under mild conditions. *Separation and Purification Technology*, **2013**, 118, 162-169	8.3	15
96	Upconversion Luminescence of Gd2O3:Ln3+ Nanorods for White Emission and Cellular Imaging via Surface Charging and Crystallinity Control. *ACS Applied Nano Materials*, **2019**, 2, 1421-1430	5.6	15
95	Pump laser induced photodarkening in ZrO2-doped Yb:Y2O3 laser ceramics. *Journal of the European Ceramic Society*, **2019**, 39, 635-640	6	15
94	Effect of Substrate Surface Roughness on Microstructure and Mechanical Properties of Cold-Sprayed Ti6Al4V Coatings on Ti6Al4V Substrates. *Journal of Thermal Spray Technology*, **2019**, 28, 1959-1973	2.5	14
93	Novel Ti based metal matrix composites reinforced with Al□rFe quasicrystals approximants. *Materials Science and Technology*, **2015**, 31, 688-694	1.5	14
92	Self-supporting transition metal chalcogenides on metal substrates for catalytic water splitting. *Chemical Engineering Journal*, **2021**, 421, 129645	14.7	14
91	Electronic structure and vacancy formation of Li3N. *Applied Physics Letters*, **2009**, 94, 172104	3.4	13
90	Electron Irradiation Induced Transformation of (Pb5Ca5)(VO4)6F2 Apatite to CaVO3 Perovskite. *Journal of the American Ceramic Society*, **2004**, 88, 184-190	3.8	13
89	Calcium-lead fluoro-vanadinite apatites. II. Equilibrium structures. *Acta Crystallographica Section B: Structural Science*, **2004**, 60, 146-54		13

88	Magnetic Anisotropies in Cobalt-Nickel Ferrites (NixCo1-xFe2O4). *Journal of the Korean Physical Society*, **2008**, 52, 1483-1486	0.6	13
87	Microstructure, mechanical and tribological properties of cold sprayed Ti6Al4V□CoCr composite coatings. *Composites Part B: Engineering*, **2020**, 202, 108280	10	13
86	Optical and biological properties of transparent nanocrystalline hydroxyapatite obtained through spark plasma sintering. *Materials Science and Engineering C*, **2016**, 69, 956-66	8.3	13
85	Membrane compaction in forward osmosis process. *Desalination*, **2019**, 468, 114067	10.3	12
84	Structure and Thermal Expansion of Calcium-Thorium Apatite, [Ca4]F[Ca2Th4]T[(SiO4)6]O2. *Inorganic Chemistry*, **2015**, 54, 11356-61	5.1	12
83	Fabrication of Er:Y2O3 transparent ceramics for 2.7 □m mid-infrared solid-state lasers. *Journal of the European Ceramic Society*, **2020**, 40, 444-448	6	12
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81	A novel thin film composite hollow fiber osmotic membrane with one-step prepared dual-layer substrate for sludge thickening. *Journal of Membrane Science*, **2019**, 575, 98-108	9.6	11
80	Hybrid Nanomaterials with Single-Site Catalysts by Spatially Controllable Immobilization of Nickel Complexes via Photoclick Chemistry for Alkene Epoxidation. *ACS Nano*, **2018**, 12, 5903-5912	16.7	11
79	Preparation and Formula Analysis of Anti-Biofouling Titania□Polyurea Spray Coating with Nano/Micro-Structure. *Coatings*, **2019**, 9, 560	2.9	10
78	Atomic-Scale Control of Magnetism at the Titanite-Manganite Interfaces. *Nano Letters*, **2019**, 19, 3057-3065	10.5	10
77	Radiation-induced amorphization of Ce-doped Mg2Y8(SiO4)6O2 silicate apatite. *Nuclear Instruments & Methods in Physics Research B*, **2016**, 379, 102-106	1.2	10
76	Low-level sintering aids for highly transparent Yb:Y2O3 ceramics. *Journal of Alloys and Compounds*, **2017**, 695, 1414-1419	5.7	10
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74	Effect of transition metal (M = Co, Ni, Cu) substitution on electronic structure and vacancy formation of Li3N. *Journal of Materials Chemistry*, **2011**, 21, 165-170		10
73	High density diffusion barrier of ionized metal plasma deposited Ti in Al□0.5%Cu/Ti/SiO2/Si structure. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2001**, 19, 388		10
72	A Review of Transmission Electron Microscopy of Quasicrystals□How Are Atoms Arranged?. *Crystals*, **2016**, 6, 105	2.3	10
71	A new strategy of nanocompositing vanadium dioxide with excellent durability. *Journal of Materials Chemistry A*, **2021**, 9, 15618-15628	13	10

70	Rapid ultrasound-assisted synthesis of controllable Zn/Co-based zeolitic imidazolate framework nanoparticles for heterogeneous catalysis. *Microporous and Mesoporous Materials*, **2021**, 314, 110777	5.3	10
69	Electron-beam radiation induced degradation of silicon nitride and its impact to semiconductor failure analysis by TEM. *AIP Advances*, **2018**, 8, 115327	1.5	10
68	Influence of microstructures on mechanical properties and tribology behaviors of TiN/TiXAl1 XN multilayer coatings. *Surface and Coatings Technology*, **2017**, 320, 441-446	4.4	9
67	Anisotropic imprint of amorphization and phase separation in manganite thin films via laser interference irradiation. *Small*, **2015**, 11, 576-84	11	9
66	K10[Co4(H2O)2(B-SiW9O34H)2]21H2O: A sandwich polyoxometalate based on the magnetically interesting element cobalt. *Inorganic Chemistry Communication*, **2007**, 10, 1378-1380	3.1	9
65	Magnetic nanobraids of iron-doped amorphous silica. *Applied Physics Letters*, **2004**, 85, 5364-5366	3.4	9
64	Elucidation of thermally induced internal porosity in zinc oxide nanorods. *Nano Research*, **2018**, 11, 2412-2423	10	9
63	Morphological Growth and Theoretical Understanding of Gold and Other Noble Metal Nanoplates. *Chemistry - A European Journal*, **2018**, 24, 15589-15595	4.8	8
62	Fabrication and microstructural characterizations of lasing grade Nd:Y2O3 ceramics. *Journal of the American Ceramic Society*, **2019**, 102, 7462-7468	3.8	8
61	Strain hardening cementitious composites incorporating high volumes of municipal solid waste incineration fly ash. *Construction and Building Materials*, **2017**, 146, 183-191	6.7	8
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59	Biological and Physiochemical Methods of Biofilm Adhesion Resistance Control of Medical-Context Surface. *International Journal of Biological Sciences*, **2021**, 17, 1769-1781	11.2	8
58	Transparent Ceramic Materials. *Topics in Mining, Metallurgy and Materials Engineering*, **2015**, 29-91	0.4	7
57	Mechanism of CO2 capture in nanostructured sodium amide encapsulated in porous silica. *Surface and Coatings Technology*, **2018**, 350, 227-233	4.4	7
56	Yttria nanopowders with low degree of aggregation by a spray precipitation method. *Ceramics International*, **2018**, 44, 20472-20477	5.1	7
55	Tunable Ionic and Electronic Conduction of Lithium Nitride via Phosphorus and Arsenic Substitution: A First-Principles Study. *Journal of Physical Chemistry C*, **2010**, 114, 16706-16709	3.8	7
54	Hierarchical ZnO/Bi2O3 nanostructures: synthesis, characterization, and electron-beam modification. *Applied Physics A: Materials Science and Processing*, **2010**, 98, 91-96	2.6	7
53	Self-assembly of rare-earth Anderson polyoxometalates on the surface of imide polymeric hollow fiber membranes potentially for organic pollutant degradation. *Separation and Purification Technology*, **2015**, 151, 155-164	8.3	6

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50	Electron radiation-induced material diffusion and nanocrystallization in nanostructured amorphous CoFeB thin film. *Acta Materialia*, **2018**, 161, 221-236	8.4	6
49	Fabrication of Zinc Substrate Encapsulated by Fluoropolyurethane and Its Drag-Reduction Enhancement by Chemical Etching. *Coatings*, **2020**, 10, 377	2.9	5
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