Zhi Li Dong

List of Publications by Year in Descending Order

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	Polyoxometalates for bifunctional applications: Catalytic dye degradation and anticancer activity. *Chemosphere*, **2022**, 286, 131869	8.4	5
212	Surface Modification of 304L Stainless Steel and Interface Engineering by HiPIMS Pre-Treatment. *Coatings*, **2022**, 12, 727	2.9	1
211	Preparation and enhanced oxidation behavior of microalloyed Mo5SiB2 alloy at 1300℃. *Materials Characterization*, **2022**, 189, 112001	3.9	
210	Efficiency degradation of laser ceramics caused by inappropriate dispersants and sintering aids. *Optical Materials*, **2021**, 122, 111789	3.3	
209	Practical Reviews of Exhaust Systems Operation in Semiconductor Industry. *IOP Conference Series: Earth and Environmental Science*, **2021**, 859, 012074	0.3	0
208	Sintered Ni metal as a matrix of robust self-supporting electrode for ultra-stable hydrogen evolution. *Chemical Engineering Journal*, **2021**, 430, 133040	14.7	1
207	Rapid preparation and antimicrobial activity of polyurea coatings with RE-Doped nano-ZnO. *Microbial Biotechnology*, **2021**,	6.3	3
206	3D Printing of Transparent Spinel Ceramics with Transmittance Approaching the Theoretical Limit. *Advanced Materials*, **2021**, 33, e2007072	24	5
205	Exploring the evolution of pores in HIPed Y2O3 transparent ceramics. *Ceramics International*, **2021**, 47, 11637-11643	5.1	0
204	Thermal Stability and Lattice Strain Evolution of High-Nb-Containing TiAl Alloy under Low-Cycle-Fatigue Loading. *Advanced Engineering Materials*, **2021**, 23, 2001337	3.5	1
203	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
202	Effect of pore geometry on ultra-densified hydrogen in microporous carbons. *Carbon*, **2021**, 173, 968-979	10.4	4
201	Fabrication of Highly Transparent YO Ceramics with CaO as Sintering Aid. *Materials*, **2021**, 14,	3.5	2
200	Diatom-inspired 2D nitric oxide releasing anti-infective porous nanofrustules. *Journal of Materials Chemistry B*, **2021**, 9, 7229-7237	7.3	1
199	A new strategy of nanocompositing vanadium dioxide with excellent durability. *Journal of Materials Chemistry A*, **2021**, 9, 15618-15628	13	10
198	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
197	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

196	Polycrystalline alumina ceramic fabrication using digital stereolithographic light process. *Ceramics International*, **2021**, 47, 33815-33815	5.1	0
195	Mixed-addenda polyoxometalates for enhanced electrochemical water oxidation. *MRS Advances*, **2021**, 6, 588-593	0.7	
194	Self-supporting transition metal chalcogenides on metal substrates for catalytic water splitting. *Chemical Engineering Journal*, **2021**, 421, 129645	14.7	14
193	Assessing the potential of integrally skinned asymmetric hollow fiber membranes for addressing membrane fouling in pressure retarded osmosis process. *Desalination*, **2021**, 520, 115347	10.3	1
192	Analysis of Biofilm-Resistance Factors in Singapore Drinking Water Distribution System. *IOP Conference Series: Earth and Environmental Science*, **2020**, 558, 042004	0.3	
191	A Review on Recent Advances in Electrochromic Devices: A Material Approach. *Advanced Engineering Materials*, **2020**, 22, 2000082	3.5	52
190	Fabrication of Zinc Substrate Encapsulated by Fluoropolyurethane and Its Drag-Reduction Enhancement by Chemical Etching. *Coatings*, **2020**, 10, 377	2.9	5
189	Fabrication of laser grade Yb: Y2O3 transparent ceramics with ZrO2 additive through hot isostatic pressing. *Materials Today Communications*, **2020**, 24, 101185	2.5	4
188	Effect of Nano-Titanium Dioxide Contained in Titania-Polyurea Coating on Marina Biofouling and Drag Reduction. *Journal of Biomedical Nanotechnology*, **2020**, 16, 1530-1541	4	3
187	Electron beam radiation and its impacts to failure analysis in semiconductor industry **2020**, 19-69		
186	Microstructure, mechanical and tribological properties of cold sprayed Ti6Al4V□CoCr composite coatings. *Composites Part B: Engineering*, **2020**, 202, 108280	10	13
185	Cyclic deformation and lattice strain distribution of high Nb containing TiAl alloy. *Materials Science and Technology*, **2020**, 36, 1507-1515	1.5	1
184	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
183	Preparation and Formula Analysis of Anti-Biofouling Titania□Polyurea Spray Coating with Nano/Micro-Structure. *Coatings*, **2019**, 9, 560	2.9	10
182	Bifunctional TiO2/AlZr Thin Films on Steel Substrate Combining Corrosion Resistance and Photocatalytic Properties. *Coatings*, **2019**, 9, 564	2.9	4
181	Additively manufactured CoCrFeNiMn high-entropy alloy via pre-alloyed powder. *Materials and Design*, **2019**, 168, 107576	8.1	75
180	Discharge and densification in the spark plasma sintering of quasicrystal particles. *Journal of Materials Science*, **2019**, 54, 8727-8742	4.3	2
179	Crystal structure of calcium vanadate-phosphate fluoride. *Powder Diffraction*, **2019**, 34, S23-S26	1.8	

178	Atomic-Scale Control of Magnetism at the Titanite-Manganite Interfaces. *Nano Letters*, **2019**, 19, 3057-3065	12.5	10
177	Perovskite-Ion Beam Interactions: Toward Controllable Light Emission and Lasing. *ACS Applied Materials & Interfaces*, **2019**, 11, 15756-15763	9.5	25
176	Membrane compaction in forward osmosis process. *Desalination*, **2019**, 468, 114067	10.3	12
175	Fabrication and microstructural characterizations of lasing grade Nd:Y2O3 ceramics. *Journal of the American Ceramic Society*, **2019**, 102, 7462-7468	3.8	8
174	Electronic and Geometric Structures of Rechargeable Lithium Manganese Sulfate LiMn(SO) Cathode. *ACS Omega*, **2019**, 4, 11338-11345	3.9	0
173	Synthesis and Characterization of Apatite Wasteforms Using Simulated Radioactive Liquid Waste. *Chemistry Letters*, **2019**, 48, 881-884	1.7	1
172	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
171	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
170	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
169	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
168	Pump laser induced photodarkening in ZrO2-doped Yb:Y2O3 laser ceramics. *Journal of the European Ceramic Society*, **2019**, 39, 635-640	6	15
167	Temperature and strain-rate dependent mechanical properties of single-layer borophene. *Extreme Mechanics Letters*, **2018**, 19, 39-45	3.9	20
166	Morphological Growth and Theoretical Understanding of Gold and Other Noble Metal Nanoplates. *Chemistry - A European Journal*, **2018**, 24, 15589-15595	4.8	8
165	Mechanism of CO2 capture in nanostructured sodium amide encapsulated in porous silica. *Surface and Coatings Technology*, **2018**, 350, 227-233	4.4	7
164	Yttria nanopowders with low degree of aggregation by a spray precipitation method. *Ceramics International*, **2018**, 44, 20472-20477	5.1	7
163	Elucidation of thermally induced internal porosity in zinc oxide nanorods. *Nano Research*, **2018**, 11, 2412-2423	9.9	9
162	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
161	Introducing Cations (Zn2+, Sn2+ and Mg2+) and Anions(Cl) to Tune Mn Photoluminescence Intensity of Doped Perovskite Nanocrystals(CsPbCl3). *ChemistrySelect*, **2018**, 3, 11986-11992	1.8	5

160	Dynamic Fracture Mechanism of Quasicrystal-Containing Al□Cr□Fe Consolidated Using Spark Plasma Sintering. *Crystals*, **2018**, 8, 385	2.3	1
159	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
158	Submicron-grained Yb:Lu2O3 transparent ceramics with lasing quality. *Journal of the American Ceramic Society*, **2018**, 102, 2587	3.8	3
157	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
156	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
155	Electron radiation-induced material diffusion and nanocrystallization in nanostructured amorphous CoFeB thin film. *Acta Materialia*, **2018**, 161, 221-236	8.4	6
154	Hierarchically-structured Co□CuBi2O4 and Cu□CuBi2O4 for sulfanilamide removal via peroxymonosulfate activation. *Catalysis Today*, **2017**, 280, 2-7	5.3	30
153	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
152	Selective laser melting of nickel powder. *Rapid Prototyping Journal*, **2017**, 23, 750-757	3.8	24
151	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
150	Controlled Formation of Hierarchical Metal□Organic Frameworks Using CO2-Expanded Solvent Systems. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 7887-7893	8.3	19
149	The Yttrium Effect on Nanoscale Structure, Mechanical Properties, and High-Temperature Oxidation Resistance of (Ti0.6Al0.4)1□ Y x N Multilayer Coatings. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2017**, 48, 4097-4110	2.3	2
148	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
147	Low-level sintering aids for highly transparent Yb:Y2O3 ceramics. *Journal of Alloys and Compounds*, **2017**, 695, 1414-1419	5.7	10
146	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
145	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
144	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
143	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

142	Spark plasma sintering of AlCrFe quasicrystals: Electric field effects and densification mechanism. *Scripta Materialia*, **2016**, 114, 88-92	5.6	21
141	Effect of graphene-oxide enhancement on large-deflection bending performance of thermoplastic polyurethane elastomer. *Composites Part B: Engineering*, **2016**, 89, 1-8	10	15
140	A new integrated approach for dye removal from wastewater by polyoxometalates functionalized membranes. *Journal of Hazardous Materials*, **2016**, 301, 462-70	12.8	111
139	A Review of Transmission Electron Microscopy of QuasicrystalsHow Are Atoms Arranged?. *Crystals*, **2016**, 6, 105	2.3	10
138	Synthesis and Crystal Structure Characterization of Oxysilicate Apatites for Stabilization of Sr and Rare-Earth Elements. *Journal of the American Ceramic Society*, **2016**, 99, 1761-1768	3.8	2
137	Ferroelectricity and ferroelectric resistive switching in sputtered Hf0.5Zr0.5O2 thin films. *Applied Physics Letters*, **2016**, 108, 232905	3.4	45
136	Ferroelectricity emerging in strained (111)-textured ZrO2 thin films. *Applied Physics Letters*, **2016**, 108, 012906	3.4	34
135	An effective analytical model of selective laser melting. *Virtual and Physical Prototyping*, **2016**, 11, 21-26	10.1	47
134	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
133	AlCrFe 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
132	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
131	Electrochemical Cycling Induced Surface Segregation of AuPt Nanoparticles in HClO4and H2SO4. *Journal of the Electrochemical Society*, **2016**, 163, F752-F760	3.9	5
130	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
129	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
128	Chemical functionalization of graphene oxide for improving mechanical and thermal properties of polyurethane composites. *Materials and Design*, **2015**, 85, 808-814	8.1	78
127	Transparent Ceramic Materials. *Topics in Mining, Metallurgy and Materials Engineering*, **2015**, 29-91	0.4	7
126	Sintering and Densification (II)New Sintering Technologies. *Topics in Mining, Metallurgy and Materials Engineering*, **2015**, 395-465	0.4	
125	Grain Growth and Microstructure Development. *Topics in Mining, Metallurgy and Materials Engineering*, **2015**, 519-579	0.4	1

124	Laser Applications. *Topics in Mining, Metallurgy and Materials Engineering*, **2015**, 581-674	0.4	
123	Anisotropic imprint of amorphization and phase separation in manganite thin films via laser interference irradiation. *Small*, **2015**, 11, 576-84	11	9
122	Fabrication and characterization of highly transparent Yb3+: Y2O3 ceramics. *Optical Materials*, **2015**, 50, 21-24	3.3	22
121	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
120	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
119	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
118	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
117	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
116	Microstructure characterization of Al□CrFe quasicrystals sintered using spark plasma sintering. *Materials Characterization*, **2015**, 110, 264-271	3.9	15
115	Review of selective laser melting: Materials and applications. *Applied Physics Reviews*, **2015**, 2, 041101	17.3	1001
114	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
113	Structure and Thermal Expansion of Calcium-Thorium Apatite, [Ca4]F[Ca2Th4]T[(SiO4)6]O2. *Inorganic Chemistry*, **2015**, 54, 11356-61	5.1	12
112	A molybdovanadophosphate-based surfactant encapsulated heteropolyanion with multi-lamellar nano-structure for catalytic wet air oxidation of organic pollutants under ambient conditions. *RSC Advances*, **2015**, 5, 94743-94751	3.7	1
111	Novel Ti based metal matrix composites reinforced with Al□CrFe quasicrystals approximants. *Materials Science and Technology*, **2015**, 31, 688-694	1.5	14
110	Colloidal nanocrystals of orthorhombic Cu2ZnGeS4: phase-controlled synthesis, formation mechanism and photocatalytic behavior. *Nanoscale*, **2015**, 7, 3247-53	7.7	36
109	Large-area synthesis of monolayer and few-layer MoSe2 films on SiO2 substrates. *Nano Letters*, **2014**, 14, 2419-25	11.5	312
108	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
107	Facile low temperature solid state synthesis of iodoapatite by high-energy ball milling. *RSC Advances*, **2014**, 4, 38718-38725	3.7	17

106	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
105	Dye removal by surfactant encapsulated polyoxometalates. *Journal of Hazardous Materials*, **2014**, 280, 428-35	12.8	21
104	Nanotubes: Mechanical Force-Driven Growth of Elongated Bending TiO2-based Nanotubular Materials for Ultrafast Rechargeable Lithium Ion Batteries (Adv. Mater. 35/2014). *Advanced Materials*, **2014**, 26, 6046-6046	24	6
103	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
102	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
101	Structural and Magnetic Properties of (textbf {x}) Fe2 TiO4 (cdot) ((textbf {1}boldsymbol {-}boldsymbol {x}))Fe3O4 ((textbf {0.75}boldsymbol {leq x leq }1)). *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	0
100	R□ktitelbild: Unravelling the Correlation between the Aspect Ratio of Nanotubular Structures and Their Electrochemical Performance To Achieve High-Rate and Long-Life Lithium-Ion Batteries (Angew. Chem. 49/2014). *Angewandte Chemie*, **2014**, 126, 13840-13840	3.6	
99	Thermal transport behavior of polycrystalline graphene: A molecular dynamics study. *Journal of Applied Physics*, **2014**, 116, 204303	2.5	23
98	An epitaxial ferroelectric tunnel junction on silicon. *Advanced Materials*, **2014**, 26, 7185-9	24	55
97	State-of-the-Art Review on Selective Laser Melting of Non-Ferrous Metals **2014**,		4
96	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
95	Tailoring the radiation tolerance of vanadate□phosphate fluorapatites by chemical composition control. *RSC Advances*, **2013**, 3, 15178	3.7	21
94	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
93	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
92	Size dependence of radiation-induced amorphization and recrystallization of synthetic nanostructured CePO4 monazite. *Acta Materialia*, **2013**, 61, 2984-2992	8.4	29
91	Facile synthesis of luminescent AgInS□ZnS solid solution nanorods. *Small*, **2013**, 9, 2689-95	11	29
90	Three-dimensional CdS-titanate composite nanomaterials for enhanced visible-light-driven hydrogen evolution. *Small*, **2013**, 9, 996-1002	11	118
89	Understanding the Role of Nanostructures for Efficient Hydrogen Generation on Immobilized Photocatalysts. *Advanced Energy Materials*, **2013**, 3, 1368-1380	21.8	118

88	Ag⁄AgBr/TiO2/RGO nanocomposite for visible-light photocatalytic degradation of penicillin G. *Journal of Materials Chemistry A*, **2013**, 1, 4718	13	171
87	Hollow Nanostructures: Efficient Ag@AgCl Cubic Cage Photocatalysts Profit from Ultrafast Plasmon-Induced Electron Transfer Processes (Adv. Funct. Mater. 23/2013). *Advanced Functional Materials*, **2013**, 23, 2902-2902	15.6	1
86	Efficient Ag@AgCl Cubic Cage Photocatalysts Profit from Ultrafast Plasmon-Induced Electron Transfer Processes. *Advanced Functional Materials*, **2013**, 23, 2932-2940	15.6	255
85	Multiferroicity in manganite/titanate superlattices determined by oxygen pressure-mediated cation defects. *Journal of Applied Physics*, **2013**, 113, 164302	2.5	2
84	Synthesis of fivefold stellate polyhedral gold nanoparticles with {110}-facets via a seed-mediated growth method. *Small*, **2013**, 9, 705-10	11	41
83	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
82	Fabrication and spectroscopic characterization of Ce3+ doped Sr2Y8(SiO4)6O2 translucent ceramics. *Optical Materials*, **2012**, 34, 1155-1160	3.3	18
81	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
80	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
79	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
78	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
77	Hierarchical TiO2 Nanoflakes and Nanoparticles Hybrid Structure for Improved Photocatalytic Activity. *Journal of Physical Chemistry C*, **2012**, 116, 2772-2780	3.8	231
76	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
75	Interface and Surface Cation Stoichiometry Modified by Oxygen Vacancies in Epitaxial Manganite Films. *Advanced Functional Materials*, **2012**, 22, 4312-4321	15.6	54
74	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
73	Anisotropic magnetoresistance in topological insulator Bi1.5Sb0.5Te1.8Se1.2/CoFe heterostructures. *AIP Advances*, **2012**, 2, 042171	1.5	8
72	Hierarchical protonated titanate nanostructures for lithium-ion batteries. *Nanoscale*, **2011**, 3, 4074-7	7.7	32
71	Low-Temperature Facile Synthesis of ZnO Rod Arrays and Their Device Applications. *IEEE Journal of Selected Topics in Quantum Electronics*, **2011**, 17, 801-807	3.8	10

70	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
69	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
68	Ion Beam Irradiation-induced Amorphization in Nano-sized KxLnyTa2O7-v Tantalate Pyrochlore. *Materials Research Society Symposia Proceedings*, **2011**, 1298, 147		2
67	Synthesis of Layered Titanate Micro/nano-materials for Efficient Pollutant Treatment in Aqueous Media. *Materials Research Society Symposia Proceedings*, **2011**, 1309, 119		
66	Synthesis and Crystal Structure Characterization of Silicate Apatite Sr2Y8(SiO4)6O2. *Journal of the American Ceramic Society*, **2010**, 93, 1176-1182	3.8	34
65	Development of Translucent Oxyapatite Ceramics by Spark Plasma Sintering. *Journal of the American Ceramic Society*, **2010**, 93, 3060-3063	3.8	5
64	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
63	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
62	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
61	Thin-walled graphitic nanocages as a unique platform for amperometric glucose biosensor. *ACS Applied Materials & Interfaces*, **2010**, 2, 2481-4	9.5	57
60	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
59	Surface Eu-Treated ZnO Nanowires with Efficient Red Emission. *Journal of Physical Chemistry C*, **2010**, 114, 18081-18084	3.8	41
58	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
57	CrSi(2) hexagonal nanowebs. *Journal of the American Chemical Society*, **2010**, 132, 15875-7	16.4	29
56	Hierarchical layered titanate microspherulite: formation by electrochemical spark discharge spallation and application in aqueous pollutant treatment. *Journal of Materials Chemistry*, **2010**, 20, 10169		47
55	Controlled Synthesis of Copper-Silicide Nanostructures. *Crystal Growth and Design*, **2010**, 10, 2983-2989	3.5	19
54	A SnO2 Nanoparticle/Nanobelt and Si Heterojunction Light-Emitting Diode. *Journal of Physical Chemistry C*, **2010**, 114, 18390-18395	3.8	41
53	Hierarchical ZnO/Bi2O3 nanostructures: synthesis, characterization, and electron-beam modification. *Applied Physics A: Materials Science and Processing*, **2010**, 98, 91-96	2.6	7

52	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
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