Xiujian Zhao

List of Publications by Citations

465 papers	17,753 citations	63 h-index	114 g-index
481 ext. papers	20,021 ext. citations	5.4 avg, IF	7.05 L-index

#	Paper	IF	Citations
465	The Effect of Calcination Temperature on the Surface Microstructure and Photocatalytic Activity of TiO2 Thin Films Prepared by Liquid Phase Deposition. *Journal of Physical Chemistry B*, **2003**, 107, 13871-13879	3.4	1026
464	Tuning the relative concentration ratio of bulk defects to surface defects in TiO2 nanocrystals leads to high photocatalytic efficiency. *Journal of the American Chemical Society*, **2011**, 133, 16414-7	16.4	830
463	Effect of surface structure on photocatalytic activity of TiO2 thin films prepared by sol-gel method. *Thin Solid Films*, **2000**, 379, 7-14	2.2	476
462	Effects of acidic and basic hydrolysis catalysts on the photocatalytic activity and microstructures of bimodal mesoporous titania. *Journal of Catalysis*, **2003**, 217, 69-69	7.3	468
461	Photocatalytic fixation of nitrogen to ammonia: state-of-the-art advancements and future prospects. *Materials Horizons*, **2018**, 5, 9-27	14.4	435
460	Surface and Heterointerface Engineering of 2D MXenes and Their Nanocomposites: Insights into Electro- and Photocatalysis. *CheM*, **2019**, 5, 18-50	16.2	365
459	Photocatalytic activity of nanometer TiO2 thin films prepared by the sol□gel method. *Materials Chemistry and Physics*, **2001**, 69, 25-29	4.4	301
458	Synergetic Effect between Photocatalysis on TiO2 and Thermocatalysis on CeO2 for Gas-Phase Oxidation of Benzene on TiO2/CeO2 Nanocomposites. *ACS Catalysis*, **2015**, 5, 3278-3286	13.1	242
457	Understanding of Electrochemical Mechanisms for CO Capture and Conversion into Hydrocarbon Fuels in Transition-Metal Carbides (MXenes). *ACS Nano*, **2017**, 11, 10825-10833	16.7	236
456	Surface modification of ZnO with Ag improves its photocatalytic efficiency and photostability. *Journal of Photochemistry and Photobiology A: Chemistry*, **2010**, 216, 149-155	4.7	229
455	Comparison of dye photodegradation and its coupling with light-to-electricity conversion over TiO(2) and ZnO. *Langmuir*, **2010**, 26, 591-7	4	228
454	Enhanced photocatalytic activity of TiO2 powder (P25) by hydrothermal treatment. *Journal of Molecular Catalysis A*, **2006**, 253, 112-118		227
453	Preparation, characterization and photocatalytic activity of in situ N,S-codoped TiO2 powders. *Journal of Molecular Catalysis A*, **2006**, 246, 176-184		201
452	Effect of giant oxygen vacancy defects on the catalytic oxidation of OMS-2 nanorods. *Journal of Materials Chemistry A*, **2013**, 1, 6736	13	181
451	Highly efficient visible-light-induced photocatalytic activity of nanostructured AgI/TiO2 photocatalyst. *Langmuir*, **2008**, 24, 8351-7	4	178
450	Thermodynamic and kinetic analysis of heterogeneous photocatalysis for semiconductor systems. *Physical Chemistry Chemical Physics*, **2014**, 16, 8751-60	3.6	172
449	Preparation and characterization of super-hydrophilic porous TiO2 coating films. *Materials Chemistry and Physics*, **2001**, 68, 253-259	4.4	167

448	Preparation and photocatalytic activity of mesoporous anatase TiO2 nanofibers by a hydrothermal method. *Journal of Photochemistry and Photobiology A: Chemistry*, **2006**, 182, 121-127	4.7	165
447	Tuning the K+ concentration in the tunnel of OMS-2 nanorods leads to a significant enhancement of the catalytic activity for benzene oxidation. *Environmental Science & Technology*, **2013**, 47, 13730-6	10.3	163
446	Effect of substrates on the photocatalytic activity of nanometer TiO2 thin films. *Materials Research Bulletin*, **2000**, 35, 1293-1301	5.1	153
445	Tremendous effect of the morphology of birnessite-type manganese oxide nanostructures on catalytic activity. *ACS Applied Materials & Interfaces*, **2014**, 6, 14981-7	9.5	140
444	Preparation, Microstructure and Photocatalytic Activity of the Porous TiO2 Anatase Coating by Sol-Gel Processing. *Journal of Sol-Gel Science and Technology*, **2000**, 17, 163-171	2.3	133
443	Highly Luminescent Cesium Lead Halide Perovskite Nanocrystals Stabilized in Glasses for Light-Emitting Applications. *Advanced Optical Materials*, **2019**, 7, 1801663	8.1	132
442	Unravelling the electrochemical mechanisms for nitrogen fixation on single transition metal atoms embedded in defective graphitic carbon nitride. *Journal of Materials Chemistry A*, **2018**, 6, 21941-21948	13	129
441	Photocatalytic mechanism of TiO2□CeO2 films prepared by magnetron sputtering under UV and visible light. *Surface Science*, **2005**, 595, 203-211	1.8	126
440	Precipitation and Optical Properties of CsPbBr3 Quantum Dots in Phosphate Glasses. *Journal of the American Ceramic Society*, **2016**, 99, 2875-2877	3.8	124
439	Ultrasonic preparation of mesoporous titanium dioxide nanocrystalline photocatalysts and evaluation of photocatalytic activity. *Journal of Molecular Catalysis A*, **2005**, 227, 75-80		124
438	Effect of surface treatment on the photocatalytic activity and hydrophilic property of the sol-gel derived TiO2 thin films. *Materials Research Bulletin*, **2001**, 36, 97-107	5.1	124
437	Development of multifunctional photoactive self-cleaning glasses. *Journal of Non-Crystalline Solids*, **2008**, 354, 1424-1430	3.9	120
436	Effects of PAA additive and temperature on morphology of calcium carbonate particles. *Journal of Solid State Chemistry*, **2004**, 177, 681-689	3.3	117
435	Low temperature fabrication of V-doped TiO2 nanoparticles, structure and photocatalytic studies. *Journal of Hazardous Materials*, **2009**, 169, 1112-8	12.8	116
434	Effects of alcohol content and calcination temperature on the textural properties of bimodally mesoporous titania. *Applied Catalysis A: General*, **2003**, 255, 309-320	5.1	111
433	The photoluminescence spectroscopic study of anatase TiO2 prepared by magnetron sputtering. *Materials Chemistry and Physics*, **2007**, 106, 350-353	4.4	109
432	Coupling Oxygen Ion Conduction to Photocatalysis in Mesoporous Nanorod-like Ceria Significantly Improves Photocatalytic Efficiency. *Journal of Physical Chemistry C*, **2011**, 115, 14050-14057	3.8	108
431	Electrical, structural, photoluminescence and optical properties of p-type conducting, antimony-doped SnO2 thin films. *Acta Materialia*, **2009**, 57, 278-285	8.4	108

430	Metal Support Interaction in Pt Nanoparticles Partially Confined in the Mesopores of Microsized Mesoporous CeO2 for Highly Efficient Purification of Volatile Organic Compounds. *ACS Catalysis*, **2016**, 6, 418-427	13.1	106
429	N-doped carbon-dots for luminescent solar concentrators. *Journal of Materials Chemistry A*, **2017**, 5, 21453-21459	10.7	106
428	Linear and Nonlinear Optical Properties of Ag Nanowire Polarizing Glass. *Advanced Functional Materials*, **2006**, 16, 2405-2408	15.6	102
427	Facile Fabrication of 3D-Ordered Macroporous Nanocrystalline Iron Oxide Films with Highly Efficient Visible Light Induced Photocatalytic Activity. *Journal of Physical Chemistry C*, **2010**, 114, 9706-9712	3.8	101
426	Durable Self-Cleaning Surfaces with Superhydrophobic and Highly Oleophobic Properties. *Langmuir* , **2019**, 35, 8404-8412	4	99
425	Preparation and enhanced photocatalytic activity of TiO nanocrystals with internal pores. *ACS Applied Materials & Interfaces*, **2014**, 6, 1608-15	9.5	95
424	Low-temperature preparation and visible-light-induced catalytic activity of anatase F N-codoped TiO2. *Journal of Molecular Catalysis A*, **2007**, 277, 119-126		95
423	Structural evidence of secondary phase segregation from the Raman vibrational modes in Zn1 CoxO (0. *Applied Physics Letters*, **2007**, 91, 031908	3.4	93
422	One-dimensional silver nanowires synthesized by self-seeding polyol process. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	91
421	Preparation of monodispersed cubic calcium carbonate particles via precipitation reaction. *Materials Letters*, **2004**, 58, 1565-1570	3.3	89
420	2D MoS2/polyaniline heterostructures with enlarged interlayer spacing for superior lithium and sodium storage. *Journal of Materials Chemistry A*, **2017**, 5, 5383-5389	13	88
419	UV Vis Infrared Light Driven Thermocatalytic Activity of Octahedral Layered Birnessite Nanoflowers Enhanced by a Novel Photoactivation. *Advanced Functional Materials*, **2016**, 26, 4518-4526	15.6	86
418	Extremely efficient full solar spectrum light driven thermocatalytic activity for the oxidation of VOCs on OMS-2 nanorod catalyst. *Applied Catalysis B: Environmental*, **2015**, 174-175, 496-503	21.8	85
417	The pivotal effect of the interaction between reactant and anatase TiO2 nanosheets with exposed {0 0 1} facets on photocatalysis for the photocatalytic purification of VOCs. *Applied Catalysis B: Environmental*, **2016**, 181, 625-634	21.8	83
416	Facile preparation of calcium carbonate particles with unusual morphologies by precipitation reaction. *Journal of Crystal Growth*, **2004**, 261, 566-570	1.6	82
415	The structure and photocatalytic studies of N-doped TiO2 films prepared by radio frequency reactive magnetron sputtering. *Solar Energy Materials and Solar Cells*, **2008**, 92, 1-10	6.4	80
414	Synergetic effect between photocatalysis on TiO2 and solar light-driven thermocatalysis on MnOx for benzene purification on MnOx/TiO2 nanocomposites. *Journal of Materials Chemistry A*, **2015**, 3, 5509-5516	13	78
413	Proposing the prospects of TiCN transition metal carbides (MXenes) as anodes of Li-ion batteries: a DFT study. *Physical Chemistry Chemical Physics*, **2016**, 18, 32937-32943	3.6	78

412	The grain size and surface hydroxyl content of super-hydrophilic TiO2/SiO2 composite nanometer thin films. *Journal of Materials Science Letters*, **2001**, 20, 1745-1748		78
411	Effect of film thickness on the grain size and photocatalytic activity of the sol-gel derived nanometer TiO2 thin films. *Journal of Materials Science Letters*, **2000**, 19, 1015-1017		78
410	Photocatalytic Activity and Characterization of the Sol-Gel Derived Pb-Doped TiO2 Thin Films. *Journal of Sol-Gel Science and Technology*, **2002**, 24, 39-48	2.3	72
409	Full solar spectrum light driven thermocatalysis with extremely high efficiency on nanostructured Ce ion substituted OMS-2 catalyst for VOCs purification. *Nanoscale*, **2015**, 7, 2633-40	7.7	71
408	The Effect of SiO2 Addition on the Grain Size and Photocatalytic Activity of TiO2 Thin Films. *Journal of Sol-Gel Science and Technology*, **2002**, 24, 95-103	2.3	69
407	Effect of heat treatment on the UV□vis□NIR and PL spectra of TiO2 films. *Journal of Electron Spectroscopy and Related Phenomena*, **2005**, 148, 158-163	1.7	69
406	Solar-Light-Driven CO2 Reduction by CH4 on Silica-Cluster-Modified Ni Nanocrystals with a High Solar-to-Fuel Efficiency and Excellent Durability. *Advanced Energy Materials*, **2018**, 8, 1702472	21.8	68
405	The effect of O2 partial pressure on the structure and photocatalytic property of TiO2 films prepared by sputtering. *Materials Chemistry and Physics*, **2005**, 90, 207-212	4.4	67
404	Formation of AgI/TiO2 nanocomposite leads to excellent thermochromic reversibility and photostability. *Journal of Materials Chemistry*, **2011**, 21, 9263		66
403	Low temperature photoluminescence properties of CsPbBr quantum dots embedded in glasses. *Physical Chemistry Chemical Physics*, **2017**, 19, 17349-17355	3.6	65
402	Sol□gel fabrication of compact, crack-free alumina film. *Materials Research Bulletin*, **2007**, 42, 600-608	5.1	62
401	Synthesis, characterization and its visible-light-induced photocatalytic property of carbon doped ZnO. *Materials Letters*, **2009**, 63, 1747-1749	3.3	61
400	UV-Visible-Infrared Light Driven Thermocatalysis for Environmental Purification on Ramsdellite MnO Hollow Spheres Considerably Promoted by a Novel Photoactivation. *ACS Applied Materials & Interfaces*, **2017**, 9, 2350-2357	9.5	59
399	Photothermocatalytic Synergetic Effect Leads to High Efficient Detoxification of Benzene on TiO2 and Pt/TiO2 Nanocomposite. *ChemCatChem*, **2010**, 2, 1082-1087	5.2	59
398	Porous W-doped VO2 films with simultaneously enhanced visible transparency and thermochromic properties. *Journal of Sol-Gel Science and Technology*, **2016**, 77, 85-93	2.3	58
397	Synthesis and characterization of CuAlO(2) and AgAlO(2) delafossite oxides through low-temperature hydrothermal methods. *Inorganic Chemistry*, **2014**, 53, 4106-16	5.1	58
396	Ice□Water Quenching Induced Ti3+ Self-doped TiO2 with Surface Lattice Distortion and the Increased Photocatalytic Activity. *Journal of Physical Chemistry C*, **2017**, 121, 19836-19848	3.8	57
395	Efficient UV□vis-infrared light-driven catalytic abatement of benzene on amorphous manganese oxide supported on anatase TiO2 nanosheet with dominant {001} facets promoted by a photothermocatalytic synergetic effect. *Applied Catalysis B: Environmental*, **2017**, 203, 494-504	21.8	56

394	Carbon dots based nanocomposite thin film for highly efficient luminescent solar concentrators. *Organic Electronics*, **2018**, 62, 284-289	3.5	55
393	Low Temperature Preparation and Characterization of N-doped and N-S-codoped TiO2 by Sol□gel Route. *Catalysis Letters*, **2007**, 118, 231-237	2.8	55
392	Atomic-level insight into the mechanism of 0D/2D black phosphorus quantum dot/graphitic carbon nitride (BPQD/GCN) metal-free heterojunction for photocatalysis. *Applied Surface Science*, **2019**, 463, 1148-1153	6.7	55
391	Carbon dots and AIE molecules for highly efficient tandem luminescent solar concentrators. *Chemical Communications*, **2019**, 55, 7486-7489	5.8	54
390	Defects lead to a massive enhancement in the UV-Vis-IR driven thermocatalytic activity of Co3O4 mesoporous nanorods. *Journal of Materials Chemistry A*, **2018**, 6, 7194-7205	13	53
389	Synthesis of CuInS2 quantum dots on TiO2 porous films by solvothermal method for absorption layer of solar cells. *Progress in Organic Coatings*, **2009**, 64, 268-273	4.8	53
388	Crystallization behavior of 80GeS2 ? 20Ga2S3 chalcogenide glass. *Applied Physics A: Materials Science and Processing*, **2009**, 97, 713-720	2.6	53
387	UV□vis-infrared light-driven photothermocatalytic abatement of CO on Cu doped ramsdellite MnO2 nanosheets enhanced by a photoactivation effect. *Applied Catalysis B: Environmental*, **2018**, 224, 751-760	21.8	52
386	Novel photothermocatalytic synergetic effect leads to high catalytic activity and excellent durability of anatase TiO2 nanosheets with dominant {001} facets for benzene abatement. *Applied Catalysis B: Environmental*, **2016**, 198, 303-310	21.8	51
385	Novel photoactivation promoted light-driven CO2 reduction by CH4 on Ni/CeO2 nanocomposite with high light-to-fuel efficiency and enhanced stability. *Applied Catalysis B: Environmental*, **2018**, 239, 555-564	21.8	51
384	The effect of Ce ion substituted OMS-2 nanostructure in catalytic activity for benzene oxidation. *Nanoscale*, **2014**, 6, 15048-58	7.7	51
383	CTAB-assisted synthesis of mesoporous F□N-codoped TiO2 powders with high visible-light-driven catalytic activity and adsorption capacity. *Journal of Solid State Chemistry*, **2008**, 181, 1936-1942	3.3	51
382	Solar-light-driven CO2 reduction by methane on Pt nanocrystals partially embedded in mesoporous CeO2 nanorods with high light-to-fuel efficiency. *Green Chemistry*, **2018**, 20, 2857-2869	10	50
381	Structural, electrical and optical properties of p-type transparent conducting SnO2:Al film derived from thermal diffusion of Al/SnO2/Al multilayer thin films. *Acta Materialia*, **2010**, 58, 6243-6248	8.4	50
380	Raman scattering studies of the GeS2□Ga2S3□CsCl glassy system. *Solid State Communications*, **2005**, 133, 327-332	1.6	50
379	Evidence of network demixing in GeS2□Ga2S3 chalcogenide glasses: A phase transformation study. *Journal of Solid State Chemistry*, **2011**, 184, 584-588	3.3	49
378	The structural and photoluminescence studies related to the surface of the TiO2 sol prepared by wet chemical method. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2006**, 134, 27-31	3.1	49
377	Second-harmonic generation in Ge□As□ glasses by electron beam irradiation and analysis of the poling mechanism. *Optics Communications*, **2001**, 198, 187-192	2	49

376	A controlled solvothermal synthesis of CuS hierarchical structures and their natural-light-induced photocatalytic properties. *New Journal of Chemistry*, **2015**, 39, 5470-5476	3.6	48
375	Densely populated mesopores in microcuboid CeO2 crystal leading to a significant enhancement of catalytic activity. *Journal of Materials Chemistry A*, **2013**, 1, 728-734	13	48
374	Structure and Electronic Properties of a Continuous Random Network Model of an Amorphous Zeolitic Imidazolate Framework (a-ZIF). *Journal of Physical Chemistry C*, **2016**, 120, 15362-15368	3.8	47
373	Pb-Based Halide Perovskites: Recent Advances in Photo(electro)catalytic Applications and Looking Beyond. *Advanced Functional Materials*, **2020**, 30, 1909667	15.6	46
372	Formation of Surface Complex Leading to Efficient Visible Photocatalytic Activity and Improvement of Photostabilty of ZnO. *Journal of Physical Chemistry C*, **2009**, 113, 16188-16192	3.8	46
371	High light-to-fuel efficiency and CO2 reduction rates achieved on a unique nanocomposite of Co/Co doped Al2O3 nanosheets with UV-vis-IR irradiation. *Energy and Environmental Science*, **2019**, 12, 2581-2590	35.4	45
370	Surface doping of La ions into ZnO nanocrystals to lower the optimal working temperature for HCHO sensing properties. *Physical Chemistry Chemical Physics*, **2015**, 17, 27437-45	3.6	45
369	UV□Vis-infrared light-driven thermocatalytic abatement of benzene on Fe doped OMS-2 nanorods enhanced by a novel photoactivation. *Chemical Engineering Journal*, **2018**, 332, 205-215	14.7	45
368	Effects of annealing temperature on structure and opt-electric properties of ion-conducting LLTO thin films prepared by RF magnetron sputtering. *Journal of Alloys and Compounds*, **2011**, 509, 1910-1914	5.7	45
367	Highly selective photocatalytic and sensing properties of 2D-ordered dome films of nano titania and nano Ag2+ doped titania. *Journal of Materials Chemistry*, **2012**, 22, 1469-1476		44
366	Raman scattering studies of the Ge□h sulfide glasses. *Solid State Communications*, **2006**, 137, 408-412	1.6	44
365	Raman spectroscopic study on the microstructure of GeS2□a2S3□Cl glasses. *Journal of Molecular Structure*, **2004**, 697, 23-27	3.4	44
364	Fabrication of high-performance luminescent solar concentrators using N-doped carbon dots/PMMA mixed matrix slab. *Organic Electronics*, **2018**, 63, 237-243	3.5	44
363	Recent advances in green fabrication of luminescent solar concentrators using nontoxic quantum dots as fluorophores. *Journal of Materials Chemistry C*, **2019**, 7, 12373-12387	7.1	42
362	Hydrothermal synthesis of delafossite CuFeO2 crystals at 100 □C. *RSC Advances*, **2015**, 5, 49280-49286	3.7	42
361	Second-harmonic generation in Ge(20)As(25)S(55) glass irradiated by an electron beam. *Optics Letters*, **2001**, 26, 1347-9	3	42
360	Intrinsic intermediate gap states of TiO2 materials and their roles in charge carrier kinetics. *Journal of Photochemistry and Photobiology C: Photochemistry Reviews*, **2019**, 39, 1-57	16.4	41
359	Efficient Visible-Light-Induced Photocatalytic Activity of a 3D-Ordered Titania Hybrid Photocatalyst with a Core/Shell Structure of Dye-Containing Polymer/Titania. *Journal of Physical Chemistry C*, **2008**, 112, 14973-14979	3.8	41

358	Cu doped OL-1 nanoflower: A UV–vis-infrared light-driven catalyst for gas-phase environmental purification with very high efficiency. *Applied Catalysis B: Environmental*, **2017**, 200, 521-529	21.8	40
357	Morphological control of calcium oxalate particles in the presence of poly-(styrene-alt-maleic acid). *Journal of Solid State Chemistry*, **2004**, 177, 3368-3374	3.3	40
356	Improved air stability of perovskite hybrid solar cells via blending poly(dimethylsiloxane)–urea copolymers. *Journal of Materials Chemistry A*, **2017**, 5, 5486-5494	13	39
355	Effect of substrate temperature on the crystal growth orientation of SnO2:F thin films spray-deposited on glass substrates. *Journal of Non-Crystalline Solids*, **2010**, 356, 2557-2561	3.9	39
354	Growth of free-standing TiO2 nanorod arrays and its application in CdS quantum dots-sensitized solar cells. *Chemical Physics Letters*, **2011**, 508, 130-133	2.5	39
353	Crystallite structure, surface morphology and optical properties of In2O3–TiO2 composite thin films by sol–gel method. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2008**, 151, 179-186	3.1	39
352	Highly efficient UV-Vis-infrared catalytic purification of benzene on CeMnxOy/TiO2 nanocomposite, caused by its high thermocatalytic activity and strong absorption in the full solar spectrum region. *Journal of Materials Chemistry A*, **2016**, 4, 9890-9899	13	38
351	Large and ultrafast third-order optical nonlinearity of GeS2–Ga2S3–CdS chalcogenide glass. *Chemical Physics Letters*, **2004**, 399, 230-233	2.5	38
350	Formation and optical properties of ZnSe and ZnS nanocrystals in glasses. *Journal of Non-Crystalline Solids*, **2015**, 429, 79-82	3.9	37
349	Effect of buffer layer on thermochromic performances of VO2 films fabricated by magnetron sputtering. *Infrared Physics and Technology*, **2016**, 75, 22-25	2.7	37
348	Ultralow density, hollow silica foams produced through interfacial reaction and their exceptional properties for environmental and energy applications. *Journal of Materials Chemistry*, **2011**, 21, 12041		37
347	A kinetic model for evaluating the dependence of the quantum yield of nano-TiO2 based photocatalysis on light intensity, grain size, carrier lifetime, and minority carrier diffusion coefficient: Indirect interfacial charge transfer. *Electrochimica Acta*, **2010**, 55, 4062-4070	6.7	37
346	Study on the structure dependent ultrafast third-order optical nonlinearity of GeS2–In2S3 chalcogenide glasses. *Optics Communications*, **2007**, 270, 373-378	2	37
345	Theoretical Kinetic Analysis of Heterogeneous Photocatalysis: The Effects of Surface Trapping and Bulk Recombination through Defects. *Journal of Physical Chemistry C*, **2011**, 115, 16037-16042	3.8	36
344	Study on the third and second-order nonlinear optical properties of GeS(2)-Ga(2)S3-AgCl chalcohalide glasses. *Optics Express*, **2007**, 15, 2398-408	3.3	36
343	Single-Metal Atoms Supported on MBenes for Robust Electrochemical Hydrogen Evolution. *ACS Applied Materials & Interfaces*, **2020**, 12, 9261-9267	9.5	36
342	High-performance UV photodetection of unique ZnO nanowires from zinc carbonate hydroxide nanobelts. *ACS Applied Materials & Interfaces*, **2013**, 5, 5861-7	9.5	35
341	Facile synthesis of mesoporous VO2 nanocrystals by a cotton-template method and their enhanced thermochromic properties. *Solar Energy Materials and Solar Cells*, **2018**, 176, 427-434	6.4	35

340	The synergetic effect of V and Fe-co-doping in TiO2 studied from the DFT + U first-principle calculation. *Applied Surface Science*, **2017**, 399, 654-662	6.7	34
339	Boron doping effects in electrochromic properties of NiO films prepared by sol–gel. *Solar Energy*, **2009**, 83, 2103-2108	6.8	34
338	Temperature effect on the photocatalytic degradation of methyl orange under UV-vis light irradiation. *Journal Wuhan University of Technology, Materials Science Edition*, **2010**, 25, 210-213	1	34
337	Glass formation and crystallization in alkali-containing fluoride glasses. *Journal of Non-Crystalline Solids*, **1987**, 95-96, 487-494	3.9	34
336	Co3O4/TiO2 Nanocomposite Formation Leads to Improvement in Ultraviolet–Visible-Infrared-Driven Thermocatalytic Activity Due to Photoactivation and Photocatalysis–Thermocatalysis Synergetic Effect. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 16503-16514	8.3	34
335	CdS quantum dots sensitized solar cells based on free-standing and through-hole TiO2 nanotube arrays. *Dalton Transactions*, **2013**, 42, 14726-32	4.3	33
334	The effect of sputtering power on the structure and photocatalytic activity of TiO2 films prepared by magnetron sputtering. *Thin Solid Films*, **2009**, 517, 6569-6575	2.2	33
333	Charge carrier interfacial transfer pathways from TiO2 and Au/TiO2 nanorod arrays to electrolyte and the association with photocatalysis. *Applied Surface Science*, **2019**, 464, 367-375	6.7	33
332	Deep-red emitting zinc and aluminium co-doped copper indium sulfide quantum dots for luminescent solar concentrators. *Journal of Colloid and Interface Science*, **2019**, 534, 509-517	9.3	33
331	Novel photoactivation and solar-light-driven thermocatalysis on δ-MnO2 nanosheets lead to highly efficient catalytic abatement of ethyl acetate without acetaldehyde as unfavorable by-product. *Journal of Materials Chemistry A*, **2018**, 6, 14195-14206	13	33
330	Observation of reduced phase transition temperature in N-doped thermochromic film of monoclinic VO2. *Applied Surface Science*, **2017**, 410, 363-372	6.7	32
329	Preparation of p-type AgCrO2 nanocrystals through low-temperature hydrothermal method and the potential application in p-type dye-sensitized solar cell. *Journal of Alloys and Compounds*, **2015**, 642, 104-110	5.7	32
328	Crystal structural, optical properties and mott-schottky plots of p-type Ca doped CuFeO 2 nanoplates. *Materials Research Bulletin*, **2016**, 83, 141-147	5.1	32
327	Probing the active sites of site-specific nitrogen doping in metal-free graphdiyne for electrochemical oxygen reduction reactions. *Science Bulletin*, **2020**, 65, 45-54	10.6	32
326	P-type transparent conducting SnO2:Zn film derived from thermal diffusion of Zn/SnO2/Zn multilayer thin films. *Surface and Coatings Technology*, **2012**, 206, 4356-4361	4.4	31
325	Polymeric adsorption of methylene blue in TiO2 colloids-highly sensitive thermochromism and selective photocatalysis. *Chemistry - A European Journal*, **2012**, 18, 12705-11	4.8	31
324	Use of delafossite oxides CuCr1-xGaxO2 nanocrystals in p-type dye-sensitized solar cell. *Journal of Alloys and Compounds*, **2016**, 662, 374-380	5.7	30
323	Growth and optical properties of cerium dioxide nanocrystallites prepared by coprecipitation routes. *Ceramics International*, **2014**, 40, 4055-4064	5.1	30

322	Second-harmonic generation in IR-transparent beta-GeS2 crystallized glasses. *Optics Letters*, **2009**, 34, 437-9	3	30
321	Crystallization Kinetics of Superionic Conductive Al(B, La)- Incorporated LiTi2(PO4)3 Glass-Ceramics. *Journal of the American Ceramic Society*, **2013**, 96, 801-805	3.8	29
320	Quantum Dots in Glasses: Size-Dependent Stokes Shift by Lead Chalcogenide. *International Journal of Applied Glass Science*, **2015**, 6, 339-344	1.8	29
319	Novel effect of significant enhancement of gas-phase photocatalytic efficiency for nano ZnO. *Chemical Engineering Journal*, **2012**, 213, 218-224	14.7	29
318	Preparation and characterization of copper indium disulfide films by facile chemical method. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2007**, 139, 88-94	3.1	29
317	The effects of synthesis temperature on the structure and visible-light-induced catalytic activity of F□N-codoped and S□N-codoped titania. *Journal of Molecular Catalysis A*, **2008**, 285, 142-149		29
316	Surface Passivation of CdSe Quantum Dots in All Inorganic Amorphous Solid by Forming CdZnSe Shell. *Scientific Reports*, **2017**, 7, 42359	4.9	28
315	Constructing non-fluorinated porous superhydrophobic SiO2-based films with robust mechanical properties. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 551, 65-73	5.1	28
314	Raman spectroscopic analysis of GeS2-Ga2S3-PbI2 chalcohalide glasses. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2007**, 67, 1351-6	4.4	28
313	Tungsten doped M-phase VO2 mesoporous nanocrystals with enhanced comprehensive thermochromic properties for smart windows. *Ceramics International*, **2019**, 45, 4342-4350	5.1	28
312	Er3+ Ions-Doped Germano-Gallate Oxyfluoride Glass-Ceramics Containing BaF2 Nanocrystals. *Journal of the American Ceramic Society*, **2015**, 98, 2117-2121	3.8	27
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