

Qi Li

List of Publications by Year in descending order

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106
papers

7,775
citations

70961

41
h-index

49773

87
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107
all docs

107
docs citations

107
times ranked

7509
citing authors

#	ARTICLE	IF	CITATIONS
1	Post-illumination activity of Bi ₂ WO ₆ in the dark from the photocatalytic "memory" effect. Journal of Advanced Ceramics, 2021, 10, 355-367.	8.9	48
2	Hydrous cerium oxides coated glass fiber for efficient and long-lasting arsenic removal from drinking water. Journal of Advanced Ceramics, 2021, 10, 247-257.	8.9	13
3	Self-Doping Surface Oxygen Vacancy-Induced Lattice Strains for Enhancing Visible Light-Driven Photocatalytic H ₂ Evolution over Black TiO ₂ . ACS Applied Materials & Interfaces, 2021, 13, 18758-18771.	4.0	127
4	Efficient oxygen reduction reaction by a highly porous, nitrogen-doped carbon sphere electrocatalyst through space confinement effect in nanopores. Journal of Advanced Ceramics, 2021, 10, 714-728.	8.9	33
5	Directing photocatalytic pathway to exceedingly high antibacterial activity in water by functionalizing holey ultrathin nanosheets of graphitic carbon nitride. Water Research, 2021, 198, 117125.	5.3	68
6	Photoirradiation-Induced Capacitance Enhancement in the h-WO ₃ /Bi ₂ WO ₆ Submicron Rod Heterostructure under Simulated Solar Illumination and Its Postillumination Capacitance Enhancement Retainment from a Photocatalytic Memory Effect. ACS Applied Materials & Interfaces, 2021, 13, 57214-57229.	4.0	16
7	Highly Selective, Defect-Induced Photocatalytic CO ₂ Reduction to Acetaldehyde by the Nb-Doped TiO ₂ Nanotube Array under Simulated Solar Illumination. ACS Applied Materials & Interfaces, 2020, 12, 55982-55993.	4.0	39
8	{001}/{101} facets co-exposed TiO ₂ microsheet arrays with Lanthanum doping for enhancing photocatalytic CO ₂ reduction. Journal of Materials Science: Materials in Electronics, 2020, 31, 19464-19474.	1.1	4
9	Direct Writing of Microfluidic Three-Dimensional Photonic Crystal Structures for Terahertz Technology Applications. ACS Applied Materials & Interfaces, 2019, 11, 41611-41616.	4.0	15
10	Mesoporous silica-protected silver nanoparticle disinfectant with controlled Ag ⁺ ion release, efficient magnetic separation, and effective antibacterial activity. Nanoscale Advances, 2019, 1, 840-848.	2.2	35
11	Direct-writing of vanadium dioxide/polydimethylsiloxane three-dimensional photonic crystals with thermally tunable terahertz properties. Journal of Materials Chemistry C, 2019, 7, 8185-8191.	2.7	9
12	Temperature-dependent photoluminescence and lasing properties of CsPbBr ₃ nanowires. Applied Physics Letters, 2019, 114, .	1.5	59
13	Modulation of terahertz properties of 3D ceramic photonic crystals via post-creation non-metal anion doping treatment. Journal of the American Ceramic Society, 2019, 102, 4688-4697.	1.9	3
14	Internal Polarization Modulation in Bi ₂ Mo ₆ for Photocatalytic Performance Enhancement under Visible-Light Illumination. ChemSusChem, 2018, 11, 1521-1532.	3.6	55
15	Photoinduced reversible lattice expansion in W-doped TiO ₂ through the change of its electronic structure. Applied Physics Letters, 2018, 112, 061904.	1.5	4
16	Photocatalysis: a "Solar Sail" to Drive Microscale Objects in Water. Advanced Materials Technologies, 2018, 3, 1700384.	3.0	2
17	Postillumination Activity in a Single-Phase Photocatalyst of Mo-Doped TiO ₂ Nanotube Array from Its Photocatalytic "Memory". ACS Sustainable Chemistry and Engineering, 2018, 6, 6166-6174.	3.2	47
18	Creation of 3D terahertz photonic crystals by the direct writing technique with a TiO ₂ sol-gel ink. Journal of the American Ceramic Society, 2018, 101, 1967-1973.	1.9	16

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19	4D Printing of Complex Structures with a Fast Response Time to Magnetic Stimulus. ACS Applied Materials & Interfaces, 2018, 10, 36435-36442.	4.0	127
20	Synthesis of Bi ₂ MoO ₆ Nanosheets with Rich Oxygen Vacancies by Postsynthesis Etching Treatment for Enhanced Photocatalytic Performance. ACS Applied Nano Materials, 2018, 1, 3565-3578.	2.4	81
21	Anchoring Pd Nanoparticles on Fe ₃ O ₄ @SiO ₂ Core-Shell Nanoparticles by Cross-Linked Polyvinylpyrrolidone for Nitrite Reduction. ACS Applied Nano Materials, 2018, 1, 5035-5043.	2.4	15
22	Direct Writing of Flexible Barium Titanate/Polydimethylsiloxane 3D Photonic Crystals with Mechanically Tunable Terahertz Properties. Advanced Optical Materials, 2017, 5, 1600977.	3.6	33
23	Creation of Pd/Al ₂ O ₃ Catalyst by a Spray Process for Fixed Bed Reactors and Its Effective Removal of Aqueous Bromate. Scientific Reports, 2017, 7, 41797.	1.6	14
24	Large energy density in Ba doped Pb _{0.97} La _{0.02} (Zr _{0.65} Sn _{0.3} Ti _{0.05})O ₃ antiferroelectric ceramics with improved temperature stability. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 744-748.	1.8	17
25	Nanocomposites: High-Energy-Density Dielectric Polymer Nanocomposites with Trilayered Architecture (Adv. Funct. Mater. 20/2017). Advanced Functional Materials, 2017, 27, .	7.8	4
26	High-Energy-Density Dielectric Polymer Nanocomposites with Trilayered Architecture. Advanced Functional Materials, 2017, 27, 1606292.	7.8	338
27	Biocompatible and Flexible Hydrogel Diode-Based Mechanical Energy Harvesting. Advanced Materials Technologies, 2017, 2, 1700118.	3.0	29
28	High-Performance Polymers Sandwiched with Chemical Vapor Deposited Hexagonal Boron Nitrides as Scalable High-Temperature Dielectric Materials. Advanced Materials, 2017, 29, 1701864.	11.1	270
29	Flexible Ionic Diodes for Low-Frequency Mechanical Energy Harvesting. Advanced Energy Materials, 2017, 7, 1601983.	10.2	51
30	Self-Healable Polymer Nanocomposites Capable of Simultaneously Recovering Multiple Functionalities. Advanced Functional Materials, 2016, 26, 3524-3531.	7.8	69
31	Towards multicaloric effect with ferroelectrics. Physical Review B, 2016, 94, .	1.1	33
32	Effect of Mn ₃ O ₄ nanoparticle composition and distribution on graphene as a potential hybrid anode material for lithium-ion batteries. RSC Advances, 2016, 6, 33022-33030.	1.7	19
33	In situ growth of TiO ₂ on TiN nanoparticles for non-noble-metal plasmonic photocatalysis. RSC Advances, 2016, 6, 72659-72669.	1.7	36
34	Sandwich-structured polymer nanocomposites with high energy density and great charge-discharge efficiency at elevated temperatures. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9995-10000.	3.3	317
35	Self-suspended polyaniline containing self-dissolved lyotropic liquid crystal with electrical conductivity. Journal of Polymer Science Part A, 2016, 54, 3578-3582.	2.5	4
36	Post-illumination activity of SnO ₂ nanoparticle-decorated Cu ₂ O nanocubes by H ₂ O ₂ production in dark from photocatalytic "memory". Scientific Reports, 2016, 6, 20878.	1.6	40

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37	Toward Wearable Cooling Devices: Highly Flexible Electrocaloric Ba _{0.67} Sr _{0.33} TiO ₃ Nanowire Arrays. <i>Advanced Materials</i> , 2016, 28, 4811-4816.	11.1	101
38	Enhanced visible light adsorption of heavily nitrogen doped TiO ₂ thin film via ion beam assisted deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 2968-2973.	1.1	2
39	Synthesis of Superparamagnetic Core-Shell Structure Supported Pd Nanocatalysts for Catalytic Nitrite Reduction with Enhanced Activity, No Detection of Undesirable Product of Ammonium, and Easy Magnetic Separation Capability. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2035-2047.	4.0	25
40	A Hybrid Material Approach Toward Solution-Processable Dielectrics Exhibiting Enhanced Breakdown Strength and High Energy Density. <i>Advanced Functional Materials</i> , 2015, 25, 3505-3513.	7.8	152
41	High Energy Storage Performance of (Pb _{0.87} Ba _{0.1} La _{0.02})(Zr _{0.68} Sn _{0.24} Ti _{0.08})O ₃ Antiferroelectric Ceramics Fabricated by the Hot-Press Sintering Method. <i>Journal of the American Ceramic Society</i> , 2015, 98, 1175-1181.	1.9	168
42	Real time, in situ observation of the photocatalytic inactivation of <i>Saccharomyces cerevisiae</i> cells. <i>Materials Science and Engineering C</i> , 2015, 49, 75-83.	3.8	2
43	Relaxor Ferroelectric-Based Electrocaloric Polymer Nanocomposites with a Broad Operating Temperature Range and High Cooling Energy. <i>Advanced Materials</i> , 2015, 27, 2236-2241.	11.1	143
44	Flexible high-temperature dielectric materials from polymer nanocomposites. <i>Nature</i> , 2015, 523, 576-579.	13.7	1,476
45	Colossal Room-Temperature Electrocaloric Effect in Ferroelectric Polymer Nanocomposites Using Nanostructured Barium Strontium Titanates. <i>ACS Nano</i> , 2015, 9, 7164-7174.	7.3	164
46	Superior As(III) removal performance of hydrous MnOOH nanorods from water. <i>RSC Advances</i> , 2015, 5, 53280-53288.	1.7	40
47	Efficient photocatalytic removal of aqueous NH ₄ ⁺ /NH ₃ by palladium-modified nitrogen-doped titanium oxide nanoparticles under visible light illumination, even in weak alkaline solutions. <i>Chemical Engineering Journal</i> , 2015, 264, 728-734.	6.6	43
48	Electrocaloric Effect: Relaxor Ferroelectric-Based Electrocaloric Polymer Nanocomposites with a Broad Operating Temperature Range and High Cooling Energy (<i>Adv. Mater.</i> 13/2015). <i>Advanced Materials</i> , 2015, 27, 2267-2267.	11.1	2
49	Synthesis of Mn ₃ O ₄ /CeO ₂ Hybrid Nanotubes and Their Spontaneous Formation of a Paper-like, Free-Standing Membrane for the Removal of Arsenite from Water. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 26291-26300.	4.0	41
50	NiO hierarchical hollow nanofibers as high-performance supercapacitor electrodes. <i>RSC Advances</i> , 2015, 5, 96205-96212.	1.7	47
51	Anti-algal activity of palladium oxide-modified nitrogen-doped titanium oxide photocatalyst on <i>Anabaena</i> sp. PCC 7120 and its photocatalytic degradation on Microcystin LR under visible light illumination. <i>Chemical Engineering Journal</i> , 2015, 264, 437-444.	6.6	18
52	Solution-processed ferroelectric terpolymer nanocomposites with high breakdown strength and energy density utilizing boron nitride nanosheets. <i>Energy and Environmental Science</i> , 2015, 8, 922-931.	15.6	541
53	Real Time, in situ Observation of the Photocatalytic Destruction of <i>Saccharomyces cerevisiae</i> Cells by Palladium-modified Nitrogen-doped Titanium Oxide Thin Film. <i>Journal of Materials Science and Technology</i> , 2015, 31, 48-54.	5.6	4
54	Nanostructured Visible-Light Photocatalysts for Water Purification. , 2014, , 297-317.		5

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55	Energy Storage: High Energy and Power Density Capacitors from Solution-Processed Ternary Ferroelectric Polymer Nanocomposites (<i>Adv. Mater.</i> 36/2014). <i>Advanced Materials</i> , 2014, 26, 6356-6356.	11.1	4
56	PdO loaded TiO ₂ hollow sphere composite photocatalyst with a high photocatalytic disinfection efficiency on bacteria. <i>Chemical Engineering Journal</i> , 2014, 249, 63-71.	6.6	23
57	Passivated n-p co-doping of niobium and nitrogen into self-organized TiO ₂ nanotube arrays for enhanced visible light photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2014, 144, 343-352.	10.8	37
58	High Energy and Power Density Capacitors from Solution-Processed Ternary Ferroelectric Polymer Nanocomposites. <i>Advanced Materials</i> , 2014, 26, 6244-6249.	11.1	448
59	Synthesis of a superparamagnetic MFNs@SiO ₂ @Ag ₄ SiW ₁₂ O ₄₀ /Ag composite photocatalyst, its superior photocatalytic performance under visible light illumination, and its easy magnetic separation. <i>RSC Advances</i> , 2014, 4, 30090-30099.	1.7	10
60	Ionic Potential: A General Material Criterion for the Selection of Highly Efficient Arsenic Adsorbents. <i>Journal of Materials Science and Technology</i> , 2014, 30, 949-953.	5.6	20
61	Template-free solvothermal synthesis of WO ₃ /WO ₃ ·H ₂ O hollow spheres and their enhanced photocatalytic activity from the mixture phase effect. <i>CrystEngComm</i> , 2014, 16, 7493-7501.	1.3	59
62	Suppression of energy dissipation and enhancement of breakdown strength in ferroelectric polymer-graphene percolative composites. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7034.	2.7	78
63	Antifungal Activity and Mechanism of Palladium-Modified Nitrogen-Doped Titanium Oxide Photocatalyst on Agricultural Pathogenic Fungi <i>Fusarium graminearum</i> . <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10953-10959.	4.0	75
64	Well-dispersed, ultrasmall, superparamagnetic magnesium ferrite nanocrystallites with controlled hydrophilicity/hydrophobicity and high saturation magnetization. <i>RSC Advances</i> , 2013, 3, 13961.	1.7	13
65	Exceptional arsenic (III,V) removal performance of highly porous, nanostructured ZrO ₂ spheres for fixed bed reactors and the full-scale system modeling. <i>Water Research</i> , 2013, 47, 6258-6268.	5.3	99
66	Mg-doping: a facile approach to impart enhanced arsenic adsorption performance and easy magnetic separation capability to Fe ₂ O ₃ nanoadsorbents. <i>Journal of Materials Chemistry A</i> , 2013, 1, 830-836.	5.2	57
67	Highly efficient catalytic reduction of bromate in water over a quasi-monodisperse, superparamagnetic Pd/Fe ₃ O ₄ catalyst. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9215.	5.2	46
68	Fluorine-Free Synthesis of Well-Dispersed Hollow TiO ₂ Spheres via Ostwald Ripening: Process, Mechanism, and Photocatalytic Performance. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1421-1427.	1.9	17
69	As(III) and As(V) Adsorption by Hydrous Zirconium Oxide Nanoparticles Synthesized by a Hydrothermal Process Followed with Heat Treatment. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 353-361.	1.8	95
70	The synthesis of nitrogen/sulfur co-doped TiO ₂ nanocrystals with a high specific surface area and a high percentage of {001} facets and their enhanced visible-light photocatalytic performance. <i>Nanoscale Research Letters</i> , 2012, 7, 590.	3.1	35
71	Synthesis and Characterization of Niobium-doped TiO ₂ Nanotube Arrays by Anodization of Ti-20Nb Alloys. <i>Journal of Materials Science and Technology</i> , 2012, 28, 865-870.	5.6	31
72	Exceptional arsenic adsorption performance of hydrous cerium oxide nanoparticles: Part B. Integration with silica monoliths and dynamic treatment. <i>Chemical Engineering Journal</i> , 2012, 185-186, 136-143.	6.6	36

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73	Exceptional arsenic adsorption performance of hydrous cerium oxide nanoparticles: Part A. Adsorption capacity and mechanism. <i>Chemical Engineering Journal</i> , 2012, 185-186, 127-135.	6.6	182
74	High efficient As(III) removal by self-assembled zinc oxide micro-tubes synthesized by a simple precipitation process. <i>Journal of Materials Science</i> , 2011, 46, 5851-5858.	1.7	23
75	Enhanced Photocatalytic Disinfection of Escherichia coli Bacteria by Silver and Nickel Comodification of a Nitrogen-Doped Titanium Oxide Nanoparticle Photocatalyst Under Visible-Light Illumination. <i>Journal of the American Ceramic Society</i> , 2010, 93, 531-535.	1.9	5
76	Enhanced Photocatalytic Disinfection of Escherichia coli Bacteria by Silver Modification of Nitrogen-Doped Titanium Oxide Nanoparticle Photocatalyst Under Visible-Light Illumination. <i>Journal of the American Ceramic Society</i> , 2010, 93, 3880-3885.	1.9	16
77	Heavily Nitrogen-Doped Titanium Oxide Thin Films by Reactive Sputtering and Excimer Laser Annealing. <i>Journal of the American Ceramic Society</i> , 2010, 93, 3039-3042.	1.9	1
78	Enhanced photocatalytic disinfection of microorganisms by transition-metal-ion-modification of nitrogen-doped titanium oxide. <i>Journal of Materials Research</i> , 2010, 25, 167-176.	1.2	15
79	As(III) removal by hydrous titanium dioxide prepared from one-step hydrolysis of aqueous TiCl ₄ solution. <i>Water Research</i> , 2010, 44, 5713-5721.	5.3	109
80	Composite Photocatalyst of Nitrogen and Fluorine Codoped Titanium Oxide Nanotube Arrays with Dispersed Palladium Oxide Nanoparticles for Enhanced Visible Light Photocatalytic Performance. <i>Environmental Science & Technology</i> , 2010, 44, 3493-3499.	4.6	43
81	Memory antibacterial effect from photoelectron transfer between nanoparticles and visible light photocatalyst. <i>Journal of Materials Chemistry</i> , 2010, 20, 1068-1072.	6.7	60
82	Nanostructured Visible-Light Photocatalysts for Water Purification. , 2009, , 17-37.		4
83	As(III) Removal by Palladium-Modified Nitrogen-Doped Titanium Oxide Nanoparticle Photocatalyst. <i>Environmental Science & Technology</i> , 2009, 43, 1534-1539.	4.6	56
84	Self-Organized Nitrogen and Fluorine Co-doped Titanium Oxide Nanotube Arrays with Enhanced Visible Light Photocatalytic Performance. <i>Environmental Science & Technology</i> , 2009, 43, 8923-8929.	4.6	82
85	Electronic band structures of TiO ₂ with heavy nitrogen doping. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2008, 23, 799-803.	0.4	3
86	Palladium Oxide Nanoparticles on Nitrogen-Doped Titanium Oxide: Accelerated Photocatalytic Disinfection and Post-Illumination Catalytic Memory. <i>Advanced Materials</i> , 2008, 20, 3717-3723.	11.1	166
87	Inverse Opal Structure of Nitrogen-Doped Titanium Oxide with Enhanced Visible-Light Photocatalytic Activity. <i>Journal of the American Ceramic Society</i> , 2008, 91, 660-663.	1.9	31
88	Enhanced Visible Light Absorption in a Photocatalytic Thin Film from a Decoupled Photonic Crystal. <i>Journal of the American Ceramic Society</i> , 2008, 91, 2575-2580.	1.9	4
89	Heavily Nitrogen-Doped Dual-Phase Titanium Oxide Thin Films by Reactive Sputtering and Rapid Thermal Annealing. <i>Journal of the American Ceramic Society</i> , 2008, 91, 3167-3172.	1.9	26
90	Treatment of Coliphage MS2 with Palladium-Modified Nitrogen-Doped Titanium Oxide Photocatalyst Illuminated by Visible Light. <i>Environmental Science & Technology</i> , 2008, 42, 6148-6153.	4.6	69

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91	Enhanced visible-light absorption from PdO nanoparticles in nitrogen-doped titanium oxide thin films. Applied Physics Letters, 2007, 90, 063109.	1.5	51
92	Modulation of MS2 virus adsorption on TiO ₂ semiconductor film by nitrogen doping. Journal of Materials Research, 2007, 22, 3036-3041.	1.2	4
93	Enhanced Visible-Light-Induced Photocatalytic Disinfection of E. coli by Carbon-Sensitized Nitrogen-Doped Titanium Oxide. Environmental Science & Technology, 2007, 41, 5050-5056.	4.6	139
94	Effect of Precursor Ratio on Synthesis and Optical Absorption of TiON Photocatalytic Nanoparticles. Journal of the American Ceramic Society, 2007, 90, 1045-1050.	1.9	24
95	Enhanced Visible-Light Photocatalytic Degradation of Humic Acid by Palladium-Modified Nitrogen-Doped Titanium Oxide. Journal of the American Ceramic Society, 2007, 90, 070916223044002-???.	1.9	16
96	Nonlinear Elasticity and Yielding of Nanoparticle Glasses. Langmuir, 2006, 22, 2441-2443.	1.6	23
97	Microwave Bandgap in Multilayer Ceramic Structures. Journal of the American Ceramic Society, 2006, 89, 1087-1090.	1.9	1
98	Ordered Ceramic Microstructures from Butterfly Bio-template. Journal of the American Ceramic Society, 2006, 89, 060427083300014-???.	1.9	14
99	Strong Suppression and Enhancement of Photoluminescence in Zn ₂ SiO ₄ :Mn ²⁺ Inverse Opal Photonic Crystals. Journal of the American Ceramic Society, 2006, 89, 060427083300027-???.	1.9	6
100	Planar MgB ₂ superconductor-normal metal-superconductor Josephson junctions fabricated using epitaxial MgB ₂ /TiB ₂ bilayers. Applied Physics Letters, 2006, 88, 222511.	1.5	29
101	Poly(acrylic acid)-Poly(ethylene oxide) Comb Polymer Effects on BaTiO ₃ Nanoparticle Suspension Stability. Journal of the American Ceramic Society, 2004, 87, 181-186.	1.9	116
102	Photonic structures in butterfly Thaumantis diodes. Science Bulletin, 2004, 49, 2545-2546.	1.7	0
103	Synthesis of (Pb,La)(Zr,Ti)O ₃ Inverse Opal Photonic Crystals. Journal of the American Ceramic Society, 2003, 86, 867-869.	1.9	20
104	Critical current density and resistivity of MgB ₂ films. Applied Physics Letters, 2003, 83, 102-104.	1.5	75
105	Photonic band gap in (Pb,La)(Zr,Ti)O ₃ inverse opals. Applied Physics Letters, 2003, 82, 3617-3619.	1.5	26
106	Role of strain in magnetotransport properties of Pr _{0.67} Sr _{0.33} MnO ₃ thin films. Journal of Applied Physics, 2000, 87, 7409-7414.	1.1	88