Qi Li

List of Publications by Year in descending order

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Version: 2024-02-01

106 papers	7,775 citations	41 h-index	49773 87 g-index
107	107	107	7509
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Flexible high-temperature dielectric materials from polymer nanocomposites. Nature, 2015, 523, 576-579.	13.7	1,476
2	Solution-processed ferroelectric terpolymer nanocomposites with high breakdown strength and energy density utilizing boron nitride nanosheets. Energy and Environmental Science, 2015, 8, 922-931.	15.6	541
3	High Energy and Power Density Capacitors from Solutionâ€Processed Ternary Ferroelectric Polymer Nanocomposites. Advanced Materials, 2014, 26, 6244-6249.	11.1	448
4	Highâ€Energyâ€Density Dielectric Polymer Nanocomposites with Trilayered Architecture. Advanced Functional Materials, 2017, 27, 1606292.	7.8	338
5	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
6	Highâ€Performance Polymers Sandwiched with Chemical Vapor Deposited Hexagonal Boron Nitrides as Scalable Highâ€Temperature Dielectric Materials. Advanced Materials, 2017, 29, 1701864.	11.1	270
7	Exceptional arsenic adsorption performance of hydrous cerium oxide nanoparticles: Part A. Adsorption capacity and mechanism. Chemical Engineering Journal, 2012, 185-186, 127-135.	6.6	182
8	Highâ€Energy Storage Performance of (Pb _{0.87} Ba _{0.1} La _{0.02})(Zr _{0.68} Sn _{0.24} Ti _{0.4} 0.40.5 Antiferroelectric Ceramics Fabricated by the Hotâ€Press Sintering Method. Journal of the American Ceramic Society, 2015, 98, 1175-1181.	.08{/sub>)	O ₃
9	Palladium Oxide Nanoparticles on Nitrogenâ€Doped Titanium Oxide: Accelerated Photocatalytic Disinfection and Postâ€Illumination Catalytic "Memory― Advanced Materials, 2008, 20, 3717-3723.	11.1	166
10	Colossal Room-Temperature Electrocaloric Effect in Ferroelectric Polymer Nanocomposites Using Nanostructured Barium Strontium Titanates. ACS Nano, 2015, 9, 7164-7174.	7.3	164
11	A Hybrid Material Approach Toward Solutionâ€Processable Dielectrics Exhibiting Enhanced Breakdown Strength and High Energy Density. Advanced Functional Materials, 2015, 25, 3505-3513.	7.8	152
12	Relaxor Ferroelectricâ€Based Electrocaloric Polymer Nanocomposites with a Broad Operating Temperature Range and High Cooling Energy. Advanced Materials, 2015, 27, 2236-2241.	11.1	143
13	Enhanced Visible-Light-Induced Photocatalytic Disinfection ofE. coliby Carbon-Sensitized Nitrogen-Doped Titanium Oxide. Environmental Science & Enviro	4.6	139
14	4D Printing of Complex Structures with a Fast Response Time to Magnetic Stimulus. ACS Applied Materials & Damp; Interfaces, 2018, 10, 36435-36442.	4.0	127
15	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
16	Poly(acrylic acid)-Poly(ethylene oxide) Comb Polymer Effects on BaTiO3Nanoparticle Suspension Stability. Journal of the American Ceramic Society, 2004, 87, 181-186.	1.9	116
17	As(III) removal by hydrous titanium dioxide prepared from one-step hydrolysis of aqueous TiCl4 solution. Water Research, 2010, 44, 5713-5721.	5.3	109
18	Toward Wearable Cooling Devices: Highly Flexible Electrocaloric Ba _{0.67} Sr _{0.33} TiO ₃ Nanowire Arrays. Advanced Materials, 2016, 28, 4811-4816.	11.1	101

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19	Exceptional arsenic (III,V) removal performance of highly porous, nanostructured ZrO2 spheres for fixed bed reactors and the full-scale system modeling. Water Research, 2013, 47, 6258-6268.	5.3	99
20	As(III) and As(V) Adsorption by Hydrous Zirconium Oxide Nanoparticles Synthesized by a Hydrothermal Process Followed with Heat Treatment. Industrial & Engineering Chemistry Research, 2012, 51, 353-361.	1.8	95
21	Role of strain in magnetotransport properties of Pr0.67Sr0.33MnO3 thin films. Journal of Applied Physics, 2000, 87, 7409-7414.	1.1	88
22	Self-Organized Nitrogen and Fluorine Co-doped Titanium Oxide Nanotube Arrays with Enhanced Visible Light Photocatalytic Performance. Environmental Science & Technology, 2009, 43, 8923-8929.	4.6	82
23	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
24	Suppression of energy dissipation and enhancement of breakdown strength in ferroelectric polymer–graphene percolative composites. Journal of Materials Chemistry C, 2013, 1, 7034.	2.7	78
25	Critical current density and resistivity of MgB2 films. Applied Physics Letters, 2003, 83, 102-104.	1.5	75
26	Antifungal Activity and Mechanism of Palladium-Modified Nitrogen-Doped Titanium Oxide Photocatalyst on Agricultural Pathogenic Fungi <i>Fusarium graminearum</i> . ACS Applied Materials & amp; Interfaces, 2013, 5, 10953-10959.	4.0	75
27	Treatment of Coliphage MS2 with Palladium-Modified Nitrogen-Doped Titanium Oxide Photocatalyst Illuminated by Visible Light. Environmental Science & Eamp; Technology, 2008, 42, 6148-6153.	4.6	69
28	Selfâ∈Healable Polymer Nanocomposites Capable of Simultaneously Recovering Multiple Functionalities. Advanced Functional Materials, 2016, 26, 3524-3531.	7.8	69
29	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
30	Memory antibacterial effect from photoelectron transfer between nanoparticles and visible light photocatalyst. Journal of Materials Chemistry, 2010, 20, 1068-1072.	6.7	60
31	Template-free solvothermal synthesis of WO ₃ /WO ₃ ·H ₂ O hollow spheres and their enhanced photocatalytic activity from the mixture phase effect. CrystEngComm, 2014, 16, 7493-7501.	1.3	59
32	Temperature-dependent photoluminescence and lasing properties of CsPbBr3 nanowires. Applied Physics Letters, 2019, 114, .	1.5	59
33	Mg-doping: a facile approach to impart enhanced arsenic adsorption performance and easy magnetic separation capability to $\hat{l}\pm$ -Fe ₂ O ₃ nanoadsorbents. Journal of Materials Chemistry A, 2013, 1, 830-836.	5.2	57
34	As(III) Removal by Palladium-Modified Nitrogen-Doped Titanium Oxide Nanoparticle Photocatalyst. Environmental Science & Enviro	4.6	56
35	Internal Polarization Modulation in Bi ₂ MoO ₆ for Photocatalytic Performance Enhancement under Visibleâ€Light Illumination. ChemSusChem, 2018, 11, 1521-1532.	3.6	55
36	Enhanced visible-light absorption from PdO nanoparticles in nitrogen-doped titanium oxide thin films. Applied Physics Letters, 2007, 90, 063109.	1.5	51

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37	Flexible Ionic Diodes for Lowâ€Frequency Mechanical Energy Harvesting. Advanced Energy Materials, 2017, 7, 1601983.	10.2	51
38	Post-illumination activity of Bi2WO6 in the dark from the photocatalytic "memory―effect. Journal of Advanced Ceramics, 2021, 10, 355-367.	8.9	48
39	NiO hierarchical hollow nanofibers as high-performance supercapacitor electrodes. RSC Advances, 2015, 5, 96205-96212.	1.7	47
40	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
41	Highly efficient catalytic reduction of bromate in water over a quasi-monodisperse, superparamagnetic Pd/Fe3O4 catalyst. Journal of Materials Chemistry A, 2013, 1, 9215.	5.2	46
42	Composite Photocatalyst of Nitrogen and Fluorine Codoped Titanium Oxide Nanotube Arrays with Dispersed Palladium Oxide Nanoparticles for Enhanced Visible Light Photocatalytic Performance. Environmental Science & Environmen	4.6	43
43	Efficient photocatalytic removal of aqueous NH4+–NH3 by palladium-modified nitrogen-doped titanium oxide nanoparticles under visible light illumination, even in weak alkaline solutions. Chemical Engineering Journal, 2015, 264, 728-734.	6.6	43
44	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. ACS Applied Materials & Samp; Interfaces, 2015, 7, 26291-26300.	4.0	41
45	Superior As(<scp>iii</scp>) removal performance of hydrous MnOOH nanorods from water. RSC Advances, 2015, 5, 53280-53288.	1.7	40
46	Post-illumination activity of SnO2 nanoparticle-decorated Cu2O nanocubes by H2O2 production in dark from photocatalytic "memoryâ€. Scientific Reports, 2016, 6, 20878.	1.6	40
47	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 & Amp; Interfaces, 2020, 12, 55982-55993.	4.0	39
48	Passivated n–p co-doping of niobium and nitrogen into self-organized TiO2 nanotube arrays for enhanced visible light photocatalytic performance. Applied Catalysis B: Environmental, 2014, 144, 343-352.	10.8	37
49	Exceptional arsenic adsorption performance of hydrous cerium oxide nanoparticles: Part B. Integration with silica monoliths and dynamic treatment. Chemical Engineering Journal, 2012, 185-186, 136-143.	6.6	36
50	In situ growth of TiO ₂ on TiN nanoparticles for non-noble-metal plasmonic photocatalysis. RSC Advances, 2016, 6, 72659-72669.	1.7	36
51	The synthesis of nitrogen/sulfur co-doped TiO2 nanocrystals with a high specific surface area and a high percentage of $\{001\}$ facets and their enhanced visible-light photocatalytic performance. Nanoscale Research Letters, 2012, 7, 590.	3.1	35
52	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
53	Towards multicaloric effect with ferroelectrics. Physical Review B, 2016, 94, .	1.1	33
54	Direct Writing of Flexible Barium Titanate/Polydimethylsiloxane 3D Photonic Crystals with Mechanically Tunable Terahertz Properties. Advanced Optical Materials, 2017, 5, 1600977.	3.6	33

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55	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
56	Inverse Opal Structure of Nitrogen-Doped Titanium Oxide with Enhanced Visible-Light Photocatalytic Activity. Journal of the American Ceramic Society, 2008, 91, 660-663.	1.9	31
57	Synthesis and Characterization of Niobium-doped TiO2 Nanotube Arrays by Anodization of Ti–20Nb Alloys. Journal of Materials Science and Technology, 2012, 28, 865-870.	5.6	31
58	Planar MgB2 superconductor-normal metal-superconductor Josephson junctions fabricated using epitaxial MgB2â^•TiB2 bilayers. Applied Physics Letters, 2006, 88, 222511.	1.5	29
59	Biocompatible and Flexible Hydrogel Diodeâ€Based Mechanical Energy Harvesting. Advanced Materials Technologies, 2017, 2, 1700118.	3.0	29
60	Photonic band gap in (Pb,La)(Zr,Ti)O3 inverse opals. Applied Physics Letters, 2003, 82, 3617-3619.	1.5	26
61	Heavily Nitrogenâ€Doped Dualâ€Phase Titanium Oxide Thin Films by Reactive Sputtering and Rapid Thermal Annealing. Journal of the American Ceramic Society, 2008, 91, 3167-3172.	1.9	26
62	Synthesis of Superparamagnetic Coreâ€"Shell Structure Supported Pd Nanocatalysts for Catalytic Nitrite Reduction with Enhanced Activity, No Detection of Undesirable Product of Ammonium, and Easy Magnetic Separation Capability. ACS Applied Materials & Samp; Interfaces, 2016, 8, 2035-2047.	4.0	25
63	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
64	Nonlinear Elasticity and Yielding of Nanoparticle Glasses. Langmuir, 2006, 22, 2441-2443.	1.6	23
65	High efficient As(III) removal by self-assembled zinc oxide micro-tubes synthesized by a simple precipitation process. Journal of Materials Science, 2011, 46, 5851-5858.	1.7	23
66	PdO loaded TiO2 hollow sphere composite photocatalyst with a high photocatalytic disinfection efficiency on bacteria. Chemical Engineering Journal, 2014, 249, 63-71.	6.6	23
67	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
68	Ionic Potential: A General Material Criterion for the Selection of Highly Efficient Arsenic Adsorbents. Journal of Materials Science and Technology, 2014, 30, 949-953.	5.6	20
69	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
70	Anti-algal activity of palladium oxide-modified nitrogen-doped titanium oxide photocatalyst on Anabaena sp. PCC 7120 and its photocatalytic degradation on Microcystin LR under visible light illumination. Chemical Engineering Journal, 2015, 264, 437-444.	6.6	18
71	Fluorineâ€Free Synthesis of Wellâ€Dispersed Hollow <scp><scp>TiO</scp></scp> ₂ Spheres via Ostwald Ripening: Process, Mechanism, and Photocatalytic Performance. Journal of the American Ceramic Society, 2013, 96, 1421-1427.	1.9	17
72	Large energy density in Ba doped Pb0.97La0.02(Zr0.65Sn0.3Ti0.05)O3 antiferroelectric ceramics with improved temperature stability. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 744-748.	1.8	17

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73	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
74	Enhanced Photocatalytic Disinfection of <i>Escherichia coli</i> Bacteria by Silver Modification of Nitrogenâ€Doped Titanium Oxide Nanoparticle Photocatalyst Under Visibleâ€Light Illumination. Journal of the American Ceramic Society, 2010, 93, 3880-3885.	1.9	16
75	Creation of 3D terahertz photonic crystals by the direct writing technique with a TiO ₂ solâ€gel ink. Journal of the American Ceramic Society, 2018, 101, 1967-1973.	1.9	16
76	Photoirradiation-Induced Capacitance Enhancement in the <i>h</i> -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 & Description (2011), 13, 57214-57229.	4.0	16
77	Enhanced photocatalytic disinfection of microorganisms by transition-metal-ion-modification of nitrogen-doped titanium oxide. Journal of Materials Research, 2010, 25, 167-176.	1.2	15
78	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
79	Direct Writing of Microfluidic Three-Dimensional Photonic Crystal Structures for Terahertz Technology Applications. ACS Applied Materials & Samp; Interfaces, 2019, 11, 41611-41616.	4.0	15
80	Ordered Ceramic Microstructures from Butterfly Bio-template. Journal of the American Ceramic Society, 2006, 89, 060427083300014-???.	1.9	14
81	Creation of Pd/Al2O3 Catalyst by a Spray Process for Fixed Bed Reactors and Its Effective Removal of Aqueous Bromate. Scientific Reports, 2017, 7, 41797.	1.6	14
82	Well-dispersed, ultrasmall, superparamagnetic magnesium ferrite nanocrystallites with controlled hydrophilicity/hydrophobicity and high saturation magnetization. RSC Advances, 2013, 3, 13961.	1.7	13
83	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
84	Synthesis of a superparamagnetic MFNs@SiO ₂ 0 ₄₀ /Ag composite photocatalystic performance under visible light illumination, and its easy magnetic separation. RSC Advances, 2014, 4, 30090-30099.	1.7	10
85	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
86	Strong Suppression and Enhancement of Photoluminescence in Zn2SiO4:Mn2+ Inverse Opal Photonic Crystals. Journal of the American Ceramic Society, 2006, 89, 060427083300027-???.	1.9	6
87	Enhanced Photocatalytic Disinfection of Escherichia coli Bacteria by Silver and Nickel Comodification of a Nitrogenâ€Doped Titanium Oxide Nanoparticle Photocatalyst Under Visibleâ€Light Illumination. Journal of the American Ceramic Society, 2010, 93, 531-535.	1.9	5
88	Nanostructured Visible-Light Photocatalysts for Water Purification. , 2014, , 297-317.		5
89	Modulation of MS2 virus adsorption on TiO2semiconductor film by nitrogen doping. Journal of Materials Research, 2007, 22, 3036-3041.	1.2	4
90	Enhanced Visible Light Absorption in a Photocatalytic Thin Film from a Decoupled Photonic Crystal. Journal of the American Ceramic Society, 2008, 91, 2575-2580.	1.9	4

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91	Nanostructured Visible-Light Photocatalysts for Water Purification. , 2009, , 17-37.		4
92	Energy Storage: High Energy and Power Density Capacitors from Solutionâ€Processed Ternary Ferroelectric Polymer Nanocomposites (Adv. Mater. 36/2014). Advanced Materials, 2014, 26, 6356-6356.	11.1	4
93	Real Time, in situ Observation of the Photocatalytic Destruction of Saccharomyces cerevisiae Cells by Palladium-modified Nitrogen-doped Titanium Oxide Thin Film. Journal of Materials Science and Technology, 2015, 31, 48-54.	5 . 6	4
94	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
95	Nanocomposites: Highâ€Energyâ€Density Dielectric Polymer Nanocomposites with Trilayered Architecture (Adv. Funct. Mater. 20/2017). Advanced Functional Materials, 2017, 27, .	7.8	4
96	Photoinduced reversible lattice expansion in W-doped TiO2through the change of its electronic structure. Applied Physics Letters, 2018, 112, 061904.	1.5	4
97	{001}/{101} facets co-exposed TiO2 microsheet arrays with Lanthanum doping for enhancing photocatalytic CO2 reduction. Journal of Materials Science: Materials in Electronics, 2020, 31, 19464-19474.	1.1	4
98	Electronic band structures of TiO2 with heavy nitrogen doping. Journal Wuhan University of Technology, Materials Science Edition, 2008, 23, 799-803.	0.4	3
99	Modulation of terahertz properties of 3D ceramic photonic crystals via postâ€ereation nonâ€metal anion doping treatment. Journal of the American Ceramic Society, 2019, 102, 4688-4697.	1.9	3
100	Real time, in situ observation of the photocatalytic inactivation of Saccharomyces cerevisiae cells. Materials Science and Engineering C, 2015, 49, 75-83.	3.8	2
101	Electrocaloric Effect: Relaxor Ferroelectricâ€Based Electrocaloric Polymer Nanocomposites with a Broad Operating Temperature Range and High Cooling Energy (Adv. Mater. 13/2015). Advanced Materials, 2015, 27, 2267-2267.	11.1	2
102	Enhanced visible light adsorption of heavily nitrogen doped TiO2 thin film via ion beam assisted deposition. Journal of Materials Science: Materials in Electronics, 2016, 27, 2968-2973.	1.1	2
103	Photocatalysis: a "Solar Sail―to Drive Microscale Objects in Water. Advanced Materials Technologies, 2018, 3, 1700384.	3.0	2
104	Microwave Bandgap in Multilayer Ceramic Structures. Journal of the American Ceramic Society, 2006, 89, 1087-1090.	1.9	1
105	Heavily Nitrogenâ€Doped Titanium Oxide Thin Films by Reactive Sputtering and Excimer Laser Annealing. Journal of the American Ceramic Society, 2010, 93, 3039-3042.	1.9	1
106	Photonic structures in butterflyThaumantis diores. Science Bulletin, 2004, 49, 2545-2546.	1.7	0