

Xiaotian Li

List of Publications by Year in descending order

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107
papers

4,197
citations

94433

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108
all docs

108
docs citations

108
times ranked

5821
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient oxygen evolution electrocatalysis in acid by a perovskite with face-sharing IrO ₆ octahedral dimers. <i>Nature Communications</i> , 2018, 9, 5236.	12.8	325
2	Synthesis of Fe ₃ O ₄ @SiO ₂ -Ag magnetic nanocomposite based on small-sized and highly dispersed silver nanoparticles for catalytic reduction of 4-nitrophenol. <i>Journal of Colloid and Interface Science</i> , 2012, 383, 96-102.	9.4	281
3	Ordered Arrays of Bead-Chain-like In ₂ O ₃ Nanorods and Their Enhanced Sensing Performance for Formaldehyde. <i>Chemistry of Materials</i> , 2010, 22, 3033-3042.	6.7	140
4	Magnetically separable Fe ₃ O ₄ @SiO ₂ @TiO ₂ -Ag microspheres with well-designed nanostructure and enhanced photocatalytic activity. <i>Journal of Hazardous Materials</i> , 2013, 262, 404-411.	12.4	132
5	3D NiO hollow sphere/reduced graphene oxide composite for high-performance glucose biosensor. <i>Scientific Reports</i> , 2017, 7, 5220.	3.3	132
6	Effect of large pore size of multifunctional mesoporous microsphere on removal of heavy metal ions. <i>Journal of Hazardous Materials</i> , 2013, 254-255, 157-165.	12.4	128
7	Ordered Mesoporous Copper Oxide with Crystalline Walls. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 738-741.	13.8	124
8	Vertical nanosheet array of 1T phase MoS ₂ for efficient and stable hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 246, 296-302.	20.2	122
9	Study on humidity sensing properties based on composite materials of Li-doped mesoporous silica A-SBA-15. <i>Sensors and Actuators B: Chemical</i> , 2008, 128, 482-487.	7.8	86
10	Electrospinning of magnetical bismuth ferrite nanofibers with photocatalytic activity. <i>Ceramics International</i> , 2013, 39, 3511-3518.	4.8	83
11	Humidity sensitive property of Li-doped mesoporous silica SBA-15. <i>Sensors and Actuators B: Chemical</i> , 2007, 127, 323-329.	7.8	82
12	One-pot synthesis of ordered mesoporous silver nanoparticle/carbon composites for catalytic reduction of 4-nitrophenol. <i>Journal of Colloid and Interface Science</i> , 2014, 423, 54-59.	9.4	80
13	Synthesis of hierarchically meso-macroporous TiO ₂ /CdS heterojunction photocatalysts with excellent visible-light photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2018, 512, 47-54.	9.4	77
14	Effect of polymerization time on the humidity sensing properties of polypyrrole. <i>Sensors and Actuators B: Chemical</i> , 2007, 125, 114-119.	7.8	74
15	Preparation and humidity sensitive property of mesoporous ZnO-SiO ₂ composite. <i>Sensors and Actuators B: Chemical</i> , 2010, 149, 413-419.	7.8	74
16	The humidity-sensitive property of MgO-SBA-15 composites in one-pot synthesis. <i>Sensors and Actuators B: Chemical</i> , 2010, 145, 386-393.	7.8	71
17	Synthesis of metallic nanotube arrays in porous anodic aluminum oxide template through electroless deposition. <i>Materials Research Bulletin</i> , 2006, 41, 1417-1423.	5.2	64
18	Preparation of magnetically recoverable Fe ₃ O ₄ @SiO ₂ @meso-TiO ₂ nanocomposites with enhanced photocatalytic ability. <i>Materials Research Bulletin</i> , 2012, 47, 2396-2402.	5.2	64

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19	Well-dispersed CoS ₂ nano-octahedra grown on a carbon fibre network as efficient electrocatalysts for hydrogen evolution reaction. <i>Catalysis Science and Technology</i> , 2016, 6, 4545-4553.	4.1	62
20	Activation engineering on metallic 1T-MoS ₂ by constructing In-plane heterostructure for efficient hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2022, 300, 120696.	20.2	60
21	Colossal low-frequency resonant magnetomechanical and magnetoelectric effects in a three-phase ferromagnetic/elastic/piezoelectric composite. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	58
22	Heterostructures of Ag ₃ PO ₄ /TiO ₂ mesoporous spheres with highly efficient visible light photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2015, 450, 246-253.	9.4	55
23	Synthesis and humidity sensitivity of conducting polyaniline in SBA-15. <i>Journal of Applied Polymer Science</i> , 2004, 93, 1597-1601.	2.6	52
24	Amino-functionalized magnetic mesoporous microspheres with good adsorption properties. <i>Materials Research Bulletin</i> , 2014, 49, 279-284.	5.2	52
25	Comprehensive study of mesoporous carbon functionalized with carboxylate groups and magnetic nanoparticles as a promising adsorbent. <i>Journal of Colloid and Interface Science</i> , 2012, 369, 366-372.	9.4	51
26	Synthesis and characterization of mesoporous indium oxide for humidity-sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 442-448.	7.8	50
27	The study of photoluminescence properties of Rhodamine B encapsulated in mesoporous silica. <i>Materials Chemistry and Physics</i> , 2009, 118, 273-276.	4.0	48
28	Humidity sensing properties of mesoporous iron oxide/silica composite prepared via hydrothermal process. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 334-340.	7.8	48
29	A standing wave linear ultrasonic motor operating in in-plane expanding and bending modes. <i>Review of Scientific Instruments</i> , 2015, 86, 035002.	1.3	48
30	Enhanced Iridium Mass Activity of 6H-Phase, Ir-Based Perovskite with Nonprecious Incorporation for Acidic Oxygen Evolution Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42006-42013.	8.0	48
31	Phosphotungstic acid anchored to amino-functionalized core-shell magnetic mesoporous silica microspheres: A magnetically recoverable nanocomposite with enhanced photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2013, 390, 70-77.	9.4	45
32	Size-controlled synthesis of silicalite-1 single crystals in the presence of benzene-1,2-diol. <i>Microporous and Mesoporous Materials</i> , 2000, 39, 117-123.	4.4	43
33	Humidity sensitive property of Li-doped 3D periodic mesoporous silica SBA-16. <i>Sensors and Actuators B: Chemical</i> , 2009, 136, 392-398.	7.8	43
34	Electroless deposition of open-end Cu nanotube arrays. <i>Solid State Communications</i> , 2004, 132, 841-844.	1.9	42
35	In situ auto-reduction of silver nanoparticles in mesoporous carbon with multifunctionalized surfaces. <i>Journal of Materials Chemistry</i> , 2012, 22, 13571.	6.7	40
36	A two degrees-of-freedom piezoelectric single-crystal micromotor. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	40

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37	Composition and strain engineered AgNbO ₃ -based multilayer capacitors for ultra-high energy storage capacity. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9655-9664.	10.3	40
38	Electrochemical Fixation of Nitrogen by Promoting N ₂ Adsorption and N≡N Triple Bond Cleavage on the CoS ₂ /MoS ₂ Nanocomposite. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 21474-21481.	8.0	39
39	Ultrahigh Piezoelectric Performance through Synergistic Compositional and Microstructural Engineering. <i>Advanced Science</i> , 2022, 9, e2105715.	11.2	38
40	Humidity-sensitive property of Fe ²⁺ doped polypyrrole. <i>Synthetic Metals</i> , 2009, 159, 2469-2473.	3.9	37
41	H ₂ S-sensing properties of Pt-doped mesoporous indium oxide. <i>Applied Surface Science</i> , 2010, 256, 5051-5055.	6.1	35
42	Study on a type of mesoporous silica humidity sensing material. <i>Sensors and Actuators B: Chemical</i> , 2012, 166-167, 658-664.	7.8	34
43	Synthesis of a High-Quality Host Material: Zeolite MFI Giant Single Crystal from Monocrystalline Silicon Slice. <i>Journal of Physical Chemistry B</i> , 2001, 105, 12704-12708.	2.6	33
44	Direct-current and alternating-current analysis of the humidity-sensing properties of nickel oxide doped polypyrrole encapsulated in mesoporous silica SBA-15. <i>Journal of Applied Polymer Science</i> , 2010, 115, 3474-3480.	2.6	30
45	Hydrothermal synthesis of highly crystalline RuS ₂ nanoparticles as cathodic catalysts in the methanol fuel cell and hydrochloric acid electrolysis. <i>Materials Research Bulletin</i> , 2015, 65, 110-115.	5.2	29
46	Rapid synthesis of rGO conjugated hierarchical NiCo ₂ O ₄ hollow mesoporous nanospheres with enhanced glucose sensitivity. <i>Nanotechnology</i> , 2017, 28, 025501.	2.6	29
47	1T- and 2H-mixed phase MoS ₂ nanosheets coated on hollow mesoporous TiO ₂ nanospheres with enhanced photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2020, 567, 10-17.	9.4	29
48	Electrical conductivity of carbon fibers/ABS resin composites mixed with carbon blacks. <i>Journal of Applied Polymer Science</i> , 1996, 62, 2193-2199.	2.6	28
49	Blue-shifting photoluminescence of Tris (8-hydroxyquinoline) aluminium encapsulated in the channel of functionalized mesoporous silica SBA-15. <i>Materials Chemistry and Physics</i> , 2006, 100, 128-131.	4.0	28
50	Energy-storage performance of NaNbO ₃ based multilayered capacitors. <i>Journal of Materials Chemistry C</i> , 0, , .	5.5	28
51	Host-guest composite materials of LiCl/NaY with wide range of humidity sensitivity. <i>Materials Letters</i> , 2004, 58, 1535-1539.	2.6	26
52	PdCoNi alloy nanoparticles decorated, nitrogen-doped carbon nanotubes for highly active and durable oxygen reduction electrocatalysis. <i>Chemical Engineering Journal</i> , 2021, 411, 128527.	12.7	26
53	Synthesis of alumina nanowires and nanorods by anodic oxidation method. <i>Materials Letters</i> , 2006, 60, 2937-2940.	2.6	25
54	Humidity sensitivity of polypyrrole and polypyrrole/SBA-15 host-guest composite materials. <i>Journal of Applied Polymer Science</i> , 2006, 102, 3301-3305.	2.6	24

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55	Facile encapsulation of monodispersed silver nanoparticles in mesoporous compounds. <i>Chemical Engineering Journal</i> , 2012, 195-196, 254-260.	12.7	24
56	Electrospun TiO ₂ nanofibers integrating space-separated magnetic nanoparticles and heterostructures for recoverable and efficient photocatalyst. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12304-12310.	10.3	24
57	Hierarchical tubular structure constructed by mesoporous TiO ₂ nanosheets: Controlled synthesis and applications in photocatalysis and lithium ion batteries. <i>Chemical Engineering Journal</i> , 2013, 232, 356-363.	12.7	23
58	Realization of interstitial boron ordering and optimal near-surface electronic structure in Pd-B alloy electrocatalysts. <i>Chemical Engineering Journal</i> , 2021, 419, 129568.	12.7	23
59	The role of pyrocatechol as a complex agent for silicon in the synthesis of large single crystals of silica-sodalite zeolite. <i>Microporous and Mesoporous Materials</i> , 1999, 33, 215-222.	4.4	22
60	In situ synthesis of concentric C@MoS ₂ core-shell nanospheres as anode for lithium ion battery. <i>Journal of Materials Science</i> , 2017, 52, 13183-13191.	3.7	22
61	A high-temperature piezoelectric linear actuator operating in two orthogonal first bending modes. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	21
62	Fluorescence of postgrafting Rhodamine B in the mesopores of rodlike SBA-15. <i>Journal of Luminescence</i> , 2007, 126, 723-727.	3.1	20
63	Nano-netlike carbon fibers decorated with highly dispersed CoSe ₂ nanoparticles as efficient hydrogen evolution electrocatalysts. <i>Journal of Alloys and Compounds</i> , 2017, 702, 611-618.	5.5	20
64	TiO ₂ supported on rod-like mesoporous silica SBA-15: Preparation, characterization and photocatalytic behaviour. <i>Materials Research Bulletin</i> , 2011, 46, 2317-2322.	5.2	19
65	Study on humidity sensitive property of K ₂ CO ₃ -SBA-15 composites. <i>Applied Surface Science</i> , 2009, 256, 280-283.	6.1	18
66	A shear-bending mode high temperature piezoelectric actuator. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	18
67	Ultra-small Molybdenum Carbide Nanoparticles in-situ Entrapped in Mesoporous Carbon Spheres as Efficient Catalysts for Hydrogen Evolution. <i>ChemCatChem</i> , 2019, 11, 2643-2648.	3.7	18
68	Synthesis of cluster polyaniline nanorod via a binary oxidant system. <i>Materials Science and Engineering C</i> , 2007, 27, 695-699.	7.3	17
69	Three-dimensionally ordered macroporous FeP self-supported structure for high-efficiency hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 5854-5862.	7.1	16
70	The synthesis of offretite single crystals in the system containing pyrocatechol or Fâ ⁺ . <i>Materials Letters</i> , 2001, 48, 1-7.	2.6	15
71	Low threshold amplified spontaneous emission based on coumarin 151 encapsulated in mesoporous SBA-15. <i>Applied Physics Letters</i> , 2006, 89, 231112.	3.3	15
72	Ultrafine Cobalt-Doped Iron Disulfide Nanoparticles in Ordered Mesoporous Carbon for Efficient Hydrogen Evolution. <i>ChemCatChem</i> , 2020, 12, 788-794.	3.7	15

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73	In situ synthesis of well crystallized rhodium sulfide/carbon composite nanospheres as catalyst for hydrochloric acid electrolysis. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1484-1492.	10.3	14
74	Asymmetrically strained hcp rhodium sublattice stabilized by 1D covalent boron chains as an efficient electrocatalyst. <i>Chemical Communications</i> , 2021, 57, 5075-5078.	4.1	14
75	Light-emitting boron nitride nanoparticles encapsulated in zeolite ZSM-5. <i>Microporous and Mesoporous Materials</i> , 2000, 40, 263-269.	4.4	13
76	Template synthesis of boron nitride nanotubes in mesoporous silica SBA-15. <i>Materials Letters</i> , 2005, 59, 925-928.	2.6	13
77	Mesoporous indium oxide synthesized via a nanocasting route. <i>Materials Letters</i> , 2008, 62, 3868-3871.	2.6	11
78	Synthesis of CdS/m-TiO ₂ mesoporous spheres and their application in photocatalytic degradation of rhodamine B under visible light. <i>Chemical Research in Chinese Universities</i> , 2017, 33, 436-441.	2.6	11
79	Periodically ordered mesoporous iron phosphide for highly efficient electrochemical hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2020, 569, 68-75.	9.4	11
80	Synthesis and photoluminescent properties of mesoporous (MgO) _x (ZnO) _{1-x} materials. <i>Materials Research Bulletin</i> , 2008, 43, 601-610.	5.2	10
81	Spherical Rh ₁₇ S ₁₅ @C and Rh@C core-shell nanocomposites: Synthesis, growth mechanism and methanol tolerance in oxygen reduction reaction. <i>Chemical Engineering Journal</i> , 2013, 228, 45-53.	12.7	10
82	Quantitative Proteomic Analysis of Serum from Pregnant Women Carrying a Fetus with Conotruncal Heart Defect Using Isobaric Tags for Relative and Absolute Quantitation (iTRAQ) Labeling. <i>PLoS ONE</i> , 2014, 9, e111645.	2.5	10
83	Hypomethylation of tissue factor pathway inhibitor 2 in human placenta of preeclampsia. <i>Thrombosis Research</i> , 2017, 152, 7-13.	1.7	10
84	Self-Supported Mesoporous Iron Phosphide with High Active Site Density for Electrocatalytic Hydrogen Evolution in Acidic and Alkaline Media. <i>ChemElectroChem</i> , 2020, 7, 4943-4948.	3.4	10
85	Perovskite-SrTiO ₃ /TiO ₂ /PDA as photoelectrochemical glucose biosensor. <i>Ceramics International</i> , 2021, 47, 29807-29814.	4.8	10
86	Unveiling the relationship between the multilayer structure of metallic MoS ₂ and the cycling performance for lithium ion batteries. <i>Nanoscale</i> , 2022, 14, 8621-8627.	5.6	9
87	Macroporous TiO ₂ encapsulated Au@Pd bimetal nanoparticles for the photocatalytic oxidation of alcohols in water under visible-light. <i>RSC Advances</i> , 2016, 6, 107233-107238.	3.6	8
88	Crystal structures and magnetic properties of Fe-N thin films deposited by dc magnetron sputtering. <i>Powder Diffraction</i> , 2004, 19, 352-355.	0.2	7
89	Three-Dimensional Cathode Constructed through Confined Growth of FeP Nanocrystals in Ordered Mesoporous Carbon Film Coated on Carbon Cloth for Efficient Hydrogen Production. <i>ChemCatChem</i> , 2018, 10, 3441-3446.	3.7	7
90	1T-MoS ₂ Nanosheets Coupled with CoS ₂ Nanoparticles: Electronic Modulation for Efficient Electrochemical Nitrogen Fixation. <i>Inorganic Chemistry</i> , 2022, 61, 7608-7616.	4.0	7

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91	Synthesis and property of three novel organically templated layered cerium materials. <i>Microporous and Mesoporous Materials</i> , 2007, 101, 66-72.	4.4	6
92	Crystal phase-selective synthesis of intermetallic palladium borides and phase-regulated (electro)catalytic properties. <i>Catalysis Science and Technology</i> , 0, , .	4.1	6
93	Enhanced charge separation efficiency of sulfur-doped TiO ₂ nanorod arrays for an improved photoelectrochemical glucose sensing performance. <i>Journal of Materials Science</i> , 2022, 57, 1362-1372.	3.7	6
94	Encapsulation of dye molecules into mesoporous polymer resin and mesoporous polymer-silica films by an evaporation-induced self-assembly method. <i>Journal of Luminescence</i> , 2010, 130, 512-515.	3.1	5
95	Effect of template-removing methods and modification to mesoporous blank silica and composited silica. <i>Powder Technology</i> , 2012, 219, 271-275.	4.2	5
96	Watermelon-like Rh _x S _y @C nanospheres: phase evolution and its influence on the electrocatalytic performance for oxygen reduction reaction. <i>Journal of Materials Science</i> , 2017, 52, 11402-11412.	3.7	5
97	Mesoporous silica tubes fabricated with human hair as template. <i>Materials Chemistry and Physics</i> , 2005, 91, 223-226.	4.0	4
98	Photoluminescence and laser properties of mesostructured SBA-15 monolith doped with coumarin 151. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 54, 329-334.	2.4	4
99	Encapsulation of Coumarin 151 into the mesopores of modified rodlike SBA-15. <i>Materials Research Bulletin</i> , 2010, 45, 1-5.	5.2	4
100	Roles of hydroxyl and oxygen vacancy of CeO ₂ ·xH ₂ O in Pd-catalyzed ethanol electro-oxidation. <i>Science China Chemistry</i> , 2022, 65, 877-884.	8.2	4
101	The fluorescence property of PNA encapsulated in the pores of oriented silicalite-1 film prepared on MSS. <i>Materials Letters</i> , 2005, 59, 2598-2600.	2.6	3
102	Synthesis of SnO ₂ -nanoparticle-decorated SnSe nanosheets and their gas-sensing properties. <i>AIP Advances</i> , 2021, 11, .	1.3	3
103	Optical performance of mesostructured composite silica film loaded with organic dye. <i>Applied Optics</i> , 2014, 53, 291.	1.8	2
104	Electrocaloric Performance of Multilayer Ceramic Chips: Effect of Geometric Structure Induced Internal Stress. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38508-38516.	8.0	2
105	Synthesis, Characterization, and Humidity Sensing Property of Mesoporous Cerium Oxide. <i>Journal of Nanoengineering and Nanomanufacturing</i> , 2012, 2, 41-45.	0.3	1
106	A Photoelectrochemical Platform Based on Polyaniline-Modified Titanium Dioxide Facet Heterostructure. <i>ACS Applied Bio Materials</i> , 2022, 5, 1297-1304.	4.6	1
107	Synthesis and characterization of structure optimized film doped with Rhodamine 6G. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 59, 169-173.	2.4	0