

Hongyi Li

List of Publications by Year in descending order

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100
papers

2,773
citations

172457

29
h-index

197818

49
g-index

102
all docs

102
docs citations

102
times ranked

4264
citing authors

#	ARTICLE	IF	CITATIONS
1	In-situ constructing nanostructured magnesium ferrite on steel slag for Cr(VI) photoreduction. <i>Journal of Hazardous Materials</i> , 2022, 422, 126951.	12.4	12
2	Enhancing ions/electrons dual transport in rGO/PEDOT:PSS fiber for high-performance supercapacitor. <i>Carbon</i> , 2022, 189, 284-292.	10.3	30
3	The integration of Triazine-based porous organic polymer with bio-waste poplar catkin as water-floatable photocatalyst. <i>Applied Surface Science</i> , 2022, 581, 152409.	6.1	12
4	Optimizing Stem Cell Functions and Antibacterial Properties of TiO ₂ Nanotubes Incorporated with ZnO Nanoparticles: Experiments and Modeling [Retraction]. <i>International Journal of Nanomedicine</i> , 2022, Volume 17, 463-464.	6.7	0
5	Single-atom alloy with Pt-Co dual sites as an efficient electrocatalyst for oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2022, 306, 121112.	20.2	74
6	CO ₂ -assisted "Weathering"™ of Steel Slag-Derived Calcium Silicate Hydrate: A Generalized Strategy for Recycling Noble Metals and Constructing SiO ₂ -Based Nanocomposites. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 1008-1019.	9.4	8
7	Unraveling structure evolution failure mechanism in MoS ₂ anode for improving lithium storage stability. <i>Journal of Materials Science and Technology</i> , 2022, 128, 245-253.	10.7	1
8	Platinum nanoclusters by atomic layer deposition on three-dimensional TiO ₂ nanotube array for efficient hydrogen evolution. <i>Materials Today Energy</i> , 2022, 27, 101042.	4.7	8
9	Surface engineering of diatomite using nanostructured Zn compounds for adsorption and sunlight photocatalysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 612, 125977.	4.7	7
10	Tribological properties of MoS ₂ nano-flowers supported by porous alumina aperture array. <i>Tribology International</i> , 2021, 161, 107093.	5.9	5
11	Biotemplating preparation of N,O-codoped hierarchically porous carbon for high-performance supercapacitors. <i>Applied Surface Science</i> , 2021, 566, 150613.	6.1	33
12	New insights into the accelerated sintering of tungsten with trace nickel addition. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020, 87, 105139.	3.8	4
13	Preparation and performance of PANI-TiO ₂ nanotube arrays composite electrode by in-situ microcavity polymerization. <i>Materials Chemistry and Physics</i> , 2020, 240, 122179.	4.0	10
14	Revealing the failure mechanism of transition-metal chalcogenides towards the copper current collector in secondary batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6569-6575.	10.3	12
15	Hierarchically interconnected conducting polymer hybrid fiber with high specific capacitance for flexible fiber-shaped supercapacitor. <i>Chemical Engineering Journal</i> , 2020, 390, 124569.	12.7	74
16	Controlled synthesis of Zeolite adsorbent from low-grade diatomite: A case study of self-assembled sodalite microspheres. <i>Journal of Environmental Sciences</i> , 2020, 91, 92-104.	6.1	25
17	Charge redistribution within platinum-nitrogen coordination structure to boost hydrogen evolution. <i>Nano Energy</i> , 2020, 73, 104739.	16.0	55
18	Aerosol assisted chemical vapour deposition of nanostructured ZnO thin films for NO ₂ and ethanol monitoring. <i>Ceramics International</i> , 2020, 46, 15152-15158.	4.8	42

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19	Effect of TiO ₂ Nanotube Arrays Morphology/Structure on Photocatalytic Hydrogen Production. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 852-857.	0.9	0
20	A general route to modify diatomite with niobates for versatile applications of heavy metal removal. <i>RSC Advances</i> , 2019, 9, 3816-3827.	3.6	11
21	Constructing nanostructured silicates on diatomite for Pb(II) and Cd(II) removal. <i>Journal of Materials Science</i> , 2019, 54, 6882-6894.	3.7	30
22	<p>Long noncoding RNA expression analysis reveals the regulatory effects of nitinol-based nanotubular coatings on human coronary artery endothelial cells</p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 3297-3309.	6.7	9
23	Tungsten oxide nanostructures and nanocomposites for photoelectrochemical water splitting. <i>Nanoscale</i> , 2019, 11, 18968-18994.	5.6	168
24	Platinum nano-flowers with controlled facet planted in titanium dioxide nanotube arrays bed and their high electro-catalytic activity. <i>Sustainable Materials and Technologies</i> , 2019, 20, e00093.	3.3	5
25	Sandwich structured WO ₃ nanoplatelets for highly efficient photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26077-26088.	10.3	76
26	Plasma Hydrogenated TiO ₂ /Nickel Foam as an Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 885-894.	6.7	40
27	Investigations of the nickel promotional effect on the reduction and sintering of tungsten compounds. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019, 78, 296-302.	3.8	5
28	Photocatalytic reduction of p-nitrophenol over plasmonic M (M=Ag, Au)/SnNb ₂ O ₆ nanosheets. <i>Applied Surface Science</i> , 2019, 466, 342-351.	6.1	26
29	Measurement of SnO ₂ Nanoparticles Coating on Titanium Dioxide Nanotube Arrays Using Grazing-Incidence X-Ray Diffraction. <i>Minerals, Metals and Materials Series</i> , 2019, , 703-711.	0.4	1
30	Tribological properties of MoS ₂ nanosheets solid lubricant planted on TiO ₂ nanotube array bed. <i>Tribology International</i> , 2018, 125, 12-16.	5.9	14
31	Aerosol assisted chemical vapour deposition of conformal ZnO compact layers for efficient electron transport in perovskite solar cells. <i>Materials Letters</i> , 2018, 217, 251-254.	2.6	20
32	Facile synthesis of MoO ₂ /CaSO ₄ composites as highly efficient adsorbents for congo red and rhodamine B. <i>RSC Advances</i> , 2018, 8, 1621-1631.	3.6	18
33	The epigenetic mechanisms of nanotopography-guided osteogenic differentiation of mesenchymal stem cells via high-throughput transcriptome sequencing. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 5605-5623.	6.7	22
34	Highly efficient mass determination of TiO ₂ nanotube arrays and its application in lithium-ion batteries. <i>Sustainable Materials and Technologies</i> , 2018, 18, e00079.	3.3	7
35	Crystallization of WO ₃ ·H ₂ O nanosheets with high-adsorption capacity for methylene blue. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	1.9	7
36	Rapid synthesis of alpha calcium sulfate hemihydrate whiskers in glycerol-water solution by using flue-gas-desulfurization gypsum solid waste. <i>Journal of Crystal Growth</i> , 2018, 496-497, 24-30.	1.5	21

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37	Synergetic catalytic properties of gold nanoparticles planted on transparent titanium dioxide nanotube array bed. <i>Materials Chemistry and Physics</i> , 2018, 217, 437-444.	4.0	6
38	Visible-light responsive Cr(VI) reduction by carbonyl modification Nb ₃ O ₇ (OH) nanoaggregates. <i>Journal of Materials Science</i> , 2018, 53, 12065-12078.	3.7	6
39	Surface activation of MnNb ₂ O ₆ nanosheets by oxalic acid for enhanced photocatalysis. <i>Applied Surface Science</i> , 2017, 403, 314-325.	6.1	16
40	Antibacterial activity and cytocompatibility of an implant coating consisting of TiO ₂ nanotubes combined with a GL13K antimicrobial peptide. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 2995-3007.	6.7	65
41	Controlled Synthesis of Magnesium Oxide Nanoparticles for Dye Adsorption. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2017, 12, 512-517.	0.5	5
42	Adsorption mechanism and kinetics of azo dye chemicals on oxide nanotubes: a case study using porous CeO ₂ nanotubes. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	22
43	Electrochemical Properties of Nickel Oxide Nanofibers Fabricated by Electrospinning and Annealing. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 7273-7277.	0.9	1
44	Phase- and morphology-controlled crystallization of gypsum by using flue-gas-desulfurization gypsum solid waste. <i>Journal of Alloys and Compounds</i> , 2016, 674, 200-206.	5.5	35
45	Refining waste hardmetals into tungsten oxide nanosheets via facile method. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	3
46	Rare Earth - Activated Y ₂ O ₃ Phosphors with Novel Morphology for Dye-Sensitized Solar Cells. <i>ChemistrySelect</i> , 2016, 1, 1136-1139.	1.5	4
47	Selenium nanoparticles incorporated into titania nanotubes inhibit bacterial growth and macrophage proliferation. <i>Nanoscale</i> , 2016, 8, 15783-15794.	5.6	65
48	Photochemical synthesis of iridium submicroparticles and their application in catalytic reduction of methylene blue. <i>Applied Catalysis A: General</i> , 2016, 516, 109-116.	4.3	9
49	Optimizing stem cell functions and antibacterial properties of TiO ₂ nanotubes incorporated with ZnO nanoparticles: experiments and modeling. <i>International Journal of Nanomedicine</i> , 2015, 10, 1997.	6.7	40
50	Solar-to-Electric Performance Enhancement by Titanium Oxide Nanoparticles Coated with Porous Yttrium Oxide for Dye-Sensitized Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1518-1525.	6.7	16
51	Nanotubes Functionalized with BMP2 Knuckle Peptide Improve the Osseointegration of Titanium Implants in Rabbits. <i>Journal of Biomedical Nanotechnology</i> , 2015, 11, 236-244.	1.1	23
52	Facile preparation of titanium dioxide nano-capsule arrays used as photo-anode for dye sensitized solar cells. <i>Applied Surface Science</i> , 2015, 347, 636-642.	6.1	13
53	The influence of yttrium dopant on the properties of anatase nanoparticles and the performance of dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 14836-14842.	2.8	39
54	Chemically controlled growth of porous CeO ₂ nanotubes for Cr(VI) photoreduction. <i>Applied Catalysis B: Environmental</i> , 2015, 174-175, 435-444.	20.2	62

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55	Antibacterial and osteogenic stem cell differentiation properties of photoinduced TiO ₂ nanoparticle-decorated TiO ₂ nanotubes. <i>Nanomedicine</i> , 2015, 10, 713-723.	3.3	44
56	The nanoscale geometry of TiO ₂ nanotubes influences the osteogenic differentiation of human adipose-derived stem cells by modulating H3K4 trimethylation. <i>Biomaterials</i> , 2015, 39, 193-205.	11.4	164
57	New fluorine-doped H ₂ (H ₂ O)Nb ₂ O ₆ photocatalyst for the degradation of organic dyes. <i>CrystEngComm</i> , 2014, 16, 9675-9684.	2.6	17
58	A nanoporous oxide interlayer makes a better Pt catalyst on a metallic substrate: Nanoflowers on a nanotube bed. <i>Nano Research</i> , 2014, 7, 1007-1017.	10.4	23
59	Mesoporous TiO ₂ Thin Films Exhibiting Enhanced Thermal Stability and Controllable Pore Size: Preparation and Photocatalyzed Destruction of Cationic Dyes. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1623-1631.	8.0	32
60	Nitrogen-doped TiO ₂ nanoparticles better TiO ₂ nanotube array photo-anodes for dye sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 137, 744-750.	5.2	35
61	Synthesis of TiO ₂ nanotubes with ZnO nanoparticles to achieve antibacterial properties and stem cell compatibility. <i>Nanoscale</i> , 2014, 6, 9050-9062.	5.6	94
62	Controlled fabrication of hierarchical WO ₃ hydrates with excellent adsorption performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1947-1954.	10.3	87
63	Designed Titanium Dioxide One Dimensional Net Structure: Reusable Adsorbent for Removing Pollutant. <i>Nanoscience and Nanotechnology Letters</i> , 2014, 6, 892-897.	0.4	1
64	Synthesis and characterization of TiO ₂ nanotube film on fluorine-doped tin oxide glass. <i>Thin Solid Films</i> , 2013, 544, 276-280.	1.8	9
65	Designed synthesis of hematite-based nanosorbents for dye removal. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9837.	10.3	73
66	Solution-phase tailored growth of Nb ₃ O ₇ (OH) thin films. <i>Thin Solid Films</i> , 2013, 544, 545-550.	1.8	9
67	Proton exchange growth to mesoporous WO ₃ ·0.33H ₂ O structure with highly photochromic sensitivity. <i>Materials Letters</i> , 2013, 91, 334-337.	2.6	29
68	Facile Synthesis of Hierarchical Hollow Mesoporous Ag/WO ₃ Spheres with High Photocatalytic Performance. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 4117-4122.	0.9	14
69	Swift Adsorptive Removal of Congo Red from Aqueous Solution by K _{1.33} Mn ₈ O ₁₆ Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 5452-5460.	0.9	8
70	Preparation, Characterization, and Photocatalytic Activity of Mesoporous TiO ₂ Thin Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 1493-1497.	0.9	5
71	Influence of Applied Voltage on Anodized TiO ₂ Nanotube Arrays and Their Performance on Dye Sensitized Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 4183-4188.	0.9	20
72	Formation Process of TiO ₂ Nanotube Arrays Prepared by Anodic Oxidation Method. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 4110-4116.	0.9	3

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73	Preliminary Investigation of Solution Diffusive Behavior on V-Doped TiO ₂ Nanotubes Array by Electrochemical Impedance Spectroscopy. Journal of Nanoscience and Nanotechnology, 2013, 13, 954-958.	0.9	2
74	A Novel NO ₂ Sensor Based on TiO ₂ Nanotubes Array with In-Situ Au Decoration. Journal of Nanoscience and Nanotechnology, 2013, 13, 1177-1181.	0.9	8
75	A Review on TiO ₂ Nanotube Film Photocatalysts Prepared by Liquid-Phase Deposition. International Journal of Photoenergy, 2012, 2012, 1-11.	2.5	8
76	Low Temperature Heat Treatment of Anodic TiO ₂ Nanotube Array Thin Film and Their Photo-Electrochemical Properties. Nanoscience and Nanotechnology Letters, 2012, 4, 564-568.	0.4	4
77	Top-down chemical etching to complex Ag microstructures. CrystEngComm, 2012, 14, 4335.	2.6	5
78	Studies on the TiO ₂ modified microchannels for microfluidic applications. Materials Letters, 2012, 89, 247-250.	2.6	6
79	Study on the Anticorrosion, Biocompatibility, and Osteoinductivity of Tantalum Decorated with Tantalum Oxide Nanotube Array Films. ACS Applied Materials & Interfaces, 2012, 4, 4516-4523.	8.0	107
80	Thermal Stability and Optimal Photoinduced Hydrophilicity of Mesoporous TiO ₂ Thin Films. Journal of Physical Chemistry C, 2012, 116, 9517-9525.	3.1	33
81	High aspect-ratio transparent highly ordered titanium dioxide nanotube arrays and their performance in dye sensitized solar cells. Materials Letters, 2012, 80, 99-102.	2.6	19
82	In-situ preparation of multi-layer TiO ₂ nanotube array thin films by anodic oxidation method. Materials Letters, 2011, 65, 1188-1190.	2.6	32
83	Effects of TiO ₂ nanotubes with different diameters on gene expression and osseointegration of implants in minipigs. Biomaterials, 2011, 32, 6900-6911.	11.4	278
84	Characterization of TiO ₂ nanotube arrays prepared via anodization of titanium films deposited by DC magnetron sputtering. Research on Chemical Intermediates, 2011, 37, 441-448.	2.7	9
85	Morphology control of TiO ₂ through hydrothermal synthesis method using protonic tetratitanate. Research on Chemical Intermediates, 2011, 37, 165-175.	2.7	6
86	Fabrication and photocatalytic activity of TiO ₂ /SiO ₂ composite nanotubes. Research on Chemical Intermediates, 2011, 37, 541-549.	2.7	6
87	In situ synthesis and characterization of TiO ₂ nanoarray films. Research on Chemical Intermediates, 2010, 36, 17-26.	2.7	7
88	Photocatalytic activity of (sulfur, nitrogen)-codoped mesoporous TiO ₂ thin films. Research on Chemical Intermediates, 2010, 36, 27-37.	2.7	25
89	Mesoporous TiO _{2-x} A _y (A = N, S) as a visible-light-response photocatalyst. Solid State Sciences, 2010, 12, 490-497.	3.2	24
90	Visible light-driven nitrogen doped TiO ₂ nanoarray films: Preparation and photocatalytic activity. Journal of Alloys and Compounds, 2010, 494, 372-377.	5.5	51

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91	Preparation and characterization of titania/tetratitanate nanocomposites. Solid State Sciences, 2009, 11, 988-993.	3.2	15
92	High thermal stability thick wall mesoporous titania thin films. Materials Letters, 2009, 63, 1583-1585.	2.6	13
93	Scandia doped tungsten matrix for impregnated cathode. Rare Metals, 2008, 27, 9-12.	7.1	3
94	High Current Density Scandia Doped Pressed Cathode and Shaped Beam Generation. , 2007, , .		3
95	Characterization and structure study of the anodic oxide film on Zircaloy-4 synthesized using NaOH electrolytes at room temperature. Applied Surface Science, 2006, 252, 7436-7441.	6.1	24
96	Fabrication of Titania Nanotubes as Cathode Protection for Stainless Steel. Electrochemical and Solid-State Letters, 2006, 9, B28.	2.2	24
97	A study of emission property and microstructure of rare earth oxide-molybdenum cermet cathode materials made by spark plasma sintering. Journal of Alloys and Compounds, 2004, 379, 247-251.	5.5	7
98	Study on rare earth oxide-molybdenum cermet cathode materials. Journal of Alloys and Compounds, 2004, 385, 288-293.	5.5	8
99	A study of secondary electron emission properties of the molybdenum cathode doped with RE ₂ O ₃ . Applied Surface Science, 2003, 215, 273-279.	6.1	18
100	Scandia-doped tungsten bodies for Sc-type cathodes. Applied Surface Science, 2003, 215, 38-48.	6.1	38