

# 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	Effects of TiO <sub>2</sub> nanotubes with different diameters on gene expression and osseointegration of implants in minipigs. <i>Biomaterials</i> , 2011, 32, 6900-6911.	11.4	278
2	Tungsten oxide nanostructures and nanocomposites for photoelectrochemical water splitting. <i>Nanoscale</i> , 2019, 11, 18968-18994.	5.6	168
3	The nanoscale geometry of TiO <sub>2</sub> 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
4	Study on the Anticorrosion, Biocompatibility, and Osteoinductivity of Tantalum Decorated with Tantalum Oxide Nanotube Array Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 4516-4523.	8.0	107
5	Synthesis of TiO <sub>2</sub> nanotubes with ZnO nanoparticles to achieve antibacterial properties and stem cell compatibility. <i>Nanoscale</i> , 2014, 6, 9050-9062.	5.6	94
6	Controlled fabrication of hierarchical WO <sub>3</sub> hydrates with excellent adsorption performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1947-1954.	10.3	87
7	Sandwich structured WO <sub>3</sub> nanoplatelets for highly efficient photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26077-26088.	10.3	76
8	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
9	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
10	Designed synthesis of hematite-based nanosorbents for dye removal. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9837.	10.3	73
11	Selenium nanoparticles incorporated into titania nanotubes inhibit bacterial growth and macrophage proliferation. <i>Nanoscale</i> , 2016, 8, 15783-15794.	5.6	65
12	Antibacterial activity and cytocompatibility of an implant coating consisting of TiO <sub>2</sub> nanotubes combined with a GL13K antimicrobial peptide. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 2995-3007.	6.7	65
13	Chemically controlled growth of porous CeO <sub>2</sub> nanotubes for Cr(VI) photoreduction. <i>Applied Catalysis B: Environmental</i> , 2015, 174-175, 435-444.	20.2	62
14	Charge redistribution within platinum-nitrogen coordination structure to boost hydrogen evolution. <i>Nano Energy</i> , 2020, 73, 104739.	16.0	55
15	Visible light-driven nitrogen doped TiO <sub>2</sub> nanoarray films: Preparation and photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2010, 494, 372-377.	5.5	51
16	Antibacterial and osteogenic stem cell differentiation properties of photoinduced TiO <sub>2</sub> nanoparticle-decorated TiO <sub>2</sub> nanotubes. <i>Nanomedicine</i> , 2015, 10, 713-723.	3.3	44
17	Aerosol assisted chemical vapour deposition of nanostructured ZnO thin films for NO <sub>2</sub> and ethanol monitoring. <i>Ceramics International</i> , 2020, 46, 15152-15158.	4.8	42
18	Optimizing stem cell functions and antibacterial properties of TiO <sub>2</sub> nanotubes incorporated with ZnO nanoparticles: experiments and modeling. <i>International Journal of Nanomedicine</i> , 2015, 10, 1997.	6.7	40

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19	Plasma Hydrogenated TiO <sub>2</sub> /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
20	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
21	Scandia-doped tungsten bodies for Sc-type cathodes. <i>Applied Surface Science</i> , 2003, 215, 38-48.	6.1	38
22	Nitrogen-doped TiO <sub>2</sub> nanoparticles better TiO <sub>2</sub> nanotube array photo-anodes for dye sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 137, 744-750.	5.2	35
23	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
24	Thermal Stability and Optimal Photoinduced Hydrophilicity of Mesoporous TiO <sub>2</sub> Thin Films. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9517-9525.	3.1	33
25	Biotemplating preparation of N,O-codoped hierarchically porous carbon for high-performance supercapacitors. <i>Applied Surface Science</i> , 2021, 566, 150613.	6.1	33
26	In-situ preparation of multi-layer TiO <sub>2</sub> nanotube array thin films by anodic oxidation method. <i>Materials Letters</i> , 2011, 65, 1188-1190.	2.6	32
27	Mesoporous TiO <sub>2</sub> Thin Films Exhibiting Enhanced Thermal Stability and Controllable Pore Size: Preparation and Photocatalyzed Destruction of Cationic Dyes. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 1623-1631.	8.0	32
28	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
29	Enhancing ions/electrons dual transport in rGO/PEDOT:PSS fiber for high-performance supercapacitor. <i>Carbon</i> , 2022, 189, 284-292.	10.3	30
30	Proton exchange growth to mesoporous WO <sub>3</sub> ·0.33H <sub>2</sub> O structure with highly photochromic sensitivity. <i>Materials Letters</i> , 2013, 91, 334-337.	2.6	29
31	Photocatalytic reduction of p-nitrophenol over plasmonic M (M = Ag, Au)/SnNb <sub>2</sub> O <sub>6</sub> nanosheets. <i>Applied Surface Science</i> , 2019, 466, 342-351.	6.1	26
32	Photocatalytic activity of (sulfur, nitrogen)-codoped mesoporous TiO <sub>2</sub> thin films. <i>Research on Chemical Intermediates</i> , 2010, 36, 27-37.	2.7	25
33	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
34	Characterization and structure study of the anodic oxide film on Zircaloy-4 synthesized using NaOH electrolytes at room temperature. <i>Applied Surface Science</i> , 2006, 252, 7436-7441.	6.1	24
35	Fabrication of Titania Nanotubes as Cathode Protection for Stainless Steel. <i>Electrochemical and Solid-State Letters</i> , 2006, 9, B28.	2.2	24
36	Mesoporous TiO <sub>2</sub> ·xHy (A = N, S) as a visible-light-response photocatalyst. <i>Solid State Sciences</i> , 2010, 12, 490-497.	3.2	24

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37	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
38	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
39	Adsorption mechanism and kinetics of azo dye chemicals on oxide nanotubes: a case study using porous CeO <sub>2</sub> nanotubes. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	22
40	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
41	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
42	Influence of Applied Voltage on Anodized TiO <sub>2</sub> Nanotube Arrays and Their Performance on Dye Sensitized Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 4183-4188.	0.9	20
43	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
44	High aspect-ratio transparent highly ordered titanium dioxide nanotube arrays and their performance in dye sensitized solar cells. <i>Materials Letters</i> , 2012, 80, 99-102.	2.6	19
45	A study of secondary electron emission properties of the molybdenum cathode doped with RE <sub>2</sub> O <sub>3</sub> . <i>Applied Surface Science</i> , 2003, 215, 273-279.	6.1	18
46	Facile synthesis of MoO <sub>3</sub> /CaSO <sub>4</sub> composites as highly efficient adsorbents for congo red and rhodamine B. <i>RSC Advances</i> , 2018, 8, 1621-1631.	3.6	18
47	New fluorine-doped H <sub>2</sub> (H <sub>2</sub> O)Nb <sub>2</sub> O <sub>6</sub> photocatalyst for the degradation of organic dyes. <i>CrystEngComm</i> , 2014, 16, 9675-9684.	2.6	17
48	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
49	Surface activation of MnNb <sub>2</sub> O <sub>6</sub> nanosheets by oxalic acid for enhanced photocatalysis. <i>Applied Surface Science</i> , 2017, 403, 314-325.	6.1	16
50	Preparation and characterization of titania/tetratitanate nanocomposites. <i>Solid State Sciences</i> , 2009, 11, 988-993.	3.2	15
51	Facile Synthesis of Hierarchical Hollow Mesoporous Ag/WO <sub>3</sub> Spheres with High Photocatalytic Performance. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 4117-4122.	0.9	14
52	Tribological properties of MoS <sub>2</sub> nanosheets solid lubricant planted on TiO <sub>2</sub> nanotube array bed. <i>Tribology International</i> , 2018, 125, 12-16.	5.9	14
53	High thermal stability thick wall mesoporous titania thin films. <i>Materials Letters</i> , 2009, 63, 1583-1585.	2.6	13
54	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

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55	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
56	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
57	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
58	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
59	Preparation and performance of PANI-TiO <sub>2</sub> nanotube arrays composite electrode by in-situ microcavity polymerization. <i>Materials Chemistry and Physics</i> , 2020, 240, 122179.	4.0	10
60	Characterization of TiO <sub>2</sub> nanotube arrays prepared via anodization of titanium films deposited by DC magnetron sputtering. <i>Research on Chemical Intermediates</i> , 2011, 37, 441-448.	2.7	9
61	Synthesis and characterization of TiO <sub>2</sub> nanotube film on fluorine-doped tin oxide glass. <i>Thin Solid Films</i> , 2013, 544, 276-280.	1.8	9
62	Solution-phase tailored growth of Nb <sub>3</sub> O <sub>7</sub> (OH) thin films. <i>Thin Solid Films</i> , 2013, 544, 545-550.	1.8	9
63	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
64	<p>&lt;p>&gt;Long noncoding RNA expression analysis reveals the regulatory effects of nitinol-based nanotubular coatings on human coronary artery endothelial cells</p>&lt;p>&gt;. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 3297-3309.	6.7	9
65	Study on rare earth oxide-molybdenum cermet cathode materials. <i>Journal of Alloys and Compounds</i> , 2004, 385, 288-293.	5.5	8
66	A Review on TiO <sub>2</sub> Nanotube Film Photocatalysts Prepared by Liquid-Phase Deposition. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-11.	2.5	8
67	Swift Adsorptive Removal of Congo Red from Aqueous Solution by K <sub>1.33</sub> Mn <sub>8</sub> O <sub>16</sub> Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 5452-5460.	0.9	8
68	A Novel NO <sub>2</sub> Sensor Based on TiO <sub>2</sub> Nanotubes Array with In-Situ Au Decoration. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 1177-1181.	0.9	8
69	CO <sub>2</sub> -assisted "Weathering" of Steel Slag-Derived Calcium Silicate Hydrate: A Generalized Strategy for Recycling Noble Metals and Constructing SiO <sub>2</sub> -Based Nanocomposites. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 1008-1019.	9.4	8
70	Platinum nanoclusters by atomic layer deposition on three-dimensional TiO <sub>2</sub> nanotube array for efficient hydrogen evolution. <i>Materials Today Energy</i> , 2022, 27, 101042.	4.7	8
71	A study of emission property and microstructure of rare earth oxide-molybdenum cermet cathode materials made by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2004, 379, 247-251.	5.5	7
72	In situ synthesis and characterization of TiO <sub>2</sub> nanoarray films. <i>Research on Chemical Intermediates</i> , 2010, 36, 17-26.	2.7	7

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73	Highly efficient mass determination of TiO <sub>2</sub> nanotube arrays and its application in lithium-ion batteries. Sustainable Materials and Technologies, 2018, 18, e00079.	3.3	7
74	Crystallization of WO <sub>3</sub> ·H <sub>2</sub> O nanosheets with high-adsorption capacity for methylene blue. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	7
75	Surface engineering of diatomite using nanostructured Zn compounds for adsorption and sunlight photocatalysis. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 612, 125977.	4.7	7
76	Morphology control of TiO <sub>2</sub> through hydrothermal synthesis method using protonic tetratitanate. Research on Chemical Intermediates, 2011, 37, 165-175.	2.7	6
77	Fabrication and photocatalytic activity of TiO <sub>2</sub> /SiO <sub>2</sub> composite nanotubes. Research on Chemical Intermediates, 2011, 37, 541-549.	2.7	6
78	Studies on the TiO <sub>2</sub> modified microchannels for microfluidic applications. Materials Letters, 2012, 89, 247-250.	2.6	6
79	Synergetic catalytic properties of gold nanoparticles planted on transparent titanium dioxide nanotube array bed. Materials Chemistry and Physics, 2018, 217, 437-444.	4.0	6
80	Visible-light responsive Cr(VI) reduction by carbonyl modification Nb <sub>3</sub> O <sub>7</sub> (OH) nanoaggregates. Journal of Materials Science, 2018, 53, 12065-12078.	3.7	6
81	Top-down chemical etching to complex Ag microstructures. CrystEngComm, 2012, 14, 4335.	2.6	5
82	Preparation, Characterization, and Photocatalytic Activity of Mesoporous TiO <sub>2</sub> Thin Films. Journal of Nanoscience and Nanotechnology, 2013, 13, 1493-1497.	0.9	5
83	Platinum nano-flowers with controlled facet planted in titanium dioxide nanotube arrays bed and their high electro-catalytic activity. Sustainable Materials and Technologies, 2019, 20, e00093.	3.3	5
84	Investigations of the nickel promotional effect on the reduction and sintering of tungsten compounds. International Journal of Refractory Metals and Hard Materials, 2019, 78, 296-302.	3.8	5
85	Tribological properties of MoS <sub>2</sub> nano-flowers supported by porous alumina aperture array. Tribology International, 2021, 161, 107093.	5.9	5
86	Controlled Synthesis of Magnesium Oxide Nanoparticles for Dye Adsorption. Journal of Nanoelectronics and Optoelectronics, 2017, 12, 512-517.	0.5	5
87	Low Temperature Heat Treatment of Anodic TiO <sub>2</sub> Nanotube Array Thin Film and Their Photo-Electrochemical Properties. Nanoscience and Nanotechnology Letters, 2012, 4, 564-568.	0.4	4
88	Rare Earth - Activated Y <sub>2</sub> O <sub>3</sub> Phosphors with Novel Morphology for Dye-Sensitized Solar Cells. ChemistrySelect, 2016, 1, 1136-1139.	1.5	4
89	New insights into the accelerated sintering of tungsten with trace nickel addition. International Journal of Refractory Metals and Hard Materials, 2020, 87, 105139.	3.8	4
90	High Current Density Scandia Doped Pressed Cathode and Shaped Beam Generation. , 2007, , .		3

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91	Scandia doped tungsten matrix for impregnated cathode. Rare Metals, 2008, 27, 9-12.	7.1	3
92	Formation Process of TiO <sub>2</sub> Nanotube Arrays Prepared by Anodic Oxidation Method. Journal of Nanoscience and Nanotechnology, 2013, 13, 4110-4116.	0.9	3
93	Refining waste hardmetals into tungsten oxide nanosheets via facile method. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	3
94	Preliminary Investigation of Solution Diffusive Behavior on V-Doped TiO <sub>2</sub> Nanotubes Array by Electrochemical Impedance Spectroscopy. Journal of Nanoscience and Nanotechnology, 2013, 13, 954-958.	0.9	2
95	Electrochemical Properties of Nickel Oxide Nanofibers Fabricated by Electrospinning and Annealing. Journal of Nanoscience and Nanotechnology, 2016, 16, 7273-7277.	0.9	1
96	Measurement of SnO <sub>2</sub> Nanoparticles Coating on Titanium Dioxide Nanotube Arrays Using Grazing-Incidence X-Ray Diffraction. Minerals, Metals and Materials Series, 2019, , 703-711.	0.4	1
97	Designed Titanium Dioxide One Dimensional Net Structure: Reusable Adsorbent for Removing Pollutant. Nanoscience and Nanotechnology Letters, 2014, 6, 892-897.	0.4	1
98	Unraveling structure evolution failure mechanism in MoS <sub>2</sub> anode for improving lithium storage stability. Journal of Materials Science and Technology, 2022, 128, 245-253.	10.7	1
99	Effect of TiO <sub>2</sub> Nanotube Arrays Morphology/Structure on Photocatalytic Hydrogen Production. Journal of Nanoscience and Nanotechnology, 2020, 20, 852-857.	0.9	0
100	Optimizing Stem Cell Functions and Antibacterial Properties of TiO <sub>2</sub> Nanotubes Incorporated with ZnO Nanoparticles: Experiments and Modeling [Retraction]. International Journal of Nanomedicine, 2022, Volume 17, 463-464.	6.7	0