

Yichuan Ling

List of Publications by Year in descending order

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51
papers

14,210
citations

57631

44
h-index

174990

52
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all docs

53
docs citations

53
times ranked

17432
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen-Treated TiO ₂ Nanowire Arrays for Photoelectrochemical Water Splitting. Nano Letters, 2011, 11, 3026-3033.	4.5	2,344
2	Sn-Doped Hematite Nanostructures for Photoelectrochemical Water Splitting. Nano Letters, 2011, 11, 2119-2125.	4.5	994
3	H ₂ TiO ₂ @MnO ₂ //H ₂ TiO ₂ @C Core-Shell Nanowires for High Performance and Flexible Asymmetric Supercapacitors. Advanced Materials, 2013, 25, 267-272.	11.1	894
4	Au Nanostructure-Decorated TiO ₂ Nanowires Exhibiting Photoactivity Across Entire UV-visible Region for Photoelectrochemical Water Splitting. Nano Letters, 2013, 13, 3817-3823.	4.5	812
5	Hydrogen-treated WO ₃ nanoflakes show enhanced photostability. Energy and Environmental Science, 2012, 5, 6180.	15.6	666
6	Solid-State Supercapacitor Based on Activated Carbon Cloths Exhibits Excellent Rate Capability. Advanced Materials, 2014, 26, 2676-2682.	11.1	660
7	Stabilized TiN Nanowire Arrays for High-Performance and Flexible Supercapacitors. Nano Letters, 2012, 12, 5376-5381.	4.5	627
8	Facile Synthesis of Highly Photoactive Fe ₂ O ₃ -Based Films for Water Oxidation. Nano Letters, 2011, 11, 3503-3509.	4.5	623
9	Nanostructured hematite: synthesis, characterization, charge carrier dynamics, and photoelectrochemical properties. Energy and Environmental Science, 2012, 5, 6682.	15.6	492
10	Bright Light-Emitting Diodes Based on Organometal Halide Perovskite Nanoplatelets. Advanced Materials, 2016, 28, 305-311.	11.1	463
11	The Influence of Oxygen Content on the Thermal Activation of Hematite Nanowires. Angewandte Chemie - International Edition, 2012, 51, 4074-4079.	7.2	349
12	Oxygen-deficient metal oxide nanostructures for photoelectrochemical water oxidation and other applications. Nanoscale, 2012, 4, 6682.	2.8	345
13	Enhanced Optical and Electrical Properties of Polymer-Assisted All-Inorganic Perovskites for Light-Emitting Diodes. Advanced Materials, 2016, 28, 8983-8989.	11.1	326
14	LiCl/PVA Gel Electrolyte Stabilizes Vanadium Oxide Nanowire Electrodes for Pseudocapacitors. ACS Nano, 2012, 6, 10296-10302.	7.3	310
15	A New Benchmark Capacitance for Supercapacitor Anodes by Mixed-Valence Sulfur-Doped V ₆ O ₁₃ . Advanced Materials, 2014, 26, 5869-5875.	11.1	305
16	Fully Printed Halide Perovskite Light-Emitting Diodes with Silver Nanowire Electrodes. ACS Nano, 2016, 10, 1795-1801.	7.3	261
17	High energy density asymmetric supercapacitors with a nickel oxide nanoflake cathode and a 3D reduced graphene oxide anode. Nanoscale, 2013, 5, 7984.	2.8	253
18	Free-standing nickel oxide nanoflake arrays: synthesis and application for highly sensitive non-enzymatic glucose sensors. Nanoscale, 2012, 4, 3123.	2.8	228

#	ARTICLE	IF	CITATIONS
19	Computational and Photoelectrochemical Study of Hydrogenated Bismuth Vanadate. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10957-10964.	1.5	222
20	Improving the Cycling Stability of Metal-Nitride Supercapacitor Electrodes with a Thin Carbon Shell. <i>Advanced Energy Materials</i> , 2014, 4, 1300994.	10.2	217
21	Morphology and Doping Engineering of Sn-Doped Hematite Nanowire Photoanodes. <i>Nano Letters</i> , 2017, 17, 2490-2495.	4.5	204
22	Highly Efficient Spectrally Stable Red Perovskite Light-Emitting Diodes. <i>Advanced Materials</i> , 2018, 30, e1707093.	11.1	184
23	A mechanistic study into the catalytic effect of Ni(OH) ₂ on hematite for photoelectrochemical water oxidation. <i>Nanoscale</i> , 2013, 5, 4129.	2.8	169
24	Solar driven hydrogen releasing from urea and human urine. <i>Energy and Environmental Science</i> , 2012, 5, 8215.	15.6	160
25	Chemically modified nanostructures for photoelectrochemical water splitting. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2014, 19, 35-51.	5.6	156
26	Suppressed phase separation of mixed-halide perovskites confined in endotaxial matrices. <i>Nature Communications</i> , 2019, 10, 695.	5.8	156
27	Acid Treatment Enables Suppression of Electron-Hole Recombination in Hematite for Photoelectrochemical Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3403-3407.	7.2	132
28	Photoenhanced Electrochemical Interaction between <i>Shewanella</i> and a Hematite Nanowire Photoanode. <i>Nano Letters</i> , 2014, 14, 3688-3693.	4.5	121
29	An electrochemical method to enhance the performance of metal oxides for photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2849-2855.	5.2	114
30	Photoelectrochemical study of oxygen deficient TiO ₂ nanowire arrays with CdS quantum dot sensitization. <i>Nanoscale</i> , 2012, 4, 1463.	2.8	110
31	Composite Perovskites of Cesium Lead Bromide for Optimized Photoluminescence. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3266-3271.	2.1	108
32	Role of Hydrogen in Defining the n-Type Character of BiVO ₄ Photoanodes. <i>Chemistry of Materials</i> , 2016, 28, 5761-5771.	3.2	104
33	Enhanced capacitance in partially exfoliated multi-walled carbon nanotubes. <i>Journal of Power Sources</i> , 2011, 196, 5209-5214.	4.0	102
34	Review of Sn-Doped Hematite Nanostructures for Photoelectrochemical Water Splitting. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 1113-1121.	1.2	99
35	Oxygen deficient Fe ₂ O ₃ photoelectrodes: a balance between enhanced electrical properties and trap-mediated losses. <i>Chemical Science</i> , 2015, 6, 4009-4016.	3.7	92
36	Investigation of hematite nanorod-nanoflake morphological transformation and the application of ultrathin nanoflakes for electrochemical devices. <i>Nano Energy</i> , 2015, 12, 169-177.	8.2	83

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37	Surface Passivation of TiO ₂ Nanowires Using a Facile Precursor-Treatment Approach for Photoelectrochemical Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15086-15094.	1.5	80
38	Effects of Hydrogen Treatment and Air Annealing on Ultrafast Charge Carrier Dynamics in ZnO Nanowires Under in Situ Photoelectrochemical Conditions. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17360-17368.	1.5	68
39	Low-Temperature Activation of Hematite Nanowires for Photoelectrochemical Water Oxidation. <i>ChemSusChem</i> , 2014, 7, 848-853.	3.6	67
40	Light Emitting Diodes Based on Inorganic Composite Halide Perovskites. <i>Advanced Functional Materials</i> , 2019, 29, 1807345.	7.8	65
41	Photohole Induced Corrosion of Titanium Dioxide: Mechanism and Solutions. <i>Nano Letters</i> , 2015, 15, 7051-7057.	4.5	57
42	Probing the Nature of Bandgap States in Hydrogen-Treated TiO ₂ Nanowires. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26821-26830.	1.5	54
43	Controlled Synthesis of AlN/GaN Multiple Quantum Well Nanowire Structures and Their Optical Properties. <i>Nano Letters</i> , 2012, 12, 3344-3350.	4.5	51
44	Acid Treatment Enables Suppression of Electron-Hole Recombination in Hematite for Photoelectrochemical Water Splitting. <i>Angewandte Chemie</i> , 2016, 128, 3464-3468.	1.6	27
45	Synthesis of urchin-like CdWO ₄ microspheres via a facile template free hydrothermal method. <i>CrystEngComm</i> , 2010, 12, 3019.	1.3	26
46	Dynamic Electronic Junctions in Organic-Inorganic Hybrid Perovskites. <i>Nano Letters</i> , 2017, 17, 4831-4839.	4.5	26
47	A Solution-Processed Organometal Halide Perovskite Hole Transport Layer for Highly Efficient Organic Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2016, 2, 1600165.	2.6	25
48	Growth of gallium nitride and indium nitride nanowires on conductive and flexible carbon cloth substrates. <i>Nanoscale</i> , 2013, 5, 1820.	2.8	21
49	Chemically modified titanium oxide nanostructures for dye-sensitized solar cells. <i>Nano Energy</i> , 2013, 2, 1373-1382.	8.2	21
50	The Effect of the Hydrogenation Temperature on TiO ₂ Nanostructures for Photoelectrochemical Water Oxidation. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 760-766.	1.0	21
51	Light-Emitting Diodes: Highly Efficient Spectrally Stable Red Perovskite Light-Emitting Diodes (Adv.) <i>TJ ETQq1 1 0.784314 rgBT / Overl</i>	11.1	7