RESEARCH & PUBLICATIONS

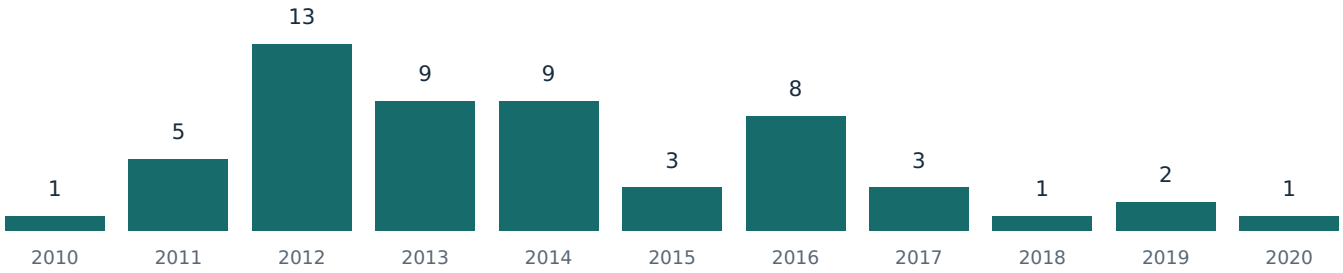
Yichuan Ling

A publication record at a glance

55	15,838	45
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles by publication year



MOST CITED IN THIS LIST

Hydrogen-Treated TiO2 Nanowire Arrays for Photoelectrochemical Water Splitting — 2,535
2011 Nano Letters

Sn-Doped Hematite Nanostructures for Photoelectrochemical Water Splitting — 1,063
2011 Nano Letters

H-TiO2@MnO2//H-TiO2@C Core–Shell Nanowires for High Performance and Flexible Asymmetric Supercapacitors — 946
2013 Advanced Materials

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Ordered by publication year, newest first

2020

01 Organometal Halide Perovskit Nanoplatelets, Devices, and Methods — 0 citations
Journal unavailable
https://exaly.com/article/225548709

2019

02 Suppressed Phase Separation of Mixed-Halide Perovskites Confined in Endotaxial Matrices — 218 citations
Nature Communications · 10, 1-7
https://exaly.com/article/73725666

03 Light Emitting Diodes Based on Inorganic Composite Halide Perovskites — 92 citations
Advanced Functional Materials · 29, 1807345
https://exaly.com/article/74754042

2018

04 Highly Efficient Spectrally Stable Red Perovskite Light-Emitting Diodes — 223 citations
Advanced Materials · 30, 1707093
https://exaly.com/article/69330897

2017

05 Morphology and Doping Engineering of Sn-Doped Hematite Nanowire Photoanodes — 229 citations
Nano Letters · 17, 2490-2495
https://exaly.com/article/66605447

06 Composite Perovskites of Cesium Lead Bromide for Optimized Photoluminescence — 127 citations
Journal of Physical Chemistry Letters · 8, 3266-3271
https://exaly.com/article/67533127

07 Dynamic Electronic Junctions in Organic–Inorganic Hybrid Perovskites — 28 citations
Nano Letters · 17, 4831-4839
https://exaly.com/article/67606388

2016

08 Bright Light-Emitting Diodes Based on Organometal Halide Perovskite Nanoplatelets — 517 citations
Advanced Materials · 28, 305-311
https://exaly.com/article/63453006

Ordered by publication year, newest first

2016 / continued

09 **Acid Treatment Enables Suppression of Electron–Hole Recombination in Hematite for Photoelectrochemical Water Splitting** — 147 citations

Angewandte Chemie - International Edition · 55, 3403-3407

https://exaly.com/article/63454033

10 **A Solution-Processed Organometal Halide Perovskite Hole Transport Layer for Highly Efficient Organic Light-Emitting Diodes** — 33 citations

Advanced Electronic Materials · 2, 1600165

https://exaly.com/article/63471222

11 **Acid Treatment Enables Suppression of Electron–Hole Recombination in Hematite for Photoelectrochemical Water Splitting** — 29 citations

Angewandte Chemie · 128, 3464-3468

https://exaly.com/article/63493742

12 **Enhanced Optical and Electrical Properties of Polymer-Assisted All-Inorganic Perovskites for Light-Emitting Diodes** — 368 citations

Advanced Materials · 28, 8983-8989

https://exaly.com/article/64509534

13 **Role of Hydrogen in Defining the n-Type Character of $BiVO_4$ Photoanodes** — 117 citations

Chemistry of Materials · 28, 5761-5771

https://exaly.com/article/64634892

14 **An Electrochemical Method to Enhance the Performance of Metal Oxides for Photoelectrochemical Water Oxidation** — 137 citations

Journal of Materials Chemistry A · 4, 2849-2855

https://exaly.com/article/65339531

15 **Fully Printed Halide Perovskite Light-Emitting Diodes With Silver Nanowire Electrodes** — 277 citations

ACS Nano · 10, 1795-801

https://exaly.com/article/65639689

2015

16 **Oxygen Deficient α-Fe_2O_3 Photoelectrodes: A Balance Between Enhanced Electrical Properties and Trap-Mediated Losses** — 103 citations

Chemical Science · 6, 4009-4016

https://exaly.com/article/62283234

17 **Photohole Induced Corrosion of Titanium Dioxide: Mechanism and Solutions** — 79 citations

Nano Letters · 15, 7051-7

https://exaly.com/article/62398484

Ordered by publication year, newest first

2015 / continued

18 **Investigation of Hematite Nanorod–Nanoflake Morphological Transformation and the Application of Ultrathin Nanoflakes for Electrochemical Devices**
Nano Energy · 12, 169-177
https://exaly.com/article/62767377
90 citations

2014

19 **Solid-State Supercapacitor Based on Activated Carbon Cloths Exhibits Excellent Rate Capability**
Advanced Materials · 26, 2676-2682
https://exaly.com/article/58811603
724 citations

20 **Chemically Modified Nanostructures for Photoelectrochemical Water Splitting**
Journal of Photochemistry and Photobiology C: Photochemistry Reviews · 19, 35-51
https://exaly.com/article/58995110
176 citations

21 **The Effect of the Hydrogenation Temperature on TiO2 Nanostructures for Photoelectrochemical Water Oxidation**
European Journal of Inorganic Chemistry · 2014, 760-766
https://exaly.com/article/59055577
22 citations

22 **Review of Sn-Doped Hematite Nanostructures for Photoelectrochemical Water Splitting**
Particle and Particle Systems Characterization · 31, 1113-1121
https://exaly.com/article/59185154
112 citations

23 **Surface Passivation of TiO2 Nanowires Using a Facile Precursor-Treatment Approach for Photoelectrochemical Water Oxidation**
Journal of Physical Chemistry C · 118, 15086-15094
https://exaly.com/article/59262194
85 citations

24 **A New Benchmark Capacitance for Supercapacitor Anodes by Mixed-Valence Sulfur-Doped V6O13−x**
Advanced Materials · 26, 5869-5875
https://exaly.com/article/59361992
321 citations

25 **Low-Temperature Activation of Hematite Nanowires for Photoelectrochemical Water Oxidation**
ChemSusChem · 7, 848-853
https://exaly.com/article/59366236
75 citations

26 **Photoenhanced Electrochemical Interaction Between Shewanella and a Hematite Nanowire Photoanode**
Nano Letters · 14, 3688-93
https://exaly.com/article/59401767
136 citations

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2014 / continued

27 **Improving the Cycling Stability of Metal–Nitride Supercapacitor Electrodes With a Thin Carbon Shell**
235 citations
Advanced Energy Materials · 4, 1300994
https://exaly.com/article/59736905

2013

28 **High Energy Density Asymmetric Supercapacitors With a Nickel Oxide Nanoflake Cathode and a 3D Reduced Graphene Oxide Anode**
276 citations
Nanoscale · 5, 7984-7990
https://exaly.com/article/54798147

29 **Au Nanostructure-Decorated TiO2 Nanowires Exhibiting Photoactivity Across Entire UV-Visible Region for Photoelectrochemical Water Splitting**
855 citations
Nano Letters · 13, 3817-23
https://exaly.com/article/54835912

30 **Growth of Gallium Nitride and Indium Nitride Nanowires on Conductive and Flexible Carbon Cloth Substrates**
23 citations
Nanoscale · 5, 1820-1824
https://exaly.com/article/54925000

31 **High Power Density Microbial Fuel Cell With Flexible 3D Graphene–Nickel Foam as Anode**
283 citations
Nanoscale · 5, 10283-10290
https://exaly.com/article/54976658

32 **Chemically Modified Titanium Oxide Nanostructures for Dye-Sensitized Solar Cells**
24 citations
Nano Energy · 2, 1373-1382
https://exaly.com/article/55126504

33 **A Mechanistic Study Into the Catalytic Effect of Ni(OH)2 on Hematite for Photoelectrochemical Water Oxidation**
185 citations
Nanoscale · 5, 4129-4133
https://exaly.com/article/55126602

34 **Probing the Nature of Bandgap States in Hydrogen-Treated TiO2 Nanowires**
56 citations
Journal of Physical Chemistry C · 117, 26821-26830
https://exaly.com/article/55605972

35 **Computational and Photoelectrochemical Study of Hydrogenated Bismuth Vanadate**
255 citations
Journal of Physical Chemistry C · 117, 10957-10964
https://exaly.com/article/55892922

Ordered by publication year, newest first

2013 / continued

36 H-TiO2@MnO2//H-TiO2@C Core–Shell Nanowires for High Performance and Flexible Asymmetric Supercapacitors — 946 citations

Advanced Materials · 25, 267-272

https://exaly.com/article/56030914

2012

37 Free-Standing Nickel Oxide Nanoflake Arrays: Synthesis and Application for Highly Sensitive Non-Enzymatic Glucose Sensors — 244 citations

Nanoscale · 4, 3123-3127

https://exaly.com/article/53096087

38 LiCl/PVA Gel Electrolyte Stabilizes Vanadium Oxide Nanowire Electrodes for Pseudocapacitors — 338 citations

ACS Nano · 6, 10296-302

https://exaly.com/article/53144121

39 Effects of Hydrogen Treatment and Air Annealing on Ultrafast Charge Carrier Dynamics in ZnO Nanowires Under in Situ Photoelectrochemical Conditions — 70 citations

Journal of Physical Chemistry C · 116, 17360-17368

https://exaly.com/article/53473300

40 Stabilized TiN Nanowire Arrays for High-Performance and Flexible Supercapacitors — 668 citations

Nano Letters · 12, 5376-81

https://exaly.com/article/53563031

41 Photoelectrochemical Study of Oxygen Deficient TiO2 Nanowire Arrays With CdS Quantum Dot Sensitization — 111 citations

Nanoscale · 4, 1463-1466

https://exaly.com/article/53771683

42 Oxygen-Deficient Metal Oxide Nanostructures for Photoelectrochemical Water Oxidation and Other Applications — 374 citations

Nanoscale · 4, 6682-6691

https://exaly.com/article/53771687

43 Hydrogen-Treated WO3 Nanoflakes Show Enhanced Photostability — 760 citations

Energy and Environmental Science · 5, 6180-6187

https://exaly.com/article/53909025

44 Solar Driven Hydrogen Releasing From Urea and Human Urine — 184 citations

Energy and Environmental Science · 5, 8215-8219

https://exaly.com/article/53967707

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2012 / continued

45 **Controlled Synthesis of AlN/GaN Multiple Quantum Well Nanowire Structures and Their Optical Properties** — 55 citations
Nano Letters · 12, 3344-50
https://exaly.com/article/53997171

46 **Nanostructured Hematite: Synthesis, Characterization, Charge Carrier Dynamics, and Photoelectrochemical Properties** — 533 citations
Energy and Environmental Science · 5, 6682-6702
https://exaly.com/article/54346518

47 **The Influence of Oxygen Content on the Thermal Activation of Hematite Nanowires** — 114 citations
Angewandte Chemie · 124, 4150-4155
https://exaly.com/article/54357421

48 **The Influence of Oxygen Content on the Thermal Activation of Hematite Nanowires** — 394 citations
Angewandte Chemie - International Edition · 51, 4074-4079
https://exaly.com/article/54358979

49 **Optical Properties and Applications of Hematite (α-Fe2O3) Nanostructures** — 6 citations
Journal unavailable
https://exaly.com/article/55890161

2011

50 **Sn-Doped Hematite Nanostructures for Photoelectrochemical Water Splitting** — 1,063 citations
Nano Letters · 11, 2119-25
https://exaly.com/article/50201453

51 **Hydrogen-Treated TiO2 Nanowire Arrays for Photoelectrochemical Water Splitting** — 2,535 citations
Nano Letters · 11, 3026-33
https://exaly.com/article/50216951

52 **Facile Synthesis of Highly Photoactive α-Fe2O3-Based Films for Water Oxidation** — 653 citations
Nano Letters · 11, 3503-9
https://exaly.com/article/51246197

53 **Enhanced Capacitance in Partially Exfoliated Multi-Walled Carbon Nanotubes** — 103 citations
Journal of Power Sources · 196, 5209-5214
https://exaly.com/article/51362369

54 **Ultrafast Charge Carrier Dynamics and Photoelectrochemical Properties of ZnO Nanowires Decorated With Au Nanoparticles** — 2 citations
Proceedings of SPIE · 8109, 98-107
https://exaly.com/article/51874578

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2010

55 **Synthesis of Urchin-Like CdWO4 Microspheres via a Facile Template Free Hydrothermal Method**

28 citations

CrystEngComm · 12, 3019-3026

https://exaly.com/article/49724540

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