

# Hong Li

## List of Publications by Citations

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78  
papers

12,317  
citations

31  
h-index

92  
g-index

92  
ext. papers

14,067  
ext. citations

9.3  
avg, IF

6.26  
L-index

#	Paper	IF	Citations
78	From Bulk to Monolayer MoS <sub>2</sub> : Evolution of Raman Scattering. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 1385-1390	15.6	2710
77	Single-layer MoS <sub>2</sub> phototransistors. <i>ACS Nano</i> , <b>2012</b> , 6, 74-80	16.7	2704
76	Activating and optimizing MoS <sub>2</sub> basal planes for hydrogen evolution through the formation of strained sulphur vacancies. <i>Nature Materials</i> , <b>2016</b> , 15, 48-53	27	1563
75	Fabrication of single- and multilayer MoS <sub>2</sub> film-based field-effect transistors for sensing NO at room temperature. <i>Small</i> , <b>2012</b> , 8, 63-7	11	1213
74	Electrochemical generation of sulfur vacancies in the basal plane of MoS for hydrogen evolution. <i>Nature Communications</i> , <b>2017</b> , 8, 15113	17.4	396
73	Carbon Nanomaterials for Next-Generation Interconnects and Passives: Physics, Status, and Prospects. <i>IEEE Transactions on Electron Devices</i> , <b>2009</b> , 56, 1799-1821	2.9	297
72	Optical identification of single- and few-layer MoS <sub>2</sub> sheets. <i>Small</i> , <b>2012</b> , 8, 682-6	11	249
71	Enhancing Electrocatalytic Water Splitting by Strain Engineering. <i>Advanced Materials</i> , <b>2019</b> , 31, e18070014	14	240
70	Optoelectronic crystal of artificial atoms in strain-textured molybdenum disulphide. <i>Nature Communications</i> , <b>2015</b> , 6, 7381	17.4	237
69	Kinetic Study of Hydrogen Evolution Reaction over Strained MoS <sub>2</sub> with Sulfur Vacancies Using Scanning Electrochemical Microscopy. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 5123-9	16.4	198
68	Mixed low-dimensional nanomaterial: 2D ultranarrow MoS <sub>2</sub> inorganic nanoribbons encapsulated in quasi-1D carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 13840-7	16.4	188
67	Layer thinning and etching of mechanically exfoliated MoS <sub>2</sub> nanosheets by thermal annealing in air. <i>Small</i> , <b>2013</b> , 9, 3314-9	11	179
66	Fabrication of graphene nanomesh by using an anodic aluminum oxide membrane as a template. <i>Advanced Materials</i> , <b>2012</b> , 24, 4138-42	24	169
65	Enhancing Catalytic CO Oxidation over Co <sub>3</sub> O <sub>4</sub> Nanowires by Substituting Co <sup>2+</sup> with Cu <sup>2+</sup> . <i>ACS Catalysis</i> , <b>2015</b> , 5, 4485-4491	13.1	139
64	Spin-orbit splitting in single-layer MoS <sub>2</sub> revealed by triply resonant Raman scattering. <i>Physical Review Letters</i> , <b>2013</b> , 111, 126801	7.4	117
63	Postchemistry of organic particles: when TTF microparticles meet TCNQ microstructures in aqueous solution. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 6926-8	16.4	113
62	A binder-free CNT network-MoS <sub>2</sub> composite as a high performance anode material in lithium ion batteries. <i>Chemical Communications</i> , <b>2014</b> , 50, 3338-40	5.8	102

61	Catalytic Polysulfide Conversion and Physiochemical Confinement for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1904010	21.8	94
60	Chemical reaction between Ag nanoparticles and TCNQ microparticles in aqueous solution. <i>Small</i> , <b>2011</b> , 7, 1242-6	11	89
59	Rapid Flame Synthesis of Atomically Thin MoO down to Monolayer Thickness for Effective Hole Doping of WSe. <i>Nano Letters</i> , <b>2017</b> , 17, 3854-3861	11.5	84
58	One-Step Hydrothermal Deposition of Ni:FeOOH onto Photoanodes for Enhanced Water Oxidation. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 624-632	20.1	84
57	Layered MoS <sub>2</sub> Hollow Spheres for Highly-Efficient Photothermal Therapy of Rabbit Liver Orthotopic Transplantation Tumors. <i>Small</i> , <b>2016</b> , 12, 2046-55	11	77
56	A systematic study of the atmospheric pressure growth of large-area hexagonal crystalline boron nitride film. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 1650	7.1	60
55	Ambipolar to unipolar conversion in graphene field-effect transistors. <i>ACS Nano</i> , <b>2011</b> , 5, 3198-203	16.7	55
54	All-solid-state flexible zinc-air battery with polyacrylamide alkaline gel electrolyte. <i>Journal of Power Sources</i> , <b>2020</b> , 450, 227653	8.9	55
53	High-Performance Ultrathin BiVO <sub>4</sub> Photoanode on Textured Polydimethylsiloxane Substrates for Solar Water Splitting. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 68-75	20.1	55
52	Stabilizing Silicon Photocathodes by Solution-Deposited NiFe Layered Double Hydroxide for Efficient Hydrogen Evolution in Alkaline Media. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1939-1946	20.1	50
51	Rambutan-like hollow carbon spheres decorated with vacancy-rich nickel oxide for energy conversion and storage <b>2020</b> , 2, 122-130		50
50	Design and synthesis of two-dimensional covalent organic frameworks with four-arm cores: prediction of remarkable ambipolar charge-transport properties. <i>Materials Horizons</i> , <b>2019</b> , 6, 1868-1876	14.4	41
49	Core-shell CNT/NiSi nanowires as a high performance anode material for lithium ion batteries. <i>Carbon</i> , <b>2013</b> , 63, 54-60	10.4	38
48	Unique carbon-nanotube field-effect transistors with asymmetric source and drain contacts. <i>Nano Letters</i> , <b>2008</b> , 8, 64-8	11.5	31
47	Family-Dependent Rectification Characteristics in Ultra-Short Graphene Nanoribbon p-n Junctions. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 8547-8554	3.8	27
46	Complementary logic gate arrays based on carbon nanotube network transistors. <i>Small</i> , <b>2013</b> , 9, 813-9	11	24
45	Carbon-nanotube-based single-electron/hole transistors. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 013508	3.4	23
44	Raw biomass electroreforming coupled to green hydrogen generation. <i>Nature Communications</i> , <b>2021</b> , 12, 2008	17.4	23

43	Beyond imaging: Applications of atomic force microscopy for the study of Lithium-ion batteries. <i>Ultramicroscopy</i> , <b>2019</b> , 204, 34-48	3.1	20
42	Solar-Driven Alkaline Water Electrolysis with Multifunctional Catalysts. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002138	15.6	19
41	Influence of Triton X-100 on the characteristics of carbon nanotube field-effect transistors. <i>Nanotechnology</i> , <b>2006</b> , 17, 668-673	3.4	19
40	Functionalized MXene Enabled Sustainable Water Harvesting and Desalination. <i>Advanced Sustainable Systems</i> , <b>2020</b> , 4, 2000102	5.9	18
39	Carbon nanotube bumps for the flip chip packaging system. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 105	5	17
38	Rational design of stable sulfur vacancies in molybdenum disulfide for hydrogen evolution. <i>Journal of Catalysis</i> , <b>2020</b> , 382, 320-328	7.3	15
37	Physical device modeling of carbon nanotube/GaAs photovoltaic cells. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 043501	3.4	15
36	Compressive Strain in Core-Shell Au-Pd Nanoparticles Introduced by Lateral Confinement of Deformation Twinning to Enhance the Oxidation Reduction Reaction Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 46902-46911	9.5	15
35	Morphology controlling of silver by plasma engineering for electrocatalytic carbon dioxide reduction. <i>Journal of Power Sources</i> , <b>2020</b> , 453, 227846	8.9	14
34	Ultrastable molybdenum disulfide-based electrocatalyst for hydrogen evolution in acidic media. <i>Journal of Power Sources</i> , <b>2020</b> , 456, 227998	8.9	13
33	Nanoscale contacts between carbon nanotubes and metallic pads. <i>ACS Nano</i> , <b>2009</b> , 3, 4117-21	16.7	13
32	Interface covalent bonding endowing high-sulfur-loading paper cathode with robustness for energy-dense, compact and foldable lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 412, 128562	14.7	13
31	Vertical [email-protected] Chloride CoreShell Nanowire Array for Carbon Dioxide Electroreduction. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 6163-6169	6.1	12
30	Current instability of carbon nanotube field effect transistors. <i>Nanotechnology</i> , <b>2007</b> , 18, 424035	3.4	11
29	Cold plasma treatment of catalytic materials: A review. <i>Journal Physics D: Applied Physics</i> ,	3	11
28	Manganese dioxides for oxygen electrocatalysis in energy conversion and storage systems over full pH range. <i>Journal of Power Sources</i> , <b>2021</b> , 494, 229779	8.9	11
27	Solar-driven hydrogen generation coupled with urea electrolysis by an oxygen vacancy-rich catalyst. <i>Chemical Engineering Journal</i> , <b>2021</b> , 414, 128753	14.7	11
26	Novel C fibers@MoS <sub>2</sub> nanoplates core-shell composite for efficient solar-driven photocatalytic degradation of Cr(VI) and RhB. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 753, 378-387	5.7	9

25	Negative rectification and negative differential resistance in nanoscale single-walled carbon nanotube p-n junctions. <i>Theoretical Chemistry Accounts</i> , <b>2011</b> , 130, 353-359	1.9	9
24	One-dimensional metal-organic nanowires-derived catalyst of carbon nanobamboos with encapsulated cobalt nanoparticles for oxygen reduction. <i>Journal of Catalysis</i> , <b>2021</b> , 394, 366-375	7.3	8
23	Photocatalytic Degradation of Plastic Waste: A Mini Review. <i>Micromachines</i> , <b>2021</b> , 12,	3.3	8
22	Porous silver microrods by plasma vulcanization activation for enhanced electrocatalytic carbon dioxide reduction. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 606, 793-799	9.3	8
21	Self-aligned sub-10-nm nanogap electrode array for large-scale integration. <i>Small</i> , <b>2011</b> , 7, 2195-200	11	7
20	Impact of the CNT growth process on gold metallization dedicated to RF interconnect applications. <i>International Journal of Microwave and Wireless Technologies</i> , <b>2010</b> , 2, 463-469	0.8	7
19	Tunable ambipolar Coulomb blockade characteristics in carbon nanotubes-gated carbon nanotube field-effect transistors. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 022101	3.4	7
18	Global and local charge trapping in carbon nanotube field-effect transistors. <i>Nanotechnology</i> , <b>2008</b> , 19, 175203	3.4	7
17	Surface group-modified MXene nano-flake doping of monolayer tungsten disulfides. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 4783-4789	5.1	7
16	Interpretation of Coulomb oscillations in carbon-nanotube-based field-effect transistors. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	6
15	Identifying the mechanisms of p-to-n conversion in unipolar graphene field-effect transistors. <i>Nanotechnology</i> , <b>2013</b> , 24, 195202	3.4	5
14	Rapid fabrication of complex nanostructures using room-temperature ultrasonic nanoimprinting. <i>Nature Communications</i> , <b>2021</b> , 12, 3146	17.4	5
13	Molybdenum disulfide catalyzed tungsten oxide for on-chip acetone sensing. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 133103	3.4	5
12	Mechanistic Investigation of Electrostatic Field-Enhanced Water Evaporation. <i>Advanced Science</i> , <b>2021</b> , 8, e2100875	13.6	5
11	Switchable Surface Coating for Bifunctional Passive Radiative Cooling and Solar Heating. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 203582	15.6	5
10	Fabrication and characterization of carbon nanotube intermolecular p-n junctions. <i>Solid-State Electronics</i> , <b>2012</b> , 77, 46-50	1.7	3
9	Carbon nanotube field-effect transistors functionalized with self-assembly gold nanocrystals. <i>Nanotechnology</i> , <b>2010</b> , 21, 095202	3.4	3
8	Theoretical study of the performance for short channel carbon nanotube transistors with asymmetric contacts. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2008</b> , 372, 6940-6943	2.3	3

7	Synthesis and Characterization of Highly Twisted and Bulky Tetraoctyloxybiphenyl-Containing Polyfluorene Copolymers: Toward Efficient Blue Polymer Light Emitting Diodes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 3810-3814	1.3	3
6	Charge-Trapping Effects Caused by Ammonia in Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 335-338	1.3	3
5	Pseudo-magnetic field-induced slow carrier dynamics in periodically strained graphene. <i>Nature Communications</i> , <b>2021</b> , 12, 5087	17.4	3
4	In Situ Growth and Activation of Ag/Ag <sub>2</sub> S Nanowire Clusters by H <sub>2</sub> S Plasma Treatment for Promoted Electrocatalytic CO <sub>2</sub> Reduction. <i>Advanced Sustainable Systems</i> , 2100256	5.9	3
3	Carbon-nanotube-based RF components with multiple applications <b>2013</b> ,		1
2	CHARGE STORAGE IN CARBON NANOTUBE FIELD-EFFECT TRANSISTORS. <i>International Journal of Nanoscience</i> , <b>2006</b> , 05, 553-557	0.6	1
1	Sub-ambient radiative cooling under tropical climate using highly reflective polymeric coating. <i>Solar Energy Materials and Solar Cells</i> , <b>2022</b> , 240, 111723	6.4	1