

# Chun-Wei Huang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

2,101

citations

24

h-index

44

g-index

67

ext. papers

2,399

ext. citations

9.3

avg, IF

4.72

L-index

#	Paper	IF	Citations
66	Observing Resistive Switching Behaviors in Single Ta <sub>2</sub> O <sub>5</sub> Nanotube-Based Memristive Devices. <i>Materials Today Nano</i> , <b>2022</b> , 100212	9.7	
65	Atomic-scale investigation of Lithiation/Delithiation mechanism in High-entropy spinel oxide with superior electrochemical performance. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 129838	14.7	13
64	Atomic-Scale Localized Thinning and Reconstruction of Two-Dimensional WS <sub>2</sub> Layers through In Situ Transmission Electron Microscopy/Scanning Transmission Electron Microscopy. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 14935-14940	3.8	8
63	Observing topotactic phase transformation and resistive switching behaviors in low power SrCoO <sub>x</sub> memristor. <i>Nano Energy</i> , <b>2020</b> , 72, 104683	17.1	19
62	Dynamic observation on the functional metal oxide conversion behaviors in Fe <sub>3</sub> O <sub>4</sub> /ZnO heterostructures. <i>Scripta Materialia</i> , <b>2020</b> , 177, 192-197	5.6	5
61	In situ TEM investigation of electron beam-induced ultrafast chemical lithiation for charging. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 648-655	13	6
60	Atomic-Scale Fabrication of In-Plane Heterojunctions of Few-Layer MoS <sub>2</sub> via In Situ Scanning Transmission Electron Microscopy. <i>Small</i> , <b>2020</b> , 16, e1905516	11	18
59	Electron Beam Irradiation-Induced Deoxidation and Atomic Flattening on the Copper Surface. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 40909-40915	9.5	6
58	Unique amorphization-mediated growth to form heterostructured silicide nanowires by solid-state reactions. <i>Materials and Design</i> , <b>2019</b> , 169, 107674	8.1	2
57	The Linearly Temperature-Dependent Thermal Conductivity Across the Transition Temperature of Polycrystalline YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6.9</sub> . <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2019</b> , 32, 2289-2293	1.5	0
56	Synthesis and thermoelectric properties of indium telluride nanowires. <i>Materials Research Bulletin</i> , <b>2019</b> , 112, 61-65	5.1	4
55	Solid-State Diffusional Behaviors of Functional Metal Oxides at Atomic Scale. <i>Small</i> , <b>2018</b> , 14, 1702877	11	4
54	In Situ Investigation of Defect-Free Copper Nanowire Growth. <i>Nano Letters</i> , <b>2018</b> , 18, 778-784	11.5	11
53	Observing phase transformation in CVD-grown MoS <sub>2</sub> via atomic resolution TEM. <i>Chemical Communications</i> , <b>2018</b> , 54, 9941-9944	5.8	9
52	Flexible Heteroepitaxy Photoelectrode for Photo-electrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 3900-3907	6.1	15
51	Transparent Antiradiative Ferroelectric Heterostructure Based on Flexible Oxide Heteroepitaxy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 30574-30580	9.5	19
50	Observing Solid-State Formation of Oriented Porous Functional Oxide Nanowire Heterostructures by in Situ TEM. <i>Nano Letters</i> , <b>2018</b> , 18, 6064-6070	11.5	7

49	Electron-beam-induced phase transition in the transmission electron microscope: the case of VO <sub>2</sub> (B). <i>CrystEngComm</i> , <b>2018</b> , 20, 6857-6860	3.3	4
48	Observation of Resistive Switching Behavior in Crossbar Core-Shell Ni/NiO Nanowires Memristor. <i>Small</i> , <b>2018</b> , 14, 1703153	11	40
47	In-situ TEM observation of Multilevel Storage Behavior in low power FeRAM device. <i>Nano Energy</i> , <b>2017</b> , 34, 103-110	17.1	29
46	Direct Observation of Dual-Filament Switching Behaviors in Ta O <sub>2</sub> -Based Memristors. <i>Small</i> , <b>2017</b> , 13, 1603116	11	56
45	Flexible ferroelectric element based on van der Waals heteroepitaxy. <i>Science Advances</i> , <b>2017</b> , 3, e1700121	14.3	130
44	Dynamic observation of reversible lithium storage phenomena in hybrid supercapacitor devices. <i>Nano Energy</i> , <b>2017</b> , 41, 494-500	17.1	14
43	In Situ TEM Investigation of the Electrochemical Behavior in CNTs/MnO <sub>2</sub> -Based Energy Storage Devices. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 9671-9675	7.8	6
42	Carbon Nanotube/Nitrogen-Doped Reduced Graphene Oxide Nanocomposites and Their Application in Supercapacitors. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 5366-5373	1.3	9
41	Observing the evolution of graphene layers at high current density. <i>Nano Research</i> , <b>2016</b> , 9, 3663-3670	10	16
40	High Mobility MoS <sub>2</sub> Transistor with Low Schottky Barrier Contact by Using Atomic Thick h-BN as a Tunneling Layer. <i>Advanced Materials</i> , <b>2016</b> , 28, 8302-8308	24	282
39	Oxide Heteroepitaxy for Flexible Optoelectronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 32401-32407	1.3	62
38	Observing Growth of Nanostructured ZnO in Liquid. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 4507-4511	9.6	25
37	Probing the electrochemical properties of an electrophoretically deposited Co <sub>3</sub> O <sub>4</sub> /rGO/CNTs nanocomposite for supercapacitor applications. <i>RSC Advances</i> , <b>2016</b> , 6, 60578-60586	3.7	25
36	Optimization of the nanotwin-induced zigzag surface of copper by electromigration. <i>Nanoscale</i> , <b>2016</b> , 8, 2584-8	7.7	9
35	Rational Design of ZnO:H/ZnO Bilayer Structure for High-Performance Thin-Film Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 7862-8	9.5	61
34	Nickel/Platinum Dual Silicide Axial Nanowire Heterostructures with Excellent Photosensor Applications. <i>Nano Letters</i> , <b>2016</b> , 16, 1086-91	11.5	14
33	Mass transport phenomena in copper nanowires at high current density. <i>Nano Research</i> , <b>2016</b> , 9, 1071-1078	10.7	10
32	Dielectric Engineering of a Boron Nitride/Hafnium Oxide Heterostructure for High-Performance 2D Field Effect Transistors. <i>Advanced Materials</i> , <b>2016</b> , 28, 2062-9	24	48

31	Synthesis of single-crystalline Ge <sub>1</sub> Sb <sub>2</sub> Te <sub>4</sub> nanoplates in solution phase. <i>CrystEngComm</i> , <b>2016</b> , 18, 2244-2246	3.4	1
30	Phosphorus-Doped p-n Homojunction ZnO Nanowires: Growth Kinetics in Liquid and Their Optoelectronic Properties. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 4216-4221	9.6	23
29	Self-formed conductive nanofilaments in (Bi, Mn)O for ultralow-power memory devices. <i>Nano Energy</i> , <b>2015</b> , 13, 283-290	17.1	14
28	Direct Observation of Sublimation Behaviors in One-Dimensional In <sub>2</sub> Se <sub>3</sub> /In <sub>2</sub> O <sub>3</sub> Nanoheterostructures. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 5584-8	7.8	9
27	Single-crystalline CuO nanowires for resistive random access memory applications. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 173103	3.4	15
26	Atomic Visualization of the Phase Transition in Highly Strained BiFeO <sub>3</sub> Thin Films with Excellent Pyroelectric Response. <i>Nano Energy</i> , <b>2015</b> , 17, 72-81	17.1	17
25	Dynamic observation on the growth behaviors in manganese silicide/silicon nanowire heterostructures. <i>Nanoscale</i> , <b>2015</b> , 7, 1776-81	7.7	8
24	Switching Kinetic of VCM-Based Memristor: Evolution and Positioning of Nanofilament. <i>Advanced Materials</i> , <b>2015</b> , 27, 5028-33	24	129
23	Low Interface Trap Densities and Enhanced Performance of AlGaIn/GaN MOS High-Electron Mobility Transistors Using Thermal Oxidized Y <sub>2</sub> O <sub>3</sub> Interlayer. <i>IEEE Electron Device Letters</i> , <b>2015</b> , 36, 1284-1286	4.4	13
22	The different roles of contact materials between oxidation interlayer and doping effect for high performance ZnO thin film transistors. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 051607	3.4	19
21	Shape control of nickel silicide nanocrystals on stress-modified surface. <i>CrystEngComm</i> , <b>2014</b> , 16, 1611	3.3	4
20	Revealing controllable nanowire transformation through cationic exchange for RRAM application. <i>Nano Letters</i> , <b>2014</b> , 14, 2759-63	11.5	39
19	Real time observation of the formation of hollow nanostructures through solid state reactions. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 4348-53	7.8	6
18	Excellent piezoelectric and electrical properties of lithium-doped ZnO nanowires for nanogenerator applications. <i>Nano Energy</i> , <b>2014</b> , 8, 291-296	17.1	41
17	Optoelectronic Properties of Single-Crystalline Zn <sub>2</sub> GeO <sub>4</sub> Nanowires. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 8194-8199	3.8	24
16	Dynamic observation of phase transformation behaviors in indium(III) selenide nanowire based phase change memory. <i>ACS Nano</i> , <b>2014</b> , 8, 9457-62	16.7	35
15	Opto-electrical properties of Sb-doped p-type ZnO nanowires. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 111909	3.4	24
14	Dynamic evolution of conducting nanofilament in resistive switching memories. <i>Nano Letters</i> , <b>2013</b> , 13, 3671-7	11.5	266

13	Single-crystalline Ni <sub>2</sub> Si nanowires with excellent physical properties. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 290	5	20
12	In situ TEM and energy dispersion spectrometer analysis of chemical composition change in ZnO nanowire resistive memories. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 3955-60	7.8	38
11	Phase transformation and thermoelectric properties of bismuth-telluride nanowires. <i>Nanoscale</i> , <b>2013</b> , 5, 4669-72	7.7	54
10	Copper silicide/silicon nanowire heterostructures: in situ TEM observation of growth behaviors and electron transport properties. <i>Nanoscale</i> , <b>2013</b> , 5, 5086-92	7.7	31
9	Single-crystalline Ge nanowires and Cu <sub>3</sub> Ge/Ge nano-heterostructures. <i>CrystEngComm</i> , <b>2012</b> , 14, 4570	3.3	10
8	Direct observation of melting behaviors at the nanoscale under electron beam and heat to form hollow nanostructures. <i>Nanoscale</i> , <b>2012</b> , 4, 4702-6	7.7	25
7	Well-aligned ZnO nanowires with excellent field emission and photocatalytic properties. <i>Nanoscale</i> , <b>2012</b> , 4, 1471-5	7.7	96
6	Kinetic competition model and size-dependent phase selection in 1-D nanostructures. <i>Nano Letters</i> , <b>2012</b> , 12, 3115-20	11.5	37
5	High-yield synthesis of ZnO nanowire arrays and their opto-electrical properties. <i>Nanoscale</i> , <b>2012</b> , 4, 1476-80	7.7	27
4	Growth and properties of single-crystalline Ge nanowires and germanide/Ge nano-heterostructures. <i>CrystEngComm</i> , <b>2012</b> , 14, 53-58	3.3	8
3	Growth of CuInSe <sub>2</sub> and In <sub>2</sub> Se <sub>3</sub> /CuInSe <sub>2</sub> nano-heterostructures through solid state reactions. <i>Nano Letters</i> , <b>2011</b> , 11, 4348-51	11.5	43
2	The influence of surface oxide on the growth of metal/semiconductor nanowires. <i>Nano Letters</i> , <b>2011</b> , 11, 2753-8	11.5	23
1	Growth of single-crystalline cobalt silicide nanowires with excellent physical properties. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 074302	2.5	16