

Bin Wei

List of Publications by Year in descending order

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39
papers

2,024
citations

361413
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40
docs citations

40
times ranked

2851
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performance Flexible Solid-State Asymmetric Supercapacitors Based on Bimetallic Transition Metal Phosphide Nanocrystals. ACS Nano, 2019, 13, 10612-10621.	14.6	214
2	Growth of 2D GaN Single Crystals on Liquid Metals. Journal of the American Chemical Society, 2018, 140, 16392-16395.	13.7	183
3	Size-Dependent Bandgap Modulation of ZnO Nanowires by Tensile Strain. Nano Letters, 2012, 12, 4595-4599.	9.1	173
4	Isolated Single-Atom Ni ⁵⁺ Catalytic Site in Hollow Porous Carbon Capsules for Efficient Lithium-Sulfur Batteries. Nano Letters, 2021, 21, 9691-9698.	9.1	167
5	Few-Layer Bismuthene with Anisotropic Expansion for High-Areal Capacity Sodium-Ion Batteries. Advanced Materials, 2019, 31, e1807874.	21.0	165
6	Hierarchically structured diamond composite with exceptional toughness. Nature, 2020, 582, 370-374.	27.8	141
7	Strong Electronic Coupling between Ultrafine Iridium-Ruthenium Nanoclusters and Conductive, Acid-Stable Tellurium Nanoparticle Support for Efficient and Durable Oxygen Evolution in Acidic and Neutral Media. ACS Catalysis, 2020, 10, 3571-3579.	11.2	122
8	Magnetism and Optical Anisotropy in van der Waals Antiferromagnetic Insulator CrOCl. ACS Nano, 2019, 13, 11353-11362.	14.6	97
9	Atomic-Step Enriched Ruthenium-Iridium Nanocrystals Anchored Homogeneously on MOF-Derived Support for Efficient and Stable Oxygen Evolution in Acidic and Neutral Media. ACS Catalysis, 2021, 11, 3402-3413.	11.2	87
10	Phase Identification and Strong Second Harmonic Generation in Pure μ -InSe and Its Alloys. Nano Letters, 2019, 19, 2634-2640.	9.1	86
11	In-Plane Optical Anisotropy and Linear Dichroism in Low-Symmetry Layered TlSe. ACS Nano, 2018, 12, 8798-8807.	14.6	64
12	Bifunctional Porous Cobalt Phosphide Foam for High-Current-Density Alkaline Water Electrolysis with 4000-h Long Stability. ACS Sustainable Chemistry and Engineering, 2020, 8, 10193-10200.	6.7	57
13	Bandgap engineering and manipulating electronic and optical properties of ZnO nanowires by uniaxial strain. Nanoscale, 2014, 6, 4936-4941.	5.6	55
14	Ultrafine oxygen-defective iridium oxide nanoclusters for efficient and durable water oxidation at high current densities in acidic media. Journal of Materials Chemistry A, 2020, 8, 24743-24751.	10.3	45
15	Realizing Few-Layer Iodine for High-Rate Sodium-Ion Batteries. Advanced Materials, 2020, 32, e2004835.	21.0	41
16	Structural Distortion-Induced Charge Gradient Distribution of Co Ions in Delithiated LiCo ₂ Cathode. Journal of Physical Chemistry Letters, 2019, 10, 7537-7546.	4.6	39
17	Inverted Pyramid Textured p-Silicon Covered with Co ₂ P as an Efficient and Stable Solar Hydrogen Evolution Photocathode. ACS Energy Letters, 2019, 4, 1755-1762.	17.4	35
18	Highly Sensitive Polarization Photodetection Using a Pseudo-One-Dimensional Nb _{(1-x)Ti_xS₃} Alloy. ACS Applied Materials & Interfaces, 2019, 11, 3342-3350.	8.0	35

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19	Universal growth of ultra-thin III-V semiconductor single crystals. <i>Nature Communications</i> , 2020, 11, 3979.	12.8	34
20	Self-Assembled Quantum Dot Structures in a Hexagonal Nanowire for Quantum Photonics. <i>Advanced Materials</i> , 2014, 26, 2710-2717.	21.0	31
21	In Situ TEM Investigation of Electron Irradiation Induced Metastable States in Lithium-Ion Battery Cathodes: $\text{Li}_2\text{FeSiO}_4$ versus LiFePO_4 . <i>ACS Applied Energy Materials</i> , 2018, 1, 3180-3189.	5.1	20
22	Mille-Cr-like Metal Phosphide Nanocrystals/Carbon Nanotube Film Composites as High-Capacitance Negative Electrodes in Asymmetric Supercapacitors. <i>ACS Applied Energy Materials</i> , 2020, 3, 4580-4588.	5.1	19
23	Growth of 2D MoP single crystals on liquid metals by chemical vapor deposition. <i>Science China Materials</i> , 2021, 64, 1182-1188.	6.3	15
24	Ethylenediamine-Enabled Sustainable Synthesis of Mesoporous Nanostructured $\text{Li}_2\text{Fe}_2\text{SiO}_4$ Particles from Fe(III) Aqueous Solution for Li-Ion Battery Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7458-7467.	6.7	14
25	Large-Scale Fabrication of Hollow Pt_3Al Nanoboxes and Their Electrocatalytic Performance for Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9842-9847.	6.7	14
26	Disassembly of 2D Vertical Heterostructures. <i>Advanced Materials</i> , 2019, 31, e1805976.	21.0	12
27	Grain Boundary Induced Ultralow Threshold Random Laser in a Single GaTe Flake. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23323-23329.	8.0	10
28	Synthesis of low-symmetry 2D $\text{Ge}_{(1-x)}\text{Sn}_x\text{Se}_2$ alloy flakes with anisotropic optical response and birefringence. <i>Nanoscale</i> , 2019, 11, 23116-23125.	5.6	9
29	Variation of exciton emissions of ZnO whiskers reversibly tuned by axial tensile strain. <i>Optics Express</i> , 2014, 22, 4000.	3.4	8
30	A ternary $\text{Sn}_{1.26}\text{Se}_{0.76}$ alloy for flexible broadband photodetectors. <i>RSC Advances</i> , 2019, 9, 14352-14359.	3.6	7
31	Charge compensation by in-situ heating for insulating ceramics in scanning electron microscope. <i>Ultramicroscopy</i> , 2009, 109, 1326-1332.	1.9	6
32	Self-assembly of single quantum rings in gold-free GaAs nanowires. <i>Nanoscale</i> , 2014, 6, 3190.	5.6	6
33	Strain Gradient Modulated Exciton Evolution and Emission in ZnO Fibers. <i>Scientific Reports</i> , 2017, 7, 40658.	3.3	6
34	Charge Contrast Imaging of Nonconductive Samples in the High-Vacuum Field Emission Scanning Electron Microscope. <i>Scanning</i> , 2007, 29, 230-237.	1.5	2
35	Distinguishing crystallographic misorientations of lanthanum zirconate epilayers on nickel substrates by electron backscatter diffraction. <i>Ultramicroscopy</i> , 2011, 111, 314-319.	1.9	2
36	Local thermal conductivity of polycrystalline AlN ceramics measured by scanning thermal microscopy and complementary scanning electron microscopy techniques. <i>Chinese Physics B</i> , 2012, 21, 016501.	1.4	1

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37	Enhanced contrast separation in scanning electron microscopes via a suspended-thin sample approach. <i>Ultramicroscopy</i> , 2014, 146, 83-90.	1.9	1
38	Tunable Mechanical Property and Structural Transition of Silicon Nitride Nanowires Induced by Focused Ion Beam Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 32175-32181.	8.0	1
39	Luminescence Properties of GaAs Quantum Dot-in-Nanowire Structure for Quantum Photonics. , 2015, , .		0