

Zhuan Zhu

List of Publications by Year in descending order

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29
papers

3,081
citations

361413
20
h-index

526287
27
g-index

29
all docs

29
docs citations

29
times ranked

6720
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic cobalt on nitrogen-doped graphene for hydrogen generation. <i>Nature Communications</i> , 2015, 6, 8668.	12.8	1,356
2	Efficient hydrogen evolution by ternary molybdenum sulfoselenide particles on self-standing porous nickel diselenide foam. <i>Nature Communications</i> , 2016, 7, 12765.	12.8	312
3	Three-Dimensional Nanoporous Iron Nitride Film as an Efficient Electrocatalyst for Water Oxidation. <i>ACS Catalysis</i> , 2017, 7, 2052-2057.	11.2	207
4	Outstanding hydrogen evolution reaction catalyzed by porous nickel diselenide electrocatalysts. <i>Energy and Environmental Science</i> , 2017, 10, 1487-1492.	30.8	176
5	Interaction of Organic Cation with Water Molecule in Perovskite MAPbI_3 : From Dynamic Orientational Disorder to Hydrogen Bonding. <i>Chemistry of Materials</i> , 2016, 28, 7385-7393.	6.7	169
6	Higher thermoelectric performance of Zintl phases ($\text{Eu}_{0.5}\text{Yb}_{0.5}$) $\text{Ca}_x\text{Mg}_2\text{Bi}_2$ by band engineering and strain fluctuation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4125-32.	7.1	145
7	Secondary Oil Recovery Using Graphene-Based Amphiphilic Janus Nanosheet Fluid at an Ultralow Concentration. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 11125-11132.	3.7	87
8	Orientation Control of Graphene Flakes by Magnetic Field: Broad Device Applications of Macroscopically Aligned Graphene. <i>Advanced Materials</i> , 2017, 29, 1604453.	21.0	72
9	Surface deflection reduces cytotoxicity of $\text{Zn(2-methylimidazole)}_2$ (ZIF-8) without compromising its drug delivery capacity. <i>RSC Advances</i> , 2016, 6, 4128-4135.	3.6	68
10	Distinguishing thermal lens effect from electronic third-order nonlinear self-phase modulation in liquid suspensions of 2D nanomaterials. <i>Nanoscale</i> , 2017, 9, 3547-3554.	5.6	60
11	Graphene oxide liquid crystals for reflective displays without polarizing optics. <i>Nanoscale</i> , 2015, 7, 1616-1622.	5.6	45
12	Laser streaming: Turning a laser beam into a flow of liquid. <i>Science Advances</i> , 2017, 3, e1700555.	10.3	45
13	Effects of Defects on the Temperature-Dependent Thermal Conductivity of Suspended Monolayer Molybdenum Disulfide Grown by Chemical Vapor Deposition. <i>Advanced Functional Materials</i> , 2017, 27, 1704357.	14.9	44
14	Controlled Growth of MoS_2 Flakes from in-Plane to Edge-Enriched 3D Network and Their Surface-Energy Studies. <i>ACS Applied Nano Materials</i> , 2018, 1, 2356-2367.	5.0	44
15	Steric and Electronic Influence of Aryl Isocyanides on the Properties of Iridium(III) Cyclometalates. <i>Inorganic Chemistry</i> , 2016, 55, 2299-2308.	4.0	43
16	A Conductive Nanowire-Mesh Biosensor for Ultrasensitive Detection of Serum C-reactive Protein in Melanoma. <i>Advanced Functional Materials</i> , 2018, 28, 1802482.	14.9	34
17	Planar Alignment of Graphene Sheets by a Rotating Magnetic Field for Full Exploitation of Graphene as a 2D Material. <i>Advanced Functional Materials</i> , 2018, 28, 1805255.	14.9	33
18	Synthesis and Photoluminescence Properties of 2D Phenethylammonium Lead Bromide Perovskite Nanocrystals. <i>Small Methods</i> , 2017, 1, 1700245.	8.6	27

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19	Excitonic Resonant Emission—Absorption of Surface Plasmons in Transition Metal Dichalcogenides for Chip-Level Electronics—Photonic Integrated Circuits. ACS Photonics, 2016, 3, 869-874.	6.6	21
20	Moisture-driven phase transition for improved perovskite solar cells with reduced trap-state density. Nano Research, 2017, 10, 1413-1422.	10.4	20
21	Poly(octadecyl acrylate)-Grafted Multiwalled Carbon Nanotube Composites for Wearable Temperature Sensors. ACS Applied Nano Materials, 2020, 3, 2288-2301.	5.0	16
22	Graphene Flakes: Orientation Control of Graphene Flakes by Magnetic Field: Broad Device Applications of Macroscopically Aligned Graphene (Adv. Mater. 1/2017). Advanced Materials, 2017, 29, .	21.0	15
23	Percolating conductive networks in multiwall carbon nanotube-filled polymeric nanocomposites: towards scalable high-conductivity applications of disordered systems. Nanoscale, 2019, 11, 8565-8578.	5.6	14
24	Sol-gel synthesis of stabilized silver nanoparticles in an organosiloxane matrix and its optical nonlinearity. Chemical Physics, 2020, 532, 110610.	1.9	12
25	Functionalized few-layered graphene oxide embedded in an organosiloxane matrix for applications in optical limiting. Chemical Physics Letters, 2019, 714, 149-155.	2.6	10
26	Graphene Sheets: Planar Alignment of Graphene Sheets by a Rotating Magnetic Field for Full Exploitation of Graphene as a 2D Material (Adv. Funct. Mater. 46/2018). Advanced Functional Materials, 2018, 28, 1870330.	14.9	3
27	Laser-induced dynamic alignment and nonlinear-like optical transmission in liquid suspensions of 2D atomically thin nanomaterials. Optics Express, 2021, 29, 36389.	3.4	2
28	Graphene Flakes Controlled by Magnetic Fields for a Display Application. , 2017, , .		1
29	Planar Alignment of Graphene Sheets by a Rotating Magnetic Field for Polarizer and Display Applications. , 2019, , .		0