Zhuan Zhu

List of Publications by Year
in descending order

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	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
2	Sol-gel synthesis of stabilized silver nanoparticles in an organosiloxane matrix and its optical nonlinearity. Chemical Physics, 2020, 532, 110610.	1.9	12
3	Poly(octadecyl acrylate)-Grafted Multiwalled Carbon Nanotube Composites for Wearable Temperature Sensors. ACS Applied Nano Materials, 2020, 3, 2288-2301.	5.0	16
4	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
5	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
6	Planar Alignment of Graphene Sheets by a Rotating Magnetic Field for Polarizer and Display Applications. , 2019, , .		0
7	Controlled Growth of MoS₂ Flakes from in-Plane to Edge-Enriched 3D Network and Their Surface-Energy Studies. ACS Applied Nano Materials, 2018, 1, 2356-2367.	5.0	44
8	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
9	Planar Alignment of Graphene Sheets by a Rotating Magnetic Field for Full Exploitation of Graphene as a 2D Material. Advanced Functional Materials, 2018, 28, 1805255.	14.9	33
10	A Conductive Nanowireâ€Mesh Biosensor for Ultrasensitive Detection of Serum Câ€Reactive Protein in Melanoma. Advanced Functional Materials, 2018, 28, 1802482.	14.9	34
11	Three-Dimensional Nanoporous Iron Nitride Film as an Efficient Electrocatalyst for Water Oxidation. ACS Catalysis, 2017, 7, 2052-2057.	11.2	207
12	Distinguishing thermal lens effect from electronic third-order nonlinear self-phase modulation in liquid suspensions of 2D nanomaterials. Nanoscale, 2017, 9, 3547-3554.	5.6	60
13	Outstanding hydrogen evolution reaction catalyzed by porous nickel diselenide electrocatalysts. Energy and Environmental Science, 2017, 10, 1487-1492.	30.8	176
14	Moisture-driven phase transition for improved perovskite solar cells with reduced trap-state density. Nano Research, 2017, 10, 1413-1422.	10.4	20
15	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
16	Laser streaming: Turning a laser beam into a flow of liquid. Science Advances, 2017, 3, e1700555.	10.3	45
17	Effects of Defects on the Temperatureâ€Dependent Thermal Conductivity of Suspended Monolayer Molybdenum Disulfide Grown by Chemical Vapor Deposition. Advanced Functional Materials, 2017, 27, 1704357.	14.9	44
18	Secondary Oil Recovery Using Graphene-Based Amphiphilic Janus Nanosheet Fluid at an Ultralow Concentration. Industrial & Engineering Chemistry Research, 2017, 56, 11125-11132.	3.7	87

#	Article	IF	Citations
19	Synthesis and Photoluminescence Properties of 2D Phenethylammonium Lead Bromide Perovskite Nanocrystals. Small Methods, 2017, 1, 1700245.	8.6	27
20	Orientation Control of Graphene Flakes by Magnetic Field: Broad Device Applications of Macroscopically Aligned Graphene. Advanced Materials, 2017, 29, 1604453.	21.0	72
21	Graphene Flakes Controlled by Magnetic Fields for a Display Application. , 2017, , .		1
22	Higher thermoelectric performance of Zintl phases (Eu _{0.5} Yb _{0.5}) _{1â^'x} Ca _x Mg ₂ Bi ₂ by band engineering and strain fluctuation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4125-32.	7.1	145
23	Excitonic Resonant Emissionâ€“Absorption of Surface Plasmons in Transition Metal Dichalcogenides for Chip-Level Electronicâ€“Photonic Integrated Circuits. ACS Photonics, 2016, 3, 869-874.	6.6	21
24	Interaction of Organic Cation with Water Molecule in Perovskite MAPbI₃: From Dynamic Orientational Disorder to Hydrogen Bonding. Chemistry of Materials, 2016, 28, 7385-7393.	6.7	169
25	Efficient hydrogen evolution by ternary molybdenum sulfoselenide particles on self-standing porous nickel diselenide foam. Nature Communications, 2016, 7, 12765.	12.8	312
26	Steric and Electronic Influence of Aryl Isocyanides on the Properties of Iridium(III) Cyclometalates. Inorganic Chemistry, 2016, 55, 2299-2308.	4.0	43
27	Surface defection reduces cytotoxicity of Zn(2-methylimidazole)₂ (ZIF-8) without compromising its drug delivery capacity. RSC Advances, 2016, 6, 4128-4135.	3.6	68
28	Atomic cobalt on nitrogen-doped graphene for hydrogen generation. Nature Communications, 2015, 6, 8668.	12.8	1,356
29	Graphene oxide liquid crystals for reflective displays without polarizing optics. Nanoscale, 2015, 7, 1616-1622.	5.6	45