

Naigen Zhou

List of Publications by Year in descending order

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57
papers

1,407
citations

361388

20
h-index

345203

36
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all docs

57
docs citations

57
times ranked

1883
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent development and prospects of surface modification and biomedical applications of MXenes. <i>Nanoscale</i> , 2020, 12, 1325-1338.	5.6	179
2	Single atom-supported MXene: how single-atomic-site catalysts tune the high activity and selectivity of electrochemical nitrogen fixation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27620-27631.	10.3	133
3	A facile strategy for preparation of magnetic graphene oxide composites and their potential for environmental adsorption. <i>Ceramics International</i> , 2018, 44, 18571-18577.	4.8	122
4	Facile modification of nanodiamonds with hyperbranched polymers based on supramolecular chemistry and their potential for drug delivery. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 198-204.	9.4	90
5	Insights into the Electrocatalytic Hydrogen Evolution Reaction Mechanism on Two-Dimensional Transition-Metal Carbonitrides (MXene). <i>Chemistry - A European Journal</i> , 2018, 24, 18479-18486.	3.3	87
6	A one-step ultrasonic irradiation assisted strategy for the preparation of polymer-functionalized carbon quantum dots and their biological imaging. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 767-773.	9.4	53
7	Detecting and Tuning the Interactions between Surfactants and Carbon Nanotubes for Their High-Efficiency Structure Separation. <i>Advanced Materials Interfaces</i> , 2018, 5, 1700727.	3.7	38
8	Biomimetic anchoring of Fe ₃ O ₄ onto Ti ₃ C ₂ MXene for highly efficient removal of organic dyes by Fenton reaction. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104369.	6.7	36
9	Rapid synthesis of polyimidazole functionalized MXene via microwave-irradiation assisted multi-component reaction and its iodine adsorption performance. <i>Journal of Hazardous Materials</i> , 2021, 420, 126580.	12.4	36
10	Transition metal atoms implanted into MXenes (M ₂ CO ₂) for enhanced electrocatalytic hydrogen evolution reaction. <i>Applied Surface Science</i> , 2020, 509, 145319.	6.1	33
11	One-step fabrication of PEGylated fluorescent nanodiamonds through the thiol-ene click reaction and their potential for biological imaging. <i>Applied Surface Science</i> , 2018, 439, 1143-1151.	6.1	32
12	A comparative study of M ₂ CS ₂ and M ₂ CO ₂ MXenes as anode materials for lithium ion batteries. <i>Applied Surface Science</i> , 2021, 544, 148861.	6.1	32
13	Highly efficient removal of iodine ions using MXene-PDA-Ag ₂ O _x composites synthesized by mussel-inspired chemistry. <i>Journal of Colloid and Interface Science</i> , 2020, 567, 190-201.	9.4	31
14	Two-Dimensional BeB ₂ and MgB ₂ as High Capacity Dirac Anodes for Li-Ion Batteries: A DFT Study. <i>Journal of Physical Chemistry C</i> , 2022, 126, 9642-9651.	3.1	29
15	Construction of ionic liquid functionalized MXene with extremely high adsorption capacity towards iodine via the combination of mussel-inspired chemistry and Michael addition reaction. <i>Journal of Colloid and Interface Science</i> , 2021, 601, 294-304.	9.4	28
16	A novel one-step strategy for preparation of Fe ₃ O ₄ -loaded Ti ₃ C ₂ MXenes with high efficiency for removal organic dyes. <i>Ceramics International</i> , 2020, 46, 11593-11601.	4.8	26
17	Potential Applications of MoS ₂ /M ₂ CS ₂ (M = Ti, V) Heterostructures as Anode Materials for Metal-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10226-10234.	3.1	26
18	Large flexoelectricity in Al ₂ O ₃ -doped Ba(Ti _{0.85} Sn _{0.15})O ₃ ceramics. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	25

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19	Structure Sorting of Large-Diameter Carbon Nanotubes by NaOH Tuning the Interactions between Nanotubes and Gel. <i>Advanced Functional Materials</i> , 2017, 27, 1700278.	14.9	25
20	Double atom-anchored Defective Boron Nitride catalyst for efficient electroreduction of CO ₂ to CH ₄ : A first principles study. <i>Chemical Physics Letters</i> , 2020, 756, 137852.	2.6	25
21	Mussel-inspired preparation of MXene-PDA-Bi ₆ O ₇ composites for efficient adsorptive removal of iodide ions. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104261.	6.7	19
22	Frequency dispersion of flexoelectricity in PMN-PT single crystal. <i>AIP Advances</i> , 2017, 7, .	1.3	17
23	A novel thiol-ene click reaction for preparation of graphene quantum dots and their potential for fluorescence imaging. <i>Materials Science and Engineering C</i> , 2018, 91, 631-637.	7.3	17
24	Mass Production of High-Purity Semiconducting Carbon Nanotubes by Hydrochloric Acid Assisted Gel Chromatography. <i>ACS Applied Nano Materials</i> , 2019, 2, 343-350.	5.0	17
25	A molecular dynamics study of nucleation of dislocation in growth of silicon from melt. <i>Journal of Crystal Growth</i> , 2016, 443, 15-19.	1.5	15
26	Molecular dynamics simulation of the solidification process of multicrystalline silicon from homogeneous nucleation to grain coarsening. <i>CrystEngComm</i> , 2018, 20, 3569-3580.	2.6	15
27	Facile preparation of luminescent cellulose nanocrystals with aggregation-induced emission feature through Ce(IV) redox polymerization. <i>Carbohydrate Polymers</i> , 2019, 223, 115102.	10.2	15
28	Structure and nucleation mechanisms of misfit dislocations in epitaxial FCC thin films with positive and negative mismatches. <i>Materials Chemistry and Physics</i> , 2006, 100, 168-173.	4.0	14
29	The combination of Diels-Alder reaction and redox polymerization for preparation of functionalized CNTs for intracellular controlled drug delivery. <i>Materials Science and Engineering C</i> , 2020, 109, 110442.	7.3	14
30	Red aggregation-induced emission luminogen and Gd ³⁺ codoped mesoporous silica nanoparticles as dual-mode probes for fluorescent and magnetic resonance imaging. <i>Journal of Colloid and Interface Science</i> , 2020, 567, 136-144.	9.4	14
31	Click multiwalled carbon nanotubes: A novel method for preparation of carboxyl groups functionalized carbon quantum dots. <i>Materials Science and Engineering C</i> , 2020, 108, 110376.	7.3	13
32	Direct surface modification of nanodiamonds with ionic copolymers for fast adsorptive removal of copper ions with high efficiency. <i>Colloids and Interface Science Communications</i> , 2020, 37, 100278.	4.1	13
33	Formation of Dislocations in the Growth of Silicon along Different Crystallographic Directions—A Molecular Dynamics Study. <i>Crystals</i> , 2018, 8, 346.	2.2	12
34	A fusion-crystallization mechanism for nucleation of misfit dislocations in FCC epitaxial films. <i>Journal of Crystal Growth</i> , 2006, 289, 681-685.	1.5	10
35	Fabrication and characterization of hyperbranched polyglycerol modified carbon nanotubes through the host-guest interactions. <i>Materials Science and Engineering C</i> , 2018, 91, 458-465.	7.3	10
36	The twin formations on different growth planes of silicon crystal growth from melt by a molecular dynamics study. <i>Physica B: Condensed Matter</i> , 2019, 572, 184-189.	2.7	10

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37	Fabrication of β -cyclodextrin containing AlE-active polymeric composites through formation of dynamic phenylboronic borate and their theranostic applications. <i>Cellulose</i> , 2019, 26, 8829-8841.	4.9	9
38	Fabrication of claviform fluorescent polymeric nanomaterials containing disulfide bond through an efficient and facile four-component Ugi reaction. <i>Materials Science and Engineering C</i> , 2021, 118, 111437.	7.3	9
39	The influence of annealing temperature upon the structure of a-Si:H/c-Si thin films. <i>Journal of Non-Crystalline Solids</i> , 2017, 471, 379-383.	3.1	8
40	A molecular dynamics study of atomic configurations of dislocations accompanying twins in crystal growth of Si from melt. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2018, 26, 085003.	2.0	8
41	One-step preparation of green tea ash derived and polymer functionalized carbon quantum dots via the thiol-ene click chemistry. <i>Inorganic Chemistry Communication</i> , 2021, 130, 108743.	3.9	8
42	Lowering Dislocation Density of Directionally Grown Multicrystalline Silicon Ingots for Solar Cells by Simplifying Their Post-Solidification Processes—A Simulation Approach. <i>Journal of Thermal Stresses</i> , 2015, 38, 146-155.	2.0	7
43	Evidencing the structural conversion of hydrothermally synthesized titanate nanorods by in situ electron microscopy. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3786-3791.	10.3	7
44	Facile preparation of nitrogen and Fe _x codoped porous carbon with high catalytic activity under alkaline condition. <i>Colloids and Interface Science Communications</i> , 2020, 37, 100291.	4.1	7
45	Multilayer Load and Fast Diffusion of Metal Ions on a Ti ₂ CS ₂ /Blue Phosphorene Heterostructure Anode. <i>Journal of Physical Chemistry C</i> , 2022, 126, 91-101.	3.1	7
46	Impurity photovoltaic effect in silicon solar cells doped with two impurities. <i>Optical and Quantum Electronics</i> , 2014, 46, 1457-1465.	3.3	6
47	Molecular dynamics simulation study of the microstructure of a-Si:H thin film grown by oblique-angle deposition. <i>Physica B: Condensed Matter</i> , 2018, 545, 80-85.	2.7	4
48	A Study on Characterization and Prevention of Shadows in Cast Mono-crystalline Silicon Ingots. <i>Crystal Research and Technology</i> , 0, , 2100205.	1.3	4
49	Molecular dynamics study about the effect of substrate temperature on a-Si:H structure. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	3
50	O- and S-Terminated M ₂ C MXenes as Anode Materials for Na/K-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4267-4275.	3.1	3
51	Design of a flexure composite with large flexoelectricity. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 6505-6511.	2.2	2
52	Nucleation of self-growth dislocations on growth front during the solidification process of silicon. <i>Journal of Applied Physics</i> , 2019, 125, 155108.	2.5	2
53	A molecular dynamics study of the growth rate of SiC crystal and its dependence on the temperature. <i>International Journal of Modern Physics B</i> , 2016, 30, 1650152.	2.0	1
54	Effect of Cooling Rate during Thermal Processes on the Electrical Properties of Cast Multi-Crystalline Silicon. <i>Silicon</i> , 2022, 14, 7793-7798.	3.3	1

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55	Frontispiece: Insights into the Electrocatalytic Hydrogen Evolution Reaction Mechanism on Two-Dimensional Transition-Metal Carbonitrides (MXene). Chemistry - A European Journal, 2018, 24, .	3.3	0
56	Atomic insights in crystallization of liquid Cu on single crystal Ta and amorphous Ta. Materials Research Express, 2020, 7, 015201.	1.6	0
57	Effects of Heat Extraction Methods on the Quality of High Performance Multi-Crystalline Silicon Ingot. Silicon, 0, , 1.	3.3	0