Naigen Zhou

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9176988/publications.pdf

Version: 2024-02-01

57 papers	1,407 citations	361413 20 h-index	345221 36 g-index
57 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. Nanoscale, 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. Journal of Materials Chemistry A, 2019, 7, 27620-27631.	10.3	133
3	A facile strategy for preparation of magnetic graphene oxide composites and their potential for environmental adsorption. Ceramics International, 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. Journal of Colloid and Interface Science, 2018, 513, 198-204.	9.4	90
5	Insights into the Electrocatalytic Hydrogen Evolution Reaction Mechanism on Twoâ€Dimensional Transitionâ€Metal Carbonitrides (MXene). Chemistry - A European Journal, 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. Journal of Colloid and Interface Science, 2018, 532, 767-773.	9.4	53
7	Detecting and Tuning the Interactions between Surfactants and Carbon Nanotubes for Their Highâ€Efficiency Structure Separation. Advanced Materials Interfaces, 2018, 5, 1700727.	3.7	38
8	Biomimetic anchoring of Fe3O4 onto Ti3C2 MXene for highly efficient removal of organic dyes by Fenton reaction. Journal of Environmental Chemical Engineering, 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. Journal of Hazardous Materials, 2021, 420, 126580.	12.4	36
10	Transition metal atoms implanted into MXenes (M2CO2) for enhanced electrocatalytic hydrogen evolution reaction. Applied Surface Science, 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. Applied Surface Science, 2018, 439, 1143-1151.	6.1	32
12	A comparative study of M2CS2 and M2CO2 MXenes as anode materials for lithium ion batteries. Applied Surface Science, 2021, 544, 148861.	6.1	32
13	Highly efficient removal of iodine ions using MXene-PDA-Ag2Ox composites synthesized by mussel-inspired chemistry. Journal of Colloid and Interface Science, 2020, 567, 190-201.	9.4	31
14	Two-Dimensional BeB₂ and MgB₂ as High Capacity Dirac Anodes for Li-Ion Batteries: A DFT Study. Journal of Physical Chemistry C, 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. Journal of Colloid and Interface Science, 2021, 601, 294-304.	9.4	28
16	A novel one-step strategy for preparation of Fe3O4-loaded Ti3C2 MXenes with high efficiency for removal organic dyes. Ceramics International, 2020, 46, 11593-11601.	4.8	26
17	Potential Applications of MoS₂/M₂CS₂ (M = Ti, V) Heterostructures as Anode Materials for Metal-Ion Batteries. Journal of Physical Chemistry C, 2021, 125, 10226-10234.	3.1	26
18	Large flexoelectricity in Al2O3-doped Ba(Ti0.85Sn0.15)O3 ceramics. Applied Physics Letters, 2017, 110, .	3.3	25

#	Article	IF	Citations
19	Structure Sorting of Largeâ€Diameter Carbon Nanotubes by NaOH Tuning the Interactions between Nanotubes and Gel. Advanced Functional Materials, 2017, 27, 1700278.	14.9	25
20	Double atom-anchored Defective Boron Nitride catalyst for efficient electroreduction of CO2 to CH4: A first principles study. Chemical Physics Letters, 2020, 756, 137852.	2.6	25
21	Mussel-inspired preparation of MXene-PDA-Bi6O7 composites for efficient adsorptive removal of iodide ions. Journal of Environmental Chemical Engineering, 2020, 8, 104261.	6.7	19
22	Frequency dispersion of flexoelectricity in PMN-PT single crystal. AIP Advances, 2017, 7, .	1.3	17
23	A novel thiol-ene click reaction for preparation of graphene quantum dots and their potential for fluorescence imaging. Materials Science and Engineering C, 2018, 91, 631-637.	7.3	17
24	Mass Production of High-Purity Semiconducting Carbon Nanotubes by Hydrochloric Acid Assisted Gel Chromatography. ACS Applied Nano Materials, 2019, 2, 343-350.	5.0	17
25	A molecular dynamics study of nucleation of dislocation in growth of silicon from melt. Journal of Crystal Growth, 2016, 443, 15-19.	1.5	15
26	Molecular dynamics simulation of the solidification process of multicrystalline silicon from homogeneous nucleation to grain coarsening. CrystEngComm, 2018, 20, 3569-3580.	2.6	15
27	Facile preparation of luminescent cellulose nanocrystals with aggregation-induced emission feature through Ce(IV) redox polymerization. Carbohydrate Polymers, 2019, 223, 115102.	10.2	15
28	Structure and nucleation mechanisms of misfit dislocations in epitaxial FCC thin films with positive and negative mismatches. Materials Chemistry and Physics, 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. Materials Science and Engineering C, 2020, 109, 110442.	7.3	14
30	Red aggregation-induced emission luminogen and Gd3+ codoped mesoporous silica nanoparticles as dual-mode probes for fluorescent and magnetic resonance imaging. Journal of Colloid and Interface Science, 2020, 567, 136-144.	9.4	14
31	Click multiwalled carbon nanotubes: A novel method for preparation of carboxyl groups functionalized carbon quantum dots. Materials Science and Engineering C, 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. Colloids and Interface Science Communications, 2020, 37, 100278.	4.1	13
33	Formation of Dislocations in the Growth of Silicon along Different Crystallographic Directionsâ€”A Molecular Dynamics Study. Crystals, 2018, 8, 346.	2.2	12
34	A fusion-crystalization mechanism for nucleation of misfit dislocations in FCC epitaxial films. Journal of Crystal Growth, 2006, 289, 681-685.	1.5	10
35	Fabrication and characterization of hyperbranched polyglycerol modified carbon nanotubes through the host-guest interactions. Materials Science and Engineering C, 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. Physica B: Condensed Matter, 2019, 572, 184-189.	2.7	10

#	Article	IF	Citations
37	Fabrication of Î² cyclodextrin containing AIE-active polymeric composites through formation of dynamic phenylboronic borate and their theranostic applications. Cellulose, 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. Materials Science and Engineering C, 2021, 118, 111437.	7.3	9
39	The influence of annealing temperature upon the structure of a-Si:H/c-Si thin films. Journal of Non-Crystalline Solids, 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. Modelling and Simulation in Materials Science and Engineering, 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. Inorganic Chemistry Communication, 2021, 130, 108743.	3.9	8
42	Lowering Dislocation Density of Directionally Grown Multicrystalline Silicon Ingots for Solar Cells by Simplifying Their Post-Solidification Processesâ€"A Simulation Approach. Journal of Thermal Stresses, 2015, 38, 146-155.	2.0	7
43	Evidencing the structural conversion of hydrothermally synthesized titanate nanorods by in situ electron microscopy. Journal of Materials Chemistry A, 2017, 5, 3786-3791.	10.3	7
44	Facile preparation of nitrogen and FeSx codoped porous carbon with high catalytic activity under alkaline condition. Colloids and Interface Science Communications, 2020, 37, 100291.	4.1	7
45	Multilayer Load and Fast Diffusion of Metal Ions on a Ti₂CS₂/Blue Phosphorene Heterostructure Anode. Journal of Physical Chemistry C, 2022, 126, 91-101.	3.1	7
46	Impurity photovoltaic effect in silicon solar cells doped with two impurities. Optical and Quantum Electronics, 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. Physica B: Condensed Matter, 2018, 545, 80-85.	2.7	4
48	A Study on Characterization and Prevention of Shadows in Cast Monoâ€Crystalline Silicon Ingots. Crystal Research and Technology, 0, , 2100205.	1.3	4
49	Molecular dynamics study about the effect of substrate temperature on a-Si:H structure. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	3
50	O- and S-Terminated M₂C MXenes as Anode Materials for Na/K-Ion Batteries. Journal of Physical Chemistry C, 2022, 126, 4267-4275.	3.1	3
51	Design of a flexure composite with large flexoelectricity. Journal of Materials Science: Materials in Electronics, 2017, 28, 6505-6511.	2.2	2
52	Nucleation of self-growth dislocations on growth front during the solidification process of silicon. Journal of Applied Physics, 2019, 125, 155108.	2.5	2
53	A molecular dynamics study of the growth rate of SiC crystal and its dependence on the temperature. International Journal of Modern Physics B, 2016, 30, 1650152.	2.0	1
54	Effect of Cooling Rate during Thermal Processes on the Electrical Properties of Cast Multi-Crystalline Silicon. Silicon, 2022, 14, 7793-7798.	3.3	1

#	Article	IF	Citations
55	Frontispiece: Insights into the Electrocatalytic Hydrogen Evolution Reaction Mechanism on Twoâ€Dimensional Transitionâ€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