Hanyang Gao

List of Publications by Year
in descending order

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23 papers	903 citations	567281 15 h-index	642732 23 g-index
23 all docs	23 docs citations	23 times ranked	1399 citing authors

#	Article	IF	Citations
1	Raman Spectroscopic Characterization of Graphene. Applied Spectroscopy Reviews, 2010, 45, 369-407.	6.7	213
2	Siliconâ€Based Selfâ€Assemblies for High Volumetric Capacity Liâ€Ion Batteries via Effective Stress Management. Advanced Functional Materials, 2020, 30, 2002980.	14.9	76
3	Large-scale graphene production by ultrasound-assisted exfoliation of natural graphite in supercritical CO 2 /H 2 O medium. Chemical Engineering Journal, 2017, 308, 872-879.	12.7	70
4	Scalable synthesis of hierarchical hollow Li 4 Ti 5 O 12 microspheres assembled by zigzag-like nanosheets for high rate lithium-ion batteries. Journal of Power Sources, 2017, 340, 263-272.	7.8	65
5	Highly sensitive natural rubber/pristine graphene strain sensor prepared by a simple method. Composites Part B: Engineering, 2019, 171, 138-145.	12.0	64
6	Production of graphene quantum dots by ultrasound-assisted exfoliation in supercritical CO2/H2O medium. Ultrasonics Sonochemistry, 2017, 37, 120-127.	8.2	57
7	A flexible mesoporous Li4Ti5O12-rGO nanocomposite film as free-standing anode for high rate lithium ion batteries. Journal of Power Sources, 2018, 375, 59-67.	7.8	57
8	Core-shell structured Si@C nanocomposite for high-performance Li-ion batteries with a highly viscous gel as precursor. Journal of Power Sources, 2019, 438, 227001.	7.8	41
9	Graphene production via supercritical fluids. RSC Advances, 2016, 6, 10132-10143.	3.6	38
10	Facile preparation of core-shell Si@Li4Ti5O12 nanocomposite as large-capacity lithium-ion battery anode. Journal of Energy Chemistry, 2020, 40, 89-98.	12.9	37
11	Scalable preparation of defect-rich free-standing TiO2 sheets with visible-light photocatalytic activity. Applied Catalysis B: Environmental, 2018, 226, 337-345.	20.2	33
12	Hyperelastic characteristics of graphene natural rubber composites and reinforcement and toughening mechanisms at multi-scale. Composite Structures, 2019, 228, 111365.	5.8	23
13	Infusion of graphene in natural rubber matrix to prepare conductive rubber by ultrasound-assisted supercritical CO2 method. Chemical Engineering Journal, 2019, 368, 1013-1021.	12.7	23
14	Experimental test and curve fitting of creep recovery characteristics of modified graphene oxide natural rubber and its relationship with temperature. Polymer Testing, 2020, 87, 106509.	4.8	21
15	Novel Process of Removal of Sulfur Dioxide by Aqueous Ammoniaâ€“Fulvic Acid Solution with Ammonia Escape Inhibition. Energy & Fuels, 2016, 30, 3205-3218.	5.1	19
16	Confined interfacial assembly of controlled Li2Ti3O7 building blocks and Si nanoparticles in Lithium-ion batteries. Energy Storage Materials, 2022, 44, 239-249.	18.0	13
17	Preparation of a Highly Stable Dispersion of Graphene in Water with the Aid of Graphene Oxide. Industrial & Engineering Chemistry Research, 2019, 58, 17842-17849.	3.7	12
18	Preparation of waterborne dispersions of epoxy resin by ultrasonic-assisted supercritical CO2 nanoemulsification technique. Ultrasonics Sonochemistry, 2017, 39, 520-527.	8.2	11

#	Article	IF	Citations
19	Growth Mechanism and Influences from Kinetic Factors on Carbon Materials with Cu and Silica Substrates during Atmospheric Pressure Chemical Vapor Deposition. Journal of Physical Chemistry C, 2013, 117, 25175-25184.	3.1	9
20	High internal phase Pickering emulsions stabilized with graphene oxide in supercritical CO2 system. Journal of Supercritical Fluids, 2020, 155, 104654.	3.2	8
21	A review on particle assembly in standing wave acoustic field. Journal of Nanoparticle Research, 2022, 24, 1.	1.9	6
22	Ultrasonic cavitation in CO2-expanded N, N-dimethylformamide (DMF). Ultrasonics Sonochemistry, 2021, 78, 105713.	8.2	4
23	The influence of pressure on the acoustic cavitation in saturated CO2-expanded N, N-dimethylformamide. Ultrasonics Sonochemistry, 2022, 83, 105934.	8.2	3