Tao Wu

List of Publications by Year
in descending order

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77 papers	3,385 citations	159585 30 h-index	144013 57 g-index
77 all docs	77 docs citations	77 times ranked	4656 citing authors

#	Article	IF	Citations
1	Cost-Effective Reduced Graphene Oxide-Coated Polyurethane Sponge As a Highly Efficient and Reusable Oil-Absorbent. ACS Applied Materials & Interfaces, 2013, 5, 10018-10026.	8.0	404
2	An environmentally friendly method for the fabrication of reduced graphene oxide foam with a super oil absorption capacity. Journal of Hazardous Materials, 2013, 260, 796-805.	12.4	204
3	Three-dimensional graphene-based aerogels prepared by a self-assembly process and its excellent catalytic and absorbing performance. Journal of Materials Chemistry A, 2013, 1, 7612.	10.3	184
4	Porous graphene oxide/carboxymethyl cellulose monoliths, with high metal ion adsorption. Carbohydrate Polymers, 2014, 101, 392-400.	10.2	173
5	Actuator materials based on graphene oxide/polyacrylamide composite hydrogels prepared by in situ polymerization. Soft Matter, 2011, 7, 7231.	2.7	165
6	Probing the Reaction Mechanism of Aluminum/Poly(vinylidene fluoride) Composites. Journal of Physical Chemistry B, 2016, 120, 5534-5542.	2.6	145
7	Comparison study of the ignition and combustion characteristics of directly-written Al/PVDF, Al/Viton and Al/THV composites. Combustion and Flame, 2019, 201, 181-186.	5.2	127
8	Fabrication of graphene oxide decorated with Auâ€“Ag alloy nanoparticles and its superior catalytic performance for the reduction of 4-nitrophenol. Journal of Materials Chemistry A, 2013, 1, 7384.	10.3	126
9	Graphene oxide reduced and modified by soft nanoparticles and its catalysis of the Knoevenagel condensation. Journal of Materials Chemistry, 2012, 22, 4772.	6.7	123
10	Adsorption behavior and mechanism of chlorophenols onto organoclays in aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 484, 118-129.	4.7	102
11	Robust Superhydrophobic Sepiolite-Coated Polyurethane Sponge for Highly Efficient and Recyclable Oil Absorption. ACS Sustainable Chemistry and Engineering, 2019, 7, 5560-5567.	6.7	87
12	Enhanced adsorption capacity of dyes by surfactant-modified layered double hydroxides from aqueous solution. Journal of Industrial and Engineering Chemistry, 2017, 49, 208-218.	5.8	85
13	Reduction of graphene oxide with l-lysine to prepare reduced graphene oxide stabilized with polysaccharide polyelectrolyte. Journal of Materials Chemistry A, 2013, 1, 2192-2201.	10.3	78
14	A superhydrophilic and underwater superoleophobic chitosanâ€“TiO₂ composite membrane for fast oil-in-water emulsion separation. RSC Advances, 2017, 7, 41838-41846.	3.6	63
15	Direct Writing of a 90 wt% Particle Loading Nanothermite. Advanced Materials, 2019, 31, e1806575.	21.0	63
16	A two step method to synthesize palladiumâ€“copper nanoparticles on reduced graphene oxide and their extremely high electrocatalytic activity for the electrooxidation of methanol and ethanol. Journal of Power Sources, 2015, 288, 160-167.	7.8	62
17	Effective removal of emulsified oil from oily wastewater using surfactant-modified sepiolite. Applied Clay Science, 2018, 157, 227-236.	5.2	56
18	Adsorption and Destruction of the G-Series Nerve Agent Simulant Dimethyl Methylphosphonate on Zinc Oxide. ACS Catalysis, 2019, 9, 902-911.	11.2	54

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19	Efficient remediation of crude oil-contaminated soil using a solvent/surfactant system. RSC Advances, 2019, 9, 2402-2411.	3.6	53
20	Boron ignition and combustion with doped Î´-Bi2O3: Bond energy/oxygen vacancy relationships. Combustion and Flame, 2018, 197, 127-133.	5.2	48
21	Redox reaction between graphene oxide and In powder to prepare In2O3/reduced graphene oxide hybrids for supercapacitors. Journal of Power Sources, 2014, 266, 282-290.	7.8	47
22	Graphene oxide supported Auâ€“Ag alloy nanoparticles with different shapes and their high catalytic activities. Nanotechnology, 2013, 24, 125301.	2.6	43
23	Analysis and porthole die design for a multi-hole extrusion process of a hollow, thin-walled aluminum profile. International Journal of Advanced Manufacturing Technology, 2014, 74, 383-392.	3.0	43
24	Fabrication of chitosan/magnetite-graphene oxide composites as a novel bioadsorbent for adsorption and detoxification of Cr(VI) from aqueous solution. Scientific Reports, 2018, 8, 15397.	3.3	41
25	Ignition and combustion analysis of direct write fabricated aluminum/metal oxide/PVDF films. Combustion and Flame, 2020, 211, 260-269.	5.2	39
26	Combustion of 3D printed 90Âwt% loading reinforced nanothermite. Combustion and Flame, 2020, 215, 86-92.	5.2	39
27	Titanium enhanced ignition and combustion of Al/I2O5 mesoparticle composites. Combustion and Flame, 2020, 212, 245-251.	5.2	37
28	Architecture Can Significantly Alter the Energy Release Rate from Nanocomposite Energetics. ACS Applied Polymer Materials, 2019, 1, 982-989.	4.4	36
29	Mesoporous Silica Spheres Incorporated Aluminum/Poly (Vinylidene Fluoride) for Enhanced Burning Propellants. Advanced Engineering Materials, 2018, 20, 1700547.	3.5	34
30	Effective removal of emulsified oil from oily wastewater using in - situ generated metallic hydroxides from leaching solution of white mud. Chemical Engineering Journal, 2017, 309, 513-521.	12.7	32
31	New coordination complexes-based gas-generating energetic composites. Combustion and Flame, 2020, 219, 478-487.	5.2	31
32	Aerosol synthesis of phase pure iodine/iodic biocide microparticles. Journal of Materials Research, 2017, 32, 890-896.	2.6	28
33	Performance of iodine oxides/iodic acids as oxidizers in thermite systems. Combustion and Flame, 2018, 191, 335-342.	5.2	28
34	Highly efficient treatment of oily wastewater using magnetic carbon nanotubes/layered double hydroxides composites. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 586, 124187.	4.7	28
35	Platinum nano-catalysts deposited on reduced graphene oxides for alcohol oxidation. Electrochimica Acta, 2013, 111, 614-620.	5.2	27
36	A new rapid chemical route to prepare reduced graphene oxide using copper metal nanoparticles. Nanotechnology, 2013, 24, 215604.	2.6	27

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37	Biodegradable amylose films reinforced by graphene oxide and polyvinyl alcohol. Materials Chemistry and Physics, 2013, 142, 1-11.	4.0	26
38	Removal of ampicillin sodium in solution using activated carbon adsorption integrated with H₂O₂ oxidation. Journal of Chemical Technology and Biotechnology, 2012, 87, 623-628.	3.2	25
39	Investigation into the adsorption of partially hydrolyzed polyacrylamide onto in situ formed magnesium hydroxide particles. RSC Advances, 2016, 6, 31092-31100.	3.6	21
40	Doped Perovskites To Evaluate the Relationship between Fuelâ€“Oxidizer Thermite Ignition and Bond Energy, Electronegativity, and Oxygen Vacancy. Journal of Physical Chemistry C, 2017, 121, 147-152.	3.1	21
41	Interaction of morinâ€“cetyltrimethylammonium bromide with nucleic acids and determination of nucleic acids at nanograms per milliliter levels based on the enhancement of preresonance light scattering. Analyst, The, 2001, 126, 1367-1371.	3.5	20
42	Grafting of graphene oxide with poly(sodium 4-styrenesulfonate) by atom transfer radical polymerization. Materials Chemistry and Physics, 2013, 138, 434-439.	4.0	19
43	Carbon addition lowers initiation and iodine release temperatures from iodine oxide-based biocidal energetic materials. Carbon, 2018, 130, 410-415.	10.3	19
44	Fabrication of graphene oxide aerogels loaded with catalytic AuPd nanoparticles. Materials Research Bulletin, 2015, 63, 248-252.	5.2	18
45	Growth of Sub-5 nm Metal Nanoclusters in Polymer Melt Aerosol Droplets. Langmuir, 2018, 34, 585-594.	3.5	17
46	Polyacrylamide grafting of modified graphene oxides by in situ free radical polymerization. Materials Research Bulletin, 2014, 60, 576-583.	5.2	15
47	One-step solvent-free mechanochemical synthesis of metal iodate fine powders. Powder Technology, 2018, 324, 62-68.	4.2	15
48	Magnetic bimetallic nanoparticles supported reduced graphene oxide nanocomposite: Fabrication, characterization and catalytic capability. Journal of Alloys and Compounds, 2015, 628, 364-371.	5.5	14
49	Influence of titanium addition on performance of boron-based thermites. Chemical Engineering Journal, 2022, 438, 134837.	12.7	14
50	Rapid removal and recovery of emulsified oil from ASP produced water using in situ formed magnesium hydroxide. Environmental Science: Water Research and Technology, 2018, 4, 539-548.	2.4	13
51	Silver ferrite: a superior oxidizer for thermite-driven biocidal nanoenergetic materials. RSC Advances, 2019, 9, 1831-1840.	3.6	13
52	A Robust Superhydrophobic Polyurethane Sponge Loaded with Multi-Walled Carbon Nanotubes for Efficient and Selective Oil-Water Separation. Nanomaterials, 2021, 11, 3344.	4.1	13
53	Effect of Process Parameters on the Properties of Direct Written Gas-Generating Reactive Layers. ACS Applied Polymer Materials, 2021, 3, 3972-3980.	4.4	10
54	On-the-fly green generation and dispersion of AgI nanoparticles for cloud seeding nuclei. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	9

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55	Investigating the oxidation mechanism of tantalum nanoparticles at high heating rates. Journal of Applied Physics, 2017, 122, 245901.	2.5	9
56	Effect of process factors on the rabbit ear based on numerical simulation and experimental study in gear rolling. International Journal of Advanced Manufacturing Technology, 2018, 94, 4055-4064.	3.0	9
57	Reduction of Graphene Oxide with Ni Powder for the Preparation of Ni(OH)₂/Reduced Graphene Oxide Hybrid Electrodes for Supercapacitors. Science of Advanced Materials, 2015, 7, 269-277.	0.7	9
58	A polyaniline/graphene nanocomposite prepared by in situ polymerization of polyaniline onto polyanion grafted graphene and its electrochemical properties. RSC Advances, 2014, 4, 7673-7681.	3.6	8
59	Efficient treatment of crude oil-contaminated hydrodesulphurization catalyst by using surfactant/solvent mixture. Journal of Environmental Chemical Engineering, 2021, 9, 105890.	6.7	8
60	Enhanced reactivity of copper complex-based reactive materials via mechanical milling. Combustion and Flame, 2021, 233, 111598.	5.2	8
61	Engineered Porosity-Induced Burn Rate Enhancement in Dense Al/CuO Nanothermites. ACS Applied Energy Materials, 2022, 5, 3189-3198.	5.1	8
62	Rapid and effective removal of sodium lignosulfonate from aqueous solutions by in-situ formed magnesium hydroxide. Korean Journal of Chemical Engineering, 2016, 33, 3541-3549.	2.7	7
63	Stress proteins, nonribosomal peptide synthetases, and polyketide synthases regulate carbon sources-mediated bio-demulsifying mechanisms of nitrate-reducing bacterium Gordonia sp. TD-4. Journal of Hazardous Materials, 2022, 422, 126900.	12.4	7
64	Bio-augmentation with dissimilatory nitrate reduction to ammonium (DNRA) driven sulfide-oxidizing bacteria enhances the durability of nitrate-mediated souring control. Water Research, 2022, 219, 118556.	11.3	7
65	Superwetting TiO2-decorated single-walled carbon nanotube composite membrane for highly efficient oil-in-water emulsion separation. Korean Journal of Chemical Engineering, 2020, 37, 2054-2063.	2.7	6
66	Aggregation and deposition of in situ formed colloidal particles in the presence of polyelectrolytes. Soft Matter, 2017, 13, 1539-1547.	2.7	5
67	Combined effects of polymer/surfactant mixtures on dynamic interfacial properties. Asia-Pacific Journal of Chemical Engineering, 2017, 12, 489-501.	1.5	5
68	Crystal structure of a new polymorph of iodic acid,Î´-HIO₃, from powder diffraction. Powder Diffraction, 2017, 32, 261-264.	0.2	5
69	Structure design and effects of conical gear roller on restraining rabbit ear defects during gear rolling. International Journal of Advanced Manufacturing Technology, 2019, 103, 1621-1631.	3.0	5
70	Fabrication of Magnetite-Graphene Oxide/MgAl-Layered Double Hydroxide Composites for Efficient Removal of Emulsified Oils from Various Oil-in-Water Emulsions. Journal of Chemical & Engineering Data, 2018, , .	1.9	4
71	Efficient Removal of Bisphenol A Using Nitrogen-Doped Graphene-Like Plates from Green Petroleum Coke. Molecules, 2020, 25, 3543.	3.8	4
72	Effects of the material and its temperature state on the tooth morphology in gear rolling. International Journal of Advanced Manufacturing Technology, 2018, 97, 345-352.	3.0	3

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73	A fast and efficient method for the efficient recovery of crude oil from spent hydrodesulphurization catalyst. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 642, 128650.	4.7	2
74	Efficient remediation of crude oil-contaminated soil using a solvent/surfactant system. , 0, .		1
75	Utilization Phase Transition Component Method to Prepare Specially Functionalized Nanoemulsion by Adding Resveratrol/Phenethyl Resorcinol Mixed Active Components and Application in Free Radicals Removal. Journal of Nanoscience and Nanotechnology, 2020, 20, 7769-7774.	0.9	1
76	Reduced Graphene Oxide Produced by a Green Reduction Method and Its Application in Cu²⁺ Adsorption for Catalyzing the Reduction of 4-Nitrophenol. Science of Advanced Materials, 2014, 6, 1869-1881.	0.7	0
77	Effects of Unidirection/Bidirection Torsional Thermomechanical Processes on Grain Boundary Characteristics and Plasticity of Pure Nickel. Materials, 2022, 15, 236.	2.9	0