

# Tao Wu

## List of Publications by Citations

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50  
papers

2,150  
citations

22  
h-index

46  
g-index

51  
ext. papers

2,508  
ext. citations

6.4  
avg, IF

4.85  
L-index

#	Paper	IF	Citations
50	Cost-effective reduced graphene oxide-coated polyurethane sponge as a highly efficient and reusable oil-absorbent. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 10018-26	9.5	349
49	An environmentally friendly method for the fabrication of reduced graphene oxide foam with a super oil absorption capacity. <i>Journal of Hazardous Materials</i> , <b>2013</b> , 260, 796-805	12.8	181
48	Three-dimensional graphene-based aerogels prepared by a self-assembly process and its excellent catalytic and absorbing performance. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 7612	13	162
47	Actuator materials based on graphene oxide/polyacrylamide composite hydrogels prepared by in situ polymerization. <i>Soft Matter</i> , <b>2011</b> , 7, 7231	3.6	152
46	Porous graphene oxide/carboxymethyl cellulose monoliths, with high metal ion adsorption. <i>Carbohydrate Polymers</i> , <b>2014</b> , 101, 392-400	10.3	151
45	Graphene oxide reduced and modified by soft nanoparticles and its catalysis of the Knoevenagel condensation. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 4772		115
44	Fabrication of graphene oxide decorated with AuAg alloy nanoparticles and its superior catalytic performance for the reduction of 4-nitrophenol. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 7384	13	109
43	Probing the Reaction Mechanism of Aluminum/Poly(vinylidene fluoride) Composites. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 5534-42	3.4	77
42	Reduction of graphene oxide with L-lysine to prepare reduced graphene oxide stabilized with polysaccharide polyelectrolyte. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 2192-2201	13	68
41	Comparison study of the ignition and combustion characteristics of directly-written Al/PVDF, Al/Viton and Al/THV composites. <i>Combustion and Flame</i> , <b>2019</b> , 201, 181-186	5.3	65
40	Robust Superhydrophobic Sepiolite-Coated Polyurethane Sponge for Highly Efficient and Recyclable Oil Absorption. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 5560-5567	8.3	58
39	A two step method to synthesize palladium-copper nanoparticles on reduced graphene oxide and their extremely high electrocatalytic activity for the electrooxidation of methanol and ethanol. <i>Journal of Power Sources</i> , <b>2015</b> , 288, 160-167	8.9	56
38	Factors that affect the stability, type and morphology of Pickering emulsion stabilized by silver nanoparticles/graphene oxide nanocomposites. <i>Materials Research Bulletin</i> , <b>2014</b> , 60, 118-129	5.1	46
37	Redox reaction between graphene oxide and In powder to prepare In <sub>2</sub> O <sub>3</sub> /reduced graphene oxide hybrids for supercapacitors. <i>Journal of Power Sources</i> , <b>2014</b> , 266, 282-290	8.9	42
36	Graphene oxide supported Au-Ag alloy nanoparticles with different shapes and their high catalytic activities. <i>Nanotechnology</i> , <b>2013</b> , 24, 125301	3.4	42
35	Adsorption and Destruction of the G-Series Nerve Agent Simulant Dimethyl Methylphosphonate on Zinc Oxide. <i>ACS Catalysis</i> , <b>2019</b> , 9, 902-911	13.1	33
34	Direct Writing of a 90 wt% Particle Loading Nanothermite. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806575	24	32

33	Platinum nano-catalysts deposited on reduced graphene oxides for alcohol oxidation. <i>Electrochimica Acta</i> , <b>2013</b> , 111, 614-620	6.7	27
32	A new rapid chemical route to prepare reduced graphene oxide using copper metal nanoparticles. <i>Nanotechnology</i> , <b>2013</b> , 24, 215604	3.4	26
31	Aerosol synthesis of phase pure iodine/iodic biocide microparticles. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 890-896	2.5	23
30	Biodegradable amylose films reinforced by graphene oxide and polyvinyl alcohol. <i>Materials Chemistry and Physics</i> , <b>2013</b> , 142, 1-11	4.4	23
29	Performance of iodine oxides/iodic acids as oxidizers in thermite systems. <i>Combustion and Flame</i> , <b>2018</b> , 191, 335-342	5.3	22
28	Mesoporous Silica Spheres Incorporated Aluminum/Poly (Vinylidene Fluoride) for Enhanced Burning Propellants. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1700547	3.5	22
27	Architecture Can Significantly Alter the Energy Release Rate from Nanocomposite Energetics. <i>ACS Applied Polymer Materials</i> , <b>2019</b> , 1, 982-989	4.3	21
26	Boron ignition and combustion with doped Bi <sub>2</sub> O <sub>3</sub> : Bond energy/oxygen vacancy relationships. <i>Combustion and Flame</i> , <b>2018</b> , 197, 127-133	5.3	21
25	Ignition and combustion analysis of direct write fabricated aluminum/metal oxide/PVDF films. <i>Combustion and Flame</i> , <b>2020</b> , 211, 260-269	5.3	21
24	Combustion of 3D printed 90 wt% loading reinforced nanothermite. <i>Combustion and Flame</i> , <b>2020</b> , 215, 86-92	5.3	20
23	Fabrication of graphene oxide aerogels loaded with catalytic AuPd nanoparticles. <i>Materials Research Bulletin</i> , <b>2015</b> , 63, 248-252	5.1	18
22	Grafting of graphene oxide with poly(sodium 4-styrenesulfonate) by atom transfer radical polymerization. <i>Materials Chemistry and Physics</i> , <b>2013</b> , 138, 434-439	4.4	17
21	Doped Perovskites To Evaluate the Relationship between Fuel/Oxidizer Thermite Ignition and Bond Energy, Electronegativity, and Oxygen Vacancy. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 147-152 <sup>3.8</sup>	3.8	16
20	Magnetic bimetallic nanoparticles supported reduced graphene oxide nanocomposite: Fabrication, characterization and catalytic capability. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 628, 364-371	5.7	12
19	Carbon addition lowers initiation and iodine release temperatures from iodine oxide-based biocidal energetic materials. <i>Carbon</i> , <b>2018</b> , 130, 410-415	10.4	12
18	Polyacrylamide grafting of modified graphene oxides by in situ free radical polymerization. <i>Materials Research Bulletin</i> , <b>2014</b> , 60, 576-583	5.1	12
17	New coordination complexes-based gas-generating energetic composites. <i>Combustion and Flame</i> , <b>2020</b> , 219, 478-487	5.3	10
16	Growth of Sub-5 nm Metal Nanoclusters in Polymer Melt Aerosol Droplets. <i>Langmuir</i> , <b>2018</b> , 34, 585-594	4	10

15	Titanium enhanced ignition and combustion of Al/Al <sub>2</sub> O <sub>3</sub> mesoparticle composites. <i>Combustion and Flame</i> , <b>2020</b> , 212, 245-251	5.3	10
14	One-step solvent-free mechanochemical synthesis of metal iodate fine powders. <i>Powder Technology</i> , <b>2018</b> , 324, 62-68	5.2	9
13	Reduction of Graphene Oxide with Ni Powder for the Preparation of Ni(OH) <sub>2</sub> /Reduced Graphene Oxide Hybrid Electrodes for Supercapacitors. <i>Science of Advanced Materials</i> , <b>2015</b> , 7, 269-277	2.3	9
12	Self-Assembly Method To Fabricate Reduced Graphene Oxide Aerogels Loaded with Nickel Hydroxyl Nanoparticles and Their Excellent Properties in Absorbing and Supercapacitors. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 6553-6562	3.9	8
11	A polyaniline/graphene nanocomposite prepared by in situ polymerization of polyaniline onto polyanion grafted graphene and its electrochemical properties. <i>RSC Advances</i> , <b>2014</b> , 4, 7673-7681	3.7	8
10	Investigating the oxidation mechanism of tantalum nanoparticles at high heating rates. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 245901	2.5	7
9	On-the-fly green generation and dispersion of AgI nanoparticles for cloud seeding nuclei. <i>Journal of Nanoparticle Research</i> , <b>2016</b> , 18, 1	2.3	7
8	Unexpected enhanced reactivity of aluminized nanothermites by accelerated aging. <i>Chemical Engineering Journal</i> , <b>2021</b> , 418, 129432	14.7	6
7	Silver ferrite: a superior oxidizer for thermite-driven biocidal nanoenergetic materials.. <i>RSC Advances</i> , <b>2019</b> , 9, 1831-1840	3.7	5
6	Crystal structure of a new polymorph of iodic acid, HIO <sub>3</sub> , from powder diffraction. <i>Powder Diffraction</i> , <b>2017</b> , 32, 261-264	1.8	5
5	A Robust Superhydrophobic Polyurethane Sponge Loaded with Multi-Walled Carbon Nanotubes for Efficient and Selective Oil-Water Separation.. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	4
4	Effect of Process Parameters on the Properties of Direct Written Gas-Generating Reactive Layers. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 3972-3980	4.3	1
3	Influence of Titanium Addition on Performance of Boron-based Thermites. <i>Chemical Engineering Journal</i> , <b>2022</b> , 134837	14.7	0
2	Enhanced reactivity of copper complex-based reactive materials via mechanical milling. <i>Combustion and Flame</i> , <b>2021</b> , 233, 111598	5.3	0
1	Engineered Porosity-Induced Burn Rate Enhancement in Dense Al/CuO Nanothermites. <i>ACS Applied Energy Materials</i> , <b>2022</b> , 5, 3189-3198	6.1	0