Tao Wu

List of Publications by Year in Descending Order

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	Influence of Titanium Addition on Performance of Boron-based Thermites. *Chemical Engineering Journal*, **2022**, 134837	14.7	0
49	Engineered Porosity-Induced Burn Rate Enhancement in Dense Al/CuO Nanothermites. *ACS Applied Energy Materials*, **2022**, 5, 3189-3198	6.1	0
48	A Robust Superhydrophobic Polyurethane Sponge Loaded with Multi-Walled Carbon Nanotubes for Efficient and Selective Oil-Water Separation.. *Nanomaterials*, **2021**, 11,	5.4	4
47	Effect of Process Parameters on the Properties of Direct Written Gas-Generating Reactive Layers. *ACS Applied Polymer Materials*, **2021**, 3, 3972-3980	4.3	1
46	Unexpected enhanced reactivity of aluminized nanothermites by accelerated aging. *Chemical Engineering Journal*, **2021**, 418, 129432	14.7	6
45	Enhanced reactivity of copper complex-based reactive materials via mechanical milling. *Combustion and Flame*, **2021**, 233, 111598	5.3	0
44	New coordination complexes-based gas-generating energetic composites. *Combustion and Flame*, **2020**, 219, 478-487	5.3	10
43	Combustion of 3D printed 90 wt% loading reinforced nanothermite. *Combustion and Flame*, **2020**, 215, 86-92	5.3	20
42	Titanium enhanced ignition and combustion of Al/I2O5 mesoparticle composites. *Combustion and Flame*, **2020**, 212, 245-251	5.3	10
41	Ignition and combustion analysis of direct write fabricated aluminum/metal oxide/PVDF films. *Combustion and Flame*, **2020**, 211, 260-269	5.3	21
40	Silver ferrite: a superior oxidizer for thermite-driven biocidal nanoenergetic materials.. *RSC Advances*, **2019**, 9, 1831-1840	3.7	5
39	Robust Superhydrophobic Sepiolite-Coated Polyurethane Sponge for Highly Efficient and Recyclable Oil Absorption. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 5560-5567	8.3	58
38	Direct Writing of a 90 wt% Particle Loading Nanothermite. *Advanced Materials*, **2019**, 31, e1806575	24	32
37	Architecture Can Significantly Alter the Energy Release Rate from Nanocomposite Energetics. *ACS Applied Polymer Materials*, **2019**, 1, 982-989	4.3	21
36	Adsorption and Destruction of the G-Series Nerve Agent Simulant Dimethyl Methylphosphonate on Zinc Oxide. *ACS Catalysis*, **2019**, 9, 902-911	13.1	33
35	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	5.3	65
34	Performance of iodine oxides/iodic acids as oxidizers in thermite systems. *Combustion and Flame*, **2018**, 191, 335-342	5.3	22

33	Carbon addition lowers initiation and iodine release temperatures from iodine oxide-based biocidal energetic materials. *Carbon*, **2018**, 130, 410-415	10.4	12
32	Growth of Sub-5 nm Metal Nanoclusters in Polymer Melt Aerosol Droplets. *Langmuir*, **2018**, 34, 585-594	4	10
31	One-step solvent-free mechanochemical synthesis of metal iodate fine powders. *Powder Technology*, **2018**, 324, 62-68	5.2	9
30	Boron ignition and combustion with doped Bi2O3: Bond energy/oxygen vacancy relationships. *Combustion and Flame*, **2018**, 197, 127-133	5.3	21
29	Mesoporous Silica Spheres Incorporated Aluminum/Poly (Vinylidene Fluoride) for Enhanced Burning Propellants. *Advanced Engineering Materials*, **2018**, 20, 1700547	3.5	22
28	Aerosol synthesis of phase pure iodine/iodic biocide microparticles. *Journal of Materials Research*, **2017**, 32, 890-896	2.5	23
27	Doped Perovskites To Evaluate the Relationship between Fuel–Oxidizer Thermite Ignition and Bond Energy, Electronegativity, and Oxygen Vacancy. *Journal of Physical Chemistry C*, **2017**, 121, 147-152	3.8	16
26	Crystal structure of a new polymorph of iodic acid, HIO3, from powder diffraction. *Powder Diffraction*, **2017**, 32, 261-264	1.8	5
25	Investigating the oxidation mechanism of tantalum nanoparticles at high heating rates. *Journal of Applied Physics*, **2017**, 122, 245901	2.5	7
24	Probing the Reaction Mechanism of Aluminum/Poly(vinylidene fluoride) Composites. *Journal of Physical Chemistry B*, **2016**, 120, 5534-42	3.4	77
23	Self-Assembly Method To Fabricate Reduced Graphene Oxide Aerogels Loaded with Nickel Hydroxyl Nanoparticles and Their Excellent Properties in Absorbing and Supercapacitors. *Industrial & Engineering Chemistry Research*, **2016**, 55, 6553-6562	3.9	8
22	On-the-fly green generation and dispersion of AgI nanoparticles for cloud seeding nuclei. *Journal of Nanoparticle Research*, **2016**, 18, 1	2.3	7
21	Fabrication of graphene oxide aerogels loaded with catalytic AuPd nanoparticles. *Materials Research Bulletin*, **2015**, 63, 248-252	5.1	18
20	Magnetic bimetallic nanoparticles supported reduced graphene oxide nanocomposite: Fabrication, characterization and catalytic capability. *Journal of Alloys and Compounds*, **2015**, 628, 364-371	5.7	12
19	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. *Journal of Power Sources*, **2015**, 288, 160-167	8.9	56
18	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	2.3	9
17	Porous graphene oxide/carboxymethyl cellulose monoliths, with high metal ion adsorption. *Carbohydrate Polymers*, **2014**, 101, 392-400	10.3	151
16	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	3.7	8

15	Polyacrylamide grafting of modified graphene oxides by in situ free radical polymerization. *Materials Research Bulletin*, **2014**, 60, 576-583	5.1	12
14	Factors that affect the stability, type and morphology of Pickering emulsion stabilized by silver nanoparticles/graphene oxide nanocomposites. *Materials Research Bulletin*, **2014**, 60, 118-129	5.1	46
13	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	8.9	42
12	Biodegradable amylose films reinforced by graphene oxide and polyvinyl alcohol. *Materials Chemistry and Physics*, **2013**, 142, 1-11	4.4	23
11	Cost-effective reduced graphene oxide-coated polyurethane sponge as a highly efficient and reusable oil-absorbent. *ACS Applied Materials & Interfaces*, **2013**, 5, 10018-26	9.5	349
10	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	13	68
9	Platinum nano-catalysts deposited on reduced graphene oxides for alcohol oxidation. *Electrochimica Acta*, **2013**, 111, 614-620	6.7	27
8	Graphene oxide supported Au-Ag alloy nanoparticles with different shapes and their high catalytic activities. *Nanotechnology*, **2013**, 24, 125301	3.4	42
7	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	13	162
6	Fabrication of graphene oxide decorated with AuAg alloy nanoparticles and its superior catalytic performance for the reduction of 4-nitrophenol. *Journal of Materials Chemistry A*, **2013**, 1, 7384	13	109
5	A new rapid chemical route to prepare reduced graphene oxide using copper metal nanoparticles. *Nanotechnology*, **2013**, 24, 215604	3.4	26
4	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	12.8	181
3	Grafting of graphene oxide with poly(sodium 4-styrenesulfonate) by atom transfer radical polymerization. *Materials Chemistry and Physics*, **2013**, 138, 434-439	4.4	17
2	Graphene oxide reduced and modified by soft nanoparticles and its catalysis of the Knoevenagel condensation. *Journal of Materials Chemistry*, **2012**, 22, 4772		115
1	Actuator materials based on graphene oxide/polyacrylamide composite hydrogels prepared by in situ polymerization. *Soft Matter*, **2011**, 7, 7231	3.6	152