

Tao Wu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6600165/publications.pdf>

Version: 2024-02-01

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	Stress proteins, nonribosomal peptide synthetases, and polyketide synthases regulate carbon sources-mediated bio-demulsifying mechanisms of nitrate-reducing bacterium <i>Gordonia</i> sp. TD-4. <i>Journal of Hazardous Materials</i> , 2022, 422, 126900.	12.4	7
2	Influence of titanium addition on performance of boron-based thermites. <i>Chemical Engineering Journal</i> , 2022, 438, 134837.	12.7	14
3	Engineered Porosity-Induced Burn Rate Enhancement in Dense Al/CuO Nanothermites. <i>ACS Applied Energy Materials</i> , 2022, 5, 3189-3198.	5.1	8
4	A fast and efficient method for the efficient recovery of crude oil from spent hydrodesulphurization catalyst. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 642, 128650.	4.7	2
5	Effects of Unidirection/Bidirection Torsional Thermomechanical Processes on Grain Boundary Characteristics and Plasticity of Pure Nickel. <i>Materials</i> , 2022, 15, 236.	2.9	0
6	Bio-augmentation with dissimilatory nitrate reduction to ammonium (DNRA) driven sulfide-oxidizing bacteria enhances the durability of nitrate-mediated souring control. <i>Water Research</i> , 2022, 219, 118556.	11.3	7
7	Effect of Process Parameters on the Properties of Direct Written Gas-Generating Reactive Layers. <i>ACS Applied Polymer Materials</i> , 2021, 3, 3972-3980.	4.4	10
8	Efficient treatment of crude oil-contaminated hydrodesulphurization catalyst by using surfactant/solvent mixture. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105890.	6.7	8
9	Enhanced reactivity of copper complex-based reactive materials via mechanical milling. <i>Combustion and Flame</i> , 2021, 233, 111598.	5.2	8
10	A Robust Superhydrophobic Polyurethane Sponge Loaded with Multi-Walled Carbon Nanotubes for Efficient and Selective Oil-Water Separation. <i>Nanomaterials</i> , 2021, 11, 3344.	4.1	13
11	Ignition and combustion analysis of direct write fabricated aluminum/metal oxide/PVDF films. <i>Combustion and Flame</i> , 2020, 211, 260-269.	5.2	39
12	Titanium enhanced ignition and combustion of Al/Al ₂ O ₃ mesoparticle composites. <i>Combustion and Flame</i> , 2020, 212, 245-251.	5.2	37
13	Highly efficient treatment of oily wastewater using magnetic carbon nanotubes/layered double hydroxides composites. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 586, 124187.	4.7	28
14	Efficient Removal of Bisphenol A Using Nitrogen-Doped Graphene-Like Plates from Green Petroleum Coke. <i>Molecules</i> , 2020, 25, 3543.	3.8	4
15	Superwetting TiO ₂ -decorated single-walled carbon nanotube composite membrane for highly efficient oil-in-water emulsion separation. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 2054-2063.	2.7	6
16	New coordination complexes-based gas-generating energetic composites. <i>Combustion and Flame</i> , 2020, 219, 478-487.	5.2	31
17	Combustion of 3D printed 90Åwt% loading reinforced nanothermite. <i>Combustion and Flame</i> , 2020, 215, 86-92.	5.2	39
18	Utilization Phase Transition Component Method to Prepare Specially Functionalized Nanoemulsion by Adding Resveratrol/Phenethyl Resorcinol Mixed Active Components and Application in Free Radicals Removal. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 7769-7774.	0.9	1

#	ARTICLE	IF	CITATIONS
19	Structure design and effects of conical gear roller on restraining rabbit ear defects during gear rolling. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 1621-1631.	3.0	5
20	Silver ferrite: a superior oxidizer for thermite-driven biocidal nanoenergetic materials. <i>RSC Advances</i> , 2019, 9, 1831-1840.	3.6	13
21	Robust Superhydrophobic Sepiolite-Coated Polyurethane Sponge for Highly Efficient and Recyclable Oil Absorption. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5560-5567.	6.7	87
22	Direct Writing of a 90 wt% Particle Loading Nanothermite. <i>Advanced Materials</i> , 2019, 31, e1806575.	21.0	63
23	Architecture Can Significantly Alter the Energy Release Rate from Nanocomposite Energetics. <i>ACS Applied Polymer Materials</i> , 2019, 1, 982-989.	4.4	36
24	Adsorption and Destruction of the G-Series Nerve Agent Simulant Dimethyl Methylphosphonate on Zinc Oxide. <i>ACS Catalysis</i> , 2019, 9, 902-911.	11.2	54
25	Comparison study of the ignition and combustion characteristics of directly-written Al/PVDF, Al/Viton and Al/THV composites. <i>Combustion and Flame</i> , 2019, 201, 181-186.	5.2	127
26	Efficient remediation of crude oil-contaminated soil using a solvent/surfactant system. <i>RSC Advances</i> , 2019, 9, 2402-2411.	3.6	53
27	Effective removal of emulsified oil from oily wastewater using surfactant-modified sepiolite. <i>Applied Clay Science</i> , 2018, 157, 227-236.	5.2	56
28	Rapid removal and recovery of emulsified oil from ASP produced water using in situ formed magnesium hydroxide. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 539-548.	2.4	13
29	Performance of iodine oxides/iodic acids as oxidizers in thermite systems. <i>Combustion and Flame</i> , 2018, 191, 335-342.	5.2	28
30	Carbon addition lowers initiation and iodine release temperatures from iodine oxide-based biocidal energetic materials. <i>Carbon</i> , 2018, 130, 410-415.	10.3	19
31	Growth of Sub-5 nm Metal Nanoclusters in Polymer Melt Aerosol Droplets. <i>Langmuir</i> , 2018, 34, 585-594.	3.5	17
32	Effect of process factors on the rabbit ear based on numerical simulation and experimental study in gear rolling. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 94, 4055-4064.	3.0	9
33	One-step solvent-free mechanochemical synthesis of metal iodate fine powders. <i>Powder Technology</i> , 2018, 324, 62-68.	4.2	15
34	Mesoporous Silica Spheres Incorporated Aluminum/Poly (Vinylidene Fluoride) for Enhanced Burning Propellants. <i>Advanced Engineering Materials</i> , 2018, 20, 1700547.	3.5	34
35	Fabrication of Magnetite-Graphene Oxide/MgAl-Layered Double Hydroxide Composites for Efficient Removal of Emulsified Oils from Various Oil-in-Water Emulsions. <i>Journal of Chemical & Engineering Data</i> , 2018, , .	1.9	4
36	Fabrication of chitosan/magnetite-graphene oxide composites as a novel bioadsorbent for adsorption and detoxification of Cr(VI) from aqueous solution. <i>Scientific Reports</i> , 2018, 8, 15397.	3.3	41

#	ARTICLE	IF	CITATIONS
37	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
38	Boron ignition and combustion with doped $\hat{\Gamma}$ -Bi ₂ O ₃ : Bond energy/oxygen vacancy relationships. Combustion and Flame, 2018, 197, 127-133.	5.2	48
39	Aggregation and deposition of in situ formed colloidal particles in the presence of polyelectrolytes. Soft Matter, 2017, 13, 1539-1547.	2.7	5
40	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
41	Aerosol synthesis of phase pure iodine/iodic biocide microparticles. Journal of Materials Research, 2017, 32, 890-896.	2.6	28
42	Combined effects of polymer/surfactant mixtures on dynamic interfacial properties. Asia-Pacific Journal of Chemical Engineering, 2017, 12, 489-501.	1.5	5
43	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.	3.1	21
44	A superhydrophilic and underwater superoleophobic chitosan "TiO ₂ composite membrane for fast oil-in-water emulsion separation. RSC Advances, 2017, 7, 41838-41846.	3.6	63
45	Crystal structure of a new polymorph of iodic acid, $\hat{\Gamma}$ -HIO ₃ , from powder diffraction. Powder Diffraction, 2017, 32, 261-264.	0.2	5
46	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
47	Investigating the oxidation mechanism of tantalum nanoparticles at high heating rates. Journal of Applied Physics, 2017, 122, 245901.	2.5	9
48	Investigation into the adsorption of partially hydrolyzed polyacrylamide onto in situ formed magnesium hydroxide particles. RSC Advances, 2016, 6, 31092-31100.	3.6	21
49	On-the-fly green generation and dispersion of AgI nanoparticles for cloud seeding nuclei. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	9
50	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
51	Probing the Reaction Mechanism of Aluminum/Poly(vinylidene fluoride) Composites. Journal of Physical Chemistry B, 2016, 120, 5534-5542.	2.6	145
52	Fabrication of graphene oxide aerogels loaded with catalytic AuPd nanoparticles. Materials Research Bulletin, 2015, 63, 248-252.	5.2	18
53	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
54	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.	7.8	62

#	ARTICLE	IF	CITATIONS
55	Adsorption behavior and mechanism of chlorophenols onto organoclays in aqueous solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 484, 118-129.	4.7	102
56	Reduction of Graphene Oxide with Ni Powder for the Preparation of Ni(OH) ₂ /Reduced Graphene Oxide Hybrid Electrodes for Supercapacitors. <i>Science of Advanced Materials</i> , 2015, 7, 269-277.	0.7	9
57	Porous graphene oxide/carboxymethyl cellulose monoliths, with high metal ion adsorption. <i>Carbohydrate Polymers</i> , 2014, 101, 392-400.	10.2	173
58	A polyaniline/graphene nanocomposite prepared by in situ polymerization of polyaniline onto polyanion grafted graphene and its electrochemical properties. <i>RSC Advances</i> , 2014, 4, 7673-7681.	3.6	8
59	Polyacrylamide grafting of modified graphene oxides by in situ free radical polymerization. <i>Materials Research Bulletin</i> , 2014, 60, 576-583.	5.2	15
60	Analysis and porthole die design for a multi-hole extrusion process of a hollow, thin-walled aluminum profile. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 74, 383-392.	3.0	43
61	Redox reaction between graphene oxide and In powder to prepare In ₂ O ₃ /reduced graphene oxide hybrids for supercapacitors. <i>Journal of Power Sources</i> , 2014, 266, 282-290.	7.8	47
62	Reduced Graphene Oxide Produced by a Green Reduction Method and Its Application in Cu ²⁺ Adsorption for Catalyzing the Reduction of 4-Nitrophenol. <i>Science of Advanced Materials</i> , 2014, 6, 1869-1881.	0.7	0
63	Biodegradable amylose films reinforced by graphene oxide and polyvinyl alcohol. <i>Materials Chemistry and Physics</i> , 2013, 142, 1-11.	4.0	26
64	Cost-Effective Reduced Graphene Oxide-Coated Polyurethane Sponge As a Highly Efficient and Reusable Oil-Absorbent. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10018-10026.	8.0	404
65	Reduction of graphene oxide with L-lysine to prepare reduced graphene oxide stabilized with polysaccharide polyelectrolyte. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2192-2201.	10.3	78
66	Platinum nano-catalysts deposited on reduced graphene oxides for alcohol oxidation. <i>Electrochimica Acta</i> , 2013, 111, 614-620.	5.2	27
67	Graphene oxide supported Au-Ag alloy nanoparticles with different shapes and their high catalytic activities. <i>Nanotechnology</i> , 2013, 24, 125301.	2.6	43
68	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> , 2013, 1, 7612.	10.3	184
69	Fabrication of graphene oxide decorated with Au-Ag alloy nanoparticles and its superior catalytic performance for the reduction of 4-nitrophenol. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7384.	10.3	126
70	A new rapid chemical route to prepare reduced graphene oxide using copper metal nanoparticles. <i>Nanotechnology</i> , 2013, 24, 215604.	2.6	27
71	An environmentally friendly method for the fabrication of reduced graphene oxide foam with a super oil absorption capacity. <i>Journal of Hazardous Materials</i> , 2013, 260, 796-805.	12.4	204
72	Grafting of graphene oxide with poly(sodium 4-styrenesulfonate) by atom transfer radical polymerization. <i>Materials Chemistry and Physics</i> , 2013, 138, 434-439.	4.0	19

#	ARTICLE	IF	CITATIONS
73	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
74	Removal of ampicillin sodium in solution using activated carbon adsorption integrated with H ₂ O ₂ oxidation. Journal of Chemical Technology and Biotechnology, 2012, 87, 623-628.	3.2	25
75	Actuator materials based on graphene oxide/polyacrylamide composite hydrogels prepared by in situ polymerization. Soft Matter, 2011, 7, 7231.	2.7	165
76	Interaction of morin with 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
77	Efficient remediation of crude oil-contaminated soil using a solvent/surfactant system. , 0, .		1