

Yan-Hong Chao

List of Publications by Year in descending order

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80
papers

4,671
citations

71061

41
h-index

98753

67
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80
all docs

80
docs citations

80
times ranked

3453
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled Gas Exfoliation of Boron Nitride into Few-layered Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10766-10770.	7.2	271
2	Application of graphene-like layered molybdenum disulfide and its excellent adsorption behavior for doxycycline antibiotic. <i>Chemical Engineering Journal</i> , 2014, 243, 60-67.	6.6	207
3	A template-free solvent-mediated synthesis of high surface area boron nitride nanosheets for aerobic oxidative desulfurization. <i>Chemical Communications</i> , 2016, 52, 144-147.	2.2	206
4	Pyridinium-based temperature-responsive magnetic ionic liquid for oxidative desulfurization of fuels. <i>Chemical Engineering Journal</i> , 2013, 229, 250-256.	6.6	174
5	Few-layered graphene-like boron nitride induced a remarkable adsorption capacity for dibenzothiophene in fuels. <i>Green Chemistry</i> , 2015, 17, 1647-1656.	4.6	167
6	Graphene-Analogue Hexagonal BN Supported with Tungsten-based Ionic Liquid for Oxidative Desulfurization of Fuels. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 186-194.	3.2	167
7	Preparation of TiO ₂ /g-C ₃ N ₄ composites and their application in photocatalytic oxidative desulfurization. <i>Ceramics International</i> , 2014, 40, 11627-11635.	2.3	142
8	Taming electronic properties of boron nitride nanosheets as metal-free catalysts for aerobic oxidative desulfurization of fuels. <i>Green Chemistry</i> , 2018, 20, 4453-4460.	4.6	128
9	Carbon-doped porous boron nitride: metal-free adsorbents for sulfur removal from fuels. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12738-12747.	5.2	126
10	Phosphotungstic Acid Immobilized on Ionic Liquid-Modified SBA-15: Efficient Hydrophobic Heterogeneous Catalyst for Oxidative Desulfurization in Fuel. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 19895-19904.	1.8	118
11	Ionic liquid extraction and catalytic oxidative desulfurization of fuels using dialkylpiperidinium tetrachloroferrates catalysts. <i>Chemical Engineering Journal</i> , 2014, 250, 48-54.	6.6	116
12	Copper nanoparticles advance electron mobility of graphene-like boron nitride for enhanced aerobic oxidative desulfurization. <i>Chemical Engineering Journal</i> , 2016, 301, 123-131.	6.6	115
13	Catalytic kinetics of oxidative desulfurization with surfactant-type polyoxometalate-based ionic liquids. <i>Fuel Processing Technology</i> , 2013, 106, 70-76.	3.7	106
14	Decavanadates anchored into micropores of graphene-like boron nitride: Efficient heterogeneous catalysts for aerobic oxidative desulfurization. <i>Fuel</i> , 2018, 230, 104-112.	3.4	97
15	Boron Nitride Mesoporous Nanowires with Doped Oxygen Atoms for the Remarkable Adsorption Desulfurization Performance from Fuels. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4457-4464.	3.2	95
16	Oxidative desulfurization of fuel catalyzed by metal-based surfactant-type ionic liquids. <i>Journal of Molecular Catalysis A</i> , 2011, 347, 8-14.	4.8	92
17	Engineering a tandem leaching system for the highly selective recycling of valuable metals from spent Li-ion batteries. <i>Green Chemistry</i> , 2021, 23, 2177-2184.	4.6	91
18	Taming wettability of lithium ion sieve via different TiO ₂ precursors for effective Li recovery from aqueous lithium resources. <i>Chemical Engineering Journal</i> , 2020, 392, 123731.	6.6	88

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19	Hexagonal boron nitride: A metal-free catalyst for deep oxidative desulfurization of fuel oils. <i>Green Energy and Environment</i> , 2020, 5, 166-172.	4.7	83
20	Fenton-like ionic liquids/H ₂ O ₂ system: one-pot extraction combined with oxidation desulfurization of fuel. <i>RSC Advances</i> , 2012, 2, 658-664.	1.7	81
21	A large number of low coordinated atoms in boron nitride for outstanding adsorptive desulfurization performance. <i>Green Chemistry</i> , 2016, 18, 3040-3047.	4.6	79
22	Synthesis of boron nitride nanosheets with N-defects for efficient tetracycline antibiotics adsorptive removal. <i>Chemical Engineering Journal</i> , 2020, 387, 124138.	6.6	75
23	Silver Nanoparticle-Decorated Boron Nitride with Tunable Electronic Properties for Enhancement of Adsorption Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4948-4957.	3.2	71
24	Controllable Fabrication of Tungsten Oxide Nanoparticles Confined in Graphene-Analogous Boron Nitride as an Efficient Desulfurization Catalyst. <i>Chemistry - A European Journal</i> , 2015, 21, 15421-15427.	1.7	63
25	Tailoring hydrophobic deep eutectic solvent for selective lithium recovery from the mother liquor of Li ₂ CO ₃ . <i>Chemical Engineering Journal</i> , 2021, 420, 127648.	6.6	63
26	Photocatalytic oxidative desulfurization of dibenzothiophene catalyzed by amorphous TiO ₂ in ionic liquid. <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 211-217.	1.2	62
27	Mechanism and optimization for oxidative desulfurization of fuels catalyzed by Fenton-like catalysts in hydrophobic ionic liquid. <i>Journal of Molecular Catalysis A</i> , 2014, 382, 8-14.	4.8	62
28	Graphene-Analogues Boron Nitride Nanosheets Confining Ionic Liquids: A High-Performance Quasi-Liquid Solid Electrolyte. <i>Small</i> , 2016, 12, 3535-3542.	5.2	62
29	Tailoring N-Terminated Defective Edges of Porous Boron Nitride for Enhanced Aerobic Catalysis. <i>Small</i> , 2017, 13, 1701857.	5.2	60
30	Hierarchical porous boron nitride with boron vacancies for improved adsorption performance to antibiotics. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 154-163.	5.0	60
31	High-performance adsorptive desulfurization by ternary hybrid boron carbon nitride aerogel. <i>AIChE Journal</i> , 2021, 67, e17280.	1.8	58
32	Silicotungstic acid immobilized on lamellar hexagonal boron nitride for oxidative desulfurization of fuel components. <i>Fuel</i> , 2018, 213, 12-21.	3.4	55
33	A Novel Reaction-Controlled Foam-Type Polyoxometalate Catalyst for Deep Oxidative Desulfurization of Fuels. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 17399-17406.	1.8	54
34	Green aqueous biphasic systems containing deep eutectic solvents and sodium salts for the extraction of protein. <i>RSC Advances</i> , 2017, 7, 49361-49367.	1.7	53
35	Deep oxidative desulfurization with a microporous hexagonal boron nitride confining phosphotungstic acid catalyst. <i>Journal of Molecular Catalysis A</i> , 2016, 423, 207-215.	4.8	51
36	Metal-free boron nitride adsorbent for ultra-deep desulfurization. <i>AIChE Journal</i> , 2017, 63, 3463-3469.	1.8	51

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37	3D-printing of integrated spheres as a superior support of phosphotungstic acid for deep oxidative desulfurization of fuel. <i>Journal of Energy Chemistry</i> , 2020, 45, 91-97.	7.1	50
38	Sustainable and Convenient Recovery of Valuable Metals from Spent Li-Ion Batteries by a One-Pot Extraction Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 13851-13861.	3.2	49
39	Design of Lewis Acid Centers in Bundlelike Boron Nitride for Boosting Adsorptive Desulfurization Performance. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 13303-13312.	1.8	47
40	Macroporous polystyrene resins as adsorbents for the removal of tetracycline antibiotics from an aquatic environment. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	44
41	Controlled Gas Exfoliation of Boron Nitride into Few-layered Nanosheets. <i>Angewandte Chemie</i> , 2016, 128, 10924-10928.	1.6	44
42	Oxidation of Aromatic Sulfur Compounds Catalyzed by Organic Hexacyanoferrates in Ionic Liquids with a Low Concentration of H_2O_2 as an Oxidant. <i>Energy & Fuels</i> , 2014, 28, 2754-2760.	2.5	43
43	Graphene-like BN@SiO ₂ nanocomposites as efficient sorbents for solid-phase extraction of Rhodamine B and Rhodamine 6G from food samples. <i>Food Chemistry</i> , 2020, 320, 126666.	4.2	40
44	Amorphous TiO ₂ -Derived Large-Capacity Lithium Ion Sieve for Lithium Recovery. <i>Chemical Engineering and Technology</i> , 2020, 43, 1784-1791.	0.9	38
45	Tuning electronic properties of boron nitride nanoplate via doping carbon for enhanced adsorptive performance. <i>Journal of Colloid and Interface Science</i> , 2017, 508, 121-128.	5.0	37
46	Development of novel graphene-like layered hexagonal boron nitride for adsorptive removal of antibiotic gatifloxacin from aqueous solution. <i>Green Chemistry Letters and Reviews</i> , 2014, 7, 330-336.	2.1	35
47	Gas-assisted exfoliation of boron nitride nanosheets enhancing adsorption performance. <i>Ceramics International</i> , 2019, 45, 18838-18843.	2.3	35
48	Macroscopic 3D boron nitride monolith for efficient adsorptive desulfurization. <i>Fuel</i> , 2020, 261, 116448.	3.4	34
49	Highly selective separation of lithium with hierarchical porous lithium-ion sieve microsphere derived from MXene. <i>Desalination</i> , 2022, 537, 115847.	4.0	32
50	Commercial Diatomite for Adsorption of Tetracycline Antibiotic from Aqueous Solution. <i>Separation Science and Technology</i> , 2014, 49, 2221-2227.	1.3	30
51	Application of a self-emulsifiable task-specific ionic liquid in oxidative desulfurization of fuels. <i>RSC Advances</i> , 2013, 3, 3893.	1.7	27
52	Graphene-like boron nitride anchored Brønsted acid ionic liquids as metal-free catalyst for advanced oxidation process. <i>Molecular Catalysis</i> , 2017, 436, 53-59.	1.0	27
53	Graphene-analogue molybdenum disulfide for adsorptive removal of tetracycline from aqueous solution: equilibrium, kinetic, and thermodynamic studies. <i>Environmental Progress and Sustainable Energy</i> , 2017, 36, 815-821.	1.3	27
54	Phosphomolybdic acid immobilized on ionic liquid-modified hexagonal boron nitride for oxidative desulfurization of fuel. <i>RSC Advances</i> , 2017, 7, 54266-54276.	1.7	26

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55	Advanced Overlap Adsorption Model of Few-Layer Boron Nitride for Aromatic Organic Pollutants. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 4045-4051.	1.8	26
56	Enhanced adsorption performance for antibiotics by alcohol-solvent mediated boron nitride nanosheets. <i>Rare Metals</i> , 2022, 41, 342-352.	3.6	24
57	Phosphomolybdic acid encapsulated in ZIF-8-based porous ionic liquids for reactive extraction desulfurization of fuels. <i>Inorganic Chemistry Frontiers</i> , 2021, 9, 165-178.	3.0	24
58	Gas-exfoliated porous monolayer boron nitride for enhanced aerobic oxidative desulfurization performance. <i>Nanotechnology</i> , 2018, 29, 025604.	1.3	23
59	Heterogenization of homogenous oxidative desulfurization reaction on graphene-like boron nitride with a peroxomolybdate ionic liquid. <i>RSC Advances</i> , 2016, 6, 140-147.	1.7	22
60	Unraveling the mechanism of CO ₂ capture and separation by porous liquids. <i>RSC Advances</i> , 2020, 10, 42706-42717.	1.7	22
61	The interaction nature between hollow silica-based porous ionic liquids and CO ₂ : A DFT study. <i>Journal of Molecular Graphics and Modelling</i> , 2020, 100, 107694.	1.3	21
62	Three-dimensional Ce-MOFs-derived Ce@C-BN nanobundles for adsorptive desulfurization. <i>Applied Surface Science</i> , 2022, 590, 152926.	3.1	19
63	Activated boron nitride ultrathin nanosheets for enhanced adsorption desulfurization performance. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 93, 245-252.	2.7	18
64	Construction of truncated-octahedral LiMn ₂ O ₄ for battery-like electrochemical lithium recovery from brine. <i>Green Energy and Environment</i> , 2023, 8, 1081-1090.	4.7	18
65	Controllable synthesis of functionalized ordered mesoporous silica by metal-based ionic liquids, and their effective adsorption of dibenzothiophene. <i>RSC Advances</i> , 2014, 4, 40588-40594.	1.7	15
66	Preparation of metal ions impregnated polystyrene resins for adsorption of antibiotics contaminants in aquatic environment. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	14
67	Metal-based ionic liquid assisted synthesis of highly dispersed mesoporous Fe(III)/SiO ₂ for enhanced adsorption of antibiotics. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 3815-3824.	1.6	14
68	Binary molten salts mediated defect engineering on hexagonal boron nitride catalyst with long-term stability for aerobic oxidative desulfurization. <i>Applied Surface Science</i> , 2021, 558, 149724.	3.1	13
69	Synergistic Effect of Au-Cu Alloy Nanoparticles on TiO ₂ for Efficient Aerobic Catalytic Oxidative Desulfurization. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 6292-6300.	1.8	12
70	Engineering Dual Oxygen Simultaneously Modified Boron Nitride for Boosting Adsorptive Desulfurization of Fuel. <i>Engineering</i> , 2022, 14, 86-93.	3.2	11
71	Construction of porous disc-like lithium manganate for rapid and selective electrochemical lithium extraction from brine. <i>Chinese Journal of Chemical Engineering</i> , 2023, 54, 316-322.	1.7	11
72	Partitioning Behavior of Papain in Ionic Liquids-Based Aqueous Two-Phase Systems. <i>Journal of Chemistry</i> , 2013, 2013, 1-6.	0.9	10

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73	Synthesis of porous carbon <i>via</i> a waste tire leavening strategy for adsorptive desulfurization. RSC Advances, 2019, 9, 30575-30580.	1.7	8
74	Heteroatom Bridging Strategy in Carbon-Based Catalysts for Enhanced Oxidative Desulfurization Performance. Inorganic Chemistry, 2022, 61, 633-642.	1.9	8
75	Engineering 3D-printed aqueous colloidal ceramic slurry for direct ink writing. Green Chemical Engineering, 2023, 4, 73-80.	3.3	8
76	N-hydroxyphthalimide anchored on hexagonal boron nitride as a metal-free heterogeneous catalyst for deep oxidative desulfurization. Petroleum Science, 2022, 19, 1382-1389.	2.4	6
77	Partitioning behavior of tetracycline in hydrophobic ionic liquids two-phase systems. Separation Science and Technology, 2015, , 150527095459001.	1.3	3
78	Controllable electronic effect via deep eutectic solvents modification for boosted aerobic oxidative desulfurization. Molecular Catalysis, 2021, 512, 111757.	1.0	3
79	Sustainable preparation of graphene-analogue boron nitride by ball-milling for adsorption of organic pollutants. Chinese Journal of Chemical Engineering, 2022, 42, 73-81.	1.7	3
80	Catalytic oxidation of pentanethiol on basic nitrogen doped carbon hollow spheres derived from waste tires. Petroleum Science, 2022, 19, 1888-1896.	2.4	1