

Wen-Shuai Zhu

List of Publications by Year in descending order

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250
papers

13,305
citations

14614

66
h-index

32761

100
g-index

250
all docs

250
docs citations

250
times ranked

7551
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Defect Engineering in 2D Nanomaterials for Photocatalysis. <i>Advanced Functional Materials</i> , 2018, 28, 1801983.	7.8	472
2	Controlled Gas Exfoliation of Boron Nitride into Few-Layered Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10766-10770.	7.2	271
3	Deep oxidative desulfurization of dibenzothiophene with POM-based hybrid materials in ionic liquids. <i>Chemical Engineering Journal</i> , 2013, 220, 328-336.	6.6	240
4	One-pot extraction combined with metal-free photochemical aerobic oxidative desulfurization in deep eutectic solvent. <i>Green Chemistry</i> , 2015, 17, 2464-2472.	4.6	232
5	Commercially available molybdc compound-catalyzed ultra-deep desulfurization of fuels in ionic liquids. <i>Green Chemistry</i> , 2008, 10, 641.	4.6	214
6	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
7	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
8	Taming interfacial electronic properties of platinum nanoparticles on vacancy-abundant boron nitride nanosheets for enhanced catalysis. <i>Nature Communications</i> , 2017, 8, 15291.	5.8	200
9	Oxidative Desulfurization of Fuels Catalyzed by Peroxotungsten and Peroxomolybdenum Complexes in Ionic Liquids. <i>Energy & Fuels</i> , 2007, 21, 2514-2516.	2.5	195
10	The selectivity for sulfur removal from oils: An insight from conceptual density functional theory. <i>AIChE Journal</i> , 2016, 62, 2087-2100.	1.8	192
11	Polyoxometalate-based ionic liquids as catalysts for deep desulfurization of fuels. <i>Fuel Processing Technology</i> , 2011, 92, 1842-1848.	3.7	178
12	Pyridinium-based temperature-responsive magnetic ionic liquid for oxidative desulfurization of fuels. <i>Chemical Engineering Journal</i> , 2013, 229, 250-256.	6.6	174
13	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
14	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
15	Deep oxidative desulfurization of fuels in redox ionic liquids based on iron chloride. <i>Green Chemistry</i> , 2009, 11, 810.	4.6	152
16	Boric acid-based ternary deep eutectic solvent for extraction and oxidative desulfurization of diesel fuel. <i>Green Chemistry</i> , 2019, 21, 3074-3080.	4.6	151
17	Heteropolyanion-Based Ionic Liquid for Deep Desulfurization of Fuels in Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 8998-9003.	1.8	144
18	Tuning the electrophilicity of vanadium-substituted polyoxometalate based ionic liquids for high-efficiency aerobic oxidative desulfurization. <i>Applied Catalysis B: Environmental</i> , 2020, 271, 118936.	10.8	135

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19	Novel heterogeneous iron-based redox ionic liquid supported on SBA-15 for deep oxidative desulfurization of fuels. <i>Chemical Engineering Journal</i> , 2015, 266, 213-221.	6.6	130
20	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
21	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
22	Synergistic effect of dual Brønsted acidic deep eutectic solvents for oxidative desulfurization of diesel fuel. <i>Chemical Engineering Journal</i> , 2020, 394, 124831.	6.6	123
23	Space-Confinement Shell Construction of Fe ₃ O ₄ Nanoparticles Inside N-Doped Hollow Mesoporous Carbon Spheres as Bifunctional Electrocatalysts for Long-Term Rechargeable Zinc-Air Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2005834.	7.8	119
24	Deep Oxidative Desulfurization of Fuels Using Peroxophosphomolybdate Catalysts in Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 6890-6895.	1.8	118
25	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
26	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
27	Deep oxidative desulfurization of fuels by Fenton-like reagent in ionic liquids. <i>Green Chemistry</i> , 2009, 11, 1801.	4.6	115
28	Catalytic oxidative desulfurization with a hexatungstate/aqueous H ₂ O ₂ /ionic liquid emulsion system. <i>Green Chemistry</i> , 2011, 13, 1210.	4.6	115
29	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
30	Synthesis of supported SiW ₁₂ O ₄₀ -based ionic liquid catalyst induced solvent-free oxidative deep-desulfurization of fuels. <i>Chemical Engineering Journal</i> , 2016, 288, 608-617.	6.6	113
31	Deep Understanding of Strong Metal Interface Confinement: A Journey of Pd/FeO _x Catalysts. <i>ACS Catalysis</i> , 2020, 10, 8950-8959.	5.5	113
32	Unique Z-scheme carbonized polymer dots/Bi ₄ O ₅ Br ₂ hybrids for efficiently boosting photocatalytic CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2021, 293, 120182.	10.8	110
33	Boosting aerobic oxidative desulfurization performance in fuel oil via strong metal-edge interactions between Pt and h-BN. <i>Chemical Engineering Journal</i> , 2020, 380, 122526.	6.6	108
34	Catalytic kinetics of oxidative desulfurization with surfactant-type polyoxometalate-based ionic liquids. <i>Fuel Processing Technology</i> , 2013, 106, 70-76.	3.7	106
35	Magnetic mesoporous nanospheres supported phosphomolybdate-based ionic liquid for aerobic oxidative desulfurization of fuel. <i>Journal of Colloid and Interface Science</i> , 2019, 534, 239-247.	5.0	106
36	Rapid gas-assisted exfoliation promises V ₂ O ₅ nanosheets for high performance lithium-sulfur batteries. <i>Nano Energy</i> , 2020, 67, 104253.	8.2	106

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37	Vibrational analysis and formation mechanism of typical deep eutectic solvents: An experimental and theoretical study. <i>Journal of Molecular Graphics and Modelling</i> , 2016, 68, 158-175.	1.3	105
38	One-pot synthesis, characterization and desulfurization of functional mesoporous W-MCM-41 from POM-based ionic liquids. <i>Chemical Engineering Journal</i> , 2014, 243, 386-393.	6.6	104
39	Deep Oxidative Desulfurization of Fuel Oils Catalyzed by Decatungstates in the Ionic Liquid of [Bmim]PF ₆ . <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 9034-9039.	1.8	102
40	Biomass willow catkin-derived Co ₃ O ₄ /N-doped hollow hierarchical porous carbon microtubes as an effective tri-functional electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20170-20179.	5.2	102
41	Temperature-responsive ionic liquid extraction and separation of the aromatic sulfur compounds. <i>Fuel</i> , 2015, 140, 590-596.	3.4	100
42	Polyoxometalate-based ionic liquid supported on graphite carbon induced solvent-free ultra-deep oxidative desulfurization of model fuels. <i>Fuel</i> , 2017, 190, 1-9.	3.4	98
43	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
44	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
45	Sacrificing ionic liquid-assisted anchoring of carbonized polymer dots on perovskite-like PbBiO ₂ Br for robust CO ₂ photoreduction. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 551-559.	10.8	91
46	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
47	A DFT Study of the Extractive Desulfurization Mechanism by [BMIM] ⁺ [AlCl ₄] ⁻ Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5995-6009.	1.2	88
48	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
49	Synthesis of metal-based ionic liquid supported catalyst and its application in catalytic oxidative desulfurization of fuels. <i>Fuel</i> , 2014, 136, 358-365.	3.4	87
50	Tuning the Chemical Hardness of Boron Nitride Nanosheets by Doping Carbon for Enhanced Adsorption Capacity. <i>ACS Omega</i> , 2017, 2, 5385-5394.	1.6	86
51	Harnessing strong metal-support interactions via a reverse route. <i>Nature Communications</i> , 2020, 11, 3042.	5.8	84
52	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
53	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
54	Theoretical evidence of charge transfer interaction between SO ₂ and deep eutectic solvents formed by choline chloride and glycerol. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28729-28742.	1.3	80

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55	Synthesis of Ionic-Liquid-Based Deep Eutectic Solvents for Extractive Desulfurization of Fuel. <i>Energy & Fuels</i> , 2016, 30, 8164-8170.	2.5	79
56	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
57	Oxidative Desulfurization of Fuels Catalyzed by Fenton-Like Ionic Liquids at Room Temperature. <i>ChemSusChem</i> , 2011, 4, 399-403.	3.6	78
58	Enhanced Oxygen Activation Achieved by Robust Single Chromium Atom-Derived Catalysts in Aerobic Oxidative Desulfurization. <i>ACS Catalysis</i> , 2022, 12, 8623-8631.	5.5	78
59	Revealing the role of oxygen vacancies in bimetallic PbBiO ₂ Br atomic layers for boosting photocatalytic CO ₂ conversion. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119170.	10.8	77
60	Taming Interfacial Oxygen Vacancies of Amphiphilic Tungsten Oxide for Enhanced Catalysis in Oxidative Desulfurization. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8930-8938.	3.2	75
61	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
62	Dynamically-generated TiO ₂ active site on MXene Ti ₃ C ₂ : Boosting reactive desulfurization. <i>Chemical Engineering Journal</i> , 2021, 416, 129022.	6.6	73
63	Synthesis of mesoporous WO ₃ /TiO ₂ catalyst and its excellent catalytic performance for the oxidation of dibenzothiophene. <i>New Journal of Chemistry</i> , 2017, 41, 569-578.	1.4	72
64	Polyoxometalate-Based Poly(ionic liquid) as a Precursor for Superhydrophobic Magnetic Carbon Composite Catalysts toward Aerobic Oxidative Desulfurization. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15755-15761.	3.2	72
65	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
66	In situ fabrication of hollow silica confined defective molybdenum oxide for enhanced catalytic oxidative desulfurization of diesel fuels. <i>Fuel</i> , 2021, 305, 121470.	3.4	69
67	Insight into the Potassium Poisoning Effect for Selective Catalytic Reduction of NO _x with NH ₃ over Fe/Beta. <i>ACS Catalysis</i> , 2021, 11, 14727-14739.	5.5	69
68	Facile synthesis of amphiphilic polyoxometalate-based ionic liquid supported silica induced efficient performance in oxidative desulfurization. <i>Journal of Molecular Catalysis A</i> , 2015, 406, 23-30.	4.8	66
69	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
70	Oxidative desulfurization of fuels promoted by choline chloride-based deep eutectic solvents. <i>Journal of Molecular Catalysis A</i> , 2016, 424, 261-268.	4.8	63
71	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
72	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

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73	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
74	Tailoring N-terminated Defective Edges of Porous Boron Nitride for Enhanced Aerobic Catalysis. <i>Small</i> , 2017, 13, 1701857.	5.2	60
75	Immobilizing Highly Catalytically Molybdenum Oxide Nanoparticles on Graphene-Analogous BN: Stable Heterogeneous Catalysts with Enhanced Aerobic Oxidative Desulfurization Performance. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 863-871.	1.8	60
76	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
77	Hexagonal boron nitride adsorbent: Synthesis, performance tailoring and applications. <i>Journal of Energy Chemistry</i> , 2020, 40, 99-111.	7.1	59
78	High-performance adsorptive desulfurization by ternary hybrid boron carbon nitride aerogel. <i>AIChE Journal</i> , 2021, 67, e17280.	1.8	58
79	Immobilized fenton-like ionic liquid: Catalytic performance for oxidative desulfurization. <i>AIChE Journal</i> , 2013, 59, 4696-4704.	1.8	57
80	Silicotungstic acid immobilized on lamellar hexagonal boron nitride for oxidative desulfurization of fuel components. <i>Fuel</i> , 2018, 213, 12-21.	3.4	55
81	Rapid capture and efficient removal of low-concentration SO ₂ in simulated flue gas by hypercrosslinked hollow nanotube ionic polymers. <i>Chemical Engineering Journal</i> , 2020, 394, 124859.	6.6	55
82	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
83	A comparative study of the extractive desulfurization mechanism by Cu(II) and Zn-based imidazolium ionic liquids. <i>Green Energy and Environment</i> , 2019, 4, 38-48.	4.7	53
84	A Janus cobalt nanoparticles and molybdenum carbide decorated N-doped carbon for high-performance overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2021, 583, 614-625.	5.0	53
85	Pt nanoparticles encapsulated on V ₂ O ₅ nanosheets carriers as efficient catalysts for promoted aerobic oxidative desulfurization performance. <i>Chinese Journal of Catalysis</i> , 2021, 42, 557-562.	6.9	53
86	Hydrophobic mesoporous silica-supported heteropolyacid induced by ionic liquid as a high efficiency catalyst for the oxidative desulfurization of fuel. <i>RSC Advances</i> , 2015, 5, 16847-16855.	1.7	52
87	Magnetic POM-based mesoporous silica for fast oxidation of aromatic sulfur compounds. <i>Fuel</i> , 2017, 209, 545-551.	3.4	52
88	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
89	A simple and cost-effective extractive desulfurization process with novel deep eutectic solvents. <i>RSC Advances</i> , 2016, 6, 30345-30352.	1.7	51
90	Metal-free boron nitride adsorbent for ultra-deep desulfurization. <i>AIChE Journal</i> , 2017, 63, 3463-3469.	1.8	51

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91	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
92	Preparation of highly dispersed WO ₃ /few layer g-C ₃ N ₄ and its enhancement of catalytic oxidative desulfurization activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 572, 250-258.	2.3	49
93	Progress in electrochemical lithium ion pumping for lithium recovery. <i>Journal of Energy Chemistry</i> , 2021, 59, 431-445.	7.1	49
94	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
95	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
96	Supported ionic liquid [Bmim]FeCl ₄ /Am TiO ₂ as an efficient catalyst for the catalytic oxidative desulfurization of fuels. <i>RSC Advances</i> , 2015, 5, 43528-43536.	1.7	45
97	Molybdenum-containing dendritic mesoporous silica spheres for fast oxidative desulfurization in fuel. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 451-458.	3.0	45
98	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
99	Controlled Gas Exfoliation of Boron Nitride into Few-layered Nanosheets. <i>Angewandte Chemie</i> , 2016, 128, 10924-10928.	1.6	44
100	Synthesis of Guanidinium-Based Poly(ionic liquids) with Nonporosity for Highly Efficient SO ₂ Capture from Flue Gas. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 5984-5991.	1.8	44
101	Oxidation of Aromatic Sulfur Compounds Catalyzed by Organic Hexacyanoferrates in Ionic Liquids with a Low Concentration of H ₂ O ₂ as an Oxidant. <i>Energy & Fuels</i> , 2014, 28, 2754-2760.	2.5	43
102	TiO ₂ microspheres supported polyoxometalate-based ionic liquids induced catalytic oxidative deep-desulfurization. <i>RSC Advances</i> , 2016, 6, 42402-42412.	1.7	43
103	In-situ synthesis strategy for CoM (M = Fe, Ni, Cu) bimetallic nanoparticles decorated N-doped 1D carbon nanotubes/3D porous carbon for electrocatalytic oxygen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152470.	2.8	43
104	In situ confinement growth of peasecod-like N-doped carbon nanotubes encapsulate bimetallic FeCu alloy as a bifunctional oxygen reaction cathode electrocatalyst for sustainable energy batteries. <i>Journal of Alloys and Compounds</i> , 2020, 826, 154152.	2.8	43
105	Lattice-Refined Transition-Metal Oxides via Ball Milling for Boosted Catalytic Oxidation Performance. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36666-36675.	4.0	42
106	O ₂ Activation and Oxidative Dehydrogenation of Propane on Hexagonal Boron Nitride: Mechanism Revisited. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2256-2266.	1.5	42
107	Solvent-free rapid synthesis of porous CeWO _x by a mechanochemical self-assembly strategy for the abatement of NO _x . <i>Journal of Materials Chemistry A</i> , 2020, 8, 6717-6731.	5.2	42
108	Mechanical exfoliation of boron carbide: A metal-free catalyst for aerobic oxidative desulfurization in fuel. <i>Journal of Hazardous Materials</i> , 2020, 391, 122183.	6.5	41

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109	One-pot extraction and aerobic oxidative desulfurization with highly dispersed V ₂ O ₅ /SBA-15 catalyst in ionic liquids. RSC Advances, 2017, 7, 39383-39390.	1.7	40
110	Graphene-like BN@SiO ₂ nanocomposites as efficient sorbents for solid-phase extraction of Rhodamine B and Rhodamine 6G from food samples. Food Chemistry, 2020, 320, 126666.	4.2	40
111	BN/ZIF-8 derived carbon hybrid materials for adsorptive desulfurization: Insights into adsorptive property and reaction kinetics. Fuel, 2021, 288, 119685.	3.4	40
112	Few-layer Boron Nitride with Engineered Nitrogen Vacancies for Promoting Conversion of Polysulfide as a Cathode Matrix for Lithium-Sulfur Batteries. Chemistry - A European Journal, 2019, 25, 8112-8117.	1.7	39
113	Scalable and facile synthesis of V ₂ O ₅ nanoparticles via ball milling for improved aerobic oxidative desulfurization. Green Energy and Environment, 2021, 6, 169-175.	4.7	39
114	Ionic liquid-supported 3DOM silica for efficient heterogeneous oxidative desulfurization. Inorganic Chemistry Frontiers, 2018, 5, 2478-2485.	3.0	38
115	Amorphous TiO ₂ -Derived Large-Capacity Lithium Ion Sieve for Lithium Recovery. Chemical Engineering and Technology, 2020, 43, 1784-1791.	0.9	38
116	Tuning electronic properties of boron nitride nanoplate via doping carbon for enhanced adsorptive performance. Journal of Colloid and Interface Science, 2017, 508, 121-128.	5.0	37
117	Aerobic Oxidative Desulfurization by Nanoporous Tungsten Oxide with Oxygen Defects. ACS Applied Nano Materials, 2021, 4, 1085-1093.	2.4	37
118	Boron defect engineering in boron nitride nanosheets with improved adsorptive desulfurization performance. Journal of Industrial and Engineering Chemistry, 2018, 64, 383-389.	2.9	36
119	Boosting photocatalytic degradation of RhB via interfacial electronic effects between Fe-based ionic liquid and g-C ₃ N ₄ . Green Energy and Environment, 2019, 4, 198-206.	4.7	36
120	Magnetic supported ionic liquid catalysts with tunable pore volume for enhanced deep oxidative desulfurization. Journal of Molecular Liquids, 2019, 274, 293-299.	2.3	36
121	Magnesium-regulated oxygen vacancies of cobalt-nickel layered double hydroxide nanosheets for ultrahigh performance asymmetric supercapacitors. Journal of Colloid and Interface Science, 2022, 612, 772-781.	5.0	36
122	Development of novel graphene-like layered hexagonal boron nitride for adsorptive removal of antibiotic gatifloxacin from aqueous solution. Green Chemistry Letters and Reviews, 2014, 7, 330-336.	2.1	35
123	One-Pot Extraction and Oxidative Desulfurization of Fuels with Molecular Oxygen in Low-Cost Metal-Based Ionic Liquids. Energy & Fuels, 2017, 31, 1376-1382.	2.5	35
124	Synthesis of WO ₃ /mesoporous ZrO ₂ catalyst as a high-efficiency catalyst for catalytic oxidation of dibenzothiophene in diesel. Journal of Materials Science, 2018, 53, 15927-15938.	1.7	35
125	Gas-assisted exfoliation of boron nitride nanosheets enhancing adsorption performance. Ceramics International, 2019, 45, 18838-18843.	2.3	35
126	Construction of 2D-2D V ₂ O ₅ /BNNS nanocomposites for improved aerobic oxidative desulfurization performance. Fuel, 2020, 270, 117498.	3.4	35

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127	Theoretical investigation of the interaction between aromatic sulfur compounds and [BMIM] ⁺ [FeCl ₄] ⁻ ionic liquid in desulfurization: A novel charge transfer mechanism. <i>Journal of Molecular Graphics and Modelling</i> , 2015, 59, 40-49.	1.3	34
128	Reactable ionic liquid in situ-induced synthesis of Fe ₃ O ₄ nanoparticles modified N-doped hollow porous carbon microtubes for boosting multifunctional electrocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2019, 797, 849-858.	2.8	34
129	Ionic liquid immobilized on magnetic mesoporous microspheres with rough surface: Application as recyclable amphiphilic catalysts for oxidative desulfurization. <i>Applied Surface Science</i> , 2019, 484, 1027-1034.	3.1	34
130	Macroscopic 3D boron nitride monolith for efficient adsorptive desulfurization. <i>Fuel</i> , 2020, 261, 116448.	3.4	34
131	Deep oxidative desulfurization of fuels catalyzed by magnetic Fenton-like hybrid catalysts in ionic liquids. <i>RSC Advances</i> , 2013, 3, 2355.	1.7	33
132	Designing multifunctional SO ₃ H-based polyoxometalate catalysts for oxidative desulfurization in acid deep eutectic solvents. <i>RSC Advances</i> , 2017, 7, 55318-55325.	1.7	33
133	Synthesis of hierarchical porous BCN using ternary deep eutectic solvent as precursor and template for aerobic oxidative desulfurization. <i>Microporous and Mesoporous Materials</i> , 2020, 293, 109788.	2.2	33
134	Synergistic Catalysis of the PtCu Alloy on Ultrathin BN Nanosheets for Accelerated Oxidative Desulfurization. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2032-2039.	3.2	33
135	Dispersing TiO ₂ Nanoparticles on Graphite Carbon for an Enhanced Catalytic Oxidative Desulfurization Performance. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 18471-18479.	1.8	33
136	Extractive desulfurization of diesel fuel by amide-based type IV deep eutectic solvents. <i>Journal of Molecular Liquids</i> , 2021, 338, 116620.	2.3	33
137	Highly selective separation of lithium with hierarchical porous lithium-ion sieve microsphere derived from MXene. <i>Desalination</i> , 2022, 537, 115847.	4.0	32
138	Novel CNT/PbBiO ₂ Br hybrid materials with enhanced broad spectrum photocatalytic activity toward ciprofloxacin (CIP) degradation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 382, 111901.	2.0	31
139	Commercial Diatomite for Adsorption of Tetracycline Antibiotic from Aqueous Solution. <i>Separation Science and Technology</i> , 2014, 49, 2221-2227.	1.3	30
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