

# Wen-Shuai Zhu

## List of Publications by Citations

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232  
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250  
ext. papers

11,224  
ext. citations

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avg, IF

6.45  
L-index

#	Paper	IF	Citations
232	Surface Defect Engineering in 2D Nanomaterials for Photocatalysis. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1801983	15.6	260
231	Deep oxidative desulfurization of dibenzothiophene with POM-based hybrid materials in ionic liquids. <i>Chemical Engineering Journal</i> , <b>2013</b> , 220, 328-336	14.7	216
230	One-pot extraction combined with metal-free photochemical aerobic oxidative desulfurization in deep eutectic solvent. <i>Green Chemistry</i> , <b>2015</b> , 17, 2464-2472	10	204
229	Controlled Gas Exfoliation of Boron Nitride into Few-Layered Nanosheets. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 10766-70	16.4	201
228	Commercially available molybdic compound-catalyzed ultra-deep desulfurization of fuels in ionic liquids. <i>Green Chemistry</i> , <b>2008</b> , 10, 641	10	193
227	Oxidative Desulfurization of Fuels Catalyzed by Peroxotungsten and Peroxomolybdenum Complexes in Ionic Liquids. <i>Energy &amp; Fuels</i> , <b>2007</b> , 21, 2514-2516	4.1	183
226	A template-free solvent-mediated synthesis of high surface area boron nitride nanosheets for aerobic oxidative desulfurization. <i>Chemical Communications</i> , <b>2016</b> , 52, 144-7	5.8	170
225	Polyoxometalate-based ionic liquids as catalysts for deep desulfurization of fuels. <i>Fuel Processing Technology</i> , <b>2011</b> , 92, 1842-1848	7.2	168
224	Application of graphene-like layered molybdenum disulfide and its excellent adsorption behavior for doxycycline antibiotic. <i>Chemical Engineering Journal</i> , <b>2014</b> , 243, 60-67	14.7	164
223	Pyridinium-based temperature-responsive magnetic ionic liquid for oxidative desulfurization of fuels. <i>Chemical Engineering Journal</i> , <b>2013</b> , 229, 250-256	14.7	156
222	Taming interfacial electronic properties of platinum nanoparticles on vacancy-abundant boron nitride nanosheets for enhanced catalysis. <i>Nature Communications</i> , <b>2017</b> , 8, 15291	17.4	154
221	Graphene-Analogue Hexagonal BN Supported with Tungsten-based Ionic Liquid for Oxidative Desulfurization of Fuels. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 186-194	8.3	144
220	The selectivity for sulfur removal from oils: An insight from conceptual density functional theory. <i>AIChE Journal</i> , <b>2016</b> , 62, 2087-2100	3.6	144
219	Few-layered graphene-like boron nitride induced a remarkable adsorption capacity for dibenzothiophene in fuels. <i>Green Chemistry</i> , <b>2015</b> , 17, 1647-1656	10	144
218	Deep oxidative desulfurization of fuels in redox ionic liquids based on iron chloride. <i>Green Chemistry</i> , <b>2009</b> , 11, 810	10	136
217	Heteropolyanion-Based Ionic Liquid for Deep Desulfurization of Fuels in Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 8998-9003	3.9	131
216	Deep Oxidative Desulfurization of Fuels Using Peroxophosphomolybdate Catalysts in Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 6890-6895	3.9	111

215	Novel heterogeneous iron-based redox ionic liquid supported on SBA-15 for deep oxidative desulfurization of fuels. <i>Chemical Engineering Journal</i> , <b>2015</b> , 266, 213-221	14.7	110
214	Synthesis of supported SiW12O40-based ionic liquid catalyst induced solvent-free oxidative deep-desulfurization of fuels. <i>Chemical Engineering Journal</i> , <b>2016</b> , 288, 608-617	14.7	104
213	Carbon-doped porous boron nitride: metal-free adsorbents for sulfur removal from fuels. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 12738-12747	13	104
212	Deep oxidative desulfurization of fuels by Fenton-like reagent in ionic liquids. <i>Green Chemistry</i> , <b>2009</b> , 11, 1801	10	104
211	Catalytic oxidative desulfurization with a hexatungstate/aqueous H <sub>2</sub> O <sub>2</sub> /ionic liquid emulsion system. <i>Green Chemistry</i> , <b>2011</b> , 13, 1210	10	100
210	Ionic liquid extraction and catalytic oxidative desulfurization of fuels using dialkylpiperidinium tetrachloroferrates catalysts. <i>Chemical Engineering Journal</i> , <b>2014</b> , 250, 48-54	14.7	98
209	Phosphotungstic Acid Immobilized on Ionic Liquid-Modified SBA-15: Efficient Hydrophobic Heterogeneous Catalyst for Oxidative Desulfurization in Fuel. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 19895-19904	3.9	96
208	Deep Oxidative Desulfurization of Fuel Oils Catalyzed by Decatungstates in the Ionic Liquid of [Bmim]PF <sub>6</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 9034-9039	3.9	95
207	One-pot synthesis, characterization and desulfurization of functional mesoporous W-MCM-41 from POM-based ionic liquids. <i>Chemical Engineering Journal</i> , <b>2014</b> , 243, 386-393	14.7	94
206	Catalytic kinetics of oxidative desulfurization with surfactant-type polyoxometalate-based ionic liquids. <i>Fuel Processing Technology</i> , <b>2013</b> , 106, 70-76	7.2	94
205	Copper nanoparticles advance electron mobility of graphene-like boron nitride for enhanced aerobic oxidative desulfurization. <i>Chemical Engineering Journal</i> , <b>2016</b> , 301, 123-131	14.7	88
204	Boric acid-based ternary deep eutectic solvent for extraction and oxidative desulfurization of diesel fuel. <i>Green Chemistry</i> , <b>2019</b> , 21, 3074-3080	10	87
203	Magnetic mesoporous nanospheres supported phosphomolybdate-based ionic liquid for aerobic oxidative desulfurization of fuel. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 534, 239-247	9.3	87
202	Temperature-responsive ionic liquid extraction and separation of the aromatic sulfur compounds. <i>Fuel</i> , <b>2015</b> , 140, 590-596	7.1	82
201	Taming electronic properties of boron nitride nanosheets as metal-free catalysts for aerobic oxidative desulfurization of fuels. <i>Green Chemistry</i> , <b>2018</b> , 20, 4453-4460	10	79
200	Polyoxometalate-based ionic liquid supported on graphite carbon induced solvent-free ultra-deep oxidative desulfurization of model fuels. <i>Fuel</i> , <b>2017</b> , 190, 1-9	7.1	78
199	Fenton-like ionic liquids/H <sub>2</sub> O <sub>2</sub> system: one-pot extraction combined with oxidation desulfurization of fuel. <i>RSC Advances</i> , <b>2012</b> , 2, 658-664	3.7	75
198	Rapid gas-assisted exfoliation promises V <sub>2</sub> O <sub>5</sub> nanosheets for high performance lithium-sulfur batteries. <i>Nano Energy</i> , <b>2020</b> , 67, 104253	17.1	74

197	Oxidative desulfurization of fuels catalyzed by Fenton-like ionic liquids at room temperature. <i>ChemSusChem</i> , <b>2011</b> , 4, 399-403	8.3	73
196	Boron Nitride Mesoporous Nanowires with Doped Oxygen Atoms for the Remarkable Adsorption Desulfurization Performance from Fuels. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 4457-4464	8.3	71
195	Synthesis of metal-based ionic liquid supported catalyst and its application in catalytic oxidative desulfurization of fuels. <i>Fuel</i> , <b>2014</b> , 136, 358-365	7.1	71
194	Boosting aerobic oxidative desulfurization performance in fuel oil via strong metal-edge interactions between Pt and h-BN. <i>Chemical Engineering Journal</i> , <b>2020</b> , 380, 122526	14.7	71
193	Biomass willow catkin-derived Co <sub>3</sub> O <sub>4</sub> /N-doped hollow hierarchical porous carbon microtubes as an effective tri-functional electrocatalyst. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 20170-20179	13	70
192	A DFT study of the extractive desulfurization mechanism by [BMIM](+)[AlCl <sub>4</sub> ](-) ionic liquid. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 5995-6009	3.4	69
191	Tuning the electrophilicity of vanadium-substituted polyoxometalate based ionic liquids for high-efficiency aerobic oxidative desulfurization. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 271, 118936	21.8	66
190	Synthesis of Ionic-Liquid-Based Deep Eutectic Solvents for Extractive Desulfurization of Fuel. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 8164-8170	4.1	62
189	Decavanadates anchored into micropores of graphene-like boron nitride: Efficient heterogeneous catalysts for aerobic oxidative desulfurization. <i>Fuel</i> , <b>2018</b> , 230, 104-112	7.1	62
188	Theoretical evidence of charge transfer interaction between SO <sub>2</sub> and deep eutectic solvents formed by choline chloride and glycerol. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 28729-42	3.6	61
187	A large number of low coordinated atoms in boron nitride for outstanding adsorptive desulfurization performance. <i>Green Chemistry</i> , <b>2016</b> , 18, 3040-3047	10	61
186	Facile synthesis of amphiphilic polyoxometalate-based ionic liquid supported silica induced efficient performance in oxidative desulfurization. <i>Journal of Molecular Catalysis A</i> , <b>2015</b> , 406, 23-30		61
185	Vibrational analysis and formation mechanism of typical deep eutectic solvents: An experimental and theoretical study. <i>Journal of Molecular Graphics and Modelling</i> , <b>2016</b> , 68, 158-175	2.8	60
184	Synergistic effect of dual Brønsted acidic deep eutectic solvents for oxidative desulfurization of diesel fuel. <i>Chemical Engineering Journal</i> , <b>2020</b> , 394, 124831	14.7	58
183	Tuning the Chemical Hardness of Boron Nitride Nanosheets by Doping Carbon for Enhanced Adsorption Capacity. <i>ACS Omega</i> , <b>2017</b> , 2, 5385-5394	3.9	58
182	Deep Understanding of Strong Metal Interface Confinement: A Journey of Pd/FeO <sub>x</sub> Catalysts. <i>ACS Catalysis</i> , <b>2020</b> , 10, 8950-8959	13.1	58
181	Sacrificing ionic liquid-assisted anchoring of carbonized polymer dots on perovskite-like PbBiO <sub>2</sub> Br for robust CO <sub>2</sub> photoreduction. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 254, 551-559	21.8	55
180	Taming Interfacial Oxygen Vacancies of Amphiphilic Tungsten Oxide for Enhanced Catalysis in Oxidative Desulfurization. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 8930-8938	8.3	55

179	Controllable Fabrication of Tungsten Oxide Nanoparticles Confined in Graphene-Analogous Boron Nitride as an Efficient Desulfurization Catalyst. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 15421-7	4.8	55
178	Hexagonal boron nitride: A metal-free catalyst for deep oxidative desulfurization of fuel oils. <i>Green Energy and Environment</i> , <b>2020</b> , 5, 166-172	5.7	52
177	Synthesis of mesoporous WO <sub>3</sub> /TiO <sub>2</sub> catalyst and its excellent catalytic performance for the oxidation of dibenzothiophene. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 569-578	3.6	51
176	Immobilized fenton-like ionic liquid: Catalytic performance for oxidative desulfurization. <i>AIChE Journal</i> , <b>2013</b> , 59, 4696-4704	3.6	51
175	Space-Confined Yolk-Shell Construction of Fe <sub>3</sub> O <sub>4</sub> Nanoparticles Inside N-Doped Hollow Mesoporous Carbon Spheres as Bifunctional Electrocatalysts for Long-Term Rechargeable Zinc-Air Batteries. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2005834	15.6	51
174	Photocatalytic oxidative desulfurization of dibenzothiophene catalyzed by amorphous TiO <sub>2</sub> in ionic liquid. <i>Korean Journal of Chemical Engineering</i> , <b>2014</b> , 31, 211-217	2.8	49
173	Tailoring N-Terminated Defective Edges of Porous Boron Nitride for Enhanced Aerobic Catalysis. <i>Small</i> , <b>2017</b> , 13, 1701857	11	48
172	Silver Nanoparticle-Decorated Boron Nitride with Tunable Electronic Properties for Enhancement of Adsorption Performance. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 4948-4957	8.3	48
171	Oxidative desulfurization of fuels promoted by choline chloride-based deep eutectic solvents. <i>Journal of Molecular Catalysis A</i> , <b>2016</b> , 424, 261-268		47
170	Hydrophobic mesoporous silica-supported heteropolyacid induced by ionic liquid as a high efficiency catalyst for the oxidative desulfurization of fuel. <i>RSC Advances</i> , <b>2015</b> , 5, 16847-16855	3.7	46
169	Graphene-Analogous Boron Nitride Nanosheets Confining Ionic Liquids: A High-Performance Quasi-Liquid Solid Electrolyte. <i>Small</i> , <b>2016</b> , 12, 3535-42	11	45
168	Macroporous polystyrene resins as adsorbents for the removal of tetracycline antibiotics from an aquatic environment. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	41
167	Magnetic POM-based mesoporous silica for fast oxidation of aromatic sulfur compounds. <i>Fuel</i> , <b>2017</b> , 209, 545-551	7.1	41
166	Supported ionic liquid [Bmim]FeCl <sub>4</sub> /Am TiO <sub>2</sub> as an efficient catalyst for the catalytic oxidative desulfurization of fuels. <i>RSC Advances</i> , <b>2015</b> , 5, 43528-43536	3.7	40
165	Synthesis of boron nitride nanosheets with N-defects for efficient tetracycline antibiotics adsorptive removal. <i>Chemical Engineering Journal</i> , <b>2020</b> , 387, 124138	14.7	40
164	Silicotungstic acid immobilized on lamellar hexagonal boron nitride for oxidative desulfurization of fuel components. <i>Fuel</i> , <b>2018</b> , 213, 12-21	7.1	40
163	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> , <b>2019</b> , 7, 15755-15761	8.3	40
162	Deep oxidative desulfurization with a microporous hexagonal boron nitride confining phosphotungstic acid catalyst. <i>Journal of Molecular Catalysis A</i> , <b>2016</b> , 423, 207-215		40

161	Metal-free boron nitride adsorbent for ultra-deep desulfurization. <i>AIChE Journal</i> , <b>2017</b> , 63, 3463-3469	3.6	39
160	Molybdenum-containing dendritic mesoporous silica spheres for fast oxidative desulfurization in fuel. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 451-458	6.8	39
159	Oxidation of Aromatic Sulfur Compounds Catalyzed by Organic Hexacyanoferrates in Ionic Liquids with a Low Concentration of H <sub>2</sub> O <sub>2</sub> as an Oxidant. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 2754-2760	4.1	39
158	Rapid capture and efficient removal of low-concentration SO <sub>2</sub> in simulated flue gas by hypercrosslinked hollow nanotube ionic polymers. <i>Chemical Engineering Journal</i> , <b>2020</b> , 394, 124859	14.7	38
157	A simple and cost-effective extractive desulfurization process with novel deep eutectic solvents. <i>RSC Advances</i> , <b>2016</b> , 6, 30345-30352	3.7	38
156	Immobilizing Highly Catalytically Molybdenum Oxide Nanoparticles on Graphene-Analogous BN: Stable Heterogeneous Catalysts with Enhanced Aerobic Oxidative Desulfurization Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 863-871	3.9	37
155	Revealing the role of oxygen vacancies in bimetallic PbBiO <sub>2</sub> Br atomic layers for boosting photocatalytic CO <sub>2</sub> conversion. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 277, 119170	21.8	36
154	Preparation of highly dispersed WO <sub>3</sub> /few layer g-C <sub>3</sub> N <sub>4</sub> and its enhancement of catalytic oxidative desulfurization activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 572, 250-258	5.1	34
153	Harnessing strong metal-support interactions via a reverse route. <i>Nature Communications</i> , <b>2020</b> , 11, 30427.4	7.4	33
152	Taming wettability of lithium ion sieve via different TiO <sub>2</sub> precursors for effective Li recovery from aqueous lithium resources. <i>Chemical Engineering Journal</i> , <b>2020</b> , 392, 123731	14.7	33
151	TiO <sub>2</sub> microspheres supported polyoxometalate-based ionic liquids induced catalytic oxidative deep-desulfurization. <i>RSC Advances</i> , <b>2016</b> , 6, 42402-42412	3.7	33
150	Controlled Gas Exfoliation of Boron Nitride into Few-Layered Nanosheets. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 10924-10928	3.6	32
149	One-pot extraction and aerobic oxidative desulfurization with highly dispersed V <sub>2</sub> O <sub>5</sub> /SBA-15 catalyst in ionic liquids. <i>RSC Advances</i> , <b>2017</b> , 7, 39383-39390	3.7	32
148	Green aqueous biphasic systems containing deep eutectic solvents and sodium salts for the extraction of protein. <i>RSC Advances</i> , <b>2017</b> , 7, 49361-49367	3.7	31
147	Tuning electronic properties of boron nitride nanoplate via doping carbon for enhanced adsorptive performance. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 508, 121-128	9.3	31
146	A comparative study of the extractive desulfurization mechanism by Cu(II) and Zn-based imidazolium ionic liquids. <i>Green Energy and Environment</i> , <b>2019</b> , 4, 38-48	5.7	31
145	Deep oxidative desulfurization of fuels catalyzed by magnetic Fenton-like hybrid catalysts in ionic liquids. <i>RSC Advances</i> , <b>2013</b> , 3, 2355	3.7	30
144	Magnetic supported ionic liquid catalysts with tunable pore volume for enhanced deep oxidative desulfurization. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 274, 293-299	6	30

143	Hexagonal boron nitride adsorbent: Synthesis, performance tailoring and applications. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 40, 99-111	12	30
142	Pt nanoparticles encapsulated on V2O5 nanosheets carriers as efficient catalysts for promoted aerobic oxidative desulfurization performance. <i>Chinese Journal of Catalysis</i> , <b>2021</b> , 42, 557-562	11.3	29
141	Fast Oxidative Removal of Refractory Aromatic Sulfur Compounds by a Magnetic Ionic Liquid. <i>Chemical Engineering and Technology</i> , <b>2014</b> , 37, 36-42	2	28
140	3D-printing of integrated spheres as a superior support of phosphotungstic acid for deep oxidative desulfurization of fuel. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 45, 91-97	12	28
139	Few-Layer Boron Nitride with Engineered Nitrogen Vacancies for Promoting Conversion of Polysulfide as a Cathode Matrix for Lithium-Sulfur Batteries. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 8112-8117	4.8	27
138	Solvent-free rapid synthesis of porous CeWOx by a mechanochemical self-assembly strategy for the abatement of NOx. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 6717-6731	13	27
137	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> , <b>2020</b> , 815, 152470	5.7	27
136	One-Pot Extraction and Oxidative Desulfurization of Fuels with Molecular Oxygen in Low-Cost Metal-Based Ionic Liquids. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 1376-1382	4.1	26
135	Ionic liquid immobilized on magnetic mesoporous microspheres with rough surface: Application as recyclable amphiphilic catalysts for oxidative desulfurization. <i>Applied Surface Science</i> , <b>2019</b> , 484, 1027-1034	6.7	26
134	Theoretical investigation of the interaction between aromatic sulfur compounds and [BMIM](+)[FeCl4](-) ionic liquid in desulfurization: A novel charge transfer mechanism. <i>Journal of Molecular Graphics and Modelling</i> , <b>2015</b> , 59, 40-9	2.8	26
133	Synthesis of WO3/mesoporous ZrO2 catalyst as a high-efficiency catalyst for catalytic oxidation of dibenzothiophene in diesel. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 15927-15938	4.3	26
132	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> , <b>2014</b> , 7, 330-336	4.7	26
131	Application of a self-emulsifiable task-specific ionic liquid in oxidative desulfurization of fuels. <i>RSC Advances</i> , <b>2013</b> , 3, 3893	3.7	26
130	Glucose dehydration to 5-hydroxymethylfurfural in ionic liquid over Cr3+-modified ion exchange resin. <i>RSC Advances</i> , <b>2015</b> , 5, 9290-9297	3.7	25
129	O2 Activation and Oxidative Dehydrogenation of Propane on Hexagonal Boron Nitride: Mechanism Revisited. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 2256-2266	3.8	25
128	Ionic liquid-supported 3DOM silica for efficient heterogeneous oxidative desulfurization. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 2478-2485	6.8	24
127	Dispersing TiO2 Nanoparticles on Graphite Carbon for an Enhanced Catalytic Oxidative Desulfurization Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 18471-18479	3.9	24
126	Synthesis of hierarchical porous BCN using ternary deep eutectic solvent as precursor and template for aerobic oxidative desulfurization. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 293, 109788	5.3	24

125	Hierarchical porous boron nitride with boron vacancies for improved adsorption performance to antibiotics. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 584, 154-163	9.3	24
124	Unique Z-scheme carbonized polymer dots/Bi <sub>4</sub> O <sub>5</sub> Br <sub>2</sub> hybrids for efficiently boosting photocatalytic CO <sub>2</sub> reduction. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 293, 120182	21.8	24
123	Graphene-like BN@SiO <sub>2</sub> nanocomposites as efficient sorbents for solid-phase extraction of Rhodamine B and Rhodamine 6G from food samples. <i>Food Chemistry</i> , <b>2020</b> , 320, 126666	8.5	23
122	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> , <b>2020</b> , 826, 154152	5.7	23
121	Mechanical exfoliation of boron carbide: A metal-free catalyst for aerobic oxidative desulfurization in fuel. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 391, 122183	12.8	23
120	Boron defect engineering in boron nitride nanosheets with improved adsorptive desulfurization performance. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 64, 383-389	6.3	23
119	Fabrication and characterization of tungsten-containing mesoporous silica for heterogeneous oxidative desulfurization. <i>Chinese Journal of Catalysis</i> , <b>2016</b> , 37, 971-978	11.3	23
118	Design of Lewis Acid Centers in Bundlelike Boron Nitride for Boosting Adsorptive Desulfurization Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 13303-13312	3.9	23
117	Designing multifunctional SO <sub>3</sub> H-based polyoxometalate catalysts for oxidative desulfurization in acid deep eutectic solvents. <i>RSC Advances</i> , <b>2017</b> , 7, 55318-55325	3.7	23
116	Graphene-like boron nitride anchored Br <sub>2</sub> sted acid ionic liquids as metal-free catalyst for advanced oxidation process. <i>Molecular Catalysis</i> , <b>2017</b> , 436, 53-59	3.3	22
115	Commercial Diatomite for Adsorption of Tetracycline Antibiotic from Aqueous Solution. <i>Separation Science and Technology</i> , <b>2014</b> , 49, 2221-2227	2.5	22
114	Boosting photocatalytic degradation of RhB via interfacial electronic effects between Fe-based ionic liquid and g-C <sub>3</sub> N <sub>4</sub> . <i>Green Energy and Environment</i> , <b>2019</b> , 4, 198-206	5.7	22
113	Superparamagnetic Mo-containing core-shell microspheres for catalytic oxidative desulfurization of fuel. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 537, 243-249	5.1	21
112	Engineering a tandem leaching system for the highly selective recycling of valuable metals from spent Li-ion batteries. <i>Green Chemistry</i> , <b>2021</b> , 23, 2177-2184	10	21
111	Gas-assisted exfoliation of boron nitride nanosheets enhancing adsorption performance. <i>Ceramics International</i> , <b>2019</b> , 45, 18838-18843	5.1	20
110	Heterogenization of homogenous oxidative desulfurization reaction on graphene-like boron nitride with a peroxomolybdate ionic liquid. <i>RSC Advances</i> , <b>2016</b> , 6, 140-147	3.7	20
109	High-performance adsorptive desulfurization by ternary hybrid boron carbon nitride aerogel. <i>AICHE Journal</i> , <b>2021</b> , 67, e17280	3.6	20
108	Scalable and facile synthesis of V <sub>2</sub> O <sub>5</sub> nanoparticles via ball milling for improved aerobic oxidative desulfurization. <i>Green Energy and Environment</i> , <b>2021</b> , 6, 169-175	5.7	20



107	Tuning interfacial electronic properties of carbon nitride as an efficient catalyst for ultra-deep oxidative desulfurization of fuels. <i>Molecular Catalysis</i> , <b>2019</b> , 468, 100-108	3.3	19
106	Boron and Nitride Dual vacancies on Metal-Free Oxygen Doping Boron Nitride as Initiating Sites for Deep Aerobic Oxidative Desulfurization. <i>ChemCatChem</i> , <b>2020</b> , 12, 1734-1742	5.2	19
105	Advanced Overlap Adsorption Model of Few-Layer Boron Nitride for Aromatic Organic Pollutants. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 4045-4051	3.9	19
104	Synthesis of N,O-Doped Porous Graphene from Petroleum Coke for Deep Oxidative Desulfurization of Fuel. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 8302-8311	4.1	19
103	Synthesis of Guanidinium-Based Poly(ionic liquids) with Nonporosity for Highly Efficient SO <sub>2</sub> Capture from Flue Gas. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 5984-5991	3.9	19
102	Catalytic oxidative desulfurization of fuels in acidic deep eutectic solvents with [(C <sub>6</sub> H <sub>13</sub> ) <sub>3</sub> P(C <sub>14</sub> H <sub>29</sub> )] <sub>3</sub> PMo <sub>12</sub> O <sub>40</sub> as a catalyst. <i>Petroleum Science</i> , <b>2018</b> , 15, 841-848	4.4	19
101	Graphene-analogue molybdenum disulfide for adsorptive removal of tetracycline from aqueous solution: equilibrium, kinetic, and thermodynamic studies. <i>Environmental Progress and Sustainable Energy</i> , <b>2017</b> , 36, 815-821	2.5	18
100	Lattice-Refined Transition-Metal Oxides via Ball Milling for Boosted Catalytic Oxidation Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 36666-36675	9.5	18
99	Novel CNT/PbBiO <sub>2</sub> Br hybrid materials with enhanced broad spectrum photocatalytic activity toward ciprofloxacin (CIP) degradation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2019</b> , 382, 111901	4.7	18
98	One-pot synthesis of ordered mesoporous silica encapsulated polyoxometalate-based ionic liquids induced efficient desulfurization of organosulfur in fuel. <i>RSC Advances</i> , <b>2015</b> , 5, 76048-76056	3.7	18
97	Construction of 2D-2D V <sub>2</sub> O <sub>5</sub> /BNNS nanocomposites for improved aerobic oxidative desulfurization performance. <i>Fuel</i> , <b>2020</b> , 270, 117498	7.1	18
96	Macroscopic 3D boron nitride monolith for efficient adsorptive desulfurization. <i>Fuel</i> , <b>2020</b> , 261, 116448	7.1	18
95	Amorphous TiO <sub>2</sub> -Derived Large-Capacity Lithium Ion Sieve for Lithium Recovery. <i>Chemical Engineering and Technology</i> , <b>2020</b> , 43, 1784-1791	2	17
94	Atomic-Layered V <sub>2</sub> O <sub>5</sub> Nanosheets Obtained via Fast Gas-Driven Exfoliation for Superior Aerobic Oxidative Desulfurization. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 2612-2616	4.1	17
93	Oxidiperoxo tungsten complex-catalyzed synthesis of adipic acid with hydrogen peroxide. <i>Reaction Kinetics and Catalysis Letters</i> , <b>2007</b> , 92, 319-327		17
92	Dynamically-generated TiO <sub>2</sub> active site on MXene Ti <sub>3</sub> C <sub>2</sub> : Boosting reactive desulfurization. <i>Chemical Engineering Journal</i> , <b>2021</b> , 416, 129022	14.7	17
91	Tailoring hydrophobic deep eutectic solvent for selective lithium recovery from the mother liquor of Li <sub>2</sub> CO <sub>3</sub> . <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 127648	14.7	17
90	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> , <b>2021</b> , 583, 614-625	9.3	17

89	Gas-exfoliated porous monolayer boron nitride for enhanced aerobic oxidative desulfurization performance. <i>Nanotechnology</i> , <b>2018</b> , 29, 025604	3.4	17
88	Tailoring Electronic Properties of Porphyrin Manganese on Boron Nitride for Enhancing Aerobic Oxidative Desulfurization at Room Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 1015-1022	8.3	16
87	Structure and catalytic oxidative desulfurization properties of SBA-15 supported silicotungstic acid ionic liquid. <i>Journal of Porous Materials</i> , <b>2016</b> , 23, 823-831	2.4	16
86	The mechanism of thiophene oxidation on metal-free two-dimensional hexagonal boron nitride. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 21867-21874	3.6	16
85	Enhanced Oxidative Desulfurization of Dibenzothiophene by Functional Mo-Containing Mesoporous Silica. <i>Chemical Engineering and Technology</i> , <b>2015</b> , 38, 117-124	2	15
84	An accurate empirical method to predict the adsorption strength for orbital contained molecules on two dimensional materials. <i>Journal of Molecular Graphics and Modelling</i> , <b>2018</b> , 82, 93-100	2.8	15
83	Phosphomolybdic acid immobilized on ionic liquid-modified hexagonal boron nitride for oxidative desulfurization of fuel. <i>RSC Advances</i> , <b>2017</b> , 7, 54266-54276	3.7	15
82	Extraction combined catalytic oxidation desulfurization of petcoke in ionic liquid under mild conditions. <i>Fuel</i> , <b>2020</b> , 260, 116200	7.1	15
81	Reactable ionic liquid in situ-induced synthesis of Fe <sub>3</sub> O <sub>4</sub> nanoparticles modified N-doped hollow porous carbon microtubes for boosting multifunctional electrocatalytic activity. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 797, 849-858	5.7	14
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79	Aerobic Oxidative Desulfurization by Nanoporous Tungsten Oxide with Oxygen Defects. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 1085-1093	5.6	14
78	High-entropy oxide stabilized molybdenum oxide via high temperature for deep oxidative desulfurization. <i>Applied Materials Today</i> , <b>2020</b> , 20, 100680	6.6	13
77	Few Layer g-C <sub>3</sub> N <sub>4</sub> Dispersed Quaternary Phosphonium Ionic Liquid for Highly Efficient Catalytic Oxidative Desulfurization of Fuel. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 12379-12387	4.1	13
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75	In situ fabrication of hollow silica confined defective molybdenum oxide for enhanced catalytic oxidative desulfurization of diesel fuels. <i>Fuel</i> , <b>2021</b> , 305, 121470	7.1	13
74	Preparation of metal ions impregnated polystyrene resins for adsorption of antibiotics contaminants in aquatic environment. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	12
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70	Production of 5-Hydroxymethylfurfural from Fructose in Ionic Liquid Efficiently Catalyzed by Cr(III)-Al <sub>2</sub> O <sub>3</sub> Catalyst. <i>Chinese Journal of Chemistry</i> , <b>2014</b> , 32, 434-442	4.9	11
69	Aerobic oxidative desulfurization via magnetic mesoporous silica-supported tungsten oxide catalysts. <i>Petroleum Science</i> , <b>2020</b> , 17, 1422-1431	4.4	11
68	Hexacyanoferrate-based ionic liquids as Fenton-like catalysts for deep oxidative desulfurization of fuels. <i>Applied Organometallic Chemistry</i> , <b>2016</b> , 30, 753-758	3.1	11
67	BN/ZIF-8 derived carbon hybrid materials for adsorptive desulfurization: Insights into adsorptive property and reaction kinetics. <i>Fuel</i> , <b>2021</b> , 288, 119685	7.1	11
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61	Progress in electrochemical lithium ion pumping for lithium recovery. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 59, 431-445	12	10
60	Unraveling the mechanism of CO capture and separation by porous liquids.. <i>RSC Advances</i> , <b>2020</b> , 10, 42706-42717	9.6	10
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58	The interaction nature between hollow silica-based porous ionic liquids and CO: A DFT study. <i>Journal of Molecular Graphics and Modelling</i> , <b>2020</b> , 100, 107694	2.8	9
57	Theoretical prediction of the SO absorption by hollow silica based porous ionic liquids. <i>Journal of Molecular Graphics and Modelling</i> , <b>2021</b> , 103, 107788	2.8	9
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54	Fabrication of oxygen-defective tungsten oxide nanorods for deep oxidative desulfurization of fuel. <i>Petroleum Science</i> , <b>2018</b> , 15, 849-856	4.4	8

53	Light irradiation induced aerobic oxidative deep-desulfurization of fuel in ionic liquid. <i>RSC Advances</i> , <b>2015</b> , 5, 99927-99934	3.7	7
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46	Polyoxometalate-based silica-supported ionic liquids for heterogeneous oxidative desulfurization in fuels. <i>Petroleum Science</i> , <b>2018</b> , 15, 882-889	4.4	6
45	Synthesis of amphiphilic peroxophosphomolybdates for oxidative desulfurization of fuels in ionic liquids. <i>Petroleum Science</i> , <b>2018</b> , 15, 890-897	4.4	6
44	Size-Dependent Activity of Iron-Nickel Oxynitride towards Electrocatalytic Oxygen Evolution. <i>ChemNanoMat</i> , <b>2019</b> , 5, 883-887	3.5	5
43	Fabrication of dual-mesoporous silica by triblock copolymers and metal-based ionic liquid: efficient and durable catalyst for oxidative desulfurization in fuel. <i>RSC Advances</i> , <b>2015</b> , 5, 104322-104329	3.7	5
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27	Enhanced adsorption performance for antibiotics by alcohol-solvent mediated boron nitride nanosheets. <i>Rare Metals</i> , <b>2022</b> , 41, 342	5.5	3
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23	Synthesis of porous carbon a waste tire leavening strategy for adsorptive desulfurization.. <i>RSC Advances</i> , <b>2019</b> , 9, 30575-30580	3.7	3
22	Theoretical Insights into CO <sub>2</sub> /N <sub>2</sub> Selectivity of the Porous Ionic Liquids Constructed by Ion-Dipole Interactions. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 344, 117676	6	3
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20	Edge-Site-Rich Ordered Macroporous BiOCl Triggers C <sub>2</sub> O Activation for Efficient CO Photoreduction. <i>Small</i> , <b>2021</b> , e2105228	11	2
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15	Highly selective separation of lithium with hierarchical porous lithium-ion sieve microsphere derived from MXene. <i>Desalination</i> , <b>2022</b> , 537, 115847	10.3	2
14	The electronic structure and physicochemical property of boron nitridene. <i>Journal of Molecular Graphics and Modelling</i> , <b>2020</b> , 94, 107475	2.8	1
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10	Three-dimensional Ce-MOFs-derived Ce@C-BN nanobundles for adsorptive desulfurization. <i>Applied Surface Science</i> , <b>2022</b> , 590, 152926	6.7	1
9	Electronic state tuning over Mo-doped W <sub>18</sub> O <sub>49</sub> ultrathin nanowires with enhanced molecular oxygen activation for desulfurization. <i>Separation and Purification Technology</i> , <b>2022</b> , 294, 121167	8.3	1
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