

Hydrogen Sulfide Capture: From Absorption in Polar Li Metal-Organic Framework Adsorbents and Membranes

Chemical Reviews

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Introduction: Carbon Capture and Separation. <i>Chemical Reviews</i> , 2017, 117, 9521-9523.	23.0	157
2	Janus Reactors with Highly Efficient Enzymatic CO ₂ Nanocascade at Air-Liquid Interface. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42806-42815.	4.0	25
3	Thiophene Separation with Silver-Doped Cu-BTC Metal-Organic Framework for Deep Desulfurization. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 2956-2966.	1.8	25
4	A Chemical Role for Trichloromethane: Room-Temperature Removal of Coordinated Solvents from Open Metal Sites in the Copper-Based Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2018, 57, 5225-5231.	1.9	33
5	Novel Application of a Polyurethane Membrane for Efficient Separation of Hydrogen Sulfide from Binary and Ternary Gas Mixtures. <i>ChemistrySelect</i> , 2018, 3, 3302-3308.	0.7	23
6	Activated Carbon-Assisted Fabrication of Cost-Efficient ZnO/SiO ₂ Desulfurizer with Characteristic of High Loadings and High Dispersion. <i>Energy & Fuels</i> , 2018, 32, 6064-6072.	2.5	16
7	Monoethanolamine-enabled electrochemical detection of H ₂ S in a hydroxyl-functionalized ionic liquid. <i>Electrochemistry Communications</i> , 2018, 88, 93-96.	2.3	21
8	Diffusion Control in the in Situ Synthesis of Ionic Metal-Organic Frameworks within an Ionic Polymer Matrix. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3793-3800.	4.0	30
9	Role of Amine Structure on Hydrogen Sulfide Capture from Dilute Gas Streams Using Solid Adsorbents. <i>Energy & Fuels</i> , 2018, 32, 6926-6933.	2.5	33
10	Metal coordination and metal activation abilities of commonly unreactive chloromethanes toward metal-organic frameworks. <i>Chemical Communications</i> , 2018, 54, 6458-6471.	2.2	42
11	Biofiltration of hydrogen sulfide: Trends and challenges. <i>Journal of Cleaner Production</i> , 2018, 187, 131-147.	4.6	105
12	Highlighting the origins and consequences of thermodynamic non-idealities in mixture separations using zeolites and metal-organic frameworks. <i>Microporous and Mesoporous Materials</i> , 2018, 267, 274-292.	2.2	27
13	Sensing and capture of toxic and hazardous gases and vapors by metal-organic frameworks. <i>Chemical Society Reviews</i> , 2018, 47, 4729-4756.	18.7	530
14	Isostructural lanthanide-based metal-organic frameworks: structure, photoluminescence and magnetic properties. <i>Dalton Transactions</i> , 2018, 47, 925-934.	1.6	45
15	Understanding the Reactive Adsorption of H ₂ S and CO ₂ in Sodium-Exchanged Zeolites. <i>ChemPhysChem</i> , 2018, 19, 512-518.	1.0	12
16	Sulfidation-Oxidation Cycling of a H ₂ S Adsorbing Hollow Sphere Array. <i>Microscopy and Microanalysis</i> , 2018, 24, 1800-1801.	0.2	0
17	Prediction of the monocomponent adsorption of H ₂ S and mixtures with CO ₂ and CH ₄ on activated carbons. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 559, 342-350.	2.3	28
18	In Silico Study of (Mn, Fe, Co, Ni, Zn)-BTC Metal-Organic Frameworks for Recovering Xenon from Exhaled Anesthetic Gas. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15001-15006.	3.2	17

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19	Computational screening of hydrophobic metal-organic frameworks for the separation of H ₂ S and CO ₂ from natural gas. Journal of Materials Chemistry A, 2018, 6, 18898-18905.	5.2	84
20	Synthesis and Gas Permeation Properties of STT-type Zeolite Membranes. Journal of the Japan Petroleum Institute, 2018, 61, 263-271.	0.4	6
21	Present and future of MOF research in the field of adsorption and molecular separation. Current Opinion in Chemical Engineering, 2018, 20, 132-142.	3.8	152
22	Fe ₂ O ₃ -M41S Sorbents for H ₂ S Removal: Effect of Different Porous Structures and Silica Wall Thickness. Journal of Physical Chemistry C, 2018, 122, 12231-12242.	1.5	20
23	Hydrogen sulfide gas capture by organic superbase 1,8-diazabicyclo-[5.4.0]-undec-7-ene through salt formation: salt synthesis, characterization and application for CO ₂ capture. RSC Advances, 2018, 8, 18531-18541.	1.7	20
24	Piperazine-tuned NBD-based colorimetric and fluorescent turn-off probes for hydrogen sulfide. Analytical Methods, 2018, 10, 3375-3379.	1.3	17
25	Inexpensive metal oxides nanoparticles doped Na ₂ CO ₃ fibers for highly selective capturing trace HCl from HCl/CO ₂ mixture gas at low temperature. Chemical Engineering Journal, 2018, 352, 634-643.	6.6	16
26	Green applications of metal-organic frameworks. CrystEngComm, 2018, 20, 5899-5912.	1.3	54
27	Hierarchical Titanium Dioxide Nanowire/Metal-Organic Framework/Carbon Nanofiber Membranes for Highly Efficient Photocatalytic Degradation of Hydrogen Sulfide. Chemistry - A European Journal, 2018, 24, 15019-15025.	1.7	25
28	H ₂ S selective catalytic oxidation over Ce substituted La _{1-x} Ce _x FeO ₃ perovskite oxides catalyst. Chemical Engineering Journal, 2018, 348, 831-839.	6.6	75
29	First principles Monte Carlo simulations of unary and binary adsorption: CO ₂ , N ₂ , and H ₂ O in Mg-MOF-74. Chemical Communications, 2018, 54, 10816-10819.	2.2	31
30	Harnessing Filler Materials for Enhancing Biogas Separation Membranes. Chemical Reviews, 2018, 118, 8655-8769.	23.0	239
31	The insights from X-ray absorption spectroscopy into the local atomic structure and chemical bonding of Metal-organic frameworks. Polyhedron, 2018, 155, 232-253.	1.0	34
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33	Capturing Condensable Gases with Ionic Liquids. Industrial & Engineering Chemistry Research, 2018, 57, 12202-12214.	1.8	43
34	Mercury Capture from Petroleum Using Deep Eutectic Solvents. Industrial & Engineering Chemistry Research, 2018, 57, 9222-9230.	1.8	22
35	A Topotactic Synthetic Methodology for the Synthesis of Nanosized MFI Zeolites with Hierarchical Structures. Chemistry - A European Journal, 2018, 24, 12600-12606.	1.7	2
36	Ln(III)-Functionalized Metal-Organic Frameworks Hybrid System: Luminescence Properties and Sensor for trans-Muconic Acid as a Biomarker of Benzene. Inorganic Chemistry, 2018, 57, 7815-7824.	1.9	76

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37	Graphene-Based Membranes for CO ₂ /CH ₄ Separation: Key Challenges and Perspectives. Applied Sciences (Switzerland), 2019, 9, 2784.	1.3	29
38	Metal-organic frameworks for the capture of volatile organic compounds and toxic chemicals. , 2019, , 141-178.		12
39	Adsorptive desulfurization of liquid hydrocarbons using zeolite-based sorbents: a comprehensive review. Reaction Chemistry and Engineering, 2019, 4, 1357-1386.	1.9	77
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41	Design of Efficient, Hierarchical Porous Polymers Endowed with Tunable Structural Base Sites for Direct Catalytic Elimination of COS and H ₂ S. ACS Applied Materials & Interfaces, 2019, 11, 29950-29959.	4.0	61
42	Recent advances in technologies for the removal of volatile methylsiloxanes: A case in biogas purification process. Critical Reviews in Environmental Science and Technology, 2019, 49, 2257-2313.	6.6	38
43	Porous metal-organic frameworks for gas storage and separation: Status and challenges. EnergyChem, 2019, 1, 100006.	10.1	434
44	Continuous Oxidation of Hydrogen Sulfide by an Adsorbent Derived from Sewage Sludge. Environmental Engineering Science, 2019, 36, 1170-1178.	0.8	4
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46	Study on Short-Circuit Impedance Characteristics in DN Traction Electric Lines. IOP Conference Series: Earth and Environmental Science, 2019, 310, 032053.	0.2	0
48	Temperature field modeling of the plate during hot rolling based on inverse heat conduction problem. Journal of Physics: Conference Series, 2019, 1300, 012017.	0.3	0
49	Low Voltage Power Line Communication Routing Method based on Improved Genetic Algorithm. , 2019, , .		0
51	Removal of Hydrogen Sulfide from Gas Streams Using Porous Materials: A Review. Industrial & Engineering Chemistry Research, 2019, 58, 22133-22164.	1.8	116
52	Sensitivity analysis of ship traffic in restricted two-way waterways considering the impact of LNG carriers. Ocean Engineering, 2019, 192, 106556.	1.9	9
53	Hydrogen sulfide removal using diatomite. AIP Conference Proceedings, 2019, , .	0.3	1
54	Absorption and Removal Efficiency of Low-Partial-Pressure H ₂ S in a Tetramethylammonium Glycinate Activated N-Methyldiethanolamine Aqueous Solution. Energy & Fuels, 2019, 33, 8413-8422.	2.5	12
55	Impact of pyrone group on H ₂ S catalytic oxidization. Science of the Total Environment, 2019, 695, 133875.	3.9	4
56	Highly efficient SO ₃ Ag-functionalized MIL-101(Cr) for adsorptive desulfurization of the gas stream: Experimental and DFT study. Chemical Engineering Journal, 2019, 363, 73-83.	6.6	50

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57	Outstanding reversible H ₂ S capture by an Al(<i>iii</i>)-based MOF. <i>Chemical Communications</i> , 2019, 55, 3049-3052.	2.2	63
58	Metal-Organic Frameworks for Helium Recovery from Natural Gas via N ₂ /He Separation: A Computational Screening. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3469-3475.	1.5	15
59	Ultrasensitive glassy polymer membranes with unprecedented performance for energy-efficient sour gas separation. <i>Science Advances</i> , 2019, 5, eaaw5459.	4.7	106
60	Toward Green Production of Water-Stable Metal-Organic Frameworks Based on High-Valence Metals with Low Toxicities. <i>ACS Sustainable Chemistry and Engineering</i> , 0, .	3.2	21
61	Phosphonium zwitterions for lighter and chemically-robust MOFs: highly reversible H ₂ S capture and solvent-triggered release. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16842-16849.	5.2	22
62	Facile and Versatile Sol-Gel Strategy for the Preparation of a High-Loaded ZnO/SiO ₂ Adsorbent for Room-Temperature H ₂ S Removal. <i>Langmuir</i> , 2019, 35, 7759-7768.	1.6	22
63	Stability of amine-functionalized CO ₂ adsorbents: a multifaceted puzzle. <i>Chemical Society Reviews</i> , 2019, 48, 3320-3405.	18.7	260
64	A Reliable Database for Ionic Volume and Surface: Its Application To Predict Molar Volume and Density of Ionic Liquid. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 10073-10083.	1.8	8
65	Combined Experimental and Theoretical Study on High Pressure Methane Solubility in Natural Deep Eutectic Solvents. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 8097-8111.	1.8	34
66	Nitrogen-Decorated, Ordered Mesoporous Carbon Spheres as High-Efficient Catalysts for Selective Capture and Oxidation of H ₂ S. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7609-7618.	3.2	84
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68	Self-Cleaning of Interfacial Oil Between Polymer Composites with Porous Zeolite Microparticles and Their Self-Lubrication Properties. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801889.	1.9	10
69	Humidity swing adsorption of H ₂ S by fibrous polymeric ionic liquids (PILs). <i>Separation and Purification Technology</i> , 2019, 217, 1-7.	3.9	14
70	Thermodynamic and molecular insights into the absorption of H ₂ S, CO ₂ , and CH ₄ in choline chloride plus urea mixtures. <i>AIChE Journal</i> , 2019, 65, e16574.	1.8	139
71	Cadmium-Based Coordination Polymers from 1D to 3D: Synthesis, Structures, and Photoluminescent and Electrochemiluminescent Properties. <i>ChemPlusChem</i> , 2019, 84, 190-202.	1.3	28
72	Metal-organic framework-based heterogeneous catalysts for the conversion of C1 chemistry: CO, CO ₂ and CH ₄ . <i>Coordination Chemistry Reviews</i> , 2019, 387, 79-120.	9.5	298
73	Boron-Decorated Graphitic Carbon Nitride (g-C ₃ N ₄): An Efficient Sensor for H ₂ S, SO ₂ , and NH ₃ Capture. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29513-29523.	1.5	39
74	Research advancements in sulfide scavengers for oil and gas sectors. <i>Reviews in Chemical Engineering</i> , 2021, 37, 663-686.	2.3	22

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75	Structural diversity, magnetic properties, and luminescent sensing of four coordination polymers based on 6-(3,5-dicarboxylphenyl)nicotinic acid. <i>Journal of Solid State Chemistry</i> , 2019, 271, 40-46.	1.4	13
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77	Quantitative structural determination of active sites from in situ and operando XANES spectra: From standard ab initio simulations to chemometric and machine learning approaches. <i>Catalysis Today</i> , 2019, 336, 3-21.	2.2	70
78	Chemical Liquid Deposition Modified 4A Zeolite as a Size-Selective Adsorbent for Methane Upgrading, CO ₂ Capture and Air Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3301-3308.	3.2	51
79	Capturing ability for COS gas by a strong bridge bonding of a pair of potassium anchored on carbonate of activated carbon at low temperatures. <i>Separation and Purification Technology</i> , 2019, 211, 421-429.	3.9	14
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81	A sustainable design of ZnO-based adsorbent for robust H ₂ S uptake and secondary utilization as hydrogenation catalyst. <i>Chemical Engineering Journal</i> , 2020, 382, 122892.	6.6	28
82	Automated detection and localization system of myocardial infarction in single-beat ECG using Dual-Q TQWT and wavelet packet tensor decomposition. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 184, 105120.	2.6	31
83	Probing the room-temperature oxidative desulfurization activity of three-dimensional alkaline graphene aerogel. <i>Applied Catalysis B: Environmental</i> , 2020, 262, 118266.	10.8	59
84	Recent progress on solution and materials chemistry for the removal of hydrogen sulfide from various gas plants. <i>Journal of Molecular Liquids</i> , 2020, 297, 111886.	2.3	50
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91	Hydrogen sulfide conversion: How to capture hydrogen and sulfur by photocatalysis. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2020, 42, 100339.	5.6	54
92	A Decade of UiO-66 Research: A Historic Review of Dynamic Structure, Synthesis Mechanisms, and Characterization Techniques of an Archetypal Metal-Organic Framework. <i>Crystal Growth and Design</i> , 2020, 20, 1347-1362.	1.4	306

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94	The adsorption of hydrogen sulfide in calcite pores: A molecular simulation study. <i>Journal of Molecular Liquids</i> , 2020, 299, 112253.	2.3	15
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96	Hydrogen sulfide removal from biogas using ion-exchanged nanostructured NaA zeolite for fueling solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 31027-31040.	3.8	16
97	Capture of Sulfur Mustard by Pillar[5]arene: From Host-Guest Complexation to Efficient Adsorption Using Nonporous Adaptive Crystals. <i>IScience</i> , 2020, 23, 101443.	1.9	20
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99	Impurities in biogas: Analytical strategies, occurrence, effects and removal technologies. <i>Biomass and Bioenergy</i> , 2020, 143, 105878.	2.9	41
100	Dynamic Desulfurization Process over Porous Zn ²⁺ Cu-Based Materials in a Packed Column: Adsorption Kinetics and Breakthrough Modeling. <i>Energy & Fuels</i> , 2020, 34, 16552-16559.	2.5	3
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107	Functional metal-organic frameworks as effective sensors of gases and volatile compounds. <i>Chemical Society Reviews</i> , 2020, 49, 6364-6401.	18.7	784
108	Highly Dispersed Potassium-Based Nanowire Structure for Selectively Capturing Trace Hydrogen Chloride in H ₂ S/CO ₂ Environments. <i>Energy & Fuels</i> , 2020, 34, 11712-11716.	2.5	4
109	Hydrogen Sulfide (H ₂ S) Removal via MOFs. <i>Materials</i> , 2020, 13, 3640.	1.3	43
110	Ultrasonic-assisted preparation of highly active Co ₃ O ₄ /MCM-41 adsorbent and its desulfurization performance for low H ₂ S concentration gas. <i>RSC Advances</i> , 2020, 10, 30214-30222.	1.7	4

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112	Hydrogen sulfide removal from biogas on ZIF-derived nitrogen-doped carbons. <i>Catalysis Today</i> , 2020, 371, 221-221.	2.2	4
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114	Removal of Hydrogen Sulfide From Various Industrial Gases: A Review of The Most Promising Adsorbing Materials. <i>Catalysts</i> , 2020, 10, 521.	1.6	137
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116	Chemistry of H ₂ S over the surface of Common solid sorbents in industrial natural gas desulfurization. <i>Catalysis Today</i> , 2021, 371, 204-220.	2.2	39
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118	Recovery of Hydrogen and Sulfur by Electrolysis of Ionized H ₂ S in an Amine-Containing Organic Electrolyte with Highly Temperature-Dependent Sulfur Solubility. <i>Energy & Fuels</i> , 2020, 34, 7756-7762.	2.5	16
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123	Experimental Bench-Scale Study of Residual Biomass Syngas Desulfurization Using ZnO-Based Adsorbents. <i>Energy & Fuels</i> , 2020, 34, 3326-3335.	2.5	9
124	Metal-Organic Frameworks against Toxic Chemicals. <i>Chemical Reviews</i> , 2020, 120, 8130-8160.	23.0	406
125	Partially Reversible H ₂ S Adsorption by MFM-300(Sc): Formation of Polysulfides. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18885-18892.	4.0	34
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127	Porous Material Screening and Evaluation for Deep Desulfurization of Dry Air. <i>Langmuir</i> , 2020, 36, 2775-2785.	1.6	10
128	Hydrogen Sulfide Removal from Biogas and Sulfur Production by Autotrophic Denitrification in a Gas-Lift Bioreactor. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 10480-10489.	3.2	13

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130	Preparation and oil adsorption properties of hydrophobic microcrystalline cellulose aerogel. <i>Cellulose</i> , 2020, 27, 7663-7675.	2.4	54
131	On the impact of copper local environment on hydrogen sulfide adsorption within microporous AlPO ₄ -5. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104245.	3.3	6
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135	One-pot synthesis of core-shell structured SSZ-13 zeolite using aluminum isopropoxide as an aluminum source. <i>Materials Letters</i> , 2020, 266, 127497.	1.3	7
136	Defect creation by benzoic acid in Cu-Based Metal-Organic frameworks for enhancing sulfur capture. <i>Microporous and Mesoporous Materials</i> , 2020, 298, 110070.	2.2	26
137	Post-synthetic metal-ion metathesis in a single-crystal-to-single-crystal process: improving the gas adsorption and separation capacity of an indium-based metal-organic framework. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1591-1597.	3.0	9
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140	Design of Highly Nitrogen-Doped, Two-Dimensional Hierarchical Porous Carbons with Superior Performance for Selective Capture of CO ₂ and SO ₂ . <i>Energy & Fuels</i> , 2020, 34, 3557-3565.	2.5	10
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