

Marty Lail

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

639
citations

686830

13
h-index

580395

25
g-index

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all docs

30
docs citations

30
times ranked

961
citing authors

#	ARTICLE	IF	CITATIONS
1	Solvothermal synthesis of MOF-derived supported Ru nanocatalysts for low-temperature ammonia synthesis. <i>Catalysis Today</i> , 2022, 387, 23-27.	2.2	4
2	Aerosol emissions from water-lean solvents for post-combustion CO ₂ capture. <i>International Journal of Greenhouse Gas Control</i> , 2021, 106, 103284.	2.3	9
3	Snowflake porous multi-metal oxide nanocatalysts from metallocene@metal organic framework precursors. <i>CrystEngComm</i> , 2021, 23, 533-537.	1.3	1
4	Sorbents screening for post-combustion CO ₂ capture via combined temperature and pressure swing adsorption. <i>Chemical Engineering Journal</i> , 2020, 380, 122201.	6.6	55
5	MOF-derived nanostructured catalysts for low-temperature ammonia synthesis. <i>Catalysis Science and Technology</i> , 2020, 10, 105-112.	2.1	13
6	A single-component water-lean post-combustion CO ₂ capture solvent with exceptionally low operational heat and total costs of capture – comprehensive experimental and theoretical evaluation. <i>Energy and Environmental Science</i> , 2020, 13, 4106-4113.	15.6	47
7	Electrochemical carbon dioxide reduction to isopropanol using novel carbonized copper metal organic framework derived electrodes. <i>Journal of CO₂ Utilization</i> , 2020, 39, 101159.	3.3	30
8	Experimental Study of a Hydrophobic Solvent for Natural Gas Sweetening Based on the Solubility and Selectivity for Light Hydrocarbons (CH ₄ , C ₂ H ₆) and Acid Gases (CO ₂ and H ₂ S) at 298–353 K. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 545-556.	1.0	9
9	CaCo _x Zr _{1-x} O ₃ Perovskites as Oxygen-Selective Sorbents for Air Separation. <i>ChemSusChem</i> , 2019, 12, 2598-2604.	3.6	9
10	Gas reactions under intrapore condensation regime within tailored metal-organic framework catalysts. <i>Nature Communications</i> , 2019, 10, 2076.	5.8	45
11	Synthesis of Soluble Metal Organic Framework Composites for Mixed Matrix Membranes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15638-15645.	4.0	9
12	Task-Specific Ionic Liquids Functionalized by Cobalt(II) Salen for Room Temperature Biomimetic Dioxygen Binding. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 334-341.	1.8	11
13	Pd doped CaCo _{1-x} Zr _x O ₃ perovskites for automotive emissions control. <i>Catalysis Today</i> , 2019, 320, 30-39.	2.2	9
14	Absorption rates of carbon dioxide in amines in hydrophilic and hydrophobic solvents. <i>Chemical Engineering Journal</i> , 2018, 348, 514-525.	6.6	24
15	Flying MOFs: polyamine-containing fluidized MOF/SiO ₂ hybrid materials for CO ₂ capture from post-combustion flue gas. <i>Chemical Science</i> , 2018, 9, 4589-4599.	3.7	27
16	Oxygen Removal from Oxy-Combustion Flue Gas for CO ₂ Purification via Catalytic Methane Oxidation. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 1954-1960.	1.8	13
17	Transformation of single MOF nanocrystals into single nanostructured catalysts within mesoporous supports: a platform for pioneer fluidized-nanoreactor hydrogen carriers. <i>Chemical Communications</i> , 2018, 54, 8462-8465.	2.2	11
18	Phosphorus Dendrimer Derived Solid Sorbents for CO ₂ Capture from Post-Combustion Gas Streams. <i>Energy & Fuels</i> , 2018, 32, 8658-8667.	2.5	12

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19	Synthesis of Fluidized CO ₂ Sorbents Based on Diamine Coordinated to Metal-Organic Frameworks by Direct Conversion of Metal Oxides Supported on Mesoporous Silica. <i>Chemistry - A European Journal</i> , 2018, 24, 10612-10616.	1.7	9
20	Phosphorous dendrimer bound polyethyleneimine as solid sorbents for post-combustion CO ₂ capture. <i>Chemical Engineering Journal</i> , 2018, 350, 1056-1065.	6.6	20
21	Confining Metal-Organic Framework Nanocrystals within Mesoporous Materials: A General Approach via "Solid-State" Synthesis. <i>Chemistry of Materials</i> , 2017, 29, 9628-9638.	3.2	39
22	Boosting the Catalytic Performance of Metal-Organic Frameworks for Steroid Transformations by Confinement within a Mesoporous Scaffold. <i>Angewandte Chemie</i> , 2017, 129, 13487-13491.	1.6	9
23	Boosting the Catalytic Performance of Metal-Organic Frameworks for Steroid Transformations by Confinement within a Mesoporous Scaffold. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13302-13306.	7.2	63
24	RTI's Solid Sorbent-Based CO ₂ Capture Process: Technical and Economic Lessons Learned for Application in Coal-fired, NGCC, and Cement Plants. <i>Energy Procedia</i> , 2017, 114, 2506-2524.	1.8	41
25	CO ₂ Capture Using Fluorinated Hydrophobic Solvents. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 11958-11966.	1.8	24
26	Advanced Solid Sorbent-Based CO ₂ Capture Process. <i>Energy Procedia</i> , 2014, 63, 2216-2229.	1.8	14
27	Non-Aqueous Solvent (NAS) CO ₂ Capture Process. <i>Energy Procedia</i> , 2014, 63, 580-594.	1.8	78
28	Mechanistic study of CO formation from CO ₂ using a mixed-metal oxide of tin, iron, and aluminum. <i>RSC Advances</i> , 2014, 4, 45198-45206.	1.7	1
29	Development of a rate-based model for CO ₂ capture using a non-aqueous hydrophobic solvent. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1