Marty Lail

List of Publications by Year
in descending order

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29 papers	639 citations	686830 13 h-index	580395 25 g-index
30 all docs	30 docs citations	30 times ranked	961 citing authors

#	Article	IF	Citations
1	Non-Aqueous Solvent (NAS) CO2 Capture Process. Energy Procedia, 2014, 63, 580-594.	1.8	78
2	Boosting the Catalytic Performance of Metalâ€“Organic Frameworks for Steroid Transformations by Confinement within a Mesoporous Scaffold. Angewandte Chemie - International Edition, 2017, 56, 13302-13306.	7.2	63
3	Sorbents screening for post-combustion CO2 capture via combined temperature and pressure swing adsorption. Chemical Engineering Journal, 2020, 380, 122201.	6.6	55
4	A single-component water-lean post-combustion CO₂ capture solvent with exceptionally low operational heat and total costs of capture â€“ comprehensive experimental and theoretical evaluation. Energy and Environmental Science, 2020, 13, 4106-4113.	15.6	47
5	Gas reactions under intrapore condensation regime within tailored metalâ€“organic framework catalysts. Nature Communications, 2019, 10, 2076.	5.8	45
6	RTI's Solid Sorbent-Based CO2 Capture Process: Technical and Economic Lessons Learned for Application in Coal-fired, NGCC, and Cement Plants. Energy Procedia, 2017, 114, 2506-2524.	1.8	41
7	Confining Metalâ€“Organic Framework Nanocrystals within Mesoporous Materials: A General Approach via â€œSolid-Stateâ€•Synthesis. Chemistry of Materials, 2017, 29, 9628-9638.	3.2	39
8	Electrochemical carbon dioxide reduction to isopropanol using novel carbonized copper metal organic framework derived electrodes. Journal of CO2 Utilization, 2020, 39, 101159.	3.3	30
9	Flying MOFs: polyamine-containing fluidized MOF/SiO₂ hybrid materials for CO₂ capture from post-combustion flue gas. Chemical Science, 2018, 9, 4589-4599.	3.7	27
10	CO₂ Capture Using Fluorinated Hydrophobic Solvents. Industrial & Engineering Chemistry Research, 2017, 56, 11958-11966.	1.8	24
11	Absorption rates of carbon dioxide in amines in hydrophilic and hydrophobic solvents. Chemical Engineering Journal, 2018, 348, 514-525.	6.6	24
12	Phosphorous dendrimer bound polyethyleneimine as solid sorbents for post-combustion CO2 capture. Chemical Engineering Journal, 2018, 350, 1056-1065.	6.6	20
13	Advanced Solid Sorbent-Based CO2 Capture Process. Energy Procedia, 2014, 63, 2216-2229.	1.8	14
14	Oxygen Removal from Oxy-Combustion Flue Gas for CO₂ Purification via Catalytic Methane Oxidation. Industrial & Engineering Chemistry Research, 2018, 57, 1954-1960.	1.8	13
15	MOF-derived nanostructured catalysts for low-temperature ammonia synthesis. Catalysis Science and Technology, 2020, 10, 105-112.	2.1	13
16	Phosphorus Dendrimer Derived Solid Sorbents for CO2 Capture from Post-Combustion Gas Streams. Energy & Fuels, 2018, 32, 8658-8667.	2.5	12
17	Transformation of single MOF nanocrystals into single nanostructured catalysts within mesoporous supports: a platform for pioneer fluidized-nanoreactor hydrogen carriers. Chemical Communications, 2018, 54, 8462-8465.	2.2	11
18	Task-Specific Ionic Liquids Functionalized by Cobalt(II) Salen for Room Temperature Biomimetic Dioxygen Binding. Industrial & Engineering Chemistry Research, 2019, 58, 334-341.	1.8	11

#	Article	IF	Citations
19	Boosting the Catalytic Performance of Metalâ€“Organic Frameworks for Steroid Transformations by Confinement within a Mesoporous Scaffold. Angewandte Chemie, 2017, 129, 13487-13491.	1.6	9
20	Synthesis of Fluidized CO 2 Sorbents Based on Diamine Coordinated to Metalâ€“Organic Frameworks by Direct Conversion of Metal Oxides Supported on Mesoporous Silica. Chemistry - A European Journal, 2018, 24, 10612-10616.	1.7	9
21	Experimental Study of a Hydrophobic Solvent for Natural Gas Sweetening Based on the Solubility and Selectivity for Light Hydrocarbons (CH₄, C₂H₆) and Acid Gases (CO₂ and H₂S) at 298â€“353 K. Journal of Chemical & Engineering Data, 2019, 64, 545-556.	1.0	9
22	CaCo x Zr 1â^' x O 3â^' Î´ Perovskites as Oxygenâ€Selective Sorbents for Air Separation. ChemSusChem, 2019, 12, 2598-2604.	3.6	9
23	Synthesis of Soluble Metal Organic Framework Composites for Mixed Matrix Membranes. ACS Applied Materials & Interfaces, 2019, 11, 15638-15645.	4.0	9
24	Pd doped CaCo Zr1-O3 perovskites for automotive emissions control. Catalysis Today, 2019, 320, 30-39.	2.2	9
25	Aerosol emissions from water-lean solvents for post-combustion CO2 capture. International Journal of Greenhouse Gas Control, 2021, 106, 103284.	2.3	9
26	Solvothermal synthesis of MOF-derived supported Ru nanocatalysts for low-temperature ammonia synthesis. Catalysis Today, 2022, 387, 23-27.	2.2	4
27	Mechanistic study of CO formation from CO2 using a mixed-metal oxide of tin, iron, and aluminum. RSC Advances, 2014, 4, 45198-45206.	1.7	1
28	Development of a rate-based model for CO2 capture using a non-aqueous hydrophobic solvent. SSRN Electronic Journal, 0, , .	0.4	1
29	Snowflake porous multi-metal oxide nanocatalysts from metallocene@metal organic framework precursors. CrystEngComm, 2021, 23, 533-537.	1.3	1