

Harshul Thakkar

List of Publications by Year in descending order

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17
papers

1,261
citations

567281

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888059

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all docs

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docs citations

17
times ranked

1289
citing authors

#	ARTICLE	IF	CITATIONS
1	3D-Printed Metal-Organic Framework Monoliths for Gas Adsorption Processes. ACS Applied Materials & Interfaces, 2017, 9, 35908-35916.	8.0	216
2	3D-Printed Zeolite Monoliths for CO ₂ Removal from Enclosed Environments. ACS Applied Materials & Interfaces, 2016, 8, 27753-27761.	8.0	201
3	Recent Advances in 3D Printing of Structured Materials for Adsorption and Catalysis Applications. Chemical Reviews, 2021, 121, 6246-6291.	47.7	151
4	MOF-74 and UTSA-16 film growth on monolithic structures and their CO ₂ adsorption performance. Chemical Engineering Journal, 2017, 313, 1346-1353.	12.7	107
5	Formulation of Aminosilica Adsorbents into 3D-Printed Monoliths and Evaluation of Their CO ₂ Capture Performance. ACS Applied Materials & Interfaces, 2017, 9, 7489-7498.	8.0	106
6	Development of 3D-printed polymer-zeolite composite monoliths for gas separation. Chemical Engineering Journal, 2018, 348, 109-116.	12.7	90
7	Novel Zeolite-5A@MOF-74 Composite Adsorbents with Core-Shell Structure for H ₂ Purification. ACS Applied Materials & Interfaces, 2018, 10, 29656-29666.	8.0	71
8	Development of Potassium- and Sodium-Promoted CaO Adsorbents for CO ₂ Capture at High Temperatures. Industrial & Engineering Chemistry Research, 2017, 56, 8292-8300.	3.7	52
9	MOF-GO Hybrid Nanocomposite Adsorbents for Methane Storage. Industrial & Engineering Chemistry Research, 2018, 57, 17470-17479.	3.7	50
10	CO ₂ Capture from Air Using Amine-Functionalized Kaolin-Based Zeolites. Chemical Engineering and Technology, 2017, 40, 1999-2007.	1.5	49
11	Aminosilane-Grafted Zirconia-Titania-Silica Nanoparticles/Torlon Hollow Fiber Composites for CO ₂ Capture. ChemSusChem, 2016, 9, 1166-1177.	6.8	38
12	Adsorption of Ethane and Ethylene over 3D-Printed Ethane-Selective Monoliths. ACS Sustainable Chemistry and Engineering, 2018, 6, 15228-15237.	6.7	35
13	Adsorptive Removal of Formaldehyde from Air Using Mixed-Metal Oxides. Industrial & Engineering Chemistry Research, 2018, 57, 12916-12925.	3.7	33
14	Effect of Post-Functionalization Conditions on the Carbon Dioxide Adsorption Properties of Aminosilane-Grafted Zirconia/Titania/Silica-Poly(amide-imide) Composite Hollow Fiber Sorbents. Energy Technology, 2017, 5, 327-337.	3.8	24
15	Diffusion kinetics of ethane, ethylene, and their binary mixtures in ethane-selective adsorbents. Separation and Purification Technology, 2020, 230, 115872.	7.9	17
16	Reduced building energy consumption by combined indoor CO ₂ and H ₂ O composition control. Applied Energy, 2022, 322, 119526.	10.1	13
17	Direct Air Capture of CO ₂ in Enclosed Environments: Design under Uncertainty and Techno-Economic Analysis. Computer Aided Chemical Engineering, 2018, 44, 2179-2184.	0.5	8