

Deepika Malhotra

List of Publications by Year in descending order

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16
papers

492
citations

933447

10
h-index

940533

16
g-index

17
all docs

17
docs citations

17
times ranked

523
citing authors

#	ARTICLE	IF	CITATIONS
1	Water-Lean Solvents for Post-Combustion CO ₂ Capture: Fundamentals, Uncertainties, Opportunities, and Outlook. <i>Chemical Reviews</i> , 2017, 117, 9594-9624.	47.7	249
2	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.	30.8	47
3	Directed Hydrogen Bond Placement: Low Viscosity Amine Solvents for CO ₂ Capture. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7535-7542.	6.7	34
4	Reinventing Design Principles for Developing Low-Viscosity Carbon Dioxide-Binding Organic Liquids for Flue Gas Clean Up. <i>ChemSusChem</i> , 2017, 10, 636-642.	6.8	26
5	Structure-property reduced order model for viscosity prediction in single-component CO ₂ -binding organic liquids. <i>Green Chemistry</i> , 2016, 18, 6004-6011.	9.0	20
6	Mesoscopic Structure Facilitates Rapid CO ₂ Transport and Reactivity in CO ₂ Capture Solvents. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5765-5771.	4.6	19
7	Are Water-lean Solvent Systems Viable for Post-Combustion CO ₂ Capture?. <i>Energy Procedia</i> , 2017, 114, 756-763.	1.8	18
8	Molecular-Level Overhaul of 1-Aminopropyl Aminosilicone/Triethylene Glycol Post-Combustion CO ₂ Capture Solvents. <i>ChemSusChem</i> , 2020, 13, 3429-3438.	6.8	16
9	Evaluating Transformational Solvent Systems for Post-combustion CO ₂ Separations. <i>Energy Procedia</i> , 2014, 63, 8144-8152.	1.8	15
10	Phase-Change Aminopyridines as Carbon Dioxide Capture Solvents. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 7534-7540.	3.7	14
11	Integrated Solvent Design for CO ₂ Capture and Viscosity Tuning. <i>Energy Procedia</i> , 2017, 114, 726-734.	1.8	10
12	Critical fuel property evaluation for potential gasoline and diesel biofuel blendstocks with low sample volume availability. <i>Fuel</i> , 2019, 238, 26-33.	6.4	9
13	Evaluation of a Third Generation Single-Component Water-Lean Diamine Solvent for Post-Combustion CO ₂ Capture. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 4522-4528.	6.7	6
14	Molecular design and shear stability correlations of dendritic polymethacrylates. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 1114-1124.	3.4	5
15	Subtle changes in hydrogen bond orientation result in glassification of carbon capture solvents. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19009-19021.	2.8	3
16	AMPHIPHILIC WATER-LEAN CARBON CAPTURE SOLVENT WETTING BEHAVIOR VIA DECOMPOSITION BY STAINLESS-STEEL INTERFACES. <i>ChemSusChem</i> , 2021, 14, 5283-5292.	6.8	1