

Charles J Freeman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2480619/publications.pdf>

Version: 2024-02-01

16
papers

448
citations

759233

12
h-index

1058476

14
g-index

16
all docs

16
docs citations

16
times ranked

528
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving the regeneration of CO ₂ -binding organic liquids with a polarity change. Energy and Environmental Science, 2013, 6, 2233.	30.8	79
2	Performance of single-component CO ₂ -binding organic liquids (CO ₂ BOLs) for post combustion CO ₂ capture. Chemical Engineering Journal, 2011, 171, 794-800.	12.7	76
3	Hydrophobic and moisture-stable metal-organic frameworks. Dalton Transactions, 2015, 44, 13490-13497.	3.3	55
4	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. Energy and Environmental Science, 2020, 13, 4106-4113.	30.8	47
5	Dynamic Acid/Base Equilibrium in Single Component Switchable Ionic Liquids and Consequences on Viscosity. Journal of Physical Chemistry Letters, 2016, 7, 1646-1652.	4.6	33
6	Techno-economic comparison of various process configurations for post-combustion carbon capture using a single-component water-lean solvent. International Journal of Greenhouse Gas Control, 2021, 106, 103279.	4.6	27
7	Structure-property reduced order model for viscosity prediction in single-component CO ₂ -binding organic liquids. Green Chemistry, 2016, 18, 6004-6011.	9.0	20
8	Are Water-lean Solvent Systems Viable for Post-Combustion CO ₂ Capture?. Energy Procedia, 2017, 114, 756-763.	1.8	18
9	CO ₂ -Binding-Organic-Liquids-Enhanced CO ₂ Capture using Polarity-Swing-Assisted Regeneration. Energy Procedia, 2013, 37, 285-291.	1.8	17
10	Measuring CO ₂ and N ₂ O Mass Transfer into GAP-1 CO ₂ -Capture Solvents at Varied Water Loadings. Industrial & Engineering Chemistry Research, 2017, 56, 4830-4836.	3.7	17
11	Evaluating Transformational Solvent Systems for Post-combustion CO ₂ Separations. Energy Procedia, 2014, 63, 8144-8152.	1.8	15
12	Measuring Nitrous Oxide Mass Transfer into Non-Aqueous CO ₂ BOL CO ₂ Capture Solvents. Industrial & Engineering Chemistry Research, 2016, 55, 4720-4725.	3.7	13
13	Bench-Scale Testing and Process Performance Projections of CO ₂ Capture by CO ₂ -Binding Organic Liquids (CO ₂ BOLs) with and without Polarity-Swing-Assisted Regeneration. Energy & Fuels, 0, .	5.1	11
14	Assessing Anhydrous Tertiary Alkanolamines for High-Pressure Gas Purifications. Industrial & Engineering Chemistry Research, 2013, 52, 17562-17572.	3.7	10
15	Integrated Solvent Design for CO ₂ Capture and Viscosity Tuning. Energy Procedia, 2017, 114, 726-734.	1.8	10
16	A new approach to mold productivity improvement. Advances in Polymer Technology, 1981, 1, 20-23.	1.7	0