Charles J Freeman

List of Publications by Year
in descending order

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	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
2	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.	30.8	47
3	Measuring CO₂ and N₂O Mass Transfer into GAP-1 CO₂â€“Capture Solvents at Varied Water Loadings. Industrial & Engineering Chemistry Research, 2017, 56, 4830-4836.	3.7	17
4	Integrated Solvent Design for CO2 Capture and Viscosity Tuning. Energy Procedia, 2017, 114, 726-734.	1.8	10
5	Are Water-lean Solvent Systems Viable for Post-Combustion CO2 Capture?. Energy Procedia, 2017, 114, 756-763.	1.8	18
6	Structureâ€“property reduced order model for viscosity prediction in single-component CO₂-binding organic liquids. Green Chemistry, 2016, 18, 6004-6011.	9.0	20
7	Measuring Nitrous Oxide Mass Transfer into Non-Aqueous CO₂BOL CO₂ Capture Solvents. Industrial & Engineering Chemistry Research, 2016, 55, 4720-4725.	3.7	13
8	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
9	Hydrophobic and moisture-stable metalâ€“organic frameworks. Dalton Transactions, 2015, 44, 13490-13497.	3.3	55
10	Evaluating Transformational Solvent Systems for Post-combustion CO2 Separations. Energy Procedia, 2014, 63, 8144-8152.	1.8	15
11	Improving the regeneration of CO2-binding organic liquids with a polarity change. Energy and Environmental Science, 2013, 6, 2233.	30.8	79
12	CO2-Binding-Organic-Liquids-Enhanced CO2 Capture using Polarity-Swing-Assisted Regeneration. Energy Procedia, 2013, 37, 285-291.	1.8	17
13	Assessing Anhydrous Tertiary Alkanolamines for High-Pressure Gas Purifications. Industrial & Engineering Chemistry Research, 2013, 52, 17562-17572.	3.7	10
14	Performance of single-component CO2-binding organic liquids (CO2BOLs) for post combustion CO2 capture. Chemical Engineering Journal, 2011, 171, 794-800.	12.7	76
15	A new approach to mold productivity improvement. Advances in Polymer Technology, 1981, 1, 20-23.	1.7	0
16	Bench-Scale Testing and Process Performance Projections of CO₂Capture by CO₂â€“Binding Organic Liquids (CO₂BOLs) with and without Polarity-Swing-Assisted Regeneration. Energy & Fuels, 0, , .	5.1	11