Christopher J Thompson

List of Publications by Year
in descending order

19	993	567144 15	794469 19
papers	citations	h-index	g-index

19	19	19	854
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In Situ Infrared Spectroscopic Study of Forsterite Carbonation in Wet Supercritical CO₂. Environmental Science & Technology, 2011, 45, 6204-6210.	4.6	153
2	In Situ Molecular Spectroscopic Evidence for CO₂ Intercalation into Montmorillonite in Supercritical Carbon Dioxide. Langmuir, 2012, 28, 7125-7128.	1.6	117
3	Field Validation of Supercritical CO₂ Reactivity with Basalts. Environmental Science and Technology Letters, 2017, 4, 6-10.	3.9	117
4	Competitive sorption of CO2 and H2O in 2:1 layer phyllosilicates. Geochimica Et Cosmochimica Acta, 2015, 161, 248-257.	1.6	98
5	In Situ Study of CO₂ and H₂O Partitioning between Naâ€“Montmorillonite and Variably Wet Supercritical Carbon Dioxide. Langmuir, 2014, 30, 6120-6128.	1.6	97
6	Effect of Water Chemistry and Hydrodynamics on Nitrogen Transformation Activity and Microbial Community Functional Potential in Hyporheic Zone Sediment Columns. Environmental Science & Technology, 2017, 51, 4877-4886.	4.6	79
7	In Situ Infrared Spectroscopic Study of Brucite Carbonation in Dry to Water-Saturated Supercritical Carbon Dioxide. Journal of Physical Chemistry A, 2012, 116, 4768-4777.	1.1	61
8	Evidence for Carbonate Surface Complexation during Forsterite Carbonation in Wet Supercritical Carbon Dioxide. Langmuir, 2015, 31, 7533-7543.	1.6	47
9	Comparative reactivity study of forsterite and antigorite in wet supercritical CO2 by in situ infrared spectroscopy. International Journal of Greenhouse Gas Control, 2013, 18, 246-255.	2.3	43
10	Automated high-pressure titration system with in situ infrared spectroscopic detection. Review of Scientific Instruments, 2014, 85, 044102.	0.6	35
11	Water Solubility at Saturation for CO₂â€“CH₄ Mixtures at 323.2 K and 9.000 MPa. Journal of Chemical & Engineering Data, 2017, 62, 1608-1614.	1.0	25
12	Critical Water Coverage during Forsterite Carbonation in Thin Water Films: Activating Dissolution and Mass Transport. Environmental Science & Technology, 2020, 54, 6888-6899.	4.6	22
13	Surface-Catalyzed Oxygen Exchange during Mineral Carbonation in Nanoscale Water Films. Journal of Physical Chemistry C, 2019, 123, 12871-12885.	1.5	21
14	Synthesis of nanometer-sized fayalite and magnesium-iron(II) mixture olivines. Journal of Colloid and Interface Science, 2018, 515, 129-138.	5.0	19
15	Low temperature and limited water activity reveal a pathway to magnesiteviaamorphous magnesium carbonate. Chemical Communications, 2020, 56, 12154-12157.	2.2	17
16	Thin Water Films Enable Low-Temperature Magnesite Growth Under Conditions Relevant to Geologic Carbon Sequestration. Environmental Science & Technology, 2021, 55, 12539-12548.	4.6	17
17	Water Structure Controls Carbonic Acid Formation in Adsorbed Water Films. Journal of Physical Chemistry Letters, 2018, 9, 4988-4994.	2.1	16
18	Evaluation of iodine speciation and 129I/127I ratios at low concentrations in environmental samples using IC-ICP-MS. Journal of Radioanalytical and Nuclear Chemistry, 2021, 327, 929-937.	0.7	6

#	Article	IF	Citations
19	Synergistic Coupling of CO₂ and H₂O during Expansion of Clays in Supercritical CO₂â€“CH₄ Fluid Mixtures. Environmental Science & Technology, 2021, 55, 11192-11203.	4.6	3