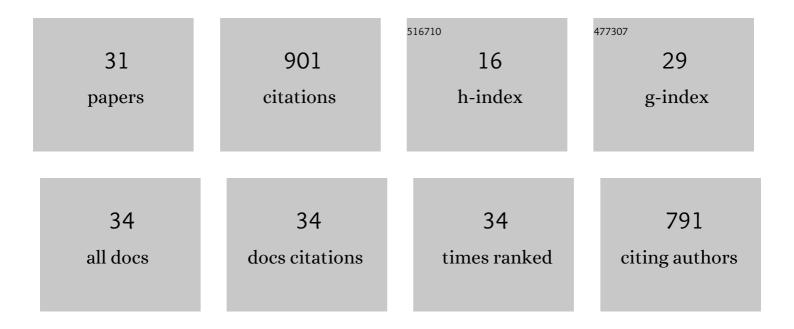
Quin R S Miller

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	<i>In Situ</i> Molecular Spectroscopic Evidence for CO ₂ Intercalation into Montmorillonite in Supercritical Carbon Dioxide. Langmuir, 2012, 28, 7125-7128.	3.5	117
2	Competitive sorption of CO2 and H2O in 2:1 layer phyllosilicates. Geochimica Et Cosmochimica Acta, 2015, 161, 248-257.	3.9	98
3	Insights into silicate carbonation processes in water-bearing supercritical CO2 fluids. International Journal of Greenhouse Gas Control, 2013, 15, 104-118.	4.6	80
4	CO2 Utilization and Storage in Shale Gas Reservoirs: Experimental Results and Economic Impacts. Energy Procedia, 2014, 63, 7844-7851.	1.8	69
5	Quantification of CO ₂ Mineralization at the Wallula Basalt Pilot Project. Environmental Science & Technology, 2020, 54, 14609-14616.	10.0	67
6	Experimental Study of Porosity Changes in Shale Caprocks Exposed to CO ₂ -Saturated Brines I: Evolution of Mineralogy, Pore Connectivity, Pore Size Distribution, and Surface Area. Environmental Engineering Science, 2016, 33, 725-735.	1.6	56
7	Clay Hydration/dehydration in Dry to Water-saturated Supercritical CO2: Implications for Caprock Integrity. Energy Procedia, 2013, 37, 5443-5448.	1.8	39
8	Quantitative Review of Olivine Carbonation Kinetics: Reactivity Trends, Mechanistic Insights, and Research Frontiers. Environmental Science and Technology Letters, 2019, 6, 431-442.	8.7	31
9	Metastable solubility and local structure of amorphous calcium carbonate (ACC). Geochimica Et Cosmochimica Acta, 2020, 289, 196-206.	3.9	27
10	Impacts of Organic Ligands on Forsterite Reactivity in Supercritical CO ₂ Fluids. Environmental Science & Technology, 2015, 49, 4724-4734.	10.0	26
11	Anomalously low activation energy of nanoconfined MgCO ₃ precipitation. Chemical Communications, 2019, 55, 6835-6837.	4.1	25
12	Experimental Study of Porosity Changes in Shale Caprocks Exposed to Carbon Dioxide-Saturated Brine II: Insights from Aqueous Geochemistry. Environmental Engineering Science, 2016, 33, 736-744.	1.6	22
13	Tunable Manipulation of Mineral Carbonation Kinetics in Nanoscale Water Films via Citrate Additives. Environmental Science & Technology, 2018, 52, 7138-7148.	10.0	22
14	Surface-Catalyzed Oxygen Exchange during Mineral Carbonation in Nanoscale Water Films. Journal of Physical Chemistry C, 2019, 123, 12871-12885.	3.1	21
15	¹³ C Nuclear Magnetic Resonance Spectroscopy of Methane and Carbon Dioxide in a Natural Shale. ACS Earth and Space Chemistry, 2019, 3, 324-328.	2.7	19
16	Emerging investigator series: ion diffusivities in nanoconfined interfacial water films contribute to mineral carbonation thresholds. Environmental Science: Nano, 2020, 7, 1068-1081.	4.3	19
17	Desulfurization Efficiency Preserved in a Heterometallic MOF: Synthesis and Thermodynamically Controlled Phase Transition. Advanced Science, 2019, 6, 1802056.	11.2	17
18	Water Structure Controls Carbonic Acid Formation in Adsorbed Water Films. Journal of Physical Chemistry Letters, 2018, 9, 4988-4994.	4.6	16

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#	Article	IF	CITATIONS
19	Microporous and Flexible Framework Acoustic Metamaterials for Sound Attenuation and Contrast Agent Applications. ACS Applied Materials & amp; Interfaces, 2018, 10, 44226-44230.	8.0	15
20	Chemical Trapping of CO ₂ by Clay Minerals at Reservoir Conditions: Two Mechanisms Observed by in Situ High-Pressure and -Temperature Experiments. ACS Earth and Space Chemistry, 2019, 3, 1034-1046.	2.7	15
21	Silicate Carbonation in Supercritical CO2 Containing Dissolved H2O: An in situ High Pressure X-Ray Diffraction and Infrared Spectroscopy Study. Energy Procedia, 2013, 37, 5892-5896.	1.8	14
22	Pressurized in situ X-ray diffraction insights into super/subcritical carbonation reaction pathways of steelmaking slags and constituent silicate minerals. Journal of Supercritical Fluids, 2021, 171, 105191.	3.2	14
23	Molecular Intermediate in the Directed Formation of a Zeolitic Metal–Organic Framework. Journal of the American Chemical Society, 2020, 142, 17598-17606.	13.7	13
24	Experimental Studies of Reactivity and Transformations of Rocks and Minerals in Water-Bearing Supercritical CO2. , 2019, , 63-88.		12
25	Self-repairing polymer-modified cements for high temperature geothermal and fossil energy applications. Geothermics, 2020, 85, 101790.	3.4	12
26	Kinetics and Mechanisms of ZnO to ZlFâ€8 Transformations in Supercritical CO 2 Revealed by Inâ€Situ Xâ€ray Diffraction. ChemSusChem, 2020, 13, 2602-2612.	6.8	11
27	Experimental Study of Organic Ligand Transport in Supercritical CO2 Fluids and Impacts to Silicate Reactivity. Energy Procedia, 2014, 63, 3225-3233.	1.8	8
28	Nanoscale Interfacial Smoothing and Dissolution during Unconventional Reservoir Stimulation: Implications for Hydrocarbon Mobilization and Transport. ACS Applied Materials & Interfaces, 2021, 13, 15811-15819.	8.0	7
29	Synergistic Coupling of CO ₂ and H ₂ O during Expansion of Clays in Supercritical CO ₂ –CH ₄ Fluid Mixtures. Environmental Science & Technology, 2021, 55, 11192-11203.	10.0	3
30	Geophysical Monitoring with Seismic Metamaterial Contrast Agents. , 2019, , .		2
31	Porous Colloidal Nanoparticles as Injectable Multimodal Contrast Agents for Enhanced Geophysical Sensing. ACS Applied Materials & Interfaces, 2022, 14, 23420-23425.	8.0	1