

Quin R S Miller

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

901
citations

516710

16
h-index

477307

29
g-index

34
all docs

34
docs citations

34
times ranked

791
citing authors

#	ARTICLE	IF	CITATIONS
1	Porous Colloidal Nanoparticles as Injectable Multimodal Contrast Agents for Enhanced Geophysical Sensing. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 23420-23425.	8.0	1
2	Nanoscale Interfacial Smoothing and Dissolution during Unconventional Reservoir Stimulation: Implications for Hydrocarbon Mobilization and Transport. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15811-15819.	8.0	7
3	Pressurized in situ X-ray diffraction insights into super/subcritical carbonation reaction pathways of steelmaking slags and constituent silicate minerals. <i>Journal of Supercritical Fluids</i> , 2021, 171, 105191.	3.2	14
4	Synergistic Coupling of CO ₂ and H ₂ O during Expansion of Clays in Supercritical CO ₂ -CH ₄ Fluid Mixtures. <i>Environmental Science & Technology</i> , 2021, 55, 11192-11203.	10.0	3
5	Self-repairing polymer-modified cements for high temperature geothermal and fossil energy applications. <i>Geothermics</i> , 2020, 85, 101790.	3.4	12
6	Molecular Intermediate in the Directed Formation of a Zeolitic Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2020, 142, 17598-17606.	13.7	13
7	Quantification of CO ₂ Mineralization at the Wallula Basalt Pilot Project. <i>Environmental Science & Technology</i> , 2020, 54, 14609-14616.	10.0	67
8	Emerging investigator series: ion diffusivities in nanoconfined interfacial water films contribute to mineral carbonation thresholds. <i>Environmental Science: Nano</i> , 2020, 7, 1068-1081.	4.3	19
9	Metastable solubility and local structure of amorphous calcium carbonate (ACC). <i>Geochimica Et Cosmochimica Acta</i> , 2020, 289, 196-206.	3.9	27
10	Kinetics and Mechanisms of ZnO to ZIF-8 Transformations in Supercritical CO ₂ Revealed by In-Situ X-ray Diffraction. <i>ChemSusChem</i> , 2020, 13, 2602-2612.	6.8	11
11	Quantitative Review of Olivine Carbonation Kinetics: Reactivity Trends, Mechanistic Insights, and Research Frontiers. <i>Environmental Science and Technology Letters</i> , 2019, 6, 431-442.	8.7	31
12	Anomalously low activation energy of nanoconfined MgCO ₃ precipitation. <i>Chemical Communications</i> , 2019, 55, 6835-6837.	4.1	25
13	Chemical Trapping of CO ₂ by Clay Minerals at Reservoir Conditions: Two Mechanisms Observed by in Situ High-Pressure and -Temperature Experiments. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1034-1046.	2.7	15
14	Surface-Catalyzed Oxygen Exchange during Mineral Carbonation in Nanoscale Water Films. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12871-12885.	3.1	21
15	¹³ C Nuclear Magnetic Resonance Spectroscopy of Methane and Carbon Dioxide in a Natural Shale. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 324-328.	2.7	19
16	Desulfurization Efficiency Preserved in a Heterometallic MOF: Synthesis and Thermodynamically Controlled Phase Transition. <i>Advanced Science</i> , 2019, 6, 1802056.	11.2	17
17	Experimental Studies of Reactivity and Transformations of Rocks and Minerals in Water-Bearing Supercritical CO ₂ . , 2019, , 63-88.		12
18	Geophysical Monitoring with Seismic Metamaterial Contrast Agents. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
19	Microporous and Flexible Framework Acoustic Metamaterials for Sound Attenuation and Contrast Agent Applications. ACS Applied Materials & Interfaces, 2018, 10, 44226-44230.	8.0	15
20	Water Structure Controls Carbonic Acid Formation in Adsorbed Water Films. Journal of Physical Chemistry Letters, 2018, 9, 4988-4994.	4.6	16
21	Tunable Manipulation of Mineral Carbonation Kinetics in Nanoscale Water Films via Citrate Additives. Environmental Science & Technology, 2018, 52, 7138-7148.	10.0	22
22	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
23	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
24	Impacts of Organic Ligands on Forsterite Reactivity in Supercritical CO ₂ Fluids. Environmental Science & Technology, 2015, 49, 4724-4734.	10.0	26
25	Competitive sorption of CO ₂ and H ₂ O in 2:1 layer phyllosilicates. Geochimica Et Cosmochimica Acta, 2015, 161, 248-257.	3.9	98
26	Experimental Study of Organic Ligand Transport in Supercritical CO ₂ Fluids and Impacts to Silicate Reactivity. Energy Procedia, 2014, 63, 3225-3233.	1.8	8
27	CO ₂ Utilization and Storage in Shale Gas Reservoirs: Experimental Results and Economic Impacts. Energy Procedia, 2014, 63, 7844-7851.	1.8	69
28	Silicate Carbonation in Supercritical CO ₂ Containing Dissolved H ₂ O: An in situ High Pressure X-Ray Diffraction and Infrared Spectroscopy Study. Energy Procedia, 2013, 37, 5892-5896.	1.8	14
29	Clay Hydration/dehydration in Dry to Water-saturated Supercritical CO ₂ : Implications for Caprock Integrity. Energy Procedia, 2013, 37, 5443-5448.	1.8	39
30	Insights into silicate carbonation processes in water-bearing supercritical CO ₂ fluids. International Journal of Greenhouse Gas Control, 2013, 15, 104-118.	4.6	80
31	<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