

Katherine D Romanak

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,039
citations

430442

18
h-index

414034

32
g-index

41
all docs

41
docs citations

41
times ranked

972
citing authors

#	ARTICLE	IF	CITATIONS
1	Process-based approach to CO ₂ leakage detection by vadose zone gas monitoring at geologic CO ₂ storage sites. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	128
2	Assessing risk to fresh water resources from long term CO ₂ injection—laboratory and field studies. <i>Energy Procedia</i> , 2009, 1, 1957-1964.	1.8	86
3	Monitoring a large volume CO ₂ injection: Year two results from SECARB project at Denbury's Cranfield, Mississippi, USA. <i>Energy Procedia</i> , 2011, 4, 3478-3485.	1.8	84
4	Single-well push-pull test for assessing potential impacts of CO ₂ leakage on groundwater quality in a shallow Gulf Coast aquifer in Cranfield, Mississippi. <i>International Journal of Greenhouse Gas Control</i> , 2013, 18, 375-387.	2.3	70
5	Inverse Modeling of Water-Rock-CO ₂ Batch Experiments: Potential Impacts on Groundwater Resources at Carbon Sequestration Sites. <i>Environmental Science & Technology</i> , 2014, 48, 2798-2806.	4.6	69
6	Complex fluid flow revealed by monitoring CO ₂ injection in a fluvial formation. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	64
7	Nitrate reduction during ground-water recharge, Southern High Plains, Texas. <i>Journal of Contaminant Hydrology</i> , 2000, 40, 335-363.	1.6	51
8	CO ₂ solubility in aqueous solutions containing Na ⁺ , Ca ²⁺ , Cl ⁻ , SO ₄ ²⁻ and HCO ₃ ⁻ : The effects of electrostricted water and ion hydration thermodynamics. <i>Applied Geochemistry</i> , 2016, 67, 59-67.	1.4	51
9	CO ₂ Storage in Depleted or Depleting Oil and Gas Fields: What can We Learn from Existing Projects?. <i>Energy Procedia</i> , 2017, 114, 5680-5690.	1.8	49
10	Diverse mantle and crustal components in lavas of the NW Cerros del Rio volcanic field, Rio Grande Rift, New Mexico. <i>Contributions To Mineralogy and Petrology</i> , 1991, 108, 331-345.	1.2	39
11	Improving monitoring protocols for CO ₂ geological storage with technical advances in CO ₂ attribution monitoring. <i>International Journal of Greenhouse Gas Control</i> , 2015, 41, 29-40.	2.3	39
12	Sensitivity of groundwater systems to CO ₂ : Application of a site-specific analysis of carbonate monitoring parameters at the SACROC CO ₂ -enhanced oil field. <i>International Journal of Greenhouse Gas Control</i> , 2012, 6, 142-152.	2.3	36
13	Assessment of Alleged CO ₂ Leakage at the Kerr Farm using a Simple Process-based Soil Gas Technique: Implications for Carbon Capture, Utilization, and Storage (CCUS) Monitoring. <i>Energy Procedia</i> , 2013, 37, 4242-4248.	1.8	36
14	Process-based soil gas leakage assessment at the Kerr Farm: Comparison of results to leakage proxies at ZERT and Mt. Etna. <i>International Journal of Greenhouse Gas Control</i> , 2014, 30, 42-57.	2.3	32
15	Geochemical impact of oxygen on siliciclastic carbon storage reservoirs. <i>International Journal of Greenhouse Gas Control</i> , 2014, 21, 214-231.	2.3	21
16	Near-Surface Monitoring of Large-Volume CO ₂ Injection at Cranfield: Early Field Test of SECARB Phase III. <i>SPE Journal</i> , 2013, 18, 486-494.	1.7	20
17	Attitudes on Carbon Capture and Storage (CCS) as a Mitigation Technology within the UNFCCC. <i>Energies</i> , 2021, 14, 629.	1.6	20
18	Potential Subsurface Impacts of CO ₂ Stream Impurities on Geologic Carbon Storage. <i>Energy Procedia</i> , 2013, 37, 4552-4559.	1.8	19

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19	Regional Assessment of CO ₂ Solubility Trapping Potential: A Case Study of the Coastal and Offshore Texas Miocene Interval. <i>Environmental Science & Technology</i> , 2014, 48, 8275-8282.	4.6	17
20	Gas source attribution techniques for assessing leakage at geologic CO ₂ storage sites: Evaluating a CO ₂ and CH ₄ soil gas anomaly at the Cranfield CO ₂ -EOR site. <i>Chemical Geology</i> , 2017, 454, 93-104.	1.4	15
21	Modeling CO ₂ Release Experiment in the Shallow Subsurface and Sensitivity Analysis. <i>Environmental and Engineering Geoscience</i> , 2013, 19, 207-220.	0.3	12
22	Field assessment of sensor technology for environmental monitoring using a process-based soil gas method at geologic CO ₂ storage sites. <i>International Journal of Greenhouse Gas Control</i> , 2020, 96, 103003.	2.3	11
23	CO ₂ storage guidelines and the science of monitoring: Achieving project success under the California Low Carbon Fuel Standard CCS Protocol and other global regulations. <i>International Journal of Greenhouse Gas Control</i> , 2022, 113, 103523.	2.3	10
24	Getting Science and Technology into International Climate Policy: Carbon Dioxide Capture and Storage in the UNFCCC. <i>Energy Procedia</i> , 2013, 37, 7590-7595.	1.8	8
25	Soil gas dynamics monitoring at a CO ₂ -EOR site for leakage detection. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2017, 3, 351-364.	1.3	8
26	Efficient marine environmental characterisation to support monitoring of geological CO ₂ storage. <i>International Journal of Greenhouse Gas Control</i> , 2021, 109, 103388.	2.3	8
27	Assessment of shallow subsea hydrocarbons as a proxy for leakage at offshore geologic CO ₂ storage sites. <i>International Journal of Greenhouse Gas Control</i> , 2018, 74, 19-27.	2.3	6
28	Geochemical Aspects of Geologic Carbon Storage. <i>Applied Geochemistry</i> , 2013, 30, 1-3.	1.4	5
29	DeepSense: A Physics-Guided Deep Learning Paradigm for Anomaly Detection in Soil Gas Data at Geologic CO ₂ Storage Sites. <i>Environmental Science & Technology</i> , 2021, 55, 15531-15541.	4.6	5
30	Potential for a Process-based Monitoring Method above Geologic Carbon Storage Sites using Dissolved Gases in Freshwater Aquifers. <i>Procedia Earth and Planetary Science</i> , 2013, 7, 746-749.	0.6	4
31	Light hydrocarbon and noble gas migration as an analogue for potential CO ₂ leakage: numerical simulations and field data from three hydrocarbon systems. , 2019, 9, 226-244.		4
32	Large Volume of CO ₂ Injection at the Cranfield, Early Field Test of the SECARB Phase III: Near-Surface Monitoring. , 2012, , .		3
33	Towards a Method for Leakage Quantification and Remediation Monitoring in the Near-surface at Terrestrial CO ₂ Geologic Storage Sites. <i>Energy Procedia</i> , 2017, 114, 3855-3862.	1.8	3
34	Toward an International Program for Offshore Storage of CO ₂ : International Initiative for CCS sub-sea (iCCSc).. <i>Energy Procedia</i> , 2014, 63, 5015-5020.	1.8	2
35	Portable Spectroscopic Carbon Dioxide Monitor for Carbon Sequestration Applications. , 2009, , .		1
36	Meeting the Grand Challenge for Future Carbon Management Engineers and Scientists: Stimulating Workforce Capacity Through Teacher Professional Development. <i>Energy Procedia</i> , 2013, 37, 7265-7272.	1.8	1

#	ARTICLE	IF	CITATIONS
37	Technical monitoring considerations for advancing CCS Projects under the California Low Carbon Fuel Standard in relation to other global regulatory regimes. SSRN Electronic Journal, 0, , .	0.4	1
38	Monitoring CO2: The quest for a clean signal (examples from UT Austin BEG research). Energy Procedia, 2014, 63, 4035-4042.	1.8	0
39	Field Test of in Situ Sensor Technology for Process-based Soil Gas Monitoring. Energy Procedia, 2014, 63, 4027-4030.	1.8	0
40	CO2 Concentrations in Vertisols: Seasonal Variability and Shrink-Swell. , 2013, , 35-45.		0