

# Aaron G Cahill

## List of Publications by Year in descending order

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Version: 2024-02-01

16  
papers

485  
citations

840119

11  
h-index

996533

15  
g-index

16  
all docs

16  
docs citations

16  
times ranked

414  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mobility and persistence of methane in groundwater in a controlled-release field experiment. <i>Nature Geoscience</i> , 2017, 10, 289-294.	5.4	106
2	Hydro-geochemical impact of CO <sub>2</sub> leakage from geological storage on shallow potable aquifers: A field scale pilot experiment. <i>International Journal of Greenhouse Gas Control</i> , 2013, 19, 678-688.	2.3	58
3	Monitoring the evolution and migration of a methane gas plume in an unconfined sandy aquifer using time-lapse GPR and ERT. <i>Journal of Contaminant Hydrology</i> , 2017, 205, 12-24.	1.6	43
4	Barometric-pumping controls fugitive gas emissions from a vadose zone natural gas release. <i>Scientific Reports</i> , 2019, 9, 14080.	1.6	43
5	Hydrogeochemical and mineralogical effects of sustained CO <sub>2</sub> contamination in a shallow sandy aquifer: A field-scale controlled release experiment. <i>Water Resources Research</i> , 2014, 50, 1735-1755.	1.7	40
6	High resolution spatial and temporal evolution of dissolved gases in groundwater during a controlled natural gas release experiment. <i>Science of the Total Environment</i> , 2018, 622-623, 1178-1192.	3.9	33
7	Advancing knowledge of gas migration and fugitive gas from energy wells in northeast British Columbia, Canada. , 2019, 9, 134-151.		32
8	Risks attributable to water quality changes in shallow potable aquifers from geological carbon sequestration leakage into sediments of variable carbonate content. <i>International Journal of Greenhouse Gas Control</i> , 2013, 19, 117-125.	2.3	28
9	Hydro-biogeochemical impacts of fugitive methane on a shallow unconfined aquifer. <i>Science of the Total Environment</i> , 2019, 690, 1342-1354.	3.9	28
10	Methane oxidation and methylotroph population dynamics in groundwater mesocosms. <i>Environmental Microbiology</i> , 2020, 22, 1222-1237.	1.8	18
11	Methane gas transport in unconfined aquifers: A numerical sensitivity study of a controlled release experiment at CFB Borden. <i>Journal of Contaminant Hydrology</i> , 2019, 225, 103506.	1.6	15
12	Geochemical modeling of a sustained shallow aquifer CO <sub>2</sub> leakage field study and implications for leakage and site monitoring. <i>International Journal of Greenhouse Gas Control</i> , 2015, 37, 127-141.	2.3	14
13	Propensity for fugitive gas migration in glaciofluvial deposits: An assessment of near-surface hydrofacies in the Peace Region, Northeastern British Columbia. <i>Science of the Total Environment</i> , 2020, 749, 141459.	3.9	9
14	Developing a fuzzy logic-based risk assessment for groundwater contamination from well integrity failure during hydraulic fracturing. <i>Science of the Total Environment</i> , 2021, 769, 145051.	3.9	7
15	Fate of Fugitive Natural Gas in Heterogeneous Near-Surface Sediments in a Region of Extensive Petroleum Resource Development. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095200.	1.5	6
16	Towards quantifying subsurface methane emissions from energy wells with integrity failure. <i>Atmospheric Pollution Research</i> , 2021, 12, 101223.	1.8	5