

# Robert van Geldern

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

2,179  
citations

304602

22  
h-index

233338

45  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2962  
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcium isotope record of Phanerozoic oceans: Implications for chemical evolution of seawater and its causative mechanisms. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5117-5134.	1.6	211
2	A review of CO <sub>2</sub> and associated carbon dynamics in headwater streams: A global perspective. <i>Reviews of Geophysics</i> , 2017, 55, 560-585.	9.0	198
3	Carbon, oxygen and strontium isotope records of Devonian brachiopod shell calcite. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006, 240, 47-67.	1.0	188
4	Optimization of instrument setup and post-run corrections for oxygen and hydrogen stable isotope measurements of water by isotope ratio infrared spectroscopy (IRIS). <i>Limnology and Oceanography: Methods</i> , 2012, 10, 1024-1036.	1.0	182
5	Oxygen isotope evolution of biogenic calcite and apatite during the Middle and Late Devonian. <i>International Journal of Earth Sciences</i> , 2004, 93, 542-553.	0.9	175
6	Applications of stable water and carbon isotopes in watershed research: Weathering, carbon cycling, and water balances. <i>Earth-Science Reviews</i> , 2011, 109, 20-31.	4.0	136
7	Spatial and temporal variations of <i>p</i> CO <sub>2</sub> , dissolved inorganic carbon and stable isotopes along a temperate karstic watercourse. <i>Hydrological Processes</i> , 2015, 29, 3423-3440.	1.1	78
8	Invasive floating macrophytes reduce greenhouse gas emissions from a small tropical lake. <i>Scientific Reports</i> , 2016, 6, 20424.	1.6	65
9	Title is missing!. , 2013, 9, 96.		54
10	Carbon and oxygen isotope indications for CO <sub>2</sub> behaviour after injection: First results from the Ketzin site (Germany). <i>International Journal of Greenhouse Gas Control</i> , 2010, 4, 1000-1006.	2.3	53
11	Boron isotope geochemistry of Paleozoic brachiopod calcite: Implications for a secular change in the boron isotope geochemistry of seawater over the Phanerozoic. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 4035-4044.	1.6	51
12	Field-Based Stable Isotope Analysis of Carbon Dioxide by Mid-Infrared Laser Spectroscopy for Carbon Capture and Storage Monitoring. <i>Analytical Chemistry</i> , 2014, 86, 12191-12198.	3.2	49
13	Dissolved oxygen in water and its stable isotope effects: A review. <i>Chemical Geology</i> , 2017, 473, 10-21.	1.4	48
14	Uranium-series dating of travertine from S <sub>1</sub> : Implications for reconstruction of environmental change in Hungary. <i>Quaternary International</i> , 2010, 222, 178-193.	0.7	47
15	Stable isotope and ostracode species assemblage evidence for lake level changes of Nam Co, southern Tibet, during the past 600years. <i>Quaternary International</i> , 2010, 212, 2-13.	0.7	44
16	Pleistocene paleo-groundwater as a pristine fresh water resource in southern Germany – evidence from stable and radiogenic isotopes. <i>Science of the Total Environment</i> , 2014, 496, 107-115.	3.9	41
17	Controls of evaporative irrigation return flows in comparison to seawater intrusion in coastal karstic aquifers in northern Sri Lanka: Evidence from solutes and stable isotopes. <i>Science of the Total Environment</i> , 2016, 548-549, 421-428.	3.9	40
18	Assessing moisture sources of precipitation in the Western Pamir Mountains (Tajikistan, Central Asia) using deuterium excess. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 71, 1601987.	0.8	39

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19	Predicting $\delta^{13}\text{C}_{\text{DIC}}$ dynamics in CCS: A scheme based on a review of inorganic carbon chemistry under elevated pressures and temperatures. <i>International Journal of Greenhouse Gas Control</i> , 2011, 5, 1250-1258.	2.3	28
20	Stable carbon isotope analysis of dissolved inorganic carbon (DIC) and dissolved organic carbon (DOC) in natural waters – Results from a worldwide proficiency test. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 2099-2107.	0.7	28
21	Comparison of precipitation collectors used in isotope hydrology. <i>Chemical Geology</i> , 2018, 488, 171-179.	1.4	27
22	Arsenic-rich shallow groundwater in sandy aquifer systems buffered by rising carbonate waters: A geochemical case study from Mannar Island, Sri Lanka. <i>Science of the Total Environment</i> , 2018, 633, 1352-1359.	3.9	27
23	Rivers of North-Rhine Westphalia revisited: Tracing changes in river chemistry. <i>Applied Geochemistry</i> , 2008, 23, 3290-3304.	1.4	24
24	Quantification of long-term wastewater fluxes at the surface water/groundwater-interface: An integrative model perspective using stable isotopes and acesulfame. <i>Science of the Total Environment</i> , 2014, 466-467, 16-25.	3.9	24
25	Hydrogeological investigation of shallow aquifers in an arid data-scarce coastal region (El Daba <sup>TM</sup> a.) <i>Tj ETQq1 1 0,784314 rrgBT /Overl</i>	0,9	22
26	Sources and sinks of nutrients and organic carbon during the 2014 pulse flow of the Colorado River into Mexico. <i>Ecological Engineering</i> , 2017, 106, 799-808.	1.6	22
27	The 2014 water release into the arid Colorado River delta and associated water losses by evaporation. <i>Science of the Total Environment</i> , 2016, 542, 586-590.	3.9	21
28	Acid rain footprint three decades after peak deposition: Long-term recovery from pollutant sulphate in the Uhlirska catchment (Czech Republic). <i>Science of the Total Environment</i> , 2017, 598, 1037-1049.	3.9	21
29	An international intercomparison of stable carbon isotope composition measurements of dissolved inorganic carbon in seawater. <i>Limnology and Oceanography: Methods</i> , 2019, 17, 200-209.	1.0	21
30	A high-resolution carbon balance in a small temperate catchment: Insights from the Schwabach River, Germany. <i>Applied Geochemistry</i> , 2017, 85, 86-96.	1.4	20
31	Quantification of groundwater-seawater interaction in a coastal sandy aquifer system: a study from Panama, Sri Lanka. <i>Environmental Earth Sciences</i> , 2014, 72, 867.	1.3	19
32	River recharge versus O <sub>2</sub> supply from the unsaturated zone in shallow riparian groundwater: A case study from the Selke River (Germany). <i>Science of the Total Environment</i> , 2018, 634, 374-381.	3.9	19
33	Stable water isotope patterns in a climate change hotspot: the isotope hydrology framework of Corsica (western Mediterranean). <i>Isotopes in Environmental and Health Studies</i> , 2014, 50, 184-200.	0.5	17
34	Stable isotope mass balances versus concentration differences of dissolved inorganic carbon – implications for tracing carbon turnover in reservoirs. <i>Isotopes in Environmental and Health Studies</i> , 2017, 53, 413-426.	0.5	16
35	Stable carbon isotope techniques to quantify CO <sub>2</sub> trapping under pre-equilibrium conditions and elevated pressures and temperatures. <i>Chemical Geology</i> , 2012, 320-321, 46-53.	1.4	15
36	Groundwater data improve modelling of headwater stream CO <sub>2</sub> and CH <sub>4</sub> outgassing with a stable DIC isotope approach. <i>Biogeosciences</i> , 2018, 15, 3093-3106.	1.3	14

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37	Determination of the Concentration of Carbonic Species in Natural Waters: Results from a World-Wide Proficiency Test. <i>Geostandards and Geoanalytical Research</i> , 2015, 39, 233-255.	1.7	13
38	Monitoring of cap-rock integrity during CCS from field data at the Ketzin pilot site (Germany): Evidence from gas composition and stable carbon isotopes. <i>International Journal of Greenhouse Gas Control</i> , 2015, 43, 133-140.	2.3	11
39	Insights into agricultural influences and weathering processes from major ion patterns. <i>Hydrological Processes</i> , 2018, 32, 891-903.	1.1	9
40	Environmental Control on Microbial Turnover of Leaf Carbon in Streams – Ecological Function of Phototrophic-Heterotrophic Interactions. <i>Frontiers in Microbiology</i> , 2018, 9, 1044.	1.5	9
41	High-resolution stable carbon isotope monitoring indicates variable flow dynamic patterns in a deep saline aquifer at the Ketzin pilot site (Germany). <i>Applied Geochemistry</i> , 2014, 47, 44-51.	1.4	8
42	Determining in situ pH values of pressurised fluids using stable carbon isotope techniques. <i>Chemical Geology</i> , 2015, 391, 1-6.	1.4	7
43	Assessment of land subsidence mechanisms triggered by dolomitic marble dissolution from hydrogeochemistry and stable isotopes of spring waters. <i>Applied Geochemistry</i> , 2015, 58, 97-105.	1.4	6
44	Inter-laboratory test for oxygen and hydrogen stable isotope analyses of geothermal fluids: Assessment of reservoir fluid compositions. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 1799-1810.	0.7	5
45	Riverine carbon dioxide evasion along a high-relief watercourse derived from seasonal dynamics of the water-atmosphere gas exchange. <i>Science of the Total Environment</i> , 2019, 657, 1311-1322.	3.9	5
46	Altitude isotope effects in Mediterranean high-relief terrains: a correction method to utilize stream water data. <i>Hydrological Sciences Journal</i> , 2021, 66, 1409-1418.	1.2	5
47	A new approach to quantify system efficiency with dissolved oxygen isotopes during engineered growth of <i>Galdieria sulphuraria</i> . <i>Algal Research</i> , 2017, 26, 294-301.	2.4	4
48	Interlaboratory test for stable carbon isotope analysis of dissolved inorganic carbon in geothermal fluids. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8685.	0.7	2