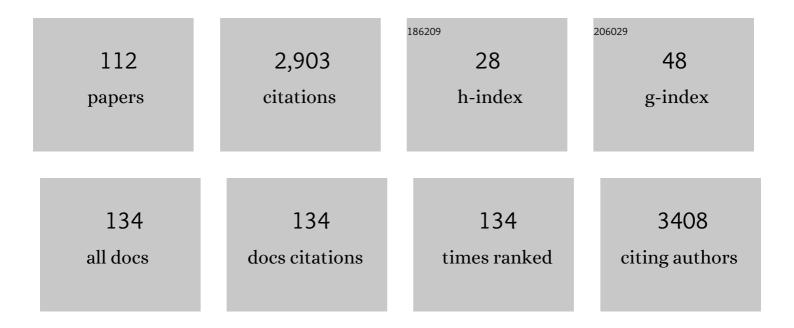
Johannes A C Barth

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Assessing moisture sources of precipitation in the Western Pamir Mountains (Tajikistan, Central Asia) using deuterium excess. Tellus, Series B: Chemical and Physical Meteorology, 2022, 71, 1601987.	0.8	39
2	Exposure Assessment of Fluoride Intake Through Commercially Available Black Tea (Camellia sinensis) Tj ETQq Lanka. Biological Trace Element Research, 2022, 200, 526-534.	0 0 0 rgBT / 1.9	Overlock 10 Th 10
3	Balance of carbon species combined with stable isotope ratios show critical switch towards bicarbonate uptake during cyanobacteria blooms. Science of the Total Environment, 2022, 807, 151067.	3.9	6
4	Statistical Approaches Link Sources of Sediment Contamination in Subtropical Reservoirs to Land Use: an Example from the Itupararanga Reservoir (Brazil). Water, Air, and Soil Pollution, 2022, 233, 1.	1.1	1
5	Post-depositional alteration of stable isotope signals by preferential degradation of algae-derived organic matter in reservoir sediments. Biogeochemistry, 2022, 159, 315-336.	1.7	5
6	Dissolved oxygen isotope modelling refines metabolic state estimates of stream ecosystems with different land use background. Scientific Reports, 2022, 12, .	1.6	6
7	Novel evaluations of sources and sinks of dissolved oxygen via stable isotopes in lentic water bodies. Science of the Total Environment, 2022, 838, 156541.	3.9	5
8	Multi-proxy approach involving ultrahigh resolution mass spectrometry and self-organising maps to investigate the origin and quality of sedimentary organic matter across a subtropical reservoir. Organic Geochemistry, 2021, 151, 104165.	0.9	9
9	Beware of effects on isotopes of dissolved oxygen during storage of natural ironâ€rich water samples: A technical note. Rapid Communications in Mass Spectrometry, 2021, 35, e9024.	0.7	3
10	Temporal offset between precipitation and water uptake of Mediterranean pine trees varies with elevation and season. Science of the Total Environment, 2021, 755, 142539.	3.9	10
11	Altitude isotope effects in Mediterranean high-relief terrains: a correction method to utilize stream water data. Hydrological Sciences Journal, 2021, 66, 1409-1418.	1.2	5
12	Extreme gradients in CO2 losses downstream of karstic springs. Science of the Total Environment, 2021, 778, 146099.	3.9	3
13	How are oxygen budgets influenced by dissolved iron and growth of oxygenic phototrophs in an iron-rich spring system? Initial results from the Espan Spring in Fürth, Germany. Biogeosciences, 2021, 18, 4535-4548.	1.3	1
14	Transfer and transformations of oxygen in rivers as catchment reflectors of continental landscapes: A review. Earth-Science Reviews, 2021, 220, 103729.	4.0	16
15	Possible links between groundwater geochemistry and chronic kidney disease of unknown etiology (CKDu): an investigation from the Ginnoruwa region in Sri Lanka. Exposure and Health, 2020, 12, 823-834.	2.8	55
16	Geological CO2 quantified by high-temporal resolution stable isotope monitoring in a salt mine. Scientific Reports, 2020, 10, 20671.	1.6	3
17	Dominance of in situ produced particulate organic carbon in a subtropical reservoir inferred from carbon stable isotopes. Scientific Reports, 2020, 10, 13187.	1.6	6
18	First indications of seasonal and spatial variations of water sources in pine trees along an elevation gradient in a Mediterranean ecosystem derived from δ180. Chemical Geology, 2020, 549, 119695.	1.4	12

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19	Tritium as a hydrological tracer in Mediterranean precipitation events. Atmospheric Chemistry and Physics, 2020, 20, 3555-3568.	1.9	14
20	Rapid groundwater recharge dynamics determined from hydrogeochemical and isotope data in a small permafrost watershed near Umiujaq (Nunavik, Canada). Hydrogeology Journal, 2020, 28, 853-868.	0.9	18
21	Groundwater recharge sites and pollution sources in the wine-producing Guadalupe Valley (Mexico): Restrictions and mixing prior to transfer of reclaimed water from the US-México border. Science of the Total Environment, 2020, 713, 136715.	3.9	13
22	Isotope alteration caused by changes in biochemical composition of sedimentary organic matter. Biogeochemistry, 2020, 147, 277-292.	1.7	6
23	Influences of seawater intrusion and anthropogenic activities on shallow coastal aquifers in Sri Lanka: evidence from hydrogeochemical and stable isotope data. Environmental Science and Pollution Research, 2020, 27, 23002-23014.	2.7	26
24	Modelling multiseasonal preferential transport of dissolved organic carbon in a shallow forest soil: Equilibrium versus kinetic sorption. Hydrological Processes, 2019, 33, 2898-2917.	1.1	14
25	Selfâ€Organizing Maps for Evaluation of Biogeochemical Processes and Temporal Variations in Water Quality of Subtropical Reservoirs. Water Resources Research, 2019, 55, 10268-10281.	1.7	25
26	Riverine carbon dioxide evasion along a high-relief watercourse derived from seasonal dynamics of the water-atmosphere gas exchange. Science of the Total Environment, 2019, 657, 1311-1322.	3.9	5
27	River recharge versus O2 supply from the unsaturated zone in shallow riparian groundwater: A case study from the Selke River (Germany). Science of the Total Environment, 2018, 634, 374-381.	3.9	19
28	Insights into agricultural influences and weathering processes from major ion patterns. Hydrological Processes, 2018, 32, 891-903.	1.1	9
29	Comparison of precipitation collectors used in isotope hydrology. Chemical Geology, 2018, 488, 171-179.	1.4	27
30	Groundwater data improve modelling of headwater stream CO ₂ outgassing with a stable DIC isotope approach. Biogeosciences, 2018, 15, 3093-3106.	1.3	14
31	Direct oxygen isotope effect identifies the rate-determining step of electrocatalytic OER at an oxidic surface. Nature Communications, 2018, 9, 4565.	5.8	58
32	Arsenic-rich shallow groundwater in sandy aquifer systems buffered by rising carbonate waters: A geochemical case study from Mannar Island, Sri Lanka. Science of the Total Environment, 2018, 633, 1352-1359.	3.9	27
33	Interâ€laboratory test for oxygen and hydrogen stable isotope analyses of geothermal fluids: Assessment of reservoir fluid compositions. Rapid Communications in Mass Spectrometry, 2018, 32, 1799-1810.	0.7	5
34	Sources and sinks of nutrients and organic carbon during the 2014 pulse flow of the Colorado River into Mexico. Ecological Engineering, 2017, 106, 799-808.	1.6	22
35	Dynamics of dissolved organic carbon in hillslope discharge: Modeling and challenges. Journal of Hydrology, 2017, 546, 309-325.	2.3	19
36	Stable isotope mass balances versus concentration differences of dissolved inorganic carbon – implications for tracing carbon turnover in reservoirs. Isotopes in Environmental and Health Studies, 2017, 53, 413-426.	0.5	16

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37	Acid rain footprint three decades after peak deposition: Long-term recovery from pollutant sulphate in the Uhlirska catchment (Czech Republic). Science of the Total Environment, 2017, 598, 1037-1049.	3.9	21
38	A review of CO ₂ and associated carbon dynamics in headwater streams: A global perspective. Reviews of Geophysics, 2017, 55, 560-585.	9.0	198
39	Dissolved oxygen in water and its stable isotope effects: A review. Chemical Geology, 2017, 473, 10-21.	1.4	48
40	A high-resolution carbon balance in a small temperate catchment: Insights from the Schwabach River, Germany. Applied Geochemistry, 2017, 85, 86-96.	1.4	20
41	A new approach to quantify system efficiency with dissolved oxygen isotopes during engineered growth of Galdieria sulphuraria. Algal Research, 2017, 26, 294-301.	2.4	4
42	Small Streams Make Big Contribution to Carbon Cycle. Eos, 2017, 98, .	0.1	1
43	From Global to Local and Vice Versa: On the Importance of the â€~Globalization' Agenda in Continental Groundwater Research and Policy-Making. Environmental Management, 2016, 58, 491-503.	1.2	9
44	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. Science of the Total Environment, 2016, 548-549, 421-428.	3.9	40
45	The 2014 water release into the arid Colorado River delta and associated water losses by evaporation. Science of the Total Environment, 2016, 542, 586-590.	3.9	21
46	Oxygen and Hydrogen Stable Isotopes in Earth's Hydrologic Cycle. , 2016, , 173-187.		1
47	Monitoring of cap-rock integrity during CCS from field data at the Ketzin pilot site (Germany): Evidence from gas composition and stable carbon isotopes. International Journal of Greenhouse Gas Control, 2015, 43, 133-140.	2.3	11
48	Turnover and release of P-, N-, Si-nutrients in the Mexicali Valley (Mexico): Interactions between the lower Colorado River and adjacent ground- and surface water systems. Science of the Total Environment, 2015, 512-513, 185-193.	3.9	14
49	Spatial and temporal variations of <i>p</i> CO ₂ , dissolved inorganic carbon and stable isotopes along a temperate karstic watercourse. Hydrological Processes, 2015, 29, 3423-3440.	1.1	78
50	Stable carbon and oxygen equilibrium isotope fractionation of supercritical and subcritical CO 2 with DIC and H 2 O in saline reservoir fluids. International Journal of Greenhouse Gas Control, 2015, 39, 215-224.	2.3	7
51	Assessment of land subsidence mechanisms triggered by dolomitic marble dissolution from hydrogeochemistry and stable isotopes of spring waters. Applied Geochemistry, 2015, 58, 97-105.	1.4	6
52	Assessing the usefulness of the isotopic composition of CO2 for leakage monitoring at CO2 storage sites: A review. International Journal of Greenhouse Gas Control, 2015, 37, 46-60.	2.3	46
53	Determining in situ pH values of pressurised fluids using stable carbon isotope techniques. Chemical Geology, 2015, 391, 1-6.	1.4	7
54	Advances in Stable Isotope Monitoring of CO2 Under Elevated Pressures, Temperatures and Salinities: Selected Results from the Project CO2ISO-LABEL. Advanced Technologies in Earth Sciences, 2015, , 59-71.	0.9	2

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55	Quantification of groundwater–seawater interaction in a coastal sandy aquifer system: a study from Panama, Sri Lanka. Environmental Earth Sciences, 2014, 72, 867.	1.3	19
56	Field-Based Stable Isotope Analysis of Carbon Dioxide by Mid-Infrared Laser Spectroscopy for Carbon Capture and Storage Monitoring. Analytical Chemistry, 2014, 86, 12191-12198.	3.2	49
57	Könnten es nicht auch zwei Mitgliedschaften sein?. Grundwasser, 2014, 19, 235-235.	1.4	0
58	Quantification of long-term wastewater fluxes at the surface water/groundwater-interface: An integrative model perspective using stable isotopes and acesulfame. Science of the Total Environment, 2014, 466-467, 16-25.	3.9	24
59	Stable water isotope patterns in a climate change hotspot: the isotope hydrology framework of Corsica (western Mediterranean). Isotopes in Environmental and Health Studies, 2014, 50, 184-200.	0.5	17
60	Stable carbon isotope fractionation data between H ₂ CO ₃ [*] and CO _{2(g)} extended to 120 °C. Rapid Communications in Mass Spectrometry, 2014, 28, 1691-16	596. ⁷	6
61	Pleistocene paleo-groundwater as a pristine fresh water resource in southern Germany – evidence from stable and radiogenic isotopes. Science of the Total Environment, 2014, 496, 107-115.	3.9	41
62	High-resolution stable carbon isotope monitoring indicates variable flow dynamic patterns in a deep saline aquifer at the Ketzin pilot site (Germany). Applied Geochemistry, 2014, 47, 44-51.	1.4	8
63	Zu wenig Wasser oder zu wenig Zuversicht?. Grundwasser, 2013, 18, 1-1.	1.4	0
64	Well-based, Geochemical Leakage Monitoring of an Aquifer Immediately Above a CO2 Storage Reservoir by Stable Carbon Isotopes at the Ketzin Pilot Site, Germany. Energy Procedia, 2013, 40, 346-354.	1.8	7
65	Fast 200 Billionen Liter spÃær …. Grundwasser, 2013, 18, 221-221.	1.4	0
66	Geochemical and isotope characterization of geothermal spring waters in Sri Lanka: Evidence for steeper than expected geothermal gradients. Journal of Hydrology, 2013, 476, 360-369.	2.3	66
67	Title is missing!. , 2013, 9, 96.		54
68	Stable carbon isotope analysis of dissolved inorganic carbon (DIC) and dissolved organic carbon (DOC) in natural waters – Results from a worldwide proficiency test. Rapid Communications in Mass Spectrometry, 2013, 27, 2099-2107.	0.7	28
69	Reservoir and Cap Rock Monitoring. Advanced Technologies in Earth Sciences, 2013, , 99-130.	0.9	1
70	A Brief Overview of Isotope Measurements Carried Out at Various CCS Pilot Sites Worldwide. Springer Series in Geomechanics and Geoengineering, 2013, , 75-87.	0.0	8
71	Optimization of instrument setup and postâ€run corrections for oxygen and hydrogen stable isotope measurements of water by isotope ratio infrared spectroscopy (IRIS). Limnology and Oceanography: Methods, 2012, 10, 1024-1036.	1.0	182
72	Occurrence and fate of perfluorinated compounds in sewage sludge from Spain and Germany. Environmental Science and Pollution Research, 2012, 19, 4109-4119.	2.7	45

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73	Analyses of pre-injection reservoir data for stable carbon isotope trend predictions in CO2 monitoring: preparing for CO2 injection. Environmental Earth Sciences, 2012, 67, 473-479.	1.3	13
74	Stable carbon isotope techniques to quantify CO2 trapping under pre-equilibrium conditions and elevated pressures and temperatures. Chemical Geology, 2012, 320-321, 46-53.	1.4	15
75	A review of methods used for equilibrium isotope fractionation investigations between dissolved inorganic carbon and CO2. Earth-Science Reviews, 2012, 115, 192-199.	4.0	54
76	Vorhang auf – Online ist on stage. Grundwasser, 2012, 17, 55-55.	1.4	0
77	Predicting Î′13CDIC dynamics in CCS: A scheme based on a review of inorganic carbon chemistry under elevated pressures and temperatures. International Journal of Greenhouse Gas Control, 2011, 5, 1250-1258.	2.3	28
78	A Summary on the Special Issue "Sustainability of Groundwater― Sustainability, 2011, 3, 1792-1795.	1.6	2
79	Applications of stable water and carbon isotopes in watershed research: Weathering, carbon cycling, and water balances. Earth-Science Reviews, 2011, 109, 20-31.	4.0	136
80	Climate Change, Water Resources and Pollution in the Ebro Basin: Towards an Integrated Approach. Handbook of Environmental Chemistry, 2010, , 295-329.	0.2	9
81	Carbon and oxygen isotope indications for CO2 behaviour after injection: First results from the Ketzin site (Germany). International Journal of Greenhouse Gas Control, 2010, 4, 1000-1006.	2.3	53
82	Was ist neu bei Grundwasser? – Staffelstab übernommen. Grundwasser, 2010, 15, 1-1.	1.4	0
83	Hydrogeologie unter einem D-A-CH …. Grundwasser, 2010, 15, 87-87.	1.4	0
84	Mixing and transport of water in a karst catchment: a case study from precipitation via seepage to the spring. Hydrology and Earth System Sciences, 2009, 13, 285-292.	1.9	30
85	Transfer of pollutants in soils, sediments and water systems: From small to large scale. Journal of Hydrology, 2009, 369, 223-224.	2.3	0
86	Mobility, turnover and storage of pollutants in soils, sediments and waters: achievements and results of the EU project AquaTerra. A review. Agronomy for Sustainable Development, 2009, 29, 161-173.	2.2	34
87	Sorption of alkylphenols on Ebro River sediments: Comparing isotherms with field observations in river water and sediments. Environmental Pollution, 2009, 157, 698-703.	3.7	49
88	How do long-term development and periodical changes of river–floodplain systems affect the fate of contaminants? Results from European rivers. Environmental Pollution, 2009, 157, 3336-3346.	3.7	70
89	Mobility, Turnover and Storage of Pollutants in Soils, Sediments and Waters: Achievements and Results of the EU Project AquaTerra - A Review. , 2009, , 857-871.		2

90 Stocks, Flows, and Prospects of Water. , 2009, , 308-319.

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91	Controls on carbon cycling in two contrasting temperate zone estuaries: The Tyne and Tweed, UK. Estuarine, Coastal and Shelf Science, 2008, 78, 685-693.	0.9	29
92	Net ecosystem production in the great lakes basin and its implications for the North American missing carbon sink: A hydrologic and stable isotope approach. Global and Planetary Change, 2008, 61, 15-27.	1.6	20
93	Water fluxes and their control on the terrestrial carbon balance: Results from a stable isotope study on the Clyde Watershed (Scotland). Applied Geochemistry, 2007, 22, 2684-2694.	1.4	6
94	Indications for pedogenic formation of perylene in a terrestrial soil profile: Depth distribution and first results from stable carbon isotope ratios. Applied Geochemistry, 2007, 22, 2652-2663.	1.4	26
95	Deposition, persistence and turnover of pollutants: First results from the EU project AquaTerra for selected river basins and aquifers. Science of the Total Environment, 2007, 376, 40-50.	3.9	59
96	The integrated project AquaTerra of the EU sixth framework lays foundations for better understanding of river–sediment–soil–groundwater systems. Journal of Environmental Management, 2007, 84, 237-243.	3.8	16
97	Selected groundwater studies of EU project AquaTerra leading to large-scale basin considerations. Water Practice and Technology, 2007, 2, .	1.0	0
98	Correction to manuscript "Recharge velocity and geochemical evolution for the Permo-Triassic Sherwood Sandstone, Northern Ireland―[Journal of Hydrology 315 (2005) 308–324]. Journal of Hydrology, 2006, 330, 763-764.	2.3	1
99	Can conductivity and stable isotope tracers determine water sources during flooding? An example from the Elbe River in 2002. International Journal of River Basin Management, 2006, 4, 77-83.	1.5	10
100	Recharge velocity and geochemical evolution for the Permo-Triassic Sherwood Sandstone, Northern Ireland. Journal of Hydrology, 2005, 315, 308-324.	2.3	28
101	14C and δ13C characteristics of organic matter and carbonate in saltmarsh sediments from south west Scotland. Journal of Environmental Monitoring, 2004, 6, 441-447.	2.1	7
102	Water mixing in a St. Lawrence river embayment to outline potential sources of pollution. Applied Geochemistry, 2004, 19, 1637-1641.	1.4	16
103	Automated analyses of ¹⁸ 0/ ¹⁶ 0 ratios in dissolved oxygen from 12â€mL water samples. Limnology and Oceanography: Methods, 2004, 2, 35-41.	1.0	33
104	Carbon isotope fractionation during reductive dechlorination of TCE in batch experiments with iron samples from reactive barriers. Journal of Contaminant Hydrology, 2003, 66, 25-37.	1.6	35
105	Influence of carbonates on the riverine carbon cycle in an anthropogenically dominated catchment basin: evidence from major elements and stable carbon isotopes in the Lagan River (N. Ireland). Chemical Geology, 2003, 200, 203-216.	1.4	139
106	Carbon Isotope Fractionation during Aerobic Biodegradation of Trichloroethene by Burkholderia cepacia G4: a Tool To Map Degradation Mechanisms. Applied and Environmental Microbiology, 2002, 68, 1728-1734.	1.4	60
107	Carbon isotope fractionation during abiotic reductive dehalogenation of trichloroethene (TCE). Chemosphere, 2001, 44, 1281-1286.	4.2	41
108	Gas-Phase Photocatalytic Oxidation of Dichlorobutenes. Environmental Science & Technology, 2001, 35, 2823-2827.	4.6	13

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109	lsotopic composition of inorganic carbon as an indicator of benzoate degradation byPseudomonas putida: temperature, growth rate and pH effects. Rapid Communications in Mass Spectrometry, 2000, 14, 1316-1320.	0.7	3
110	Routine analysis by high precision gas chromatography/mass selective detector/isotope ratio mass spectrometry to 0.1 parts per mil. , 1999, 13, 1231-1236.		33
111	Carbon cycle in St. Lawrence aquatic ecosystems at Cornwall (Ontario), Canada: seasonal and spatial variations. Chemical Geology, 1999, 159, 107-128.	1.4	95
112	Origin of particulate organic carbon in the upper St. Lawrence: isotopic constraints. Earth and Planetary Science Letters, 1998, 162, 111-121.	1.8	81