

# Wolfram Kloppmann

## List of Publications by Year in descending order

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76  
papers

2,589  
citations

159573

30  
h-index

197805

49  
g-index

85  
all docs

85  
docs citations

85  
times ranked

2817  
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimating natural background concentrations for dissolved constituents in groundwater: A methodological review and case studies for geogenic fluoride. <i>Journal of Geochemical Exploration</i> , 2022, 233, 106906.	3.2	8
2	Natural gas of radiolytic origin: An overlooked component of shale gas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2114720119.	7.1	9
3	A pan-European art trade in the late middle ages: Isotopic evidence on the master of Rimini enigma. <i>PLoS ONE</i> , 2022, 17, e0265242.	2.5	1
4	Potential Impacts of Shale Gas Development on Inorganic Groundwater Chemistry: Implications for Environmental Baseline Assessment in Shallow Aquifers. <i>Environmental Science &amp; Technology</i> , 2021, 55, 9657-9671.	10.0	33
5	A multi-isotopic study of the groundwaters from the Lower Triassic Sandstones aquifer of northeastern France: Groundwater origin, mixing and flowing velocity. <i>Applied Geochemistry</i> , 2021, 131, 105012.	3.0	4
6	A multi-isotope baseline (O, H, C, S, Sr, B, Li, U) to assess leakage processes in the deep aquifers of the Paris basin (France). <i>Applied Geochemistry</i> , 2021, 131, 105011.	3.0	5
7	Past Hydrological Conditions in a Fluvial Valley: Records from C-O Isotope Signatures of Holocene Sediments in the Loire River (France). <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 400.	2.0	0
8	L'œuvrerie de Beuda (Garonne, Catalogne, Espagne), un matériau marqueur de la sculpture gothique en France méridionale révélé par les analyses multi-isotopiques (S, O, Sr). <i>ArcheoSciences</i> , 2020, , 175-188.	0.1	0
9	Geochemical and sulfate isotopic evolution of flowback and produced waters reveals water-rock interactions following hydraulic fracturing of a tight hydrocarbon reservoir. <i>Science of the Total Environment</i> , 2019, 687, 1389-1400.	8.0	37
10	Towards a Better Knowledge of Natural Methane Releases in the French Alps: A Field Approach. <i>Geofluids</i> , 2019, 2019, 1-16.	0.7	1
11	A geochemical and multi-isotope modeling approach to determine sources and fate of methane in shallow groundwater above unconventional hydrocarbon reservoirs. <i>Journal of Contaminant Hydrology</i> , 2019, 226, 103525.	3.3	22
12	A Probabilistic Approach for Predicting Methane Occurrence in Groundwater. <i>Environmental Science &amp; Technology</i> , 2019, 53, 12914-12922.	10.0	5
13	Characterization of the boron, lithium, and strontium isotopic variations of oil sands process-affected water in Alberta, Canada. <i>Applied Geochemistry</i> , 2018, 90, 50-62.	3.0	13
14	Quantifying the extent of flowback of hydraulic fracturing fluids using chemical and isotopic tracer approaches. <i>Applied Geochemistry</i> , 2018, 93, 20-29.	3.0	38
15	Massive arrival of desalinated seawater in a regional urban water cycle: A multi-isotope study (B, S, O). <i>Terrae Vivae</i> , 2018, 16, 1-10.	8.0	14
16	Gas concentration and flow rate measurements as part of methane baseline assessment: Case of the Fontaine Ardente gas seep, Isère, France. <i>Applied Geochemistry</i> , 2018, 95, 158-171.	3.0	5
17	Tracing Alabaster (Gypsum or Anhydrite) Artwork Using Trace Element Analysis and a Multi-Isotope Approach (Sr, S, O). <i>Journal of Cultural Heritage</i> , 2018, 19, 1-10.		0
18	The geochemistry of naturally occurring methane and saline groundwater in an area of unconventional shale gas development. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 208, 302-334.	3.9	121

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19	Competing English, Spanish, and French alabaster trade in Europe over five centuries as evidenced by isotope fingerprinting. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11856-11860.	7.1	5
20	Natural CH <sub>4</sub> Gas Seeps in the French Alps: Characteristics, Typology and Contribution to CH <sub>4</sub> Natural Emissions to the Atmosphere. Energy Procedia, 2017, 114, 3020-3032.	1.8	3
21	The Use of Stable Water Isotopes as Tracers in Soil Aquifer Treatment (SAT) and in Regional Water Systems. Water (Switzerland), 2017, 9, 73.	2.7	7
22	Redox controls on methane formation, migration and fate in shallow aquifers. Hydrology and Earth System Sciences, 2016, 20, 2759-2777.	4.9	40
23	Glacial recharge, salinisation and anthropogenic contamination in the coastal aquifers of Recife (Brazil). Science of the Total Environment, 2016, 569-570, 1114-1125.	8.0	39
24	Revisiting the K <sub>f</sub> distribution coefficient concept through stringent geochemical modeling: Application to agronomical models under wastewater reclamation context. Geoderma, 2016, 268, 128-138.	5.1	2
25	Investigation of recharge dynamics and flow paths in a fractured crystalline aquifer in semi-arid India using borehole logs: implications for managed aquifer recharge. Hydrogeology Journal, 2016, 24, 35-57.	2.1	20
26	Extreme Boron Isotope Ratios in Groundwater. Procedia Earth and Planetary Science, 2015, 13, 296-300.	0.6	8
27	U Isotope Systematics of Groundwaters from the Triassic Aquifer of the Northeastern Paris Basin and of the Rhine Graben, France. Procedia Earth and Planetary Science, 2015, 13, 112-115.	0.6	1
28	Lead Isotopes Tracing the Origin of Lead in an Irrigated Agricultural Soil in Crete. Procedia Earth and Planetary Science, 2015, 13, 273-277.	0.6	0
29	Origins and processes of groundwater salinization in the urban coastal aquifers of Recife (Pernambuco, Brazil): A multi-isotope approach. Science of the Total Environment, 2015, 530-531, 411-429.	8.0	102
30	Prospects and Limitations of Chemical and Isotopic Groundwater Monitoring to Assess the Potential Environmental Impacts of Unconventional Oil and Gas Development. Procedia Earth and Planetary Science, 2015, 13, 320-323.	0.6	12
31	Short-term assessment of the dynamics of elements in wastewater irrigated Mediterranean soil and tomato fruits through sequential dissolution and lead isotopic signatures. Agricultural Water Management, 2015, 155, 87-99.	5.6	15
32	Questioning the impact and sustainability of percolation tanks as aquifer recharge structures in semi-arid crystalline context. Environmental Earth Sciences, 2015, 73, 7711-7721.	2.7	17
33	Tracking leakage from a natural CO <sub>2</sub> reservoir (Montmiral, France) through the chemistry and isotope signatures of shallow groundwater. , 2014, 4, 225-243.		15
34	Tracing Medieval and Renaissance Alabaster Works of Art Back to Quarries: A Multi-isotope ( <sup>34</sup> S, <sup>36</sup> S, <sup>32</sup> S, <sup>33</sup> S, <sup>34</sup> O, <sup>36</sup> O) Approach. Archaeometry, 2014, 56, 203-219.	1.3	10
35	CO <sub>2</sub> -water-mineral reactions during CO <sub>2</sub> leakage: Geochemical and isotopic monitoring of a CO <sub>2</sub> injection field test. Chemical Geology, 2014, 368, 11-30.	3.3	39
36	Soluble salt sources in medieval porous limestone sculptures: A multi-isotope (N, O, S) approach. Science of the Total Environment, 2014, 470-471, 559-566.	8.0	7

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37	New Tracers Identify Hydraulic Fracturing Fluids and Accidental Releases from Oil and Gas Operations. <i>Environmental Science &amp; Technology</i> , 2014, 48, 12552-12560.	10.0	136
38	Comparison of surface and groundwater balance approaches in the evaluation of managed aquifer recharge structures: Case of a percolation tank in a crystalline aquifer in India. <i>Journal of Hydrology</i> , 2014, 519, 1620-1633.	5.4	38
39	Biogeochemical processes in infiltration basins and their impact on the recharging effluent, the soil aquifer treatment (SAT) system of the Shafdan plant, Israel. <i>Applied Geochemistry</i> , 2014, 48, 58-69.	3.0	36
40	EFFECT OF DIFFERENT IRRIGATION TECHNIQUES AND WATER QUALITIES ON YIELD, FRUIT QUALITY AND HEALTH RISKS OF TOMATO PLANTS. <i>Acta Horticulturae</i> , 2014, , 601-608.	0.2	8
41	Groundwater Salinization in France. <i>Procedia Earth and Planetary Science</i> , 2013, 7, 440-443.	0.6	16
42	Groundwater Salinization in a Coastal Multilayer Aquifer: Preliminary Results on Origins and Mechanisms- Example of Recife (Brazil). <i>Procedia Earth and Planetary Science</i> , 2013, 7, 118-122.	0.6	5
43	Building materials as intrinsic sources of sulphate: A hidden face of salt weathering of historical monuments investigated through multi-isotope tracing (B, O, S). <i>Science of the Total Environment</i> , 2011, 409, 1658-1669.	8.0	40
44	Distribution and Origin of Boron in Fresh and Thermal Waters in Different Areas of Greece. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2011, , 209-228.	0.2	5
45	Impact of irrigation with treated low quality water on the heavy metal contents of a soil-crop system in Serbia. <i>Agricultural Water Management</i> , 2010, 98, 451-457.	5.6	21
46	Decentralised water and wastewater treatment technologies to produce functional water for irrigation. <i>Agricultural Water Management</i> , 2010, 98, 385-402.	5.6	28
47	Assessing the net benefits of using wastewater treated with a membrane bioreactor for irrigating vegetables in Crete. <i>Agricultural Water Management</i> , 2010, 98, 458-464.	5.6	16
48	The use of O, H, B, Sr and S isotopes for tracing the origin of dissolved boron in groundwater in Central Macedonia, Greece. <i>Applied Geochemistry</i> , 2010, 25, 1783-1796.	3.0	29
49	Study on distribution and origin of boron in groundwater in the area of Chalkidiki, Northern Greece by employing chemical and isotopic tracers. <i>Journal of Hazardous Materials</i> , 2009, 172, 1264-1272.	12.4	34
50	Chemical and isotopic (B, Sr) composition of alluvial sediments as archive of a past hydrothermal outflow. <i>Chemical Geology</i> , 2009, 266, 114-125.	3.3	23
51	B and Li isotopes as intrinsic tracers for injection tests in aquifer storage and recovery systems. <i>Applied Geochemistry</i> , 2009, 24, 1214-1223.	3.0	35
52	Salinization of groundwater in the North German Basin: results from conjoint investigation of major, trace element and multi-isotope distribution. <i>International Journal of Earth Sciences</i> , 2008, 97, 1057-1073.	1.8	35
53	Monitoring Reverse Osmosis Treated Wastewater Recharge into a Coastal Aquifer by Environmental Isotopes (B, Li, O, H). <i>Environmental Science &amp; Technology</i> , 2008, 42, 8759-8765.	10.0	34
54	Isotope and Ion Selectivity in Reverse Osmosis Desalination: Geochemical Tracers for Man-made Freshwater. <i>Environmental Science &amp; Technology</i> , 2008, 42, 4723-4731.	10.0	38

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55	A<sc>uthors</sc>â€™ R<sc>e</sc>ply</sc>. Ground Water, 2007, 45, 662-663.	1.3	0
56	Behaviour of boron and strontium isotopes in groundwaterâ€™aquifer interactions in the Cornia Plain (Tuscany, Italy). Applied Geochemistry, 2006, 21, 1169-1183.	3.0	79
57	Origin of salts in stone monument degradation using sulphur and oxygen isotopes: First results of the Bourges cathedral (France). Journal of Geochemical Exploration, 2006, 88, 358-362.	3.2	29
58	Stable Isotope and Chloride, Boron Study for Tracing Sources of Boron Contamination in Groundwater: Boron Contents in Fresh and Thermal Water in Different Areas in Greece. Water, Air, and Soil Pollution, 2006, 174, 19-32.	2.4	50
59	Hydrochemistry of the high-boron groundwaters of the Cornia aquifer (Tuscany, Italy). Geothermics, 2005, 34, 297-319.	3.4	31
60	The Water Crisis in the Gaza Strip: Prospects for Resolution. Ground Water, 2005, 43, 653-660.	1.3	46
61	The EU Drinking Water Directive: the boron standard and scientific uncertainty. Environmental Policy and Governance, 2005, 15, 1-12.	0.3	59
62	Isotopic and hydrochemical studies of groundwater flow and salinity in the Southern Upper Rhine Graben. International Journal of Earth Sciences, 2005, 94, 565-579.	1.8	13
63	Health Impact Evaluation of Boron in Drinking Water: A Geographical Risk Assessment in Northern France. Environmental Geochemistry and Health, 2005, 27, 419-427.	3.4	70
64	Sources of salinity and boron in the Gaza strip: Natural contaminant flow in the southern Mediterranean coastal aquifer. Water Resources Research, 2005, 41, .	4.2	115
65	Environmental Boron Exposure and Activity of Â-Aminolevulinic Acid Dehydratase (ALA-D) in a Newborn Population. Toxicological Sciences, 2004, 80, 304-309.	3.1	18
66	Nitrate in groundwater: an isotopic multi-tracer approach. Journal of Contaminant Hydrology, 2004, 72, 165-188.	3.3	246
67	Lead isotope signatures of Holocene fluvial sediments from the Loire River valley. Applied Geochemistry, 2004, 19, 957-972.	3.0	30
68	Boron isotope signatures in the coastal groundwaters of French Guiana. Water Resources Research, 2002, 38, 44-1-44-5.	4.2	23
69	Exotic stable isotope compositions of saline waters and brines from the crystalline basement. Chemical Geology, 2002, 184, 49-70.	3.3	83
70	Contamination of deep formation waters by drilling fluids: correction of the chemical and isotopic composition and evaluation of errors. Applied Geochemistry, 2001, 16, 1083-1096.	3.0	14
71	Halite dissolution derived brines in the vicinity of a Permian salt dome (N German Basin). Evidence from boron, strontium, oxygen, and hydrogen isotopes. Geochimica Et Cosmochimica Acta, 2001, 65, 4087-4101.	3.9	148
72	Denitrification and mixing in a schist aquifer: influence on water chemistry and isotopes. Chemical Geology, 2000, 168, 307-324.	3.3	105

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73	The labile fraction of suspended matter in the Loire River (France): multi-element chemistry and isotopic (Rb–Sr and C–O) systematics. <i>Chemical Geology</i> , 2000, 166, 271-285.	3.3	39
74	Residence time of Chalk groundwaters in the Paris Basin and the North German Basin: a geochemical approach. <i>Applied Geochemistry</i> , 1998, 13, 593-606.	3.0	61
75	Field tracer test for denitrification in a pyrite-bearing schist aquifer. <i>Applied Geochemistry</i> , 1998, 13, 767-778.	3.0	86
76	Zones d'oxydo-réduction dans l'aquifère de la Craie des bassins de Paris et de l'Allemagne du nord. <i>Hydrological Sciences Journal</i> , 1996, 41, 311-326.	2.6	11