

# 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	Nitrate in groundwater: an isotopic multi-tracer approach. <i>Journal of Contaminant Hydrology</i> , 2004, 72, 165-188.	3.3	246
2	Halite dissolution derived brines in the vicinity of a Permian salt dome (N German Basin). Evidence from boron, strontium, oxygen, and hydrogen isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 4087-4101.	3.9	148
3	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
4	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
5	Sources of salinity and boron in the Gaza strip: Natural contaminant flow in the southern Mediterranean coastal aquifer. <i>Water Resources Research</i> , 2005, 41, .	4.2	115
6	Denitrification and mixing in a schist aquifer: influence on water chemistry and isotopes. <i>Chemical Geology</i> , 2000, 168, 307-324.	3.3	105
7	Origins and processes of groundwater salinization in the urban coastal aquifers of Recife (Pernambuco, Brazil): A multi-isotope approach. <i>Science of the Total Environment</i> , 2015, 530-531, 411-429.	8.0	102
8	Field tracer test for denitrification in a pyrite-bearing schist aquifer. <i>Applied Geochemistry</i> , 1998, 13, 767-778.	3.0	86
9	Exotic stable isotope compositions of saline waters and brines from the crystalline basement. <i>Chemical Geology</i> , 2002, 184, 49-70.	3.3	83
10	Behaviour of boron and strontium isotopes in groundwater-aquifer interactions in the Cornia Plain (Tuscany, Italy). <i>Applied Geochemistry</i> , 2006, 21, 1169-1183.	3.0	79
11	Health Impact Evaluation of Boron in Drinking Water: A Geographical Risk Assessment in Northern France. <i>Environmental Geochemistry and Health</i> , 2005, 27, 419-427.	3.4	70
12	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
13	The EU Drinking Water Directive: the boron standard and scientific uncertainty. <i>Environmental Policy and Governance</i> , 2005, 15, 1-12.	0.3	59
14	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. <i>Water, Air, and Soil Pollution</i> , 2006, 174, 19-32.	2.4	50
15	The Water Crisis in the Gaza Strip: Prospects for Resolution. <i>Ground Water</i> , 2005, 43, 653-660.	1.3	46
16	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
17	Redox controls on methane formation, migration and fate in shallow aquifers. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 2759-2777.	4.9	40
18	The labile fraction of suspended matter in the Loire River (France): multi-element chemistry and isotopic (Rb-Sr and Ca-O) systematics. <i>Chemical Geology</i> , 2000, 166, 271-285.	3.3	39

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19	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. <i>Chemical Geology</i> , 2014, 368, 11-30.	3.3	39
20	Glacial recharge, salinisation and anthropogenic contamination in the coastal aquifers of Recife (Brazil). <i>Science of the Total Environment</i> , 2016, 569-570, 1114-1125.	8.0	39
21	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
22	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
23	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
24	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
25	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
26	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
27	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
28	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
29	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
30	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
31	Hydrochemistry of the high-boron groundwaters of the Cornia aquifer (Tuscany, Italy). <i>Geothermics</i> , 2005, 34, 297-319.	3.4	31
32	Lead isotope signatures of Holocene fluvial sediments from the Loire River valley. <i>Applied Geochemistry</i> , 2004, 19, 957-972.	3.0	30
33	Origin of salts in stone monument degradation using sulphur and oxygen isotopes: First results of the Bourges cathedral (France). <i>Journal of Geochemical Exploration</i> , 2006, 88, 358-362.	3.2	29
34	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
35	Decentralised water and wastewater treatment technologies to produce functional water for irrigation. <i>Agricultural Water Management</i> , 2010, 98, 385-402.	5.6	28
36	Boron isotope signatures in the coastal groundwaters of French Guiana. <i>Water Resources Research</i> , 2002, 38, 44-1-44-5.	4.2	23

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37	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
38	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
39	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
40	Investigation of recharge dynamics and flow paths in a fractured crystalline aquifer in semi-arid India using borehole logs: implications for managed aquifer recharge. <i>Hydrogeology Journal</i> , 2016, 24, 35-57.	2.1	20
41	Environmental Boron Exposure and Activity of $\hat{A}$ -Aminolevulinic Acid Dehydratase (ALA-D) in a Newborn Population. <i>Toxicological Sciences</i> , 2004, 80, 304-309.	3.1	18
42	Questioning the impact and sustainability of percolation tanks as aquifer recharge structures in semi-arid crystalline context. <i>Environmental Earth Sciences</i> , 2015, 73, 7711-7721.	2.7	17
43	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
44	Groundwater Salinization in France. <i>Procedia Earth and Planetary Science</i> , 2013, 7, 440-443.	0.6	16
45	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
46	Short-term assessment of the dynamics of elements in wastewater irrigated Mediterranean soil and tomato fruits through sequential dissolution and lead isotopic signatures. <i>Agricultural Water Management</i> , 2015, 155, 87-99.	5.6	15
47	Contamination of deep formation waters by drilling fluids: correction of the chemical and isotopic composition and evaluation of errors. <i>Applied Geochemistry</i> , 2001, 16, 1083-1096.	3.0	14
48	Isotopic and hydrochemical studies of groundwater flow and salinity in the Southern Upper Rhine Graben. <i>International Journal of Earth Sciences</i> , 2005, 94, 565-579.	1.8	13
49	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
50	Prospects and Limitations of Chemical and Isotopic Groundwater Monitoring to Assess the Potential Environmental Impacts of Unconventional Oil and Gas Development. <i>Procedia Earth and Planetary Science</i> , 2015, 13, 320-323.	0.6	12
51	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
52	Tracing Medieval and Renaissance Alabaster Works of Art Back to Quarries: A Multi-Isotope ( <sup>34</sup> S, <sup>36</sup> S, <sup>18</sup> O) Approach. <i>Archaeometry</i> , 2014, 56, 203-219.	1.3	10
53	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
54	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

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55	Extreme Boron Isotope Ratios in Groundwater. <i>Procedia Earth and Planetary Science</i> , 2015, 13, 296-300.	0.6	8
56	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
57	Soluble salt sources in medieval porous limestone sculptures: A multi-isotope (N, O, S) approach. <i>Science of the Total Environment</i> , 2014, 470-471, 559-566.	8.0	7
58	The Use of Stable Water Isotopes as Tracers in Soil Aquifer Treatment (SAT) and in Regional Water Systems. <i>Water (Switzerland)</i> , 2017, 9, 73.	2.7	7
59	Massive arrival of desalinated seawater in a regional urban water cycle: A multi-isotope study (B, S, O,) <i>Tj ETQq1 1 0,784314 µgBT /Over</i>	8.0	7
60	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
61	Competing English, Spanish, and French alabaster trade in Europe over five centuries as evidenced by isotope fingerprinting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11856-11860.	7.1	5
62	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
63	A Probabilistic Approach for Predicting Methane Occurrence in Groundwater. <i>Environmental Science &amp; Technology</i> , 2019, 53, 12914-12922.	10.0	5
64	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
65	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
66	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
67	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. <i>Energy Procedia</i> , 2017, 114, 3020-3032.	1.8	3
68	Revisiting the K <sub>f</sub> distribution coefficient concept through stringent geochemical modeling: Application to agronomical models under wastewater reclamation context. <i>Geoderma</i> , 2016, 268, 128-138.	5.1	2
69	U Isotope Systematics of Groundwaters from the Triassic Aquifer of the Northeastern Paris Basin and of the Rhine Graben, France. <i>Procedia Earth and Planetary Science</i> , 2015, 13, 112-115.	0.6	1
70	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
71	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
72	A<sc>uthors</sc>&#x2013;<sc>reply</sc>. <i>Ground Water</i> , 2007, 45, 662-663.	1.3	0

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73	Lead Isotopes Tracing the Origin of Lead in an Irrigated Agricultural Soil in Crete. <i>Procedia Earth and Planetary Science</i> , 2015, 13, 273-277.	0.6	0
74	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
75	Tracing Alabaster (Gypsum or Anhydrite) Artwork Using Trace Element Analysis and a Multi-Isotope Approach (Sr, S, O)., 2018, , .		0
76	L'albâtre de Beuda (Gironne, 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