

# Dominik Weiss

## List of Publications by Year in descending order

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95  
papers

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47006

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96  
docs citations

96  
times ranked

5847  
citing authors

#	ARTICLE	IF	CITATIONS
1	History of Atmospheric Lead Deposition Since 12,370±14C yr BP from a Peat Bog, Jura Mountains, Switzerland. , 1998, 281, 1635-1640.		722
2	Atmospheric Pb Deposition since the Industrial Revolution Recorded by Five Swiss Peat Profiles: Enrichment Factors, Fluxes, Isotopic Composition, and Sources. Environmental Science & Technology, 1999, 33, 1340-1352.	10.0	276
3	A record of Late Pleistocene and Holocene carbon accumulation and climate change from an equatorial peat bog (Kalimantan, Indonesia): implications for past, present and future carbon dynamics. Journal of Quaternary Science, 2004, 19, 625-635.	2.1	266
4	Geochemistry of the peat bog at Etang de la Gruère, Jura Mountains, Switzerland, and its record of atmospheric Pb and lithogenic trace metals (Sc, Ti, Y, Zr, and REE) since 12,370 14 C yr BP. Geochimica Et Cosmochimica Acta, 2001, 65, 2337-2360.	3.9	253
5	Isotopic discrimination of zinc in higher plants. New Phytologist, 2005, 165, 703-710.	7.3	219
6	Zn and Cu isotopic variability in the Alexandrinka volcanic-hosted massive sulphide (VHMS) ore deposit, Urals, Russia. Chemical Geology, 2005, 221, 170-187.	3.3	210
7	Atmospheric Pb deposition in Spain during the last 4600 years recorded by two ombrotrophic peat bogs and implications for the use of peat as archive. Science of the Total Environment, 2002, 292, 33-44.	8.0	178
8	Improved provenance tracing of Asian dust sources using rare earth elements and selected trace elements for palaeomonsoon studies on the eastern Tibetan Plateau. Geochimica Et Cosmochimica Acta, 2011, 75, 6374-6399.	3.9	165
9	Stable Lead Isotope Compositions In Selected Coals From Around The World And Implications For Present Day Aerosol Source Tracing. Environmental Science & Technology, 2009, 43, 1078-1085.	10.0	159
10	Refining the pre-industrial atmospheric Pb isotope evolution curve in Europe using an 8000 year old peat core from NW Spain. Earth and Planetary Science Letters, 2005, 240, 467-485.	4.4	158
11	Stable Isotopes of Cu and Zn in Higher Plants: Evidence for Cu Reduction at the Root Surface and Two Conceptual Models for Isotopic Fractionation Processes. Environmental Science & Technology, 2012, 46, 2652-2660.	10.0	158
12	ZINC ISOTOPE VARIATION IN HYDROTHERMAL SYSTEMS: PRELIMINARY EVIDENCE FROM THE IRISH MIDLANDS ORE FIELD. Economic Geology, 2005, 100, 583-590.	3.8	151
13	The geochemistry of major and selected trace elements in a forested peat bog, Kalimantan, SE Asia, and its implications for past atmospheric dust deposition. Geochimica Et Cosmochimica Acta, 2002, 66, 2307-2323.	3.9	137
14	High-precision Cu and Zn isotope analysis by plasma source mass spectrometry. Journal of Analytical Atomic Spectrometry, 2004, 19, 218.	3.0	127
15	Kandelia obovata (S., L.) Yong tolerance mechanisms to Cadmium: Subcellular distribution, chemical forms and thiol pools. Marine Pollution Bulletin, 2012, 64, 2453-2460.	5.0	123
16	Atmospheric deposition and isotope biogeochemistry of zinc in ombrotrophic peat. Geochimica Et Cosmochimica Acta, 2007, 71, 3498-3517.	3.9	122
17	Identifying the sources and timing of ancient and medieval atmospheric lead pollution in England using a peat profile from Lindow bog, Manchester. Journal of Environmental Monitoring, 2004, 6, 502-510.	2.1	119
18	Application of Nontraditional Stable-Isotope Systems to the Study of Sources and Fate of Metals in the Environment. Environmental Science & Technology, 2008, 42, 655-664.	10.0	115

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19	Adsorption kinetics, capacity and mechanism of arsenate and phosphate on a bifunctional TiO <sub>2</sub> @Fe <sub>2</sub> O <sub>3</sub> bi-composite. <i>Journal of Colloid and Interface Science</i> , 2011, 364, 205-212.	9.4	111
20	Investigations into the kinetics and thermodynamics of Sb(III) adsorption on goethite ( $\alpha$ -FeOOH). <i>Journal of Colloid and Interface Science</i> , 2006, 303, 639-646.	9.4	109
21	High-precision Cu and Zn isotope analysis by plasma source mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 209.	3.0	107
22	Evidence for the mechanisms of zinc uptake by rice using isotope fractionation. <i>Plant, Cell and Environment</i> , 2010, 33, 370-381.	5.7	107
23	Possible evidence for wet Heinrich phases in tropical NE Australia: the Lynch's Crater deposit. <i>Quaternary Science Reviews</i> , 2008, 27, 468-475.	3.0	96
24	New Peat Bog Record of Atmospheric Lead Pollution in Switzerland: Pb Concentrations, Enrichment Factors, Isotopic Composition, and Organolead Species. <i>Environmental Science &amp; Technology</i> , 2002, 36, 3893-3900.	10.0	95
25	Measurement of zinc stable isotope ratios in biogeochemical matrices by double-spike MC-ICPMS and determination of the isotope ratio pool available for plants from soil. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 3115-3125.	3.7	95
26	Comparative study of the temporal evolution of atmospheric lead deposition in Scotland and eastern Canada using blanket peat bogs. <i>Science of the Total Environment</i> , 2002, 292, 7-18.	8.0	93
27	ZINC ISOTOPES IN SPHALERITE FROM BASE METAL DEPOSITS IN THE RED DOG DISTRICT, NORTHERN ALASKA. <i>Economic Geology</i> , 2009, 104, 767-773.	3.8	86
28	Accurate and precise Pb isotope ratio measurements in environmental samples by MC-ICP-MS. <i>International Journal of Mass Spectrometry</i> , 2004, 232, 205-215.	1.5	83
29	Geochemistry of rare earth elements in a marine influenced coal and its organic solvent extracts from the Antaibao mining district, Shanxi, China. <i>International Journal of Coal Geology</i> , 2008, 76, 309-317.	5.0	83
30	Tracing of anthropogenic zinc sources in coastal environments using stable isotope composition. <i>Chemical Geology</i> , 2017, 449, 226-235.	3.3	83
31	Use of isotope ratios to assess sources of Pb and Zn dispersed in the environment during mining and ore processing within the Orlovka-Spokoinoe mining site (Russia). <i>Applied Geochemistry</i> , 2006, 21, 563-579.	3.0	82
32	Inference of abrupt changes in noisy geochemical records using transdimensional changepoint models. <i>Earth and Planetary Science Letters</i> , 2011, 311, 182-194.	4.4	79
33	Title is missing!. <i>Water, Air, and Soil Pollution</i> , 1997, 100, 311-324.	2.4	78
34	Iron isotope fractionation during leaching of granite and basalt by hydrochloric and oxalic acids. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1312-1324.	3.9	78
35	Fractionation of Metal Stable Isotopes by Higher Plants. <i>Elements</i> , 2009, 5, 375-380.	0.5	77
36	The use of principle component analyses in characterising trace and major elemental distribution in a 55kyr peat deposit in tropical Australia: Implications to paleoclimate. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 449-463.	3.9	72

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37	Tracing Bioavailability of ZnO Nanoparticles Using Stable Isotope Labeling. <i>Environmental Science &amp; Technology</i> , 2012, 46, 12137-12145.	10.0	71
38	Lead atmospheric deposition rates and isotopic trends in Asian dust during the last 9.5kyr recorded in an ombrotrophic peat bog on the eastern Qinghai-Tibetan Plateau. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 82, 4-22.	3.9	69
39	Strong evidence for the continued contribution of lead deposited during the 20th century to the atmospheric environment in London of today. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	68
40	Rare earth element and Pb isotope variations in a 52 kyr peat core from Lynch's Crater (NE Queensland), Tj ETQq0 0 0 rgBT /Overlo <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 942-960.	3.9	62
41	A simple combined sample standard bracketing and inter-element correction procedure for accurate mass bias correction and precise Zn and Cu isotope ratio measurements. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 103-110.	3.0	59
42	Natural lead isotope variations in the atmosphere. <i>Earth and Planetary Science Letters</i> , 2010, 290, 44-53.	4.4	59
43	The short-term effect of cadmium on low molecular weight organic acid and amino acid exudation from mangrove ( <i>Kandelia obovata</i> (S., L.) Yong) roots. <i>Environmental Science and Pollution Research</i> , 2013, 20, 997-1008.	5.3	57
44	Accurate and Precise Zinc Isotope Ratio Measurements in Urban Aerosols. <i>Analytical Chemistry</i> , 2008, 80, 9776-9780.	6.5	56
45	A new separation procedure for Cu prior to stable isotope analysis by MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1627.	3.0	56
46	Lead Isotopes in Lichen Transplants around a Cu Smelter in Russia Determined by MC-ICP-MS Reveal Transient Records of Multiple Sources. <i>Environmental Science &amp; Technology</i> , 2004, 38, 6522-6528.	10.0	54
47	Zinc isotopic fractionation in <i>Phragmites australis</i> in response to toxic levels of zinc. <i>Journal of Experimental Botany</i> , 2011, 62, 2169-2178.	4.8	54
48	Development of an ombrotrophic peat bog (low ash) reference material for the determination of elemental concentrations. <i>Journal of Environmental Monitoring</i> , 2004, 6, 493-501.	2.1	51
49	ESR signal intensity and crystallinity of quartz from Gobi and sandy deserts in East Asia and implication for tracing Asian dust provenance. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2615-2627.	2.5	46
50	Stable isotope ratio measurements of Cu and Zn in mineral dust (bulk and size fractions) from the Taklimakan Desert and the Sahel and in aerosols from the eastern tropical North Atlantic Ocean. <i>Talanta</i> , 2013, 114, 103-109.	5.5	45
51	Determination of Pb in the ash fraction of plants and peats using the Energy-dispersive Miniprobe Multielement Analyser (EMMA). <i>Analyst, The</i> , 1998, 123, 2097-2102.	3.5	44
52	Two high resolution terrestrial records of atmospheric Pb deposition from New Brunswick, Canada, and Loch Laxford, Scotland. <i>Science of the Total Environment</i> , 2009, 407, 1644-1657.	8.0	44
53	The effects of oil on As(V) adsorption on illite, kaolinite, montmorillonite and chlorite. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 121, 487-502.	3.9	44
54	Zinc Isotope Variability in Three Coal-Fired Power Plants: A Predictive Model for Determining Isotopic Fractionation during Combustion. <i>Environmental Science &amp; Technology</i> , 2015, 49, 12560-12567.	10.0	44

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55	Reactive transport modelling of geologic CO <sub>2</sub> sequestration in saline aquifers: The influence of pure CO <sub>2</sub> and of mixtures of CO <sub>2</sub> with CH <sub>4</sub> on the sealing capacity of cap rock at 37°C and 100bar. <i>Chemical Geology</i> , 2014, 367, 39-50.	3.3	43
56	The effect of crude oil on arsenate adsorption on goethite. <i>Water Research</i> , 2010, 44, 5673-5683.	11.3	41
57	Isotopic fractionation of Zn in tomato plants suggests the role of root exudates on Zn uptake. <i>Plant and Soil</i> , 2013, 370, 605-613.	3.7	39
58	The influence of climate, hydrology and permafrost on Holocene peat accumulation at 3500m on the eastern Qinghai-Tibetan Plateau. <i>Quaternary Science Reviews</i> , 2009, 28, 3303-3314.	3.0	37
59	Zinc Isotope Fractionation during Early Dissolution of Biotite Granite. <i>Soil Science Society of America Journal</i> , 2014, 78, 171-179.	2.2	37
60	Iron and zinc isotope fractionation during uptake and translocation in rice ( <i>Oryza sativa</i> ) grown in oxic and anoxic soils. <i>Comptes Rendus - Geoscience</i> , 2015, 347, 397-404.	1.2	37
61	The inorganic geochemistry of a peat deposit on the eastern Qinghai-Tibetan Plateau and insights into changing atmospheric circulation in central Asia during the Holocene. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 91, 7-31.	3.9	36
62	Determination of lead isotope ratios in seawater by quadrupole inductively coupled plasma mass spectrometry after Mg(OH) <sub>2</sub> co-precipitation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2000, 55, 363-374.	2.9	34
63	Insights into the dynamics and sources of atmospheric lead and particulate matter in São Paulo, Brazil, from high temporal resolution sampling. <i>Atmospheric Research</i> , 2010, 98, 478-485.	4.1	34
64	A global assessment of Zn isotope fractionation in secondary Zn minerals from sulfide and non-sulfide ore deposits and model for fractionation control. <i>Chemical Geology</i> , 2018, 500, 182-193.	3.3	34
65	A critical examination of the possible application of zinc stable isotope ratios in bivalve mollusks and suspended particulate matter to trace zinc pollution in a tropical estuary. <i>Environmental Pollution</i> , 2017, 226, 41-47.	7.5	32
66	Geochemical and stratigraphic evidence of environmental change at Lynch's Crater, Queensland, Australia. <i>Global and Planetary Change</i> , 2006, 53, 269-277.	3.5	31
67	Zinc isotopes as tracers of anthropogenic sources and biogeochemical processes in contaminated mangroves. <i>Applied Geochemistry</i> , 2018, 95, 25-32.	3.0	31
68	High precision isotope measurements reveal poor control of copper metabolism in Parkinsonism. <i>Metallomics</i> , 2013, 5, 125.	2.4	29
69	High-precision measurements of seawater Pb isotope compositions by double spike thermal ionization mass spectrometry. <i>Analytica Chimica Acta</i> , 2015, 863, 59-69.	5.4	29
70	Lead Penetration and Leaching in a Complex Temperate Soil Profile. <i>Environmental Science &amp; Technology</i> , 2008, 42, 3177-3184.	10.0	26
71	A rapid and reliable method for Pb isotopic analysis of peat and lichens by laser ablation-quadrupole-inductively coupled plasma-mass spectrometry for biomonitoring and sample screening. <i>Analytica Chimica Acta</i> , 2007, 582, 116-124.	5.4	25
72	Metalliferous sediments from the H.M.S. Challenger voyage (1872-1876). <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5019-5038.	3.9	24

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73	A preliminary method for determining acceptable trace element levels in coal. <i>Energy</i> , 2010, 35, 70-76.	8.8	23
74	Anthropogenic Forcings on the Surficial Osmium Cycle. <i>Environmental Science &amp; Technology</i> , 2010, 44, 881-887.	10.0	23
75	Evidence of Competitive Adsorption of Sb(III) and As(III) on Activated Alumina. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 2521-2524.	3.7	22
76	An experimental and theoretical investigation into the use of H <sub>2</sub> for the simultaneous removal of ArO <sup>+</sup> and ArOH <sup>+</sup> isobaric interferences during Fe isotope ratio analysis with collision cell based Multi-Collector Inductively Coupled Plasma Mass Spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 666-672.	2.9	20
77	Closed-vessel microwave digestion technique for lichens and leaves prior to determination of trace elements (Pb, Zn, Cu) and stable Pb isotope ratios. <i>International Journal of Environmental Analytical Chemistry</i> , 2004, 84, 889-899.	3.3	19
78	Molecular Recognition and Scavenging of Arsenate from Aqueous Solution Using Dimetallic Receptors. <i>Chemistry - A European Journal</i> , 2014, 20, 17168-17177.	3.3	18
79	Tracing the Agulhas leakage with lead isotopes. <i>Geophysical Research Letters</i> , 2015, 42, 8515-8521.	4.0	18
80	A single procedure for the accurate and precise quantification of the rare earth elements, Sc, Y, Th and Pb in dust and peat for provenance tracing in climate and environmental studies. <i>Talanta</i> , 2012, 93, 415-423.	5.5	17
81	Sample preparation procedures for accurate and precise isotope analysis of Pb in peat by multiple collector (MC)-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 1275.	3.0	16
82	Dust dispersal and Pb enrichment at the rare-metal Orlovka "Spokoinoe mining and ore processing site: Insights from REE patterns and elemental ratios. <i>Journal of Hazardous Materials</i> , 2006, 132, 90-97.	12.4	16
83	Ferrihydrite precipitation in groundwater-fed river systems (Nete and Demer river basins, Belgium): Insights from a combined Fe-Zn-Sr-Nd-Pb-isotope study. <i>Chemical Geology</i> , 2014, 386, 1-15.	3.3	16
84	Lacustrine sediments and lichen transplants: two contrasting and complimentary environmental archives of natural and anthropogenic lead in the South Urals, Russia. <i>Aquatic Sciences</i> , 2013, 75, 185-198.	1.5	11
85	A Teaching Exercise To Introduce Stable Isotope Fractionation of Metals into Geochemistry Courses. <i>Journal of Chemical Education</i> , 2013, 90, 1014-1017.	2.3	11
86	Chapter 21 Archiving natural and anthropogenic lead deposition in peatlands. <i>Developments in Earth Surface Processes</i> , 2006, 9, 479-497.	2.8	10
87	Experimental study of pH effect on uranium (UVI) particle formation and transport through quartz sand in alkaline 0.1 M sodium chloride solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 592, 124375.	4.7	10
88	Isotope fractionation of zinc in the paddy rice soil-water environment and the role of 2-deoxymugineic acid (DMA) as zincophore under Zn limiting conditions. <i>Chemical Geology</i> , 2021, 577, 120271.	3.3	10
89	Development of DRC-ICP-MS methodology for the rapid determination of <sup>58</sup> Fe erythrocyte incorporation in human iron absorption studies. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1648.	3.0	8
90	Numerical simulations of dust fluxes to the eastern Qinghai-Tibetan Plateau: Comparison of model results with a Holocene peat record of dust deposition. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4597-4609.	3.3	8

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91	The determination of oxidation rates and quantum yields during the photocatalytic oxidation of As(III) over TiO <sub>2</sub> . Journal of Photochemistry and Photobiology A: Chemistry, 2022, 424, 113628.	3.9	8
92	Unravelling the <i>modus operandi</i> of phytosiderophores during zinc uptake in rice: the importance of geochemical gradients and accurate stability constants. Journal of Experimental Botany, 2021, 72, 1517-1526.	4.8	5
93	Adsorption of Oxy-Anions in the Teaching Laboratory: An Experiment To Study a Fundamental Environmental Engineering Problem. Journal of Chemical Education, 2014, 91, 505-510.	2.3	4
94	A pilot study on the effect of desferrioxamine B on uranium VI precipitation and dissolution in pH 11.5, 0.1 M NaCl solutions. Journal of Radioanalytical and Nuclear Chemistry, 2022, 331, 1779-1784.	1.5	1
95	Selected papers from the 29th SEGH Conference on Environmental Geochemistry and Health. Environmental Geochemistry and Health, 2014, 36, 829-829.	3.4	0