Mark RehkÃ¤mper

List of Publications by Year
in descending order

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Version: 2024-02-01

118 papers	7,765 citations	30070 54 h-index	53230 85 g-index
121 all docs	121 docs citations	121 times ranked	5635 citing authors

#	Article	IF	Citations
1	ZnO Nanomaterials and Ionic Zn Partition within Wastewater Sludge Investigated by Isotopic Labeling. Global Challenges, 2022, 6, 2100091.	3.6	2
2	New methods for determination of the mass-independent and mass-dependent platinum isotope compositions of iron meteorites by MC-ICP-MS. Journal of Analytical Atomic Spectrometry, 2022, 37, 783-794.	3.0	3
3	The dissipation of the solar nebula constrained by impacts and core cooling in planetesimals. Nature Astronomy, 2022, 6, 812-818.	10.1	4
4	Zinc stable isotopes in urine as diagnostic for cancer of secretory organs. Metallomics, 2021, 13, .	2.4	12
5	Zinc stable isotope analysis reveals Zn dyshomeostasis in benign tumours, breast cancer, and adjacent histologically normal tissue. Metallomics, 2021, 13, .	2.4	12
6	Cold-water corals as archives of seawater Zn and Cu isotopes. Chemical Geology, 2021, 578, 120304.	3.3	10
7	Evaluation of Optimized Procedures for High-Precision Lead Isotope Analyses of Seawater by Multiple Collector Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2020, 92, 11232-11241.	6.5	8
8	Rheniumâ€Based Complexes and in Vivo Testing: A Brief History. ChemBioChem, 2020, 21, 2111-2115.	2.6	37
9	Postprandial zinc stable isotope response in human blood serum. Metallomics, 2020, 12, 1380-1388.	2.4	7
10	Cadmium isotope fractionation reveals genetic variation in Cd uptake and translocation by Theobroma cacao and role of natural resistance-associated macrophage protein 5 and heavy metal ATPase-family transporters. Horticulture Research, 2020, 7, 71.	6.3	39
11	Using isotopes to trace freshly applied cadmium through mineral phosphorus fertilization in soil-fertilizer-plant systems. Science of the Total Environment, 2019, 648, 779-786.	8.0	46
12	Assessment of coupled Zn concentration and natural stable isotope analyses of urine as a novel probe of Zn status. Metallomics, 2019, 11, 1506-1517.	2.4	11
13	Corrigendum to â€œIsotopic evidence for complex biogeochemical cycling of Cd in the eastern tropical South Pacificâ€•[Earth Planet. Sci. Lett. 512 (2019) 134â€“146]. Earth and Planetary Science Letters, 2019, 524, 115752.	4.4	0
14	Stable isotope labeling of metal/metal oxide nanomaterials for environmental and biological tracing. Nature Protocols, 2019, 14, 2878-2899.	12.0	25
15	High-sensitivity tracing of stable isotope labeled Ag nanoparticles in environmental samples using MC-ICP-MS. Journal of Analytical Atomic Spectrometry, 2019, 34, 1173-1183.	3.0	5
16	Isotopic evidence for complex biogeochemical cycling of Cd in the eastern tropical South Pacific. Earth and Planetary Science Letters, 2019, 512, 134-146.	4.4	32
17	Cadmium isotope fractionation in the soil â€“ cacao systems of Ecuador: a pilot field study. RSC Advances, 2019, 9, 34011-34022.	3.6	36
18	Towards an understanding of the Cd isotope fractionation during transfer from the soil to the cereal grain. Environmental Pollution, 2019, 244, 834-844.	7.5	51

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19	Variable Tl, Pb, and Cd concentrations and isotope compositions of enstatite andÂordinary chondritesâ€"Evidence for volatile element mobilization and decay of extinct ²⁰⁵Pb. Meteoritics and Planetary Science, 2018, 53, 167-186.	1.6	21
20	Fate of Cd in Agricultural Soils: A Stable Isotope Approach to Anthropogenic Impact, Soil Formation, and Soil-Plant Cycling. Environmental Science & Technology, 2018, 52, 1919-1928.	10.0	117
21	Thallium Mass Fraction and Stable Isotope Ratios of Sixteen Geological Reference Materials. Geostandards and Geoanalytical Research, 2018, 42, 339-360.	3.1	11
22	The distribution of lead concentrations and isotope compositions in the eastern Tropical Atlantic Ocean. Geochimica Et Cosmochimica Acta, 2018, 225, 36-51.	3.9	21
23	Determination of major and trace element variability in healthy human urine by ICP-QMS and specific gravity normalisation. RSC Advances, 2018, 8, 38022-38035.	3.6	14
24	The GEOTRACES Intermediate Data Product 2017. Chemical Geology, 2018, 493, 210-223.	3.3	257
25	Inter-calibration of a proposed new primary reference standard AA-ETH Zn for zinc isotopic analysis. Journal of Analytical Atomic Spectrometry, 2017, 32, 415-419.	3.0	86
26	Investigation and Application of Thallium Isotope Fractionation. Reviews in Mineralogy and Geochemistry, 2017, 82, 759-798.	4.8	70
27	High Precision Zinc Stable Isotope Measurement of Certified Biological Reference Materials Using the Double Spike Technique and Multiple Collector-ICP-MS. Analytical and Bioanalytical Chemistry, 2017, 409, 2941-2950.	3.7	28
28	The Cd isotope composition of atmospheric aerosols from the Tropical Atlantic Ocean. Geophysical Research Letters, 2017, 44, 2932-2940.	4.0	32
29	Novel Multi-isotope Tracer Approach To Test ZnO Nanoparticle and Soluble Zn Bioavailability in Joint Soil Exposures. Environmental Science & Technology, 2017, 51, 12756-12763.	10.0	21
30	Nucleosynthetic molybdenum isotope anomalies in iron meteorites â€“ new evidence for thermal processing of solar nebula material. Earth and Planetary Science Letters, 2017, 473, 215-226.	4.4	63
31	Interactions of dissolved CO2 with cadmium isotopes in the Southern Ocean. Marine Chemistry, 2017, 195, 105-121.	2.3	17
32	A geochemical study of the winonaites: Evidence for limited partial melting and constraints on the precursor composition. Geochimica Et Cosmochimica Acta, 2017, 199, 13-30.	3.9	46
33	18 Investigation and Application of Thallium Isotope Fractionation. , 2017, , 759-798.		2
34	Return of naturally sourced Pb to Atlantic surface waters. Nature Communications, 2016, 7, 12921.	12.8	47
35	Cadmium Isotope Fractionation in Soilâ€"Wheat Systems. Environmental Science & Technology, 2016, 50, 9223-9231.	10.0	113
36	Neodymium isotopic composition and concentration in the western North Atlantic Ocean: Results from the GEOTRACES GA02 section. Geochimica Et Cosmochimica Acta, 2016, 177, 1-29.	3.9	117

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37	Molybdenum drawdown during Cretaceous Oceanic Anoxic Event 2. Earth and Planetary Science Letters, 2016, 440, 81-91.	4.4	61
38	Improvements in Cd stable isotope analysis achieved through use of liquidâ€“liquid extraction to remove organic residues from Cd separates obtained by extraction chromatography. Journal of Analytical Atomic Spectrometry, 2016, 31, 319-327.	3.0	34
39	Earthworm Uptake Routes and Rates of Ionic Zn and ZnO Nanoparticles at Realistic Concentrations, Traced Using Stable Isotope Labeling. Environmental Science & Technology, 2016, 50, 412-419.	10.0	57
40	High precision ¹⁴²Ce/¹⁴⁰Ce stable isotope measurements of purified materials with a focus on CeO₂ nanoparticles. Journal of Analytical Atomic Spectrometry, 2016, 31, 297-302.	3.0	20
41	Tracing the Agulhas leakage with lead isotopes. Geophysical Research Letters, 2015, 42, 8515-8521.	4.0	18
42	High-precision measurements of seawater Pb isotope compositions by double spike thermal ionization mass spectrometry. Analytica Chimica Acta, 2015, 863, 59-69.	5.4	29
43	Cadmium-isotopic evidence for increasing primary productivity during the Late Permian anoxic event. Earth and Planetary Science Letters, 2015, 410, 84-96.	4.4	60
44	Iron and zinc isotope fractionation during uptake and translocation in rice (Oryza sativa) grown in oxic and anoxic soils. Comptes Rendus - Geoscience, 2015, 347, 397-404.	1.2	37
45	Fe and O isotope composition of meteorite fusion crusts: Possible natural analogues to chondrule formation?. Meteoritics and Planetary Science, 2015, 50, 229-242.	1.6	17
46	Zinc isotopic compositions of breast cancer tissue. Metallomics, 2015, 7, 112-117.	2.4	90
47	Thallium geochemistry in the metamorphic Lengenbach sulfide deposit, Switzerland: Thallium-isotope fractionation in a sulfide melt. American Mineralogist, 2014, 99, 793-803.	1.9	28
48	The geochemistry of Tl and its isotopes during magmatic and hydrothermal processes: The peralkaline Ilimaussaq complex, southwest Greenland. Chemical Geology, 2014, 366, 1-13.	3.3	29
49	Comment on â€œThe isotopic composition of cadmium in the water column of the South China Seaâ€• Geochimica Et Cosmochimica Acta, 2014, 134, 335-338.	3.9	5
50	An inter-laboratory comparison of high precision stable isotope ratio measurements for nanoparticle tracing in biological samples. Journal of Analytical Atomic Spectrometry, 2014, 29, 471-477.	3.0	17
51	Tracing Anthropogenic Thallium in Soil Using Stable Isotope Compositions. Environmental Science & Technology, 2014, 48, 9030-9036.	10.0	52
52	Controls on thallium uptake during hydrothermal alteration of the upper ocean crust. Geochimica Et Cosmochimica Acta, 2014, 144, 25-42.	3.9	32
53	Synthesis and characterization of isotopically labeled silver nanoparticles for tracing studies. Environmental Science: Nano, 2014, 1, 271-283.	4.3	23
54	Measurement of fossil deep-sea coral Nd isotopic compositions and concentrations by TIMS as NdO+, with evaluation of cleaning protocols. Chemical Geology, 2014, 374-375, 128-140.	3.3	26

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55	Unlocking the zinc isotope systematics of iron meteorites. Earth and Planetary Science Letters, 2014, 400, 153-164.	4.4	37
56	A Common Reference Material for Cadmium Isotope Studies â€“ NIST SRM 3108. Geostandards and Geoanalytical Research, 2013, 37, 5-17.	3.1	117
57	Isotopic analysis of Cd in the mixing zone of Siberian rivers with the Arctic Oceanâ€”New constraints on marine Cd cycling and the isotope composition of riverine Cd. Earth and Planetary Science Letters, 2013, 361, 64-73.	4.4	57
58	Cadmium isotope variations in the Southern Ocean. Earth and Planetary Science Letters, 2013, 382, 161-172.	4.4	73
59	Resolution of inter-laboratory discrepancies in Mo isotope data: an intercalibration. Journal of Analytical Atomic Spectrometry, 2013, 28, 724.	3.0	138
60	Towards an understanding of thallium isotope fractionation during adsorption to manganese oxides. Geochimica Et Cosmochimica Acta, 2013, 117, 252-265.	3.9	95
61	High precision isotope measurements reveal poor control of copper metabolism in Parkinsonism. Metallomics, 2013, 5, 125.	2.4	29
62	Stable Isotope Tracer To Determine Uptake and Efflux Dynamics of ZnO Nano- and Bulk Particles and Dissolved Zn to an Estuarine Snail. Environmental Science & Technology, 2013, 47, 8532-8539.	10.0	41
63	GEOTRACES IC1 (BATS) contaminationâ€prone trace element isotopes Cd, Fe, Pb, Zn, Cu, and Mo intercalibration. Limnology and Oceanography: Methods, 2012, 10, 653-665.	2.0	98
64	Tracing Bioavailability of ZnO Nanoparticles Using Stable Isotope Labeling. Environmental Science & Technology, 2012, 46, 12137-12145.	10.0	71
65	Evaluation of Stable Isotope Tracing for ZnO Nanomaterialsâ€”New Constraints from High Precision Isotope Analyses and Modeling.. Environmental Science & Technology, 2012, 46, 4149-4158.	10.0	46
66	A new methodology for precise cadmium isotope analyses of seawater. Analytical and Bioanalytical Chemistry, 2012, 402, 883-893.	3.7	72
67	Thallium Isotopes and Their Application to Problems in Earth and Environmental Science. Advances in Isotope Geochemistry, 2012, , 247-269.	1.4	18
68	A new separation procedure for Cu prior to stable isotope analysis by MC-ICP-MS. Journal of Analytical Atomic Spectrometry, 2011, 26, 1627.	3.0	56
69	The cadmium-phosphate relationship in brine: biological versus physical control over micronutrients in sea ice environments. Antarctic Science, 2010, 22, 11.	0.9	11
70	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. Analytical and Bioanalytical Chemistry, 2010, 398, 3115-3125.	3.7	95
71	A nebula setting as the origin for bulk chondrule Fe isotope variations in CV chondrites. Earth and Planetary Science Letters, 2010, 296, 423-433.	4.4	47
72	Tellurium isotope compositions of calciumâ€aluminumâ€rich inclusions. Meteoritics and Planetary Science, 2009, 44, 971-984.	1.6	18

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73	Cadmium and phosphate in coastal Antarctic seawater: Implications for Southern Ocean nutrient cycling. Marine Chemistry, 2008, 112, 149-157.	2.3	33
74	Cd/Ca ratios of in situ collected planktonic foraminiferal tests. Paleoceanography, 2008, 23, .	3.0	20
75	The effects of core formation on the Pb- and Tl- isotopic composition of the silicate Earth. Earth and Planetary Science Letters, 2008, 269, 326-336.	4.4	37
76	Cadmium stable isotope cosmochemistry. Geochimica Et Cosmochimica Acta, 2008, 72, 646-667.	3.9	137
77	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
78	Cadmium isotope fractionation in seawater â€" A signature of biological activity. Earth and Planetary Science Letters, 2007, 261, 670-684.	4.4	139
79	Thallium isotopes in Iceland and Azores lavas â€" Implications for the role of altered crust and mantle geochemistry. Earth and Planetary Science Letters, 2007, 264, 332-345.	4.4	58
80	A highly sensitive MC-ICPMS method for Cd/Ca analyses of foraminiferal tests. Journal of Analytical Atomic Spectrometry, 2007, 22, 1275.	3.0	10
81	Hydrothermal fluid fluxes calculated from the isotopic mass balance of thallium in the ocean crust. Earth and Planetary Science Letters, 2006, 251, 120-133.	4.4	145
82	Large thallium isotopic variations in iron meteorites and evidence for lead-205 in the early solar system. Geochimica Et Cosmochimica Acta, 2006, 70, 2643-2657.	3.9	57
83	Search for nucleosynthetic and radiogenic tellurium isotope anomalies in carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 2006, 70, 3436-3448.	3.9	35
84	Thallium isotopic evidence for ferromanganese sediments in the mantle source of Hawaiian basalts. Nature, 2006, 439, 314-317.	27.8	106
85	Nb/Zr fractionation on the Moon and the search for extinct 92Nb. Geochimica Et Cosmochimica Acta, 2005, 69, 775-785.	3.9	22
86	Thallium isotope composition of the upper continental crust and riversâ€"An investigation of the continental sources of dissolved marine thallium. Geochimica Et Cosmochimica Acta, 2005, 69, 2007-2019.	3.9	107
87	Nucleosynthetic zirconium isotope anomalies in acid leachates of carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 2005, 69, 5113-5122.	3.9	56
88	Tellurium isotopic composition of the early solar systemâ€"A search for effects resulting from stellar nucleosynthesis, 126Sn decay, and mass-independent fractionation. Geochimica Et Cosmochimica Acta, 2005, 69, 5099-5112.	3.9	35
89	Stable Isotope Analysis by Multiple Collector ICP-MS. , 2004, , 692-725.		9
90	A Reflection on Mg, Cd, Ca, Li and Si Isotopic Measurements and Related Reference Materials. Geostandards and Geoanalytical Research, 2004, 28, 139-148.	1.9	59

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91	Problems and Suggestions Concerning the Notation of Cadmium Stable Isotope Compositions and the Use of Reference Materials. Geostandards and Geoanalytical Research, 2004, 28, 173-178.	1.9	46
92	Application of MC-ICPMS to the precise determination of tellurium isotope compositions in chondrites, iron meteorites and sulfides. International Journal of Mass Spectrometry, 2004, 232, 83-94.	1.5	81
93	The mass balance of dissolved thallium in the oceans. Marine Chemistry, 2004, 85, 125-139.	2.3	94
94	Ion exchange chromatography and high precision isotopic measurements of zirconium by MC-ICP-MS. Analyst, The, 2004, 129, 32-37.	3.5	57
95	The precise and accurate determination of thallium isotope compositions and concentrations for water samples by MC-ICPMS. Chemical Geology, 2004, 204, 109-124.	3.3	110
96	Determination of the mass-dependence of cadmium isotope fractionation during evaporation. Geochimica Et Cosmochimica Acta, 2004, 68, 2349-2357.	3.9	109
97	Cenozoic marine geochemistry of thallium deduced from isotopic studies of ferromanganese crusts and pelagic sediments. Earth and Planetary Science Letters, 2004, 219, 77-91.	4.4	106
98	Investigation of the mass discrimination of multiple collector ICP-MS using neodymium isotopes and the generalised power law. Journal of Analytical Atomic Spectrometry, 2003, 18, 1371-1375.	3.0	87
99	Stable isotope compositions of cadmium in geological materials and meteorites determined by multiple-collector ICPMS. Geochimica Et Cosmochimica Acta, 2003, 67, 4639-4654.	3.9	222
100	Zirconium isotope evidence for incomplete admixing of r -process components in the solar nebula. Earth and Planetary Science Letters, 2003, 216, 467-481.	4.4	69
101	Niobium-Zirconium Chronometry and Early Solar System Development. Science, 2002, 295, 1705-1708.	12.6	165
102	Determination of ultra-low Nb, Ta, Zr and Hf concentrations and the chondritic Zr/Hf and Nb/Ta ratios by isotope dilution analyses with multiple collector ICP-MS. Chemical Geology, 2002, 187, 295-313.	3.3	185
103	Thallium isotope variations in seawater and hydrogenetic, diagenetic, and hydrothermal ferromanganese deposits. Earth and Planetary Science Letters, 2002, 197, 65-81.	4.4	177
104	Multiple Collector ICP-MS: Introduction to Instrumentation, Measurement Techniques and Analytical Capabilities. Geostandards and Geoanalytical Research, 2001, 25, 23-40.	3.1	133
105	Sr, Nd, Pb and O Isotopes of Minettes from Schirmacher Oasis, East Antarctica: a Case of Mantle Metasomatism involving Subducted Continental Material. Journal of Petrology, 2001, 42, 1387-1400.	2.8	36
106	Tracing the Earth's evolution. Nature, 2000, 407, 848-849.	27.8	3
107	Cadmium, indium, tin, tellurium, and sulfur in oceanic basalts: Implications for chalcophile element fractionation in the Earth. Journal of Geophysical Research, 2000, 105, 18927-18948.	3.3	130
108	Investigation of matrix effects for Pb isotope ratio measurements by multiple collector ICP-MS: verification and application of optimized analytical protocols. Journal of Analytical Atomic Spectrometry, 2000, 15, 1451-1460.	3.0	165

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109	Non-chondritic platinum-group element ratios in oceanic mantle lithosphere: petrogenetic signature of melt percolation?. Earth and Planetary Science Letters, 1999, 172, 65-81.	4.4	145
110	The precise measurement of Tl isotopic compositions by MC-ICPMS: Application to the analysis of geological materials and meteorites. Geochimica Et Cosmochimica Acta, 1999, 63, 935-944.	3.9	139
111	Ir, Ru, Pt, and Pd in basalts and komatiites: new constraints for the geochemical behavior of the platinum-group elements in the mantle. Geochimica Et Cosmochimica Acta, 1999, 63, 3915-3934.	3.9	280
112	Precise Determination of Cadmium, Indium and Tellurium Using Multiple Collector ICP-MS. Geostandards and Geoanalytical Research, 1998, 22, 173-179.	3.1	38
113	Applications of Multiple Collector-ICPMS to Cosmochemistry, Geochemistry, and Paleoceanography. Geochimica Et Cosmochimica Acta, 1998, 62, 919-940.	3.9	256
114	Platinum-Group Element Abundance Patterns in Different Mantle Environments. Science, 1997, 278, 1595-1598.	12.6	122
115	High precision 230Th/232Th and 234U/238U measurements using energyfiltered ICP magnetic sector multiple collector mass spectrometry. International Journal of Mass Spectrometry and Ion Processes, 1997, 171, 105-117.	1.8	185
116	Early evolution of the Earth and Moon: new constraints from Hf-W isotope geochemistry. Earth and Planetary Science Letters, 1996, 142, 75-89.	4.4	115
117	A highly sensitive HPLC method for the determination of Th and U concentrations in geological samples. Chemical Geology, 1995, 119, 1-12.	3.3	15
118	A new low-level HPLC technique for quantitative determination of niobium in rocks. Chemical Geology, 1994, 113, 61-69.	3.3	9