

Thomas Meisel

List of Publications by Year in descending order

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97
papers

5,094
citations

101543

36
h-index

88630

70
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104
all docs

104
docs citations

104
times ranked

3468
citing authors

#	ARTICLE	IF	CITATIONS
1	To Waste or Not to Waste: Questioning Potential Health Risks of Micro- and Nanoplastics with a Focus on Their Ingestion and Potential Carcinogenicity. <i>Exposure and Health</i> , 2023, 15, 33-51.	4.9	37
2	Magmatic and metamorphic evolution of the Latimojong Metamorphic Complex, Indonesia. <i>Journal of Asian Earth Sciences</i> , 2022, 227, 105095.	2.3	3
3	Determination of Re, Os, Ir, Ru, Pt, Pd Mass Fractions and $^{187}\text{Os}/^{188}\text{Os}$ Ratios of Organic-Rich Geological Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2022, 46, 333-349.	3.1	3
4	COST Action PRIORITY: An EU Perspective on Micro- and Nanoplastics as Global Issues. <i>Microplastics</i> , 2022, 1, 282-290.	4.2	12
5	The Haidbach deposit in the Central Tauern Window, Eastern Alps, Austria: a metamorphosed orthomagmatic Ni-Cu-Co-PGE mineralization in the Polymetallic Ore District Venediger Nappe System "Hollersbach Complex". <i>Austrian Journal of Earth Sciences</i> , 2021, 114, 1-26.	0.5	1
6	Simultaneous determination of platinum group elements and rhenium mass fractions in road dust samples using isotope dilution inductively coupled plasma-tandem mass spectrometry after cation exchange separation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 177, 106052.	2.9	7
7	Studies on the Formation and Processing of Aluminium Dross with Particular Focus on Special Metals. <i>Metals</i> , 2021, 11, 1108.	2.3	3
8	Authentication of meat and dairy products using rare earth element labeling and detection by solution based and laser ablation ICP-MS. <i>Food Research International</i> , 2020, 132, 109106.	6.2	10
9	Effects of reactive dissolution of orthopyroxene in producing incompatible element depleted melts and refractory mantle residues during early fore-arc spreading: constraints from ophiolites in eastern Mediterranean. <i>Lithos</i> , 2020, 360-361, 105438.	1.4	15
10	Why $\hat{\mu}$ is not $\hat{\sigma}$ and why we should not use $\hat{\mu}$ and $\hat{\sigma}$ notations. <i>Geostandards and Geoanalytical Research</i> , 2019, 43, 527-528.	3.1	7
11	Rare Earth Element Labeling as a Tool for Assuring the Origin of Eggs and Poultry Products. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 11729-11738.	5.2	21
12	A tool to assure the geographical origin of local food products (glasshouse tomatoes) using labeling with rare earth elements. <i>Journal of the Science of Food and Agriculture</i> , 2018, 98, 4769-4777.	3.5	11
13	Geochemical Reference Materials. <i>Encyclopedia of Earth Sciences Series</i> , 2018, , 553-554.	0.1	0
14	Method Development and Optimisation of Sodium Peroxide Sintering for Geological Samples. <i>Geostandards and Geoanalytical Research</i> , 2017, 41, 181-195.	3.1	17
15	Chemometric techniques to protect the traditional Austrian pumpkin seed oil. <i>European Journal of Lipid Science and Technology</i> , 2017, 119, 1600468.	1.5	7
16	Multi-element analysis of crude oils using ICP-QQQ-MS. <i>Organic Geochemistry</i> , 2017, 103, 22-30.	1.8	41
17	Analytical Methods for the Highly Siderophile Elements. , 2016, , 89-106.		7
18	Active biomonitoring of palladium, platinum, and rhodium emissions from road traffic using transplanted moss. <i>Environmental Science and Pollution Research</i> , 2016, 23, 16790-16801.	5.3	19

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19	Iridium. Encyclopedia of Earth Sciences Series, 2016, , 1-3.	0.1	0
20	Geochemical Reference Materials. Encyclopedia of Earth Sciences Series, 2016, , 1-2.	0.1	0
21	Elimination of Interferences in the Determination of Palladium, Platinum and Rhodium Mass Fractions in Moss Samples using $\langle \text{sc} \rangle \text{ICP} \langle / \text{sc} \rangle \hat{=}$ $\langle \text{sc} \rangle \text{MS} \langle / \text{sc} \rangle / \langle \text{sc} \rangle \text{MS} \langle / \text{sc} \rangle$. Geostandards and Geoanalytical Research, 2016, 40, 559-569.	3.1	23
22	Closed-system behaviour of the Re $\hat{=}$ Os isotope system recorded in primary and secondary platinum-group mineral assemblages: Evidence from a mantle chromitite at Harold's Grave (Shetland) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.4	15
23	Analytical Methods for the Highly Siderophile Elements. Reviews in Mineralogy and Geochemistry, 2016, 81, 89-106.	4.8	29
24	The potential impact of municipal solid waste incinerators ashes on the anthropogenic osmium budget. Science of the Total Environment, 2016, 541, 1549-1555.	8.0	12
25	The rare earth elements in municipal solid waste incinerators ash and promising tools for their prospecting. Journal of Hazardous Materials, 2016, 301, 471-479.	12.4	56
26	Editorial: $\langle \text{sc} \rangle \text{IAG} \langle / \text{sc} \rangle$ Workshop papers $\hat{=}$ Proficiency Testing, Certification, Reference Materials. Geostandards and Geoanalytical Research, 2015, 39, 405-406.	3.1	0
27	Solid residues from Italian municipal solid waste incinerators: A source for $\hat{=}$ critical $\hat{=}$ raw materials. Waste Management, 2015, 45, 206-216.	7.4	80
28	Source components and magmatic processes in the genesis of Miocene to Quaternary lavas in western Turkey: constraints from HSE distribution and Hf $\hat{=}$ Pb $\hat{=}$ Os isotopes. Contributions To Mineralogy and Petrology, 2015, 170, 1.	3.1	23
29	Geochemistry, Re $\hat{=}$ Os isotopes and highly siderophile element abundances in the Eastern Pontide peridotites (NE Turkey): Multiple episodes of melt extraction $\hat{=}$ depletion, melt $\hat{=}$ rock interaction and fertilization of the Rheic Ocean mantle. Gondwana Research, 2015, 27, 612-628.	6.0	28
30	Origin and evolution of metamorphosed mantle peridotites of Darreh Deh (Nain Ophiolite, Central) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Palaontologie - Abhandlungen, 2014, 273, 89-120.	0.4	15
31	Traces of ancient mafic layers in the Tethys oceanic mantle. Earth and Planetary Science Letters, 2014, 389, 155-166.	4.4	19
32	Re-evaluating digestion methods for highly siderophile element and ^{187}Os isotope analysis: Evidence from geological reference materials. Chemical Geology, 2014, 384, 27-46.	3.3	111
33	Editorial - GGR Cutting Edge Reviews. Geostandards and Geoanalytical Research, 2013, 37, 109-109.	3.1	0
34	Origin of primary PGM assemblage in $\hat{=}$ chromitite from a mantle tectonite at Harold $\hat{=}$'s Grave (Shetland) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.1	7
35	Origin and evolution of Cenozoic magmatism of Sardinia (Italy). A combined isotopic (Sr $\hat{=}$ Nd $\hat{=}$ Pb $\hat{=}$ O $\hat{=}$ Hf $\hat{=}$ Os) and petrological view. Lithos, 2013, 180-181, 138-158.	1.4	51
36	$\langle \text{sup} \rangle 40 \langle / \text{sup} \rangle \text{Ar} \hat{=}$ $\langle \text{sup} \rangle 39 \langle / \text{sup} \rangle \text{Ar}$ ages and isotope geochemistry of Cretaceous basalts in northern Madagascar: refining eruption ages, extent of crustal contamination and parental magmas in a flood basalt province. Geological Magazine, 2013, 150, 1-17.	1.5	34

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37	Suitability of elemental fingerprinting for assessing the geographic origin of pumpkin (<i>Cucurbita pepo</i>) Tj ETQq1 1 0.784314 38BT /Over	8.2	38
38	Editorial - New GGR Editorial Board. <i>Geostandards and Geoanalytical Research</i> , 2013, 37, 237-242.	3.1	0
39	Editorial: Geoanalysis 2012. <i>Geostandards and Geoanalytical Research</i> , 2013, 37, 377-377.	3.1	0
40	Osmium isotope systematics and highly siderophile element fractionation in spinel-peridotites from the Tethyan ophiolites in SW Turkey: Implications for multi-stage evolution of oceanic upper mantle. <i>Chemical Geology</i> , 2012, 294-295, 152-164.	3.3	27
41	Review of platinum-group element distribution and mineralogy in chromitite ores from southern Iran. <i>Ore Geology Reviews</i> , 2012, 48, 278-305.	2.7	28
42	Peer-review 2011. <i>Geostandards and Geoanalytical Research</i> , 2012, 36, 5-6.	3.1	1
43	Coexistence of abyssal and ultra-depleted SSZ type mantle peridotites in a Neo-Tethyan Ophiolite in SW Turkey: Constraints from mineral composition, whole-rock geochemistry (major and trace REE-PGE), and Re-Os isotope systematics. <i>Lithos</i> , 2012, 132-133, 50-69.	1.4	157
44	The future demand for geological reference materials. <i>Accreditation and Quality Assurance</i> , 2011, 16, 407-414.	0.8	9
45	Identification of the geographical origin of pumpkin seed oil by the use of rare earth elements and discriminant analysis. <i>Food Chemistry</i> , 2010, 123, 1303-1309.	8.2	66
46	Comparison between Nickel-Sulfur Fire Assay Te-Co precipitation and Isotope Dilution with High-Pressure Asher Acid Digestion for the Determination of Platinum-Group Elements, Rhenium and Gold. <i>Geostandards and Geoanalytical Research</i> , 2010, 34, 281-291.	3.1	116
47	Highly Refractory Peridotites on Macquarie Island and the Case for Anciently Depleted Domains in the Earth's Mantle. <i>Journal of Petrology</i> , 2010, 51, 469-493.	2.8	45
48	U-Pb Ages, Pb-Os Isotope Ratios, and Platinum-Group Element (PGE) Composition of the West-Central Madagascar Flood Basalt Province. <i>Journal of Geology</i> , 2010, 118, 523-541.	1.4	28
49	Experimental Determination of Vapor-Liquid Equilibria and Excess Enthalpy Data for the Binary System 2-Methyl-1-butanol + 3-Methyl-1-butanol as a Test Mixture for Distillation Columns. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 1844-1847.	3.7	5
50	Mid-ocean ridge and supra-subduction geochemical signatures in spinel-peridotites from the Neotethyan ophiolites in SW Turkey: Implications for upper mantle melting processes. <i>Lithos</i> , 2009, 113, 691-708.	1.4	110
51	Petrology of Al- and Cr-rich ophiolitic chromitites from the Muğla, SW Turkey: implications from composition of chromite, solid inclusions of platinum-group mineral, silicate, and base-metal mineral, and Os-isotope geochemistry. <i>Contributions To Mineralogy and Petrology</i> , 2009, 158, 659-674.	3.1	155
52	Abundance and distribution of platinum-group elements in orogenic lherzolites; a case study in a Fontete Rouge lherzolite (French Pyrenees). <i>Chemical Geology</i> , 2008, 248, 174-194.	3.3	101
53	Evidence for a gradual rise of oxygen between 2.6 and 2.5Ga from Mo isotopes and Re-PGE signatures in shales. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 2417-2435.	3.9	254
54	International Association of Geoanalysts' Protocol for the Certification of Geological and Environmental Reference Materials: A Supplement. <i>Geostandards and Geoanalytical Research</i> , 2007, 31, 285-288.	1.9	30

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55	Diverse contributing sources to chromitite petrogenesis in the Shebenik Ophiolitic Complex, Albania: evidence from new PGE- and Os-isotope data. <i>Mineralogy and Petrology</i> , 2007, 91, 139-170.	1.1	31
56	Synthesis of PGE sulfide standards for laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS). <i>Contributions To Mineralogy and Petrology</i> , 2007, 154, 607-617.	3.1	102
57	Cumulates and gabbros in southern Albanian ophiolites: their bearing on regional tectonic setting. <i>Geological Society Special Publication</i> , 2006, 260, 267-299.	1.3	17
58	High Pressure Asher Digestion and an Isotope Dilution-ICP-MS Method for the Determination of Platinum-Group Element Concentrations in Chromitite Reference Materials CHR-Bkg, GAN Pt-1 and HHH. <i>Geostandards and Geoanalytical Research</i> , 2006, 30, 87-96.	1.9	32
59	Speciation analysis of inorganic antimony in soil using HPLC-ID-ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 383, 1052-1059.	3.7	34
60	PGE, Re-Os, and Mo isotope systematics in Archean and early Proterozoic sedimentary systems as proxies for redox conditions of the early Earth. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 1787-1801.	3.9	134
61	Antimony speciation in soil samples along two Austrian motorways by HPLC-ID-ICP-MS. <i>Journal of Environmental Monitoring</i> , 2005, 7, 1200.	2.1	44
62	A Metamorphosed Early Cambrian Crust-Mantle Transition in the Eastern Alps, Austria. <i>Journal of Petrology</i> , 2004, 45, 1689-1723.	2.8	41
63	Platinum-Group Element and Rhenium Concentrations in Low Abundance Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2004, 28, 233-250.	1.9	89
64	Determination of anthropogenic input of Ru, Rh, Pd, Re, Os, Ir and Pt in soils along Austrian motorways by isotope dilution ICP-MS. <i>Science of the Total Environment</i> , 2004, 325, 145-154.	8.0	107
65	Boron metasomatism and behaviour of rare earth elements during formation of tourmaline rocks in the eastern Arunta Inlier, central Australia. <i>Contributions To Mineralogy and Petrology</i> , 2004, 147, 91-109.	3.1	25
66	Reference materials for geochemical PGE analysis: new analytical data for Ru, Rh, Pd, Os, Ir, Pt and Re by isotope dilution ICP-MS in 11 geological reference materials. <i>Chemical Geology</i> , 2004, 208, 319-338.	3.3	195
67	Rare earth, major and trace elements in Jurassic manganese shales of the Northern Calcareous Alps: hydrothermal versus hydrogenous origin of stratiform manganese deposits. <i>Mineralogy and Petrology</i> , 2003, 77, 109-127.	1.1	29
68	Geochemistry and tectonomagmatic affinity of the Yungbwa ophiolite, SW Tibet. <i>Lithos</i> , 2003, 66, 155-172.	1.4	123
69	An uncertainty budget for trace analysis by isotope-dilution ICP-MS with proper consideration of correlation. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 377, 97-110.	3.7	38
70	A simple procedure for the determination of platinum group elements and rhenium (Ru, Rh, Pd, Re, Os,) Tj ETQq0 0 0 rgBT /Overlock 10 environmental materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 720.	3.0	166
71	Reâ€“Os systematics of UB-N, a serpentinized peridotite reference material. <i>Chemical Geology</i> , 2003, 201, 161-179.	3.3	115
72	Uncertainty of dead time estimation in ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 508-511.	3.0	9

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73	Combined Chemical Separation of Lu, Hf, Sm, Nd, and REEs from a Single Rock Digest:Â Precise and Accurate Isotope Determinations of LuâHf and SmâNd Using Multicollector-ICPMS. <i>Analytical Chemistry</i> , 2002, 74, 67-73.	6.5	53
74	Evolution of the archean/proterozoic crust in the southern SÃo Francisco craton near PerdÃes, Minas Gerais, Brazil: petrological and geochemical constraints. <i>Journal of South American Earth Sciences</i> , 2002, 15, 709-723.	1.4	8
75	Petrogenesis and geotectonic setting of ultramafic rocks in the Eastern Alps: constraints from geochemistry. <i>Lithos</i> , 2002, 65, 69-112.	1.4	91
76	The Jurassic South Albanian ophiolites: MOR- vs. SSZ-type ophiolites. <i>Lithos</i> , 2002, 65, 143-164.	1.4	80
77	Relics of eclogite facies metamorphism in the Austroalpine basement, HochgrÃssen (Speik complex), Austria. <i>Mineralogy and Petrology</i> , 2002, 74, 49-73.	1.1	32
78	Determination of Rare Earth Elements, Y, Th, Zr, Hf, Nb and Ta in Geological Reference Materials G-2, G-3, SCO-1 and WGB-1 by Sodium Peroxide Sintering and Inductively Coupled Plasma-Mass Spectrometry. <i>Geostandards and Geoanalytical Research</i> , 2002, 26, 53-61.	3.1	75
79	The Re-Os Isotopic System: A Review of Analytical Techniques. <i>Geostandards and Geoanalytical Research</i> , 2002, 26, 249-267.	3.1	68
80	Osmium isotopic compositions of mantle xenoliths: a global perspective. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 1311-1323.	3.9	594
81	Use of atomic spectrometry for the investigation of ancient manuscripts. <i>Journal of Analytical Atomic Spectrometry</i> , 2001, 16, 417-420.	3.0	19
82	Recognizing heterogeneous distribution of platinum group elements (PGE) in geological materials by means of the Re-Os isotope system. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 370, 566-572.	1.5	59
83	Simplified method for the determination of Ru, Pd, Re, Os, Ir and Pt in chromitites and other geological materials by isotope dilution ICP-MS and acid digestion. <i>Analyst, The</i> , 2001, 126, 322-328.	3.5	124
84	PGE enrichment in chromitite layers and the Merensky Reef of the western Bushveld Complex; a ReâOs and RbâSr isotope study. <i>Earth and Planetary Science Letters</i> , 1999, 172, 49-64.	4.4	117
85	Weathering and polymerization of tektites: An x-ray photoelectron spectroscopy (XPS) investigation. <i>Meteoritics and Planetary Science</i> , 1998, 33, 89-95.	1.6	4
86	Reply to Comment by W. von Engelhardt and J. Arndt on âThe chemical variation of moldavite tektites: Simple mixing of terrestrial sedimentsâ. <i>Meteoritics and Planetary Science</i> , 1998, 33, 536-536.	1.6	1
87	ReOs isotopes in orogenic peridotite massifs in the Eastern Alps, Austria. <i>Chemical Geology</i> , 1997, 143, 217-229.	3.3	37
88	The chemical variation of moldavite tektites: Simple mixing of terrestrial sediments. <i>Meteoritics and Planetary Science</i> , 1997, 32, 493-502.	1.6	29
89	ReâOs, SmâNd, and rare earth element evidence for Proterozoic oceanic and possible subcontinental lithosphere in tectonized ultramafic lenses from the Swiss Alps. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 2583-2593.	3.9	28
90	Efficient N-TIMS rhenium isotope measurements on outgassed tantalum filaments: very low filament blanks determined by a âstandard additionâ approach. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1996, 153, L7-L10.	1.8	7

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91	The osmium isotopic composition of the Earth's primitive upper mantle. <i>Nature</i> , 1996, 383, 517-520.	27.8	348
92	Combined osmium and strontium isotopic study of the Cretaceous-Tertiary boundary at Sumbar, Turkmenistan: A test for an impact vs. a volcanic hypothesis. <i>Geology</i> , 1995, 23, 313.	4.4	36
93	Low blank determination of boron in geochemical materials. <i>Analytica Chimica Acta</i> , 1994, 298, 267-270.	5.4	9
94	Geochemistry of polymetamorphic ultramafics (Major, Trace, Noble and Rare Earth Elements): An example from the Helvetic basement, Central Alps, Switzerland. <i>Mineralogy and Petrology</i> , 1993, 49, 189-212.	1.1	6
95	Halogens in tektites and impact glasses. <i>Meteoritics</i> , 1992, 27, 576-579.	1.4	6
96	Geochemistry of Darwin impact glass and target rocks. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 1463-1474.	3.9	30
97	Highlights from 25 Years of the Geo <i>PT</i> Programme: What Can be Learnt for the Advancement of Geoanalysis. <i>Geostandards and Geoanalytical Research</i> , 0, , .	3.1	3