

Thomas Meisel

List of Publications by Year in descending order

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97
papers

5,094
citations

101543

36
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88630

70
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104
all docs

104
docs citations

104
times ranked

3468
citing authors

#	ARTICLE	IF	CITATIONS
1	Osmium isotopic compositions of mantle xenoliths: a global perspective. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 1311-1323.	3.9	594
2	The osmium isotopic composition of the Earth's primitive upper mantle. <i>Nature</i> , 1996, 383, 517-520.	27.8	348
3	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
4	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
5	A simple procedure for the determination of platinum group elements and rhenium (Ru, Rh, Pd, Re, Os,) in environmental materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 720.	3.0	166
6	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
7	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
8	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
9	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</i> , 2001, 126, 322-328.	3.5	124
10	Geochemistry and tectonomagmatic affinity of the Yungbwa ophiolite, SW Tibet. <i>Lithos</i> , 2003, 66, 155-172.	1.4	123
11	PGE enrichment in chromitite layers and the Merensky Reef of the western Bushveld Complex; a Re-Os and Rb-Sr isotope study. <i>Earth and Planetary Science Letters</i> , 1999, 172, 49-64.	4.4	117
12	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
13	Re-Os systematics of UB-N, a serpentinized peridotite reference material. <i>Chemical Geology</i> , 2003, 201, 161-179.	3.3	115
14	Re-evaluating digestion methods for highly siderophile element and 187Os isotope analysis: Evidence from geological reference materials. <i>Chemical Geology</i> , 2014, 384, 27-46.	3.3	111
15	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
16	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
17	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
18	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

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19	Petrogenesis and geotectonic setting of ultramafic rocks in the Eastern Alps: constraints from geochemistry. <i>Lithos</i> , 2002, 65, 69-112.	1.4	91
20	Platinum-Group Element and Rhenium Concentrations in Low Abundance Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2004, 28, 233-250.	1.9	89
21	The Jurassic South Albanian ophiolites: MOR- vs. SSZ-type ophiolites. <i>Lithos</i> , 2002, 65, 143-164.	1.4	80
22	Solid residues from Italian municipal solid waste incinerators: A source for "critical" raw materials. <i>Waste Management</i> , 2015, 45, 206-216.	7.4	80
23	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
24	The Re-Os Isotopic System: A Review of Analytical Techniques. <i>Geostandards and Geoanalytical Research</i> , 2002, 26, 249-267.	3.1	68
25	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
26	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
27	The rare earth elements in municipal solid waste incinerators ash and promising tools for their prospecting. <i>Journal of Hazardous Materials</i> , 2016, 301, 471-479.	12.4	56
28	Combined Chemical Separation of Lu, Hf, Sm, Nd, and REEs from a Single Rock Digest: A Precise and Accurate Isotope Determinations of Lu-Hf and Sm-Nd Using Multicollector-ICPMS. <i>Analytical Chemistry</i> , 2002, 74, 67-73.	6.5	53
29	Origin and evolution of Cenozoic magmatism of Sardinia (Italy). A combined isotopic (Sr-Nd-Pb-Os-Hf) and petrological view. <i>Lithos</i> , 2013, 180-181, 138-158.	1.4	51
30	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
31	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
32	A Metamorphosed Early Cambrian Crust-Mantle Transition in the Eastern Alps, Austria. <i>Journal of Petrology</i> , 2004, 45, 1689-1723.	2.8	41
33	Multi-element analysis of crude oils using ICP-QQQ-MS. <i>Organic Geochemistry</i> , 2017, 103, 22-30.	1.8	41
34	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
35	Suitability of elemental fingerprinting for assessing the geographic origin of pumpkin (<i>Cucurbita pepo</i>) Tj ETQq1 1 0.784314 ggBT /Over 8.2 38	8.2	38
36	ReOs isotopes in orogenic peridotite massifs in the Eastern Alps, Austria. <i>Chemical Geology</i> , 1997, 143, 217-229.	3.3	37

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37	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
38	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
39	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
40	⁴⁰ Ar- ³⁹ 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. <i>Geological Magazine</i> , 2013, 150, 1-17.	1.5	34
41	Relics of eclogite facies metamorphism in the Austroalpine basement, Hochgrün (Speik complex), Austria. <i>Mineralogy and Petrology</i> , 2002, 74, 49-73.	1.1	32
42	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
43	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
44	Geochemistry of Darwin impact glass and target rocks. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 1463-1474.	3.9	30
45	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
46	The chemical variation of moldavite tektites: Simple mixing of terrestrial sediments. <i>Meteoritics and Planetary Science</i> , 1997, 32, 493-502.	1.6	29
47	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
48	Analytical Methods for the Highly Siderophile Elements. <i>Reviews in Mineralogy and Geochemistry</i> , 2016, 81, 89-106.	4.8	29
49	Re-Os, Sm-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
50	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
51	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
52	Geochemistry, Re-Os isotopes and highly siderophile element abundances in the Eastern Pontide peridotites (NE Turkey): Multiple episodes of melt extraction-depletion, melt-rock interaction and fertilization of the Rhenic Ocean mantle. <i>Gondwana Research</i> , 2015, 27, 612-628.	6.0	28
53	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
54	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

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55	Source components and magmatic processes in the genesis of Miocene to Quaternary lavas in western Turkey: constraints from HSE distribution and Hf ¹⁸² -Pb ²¹⁰ -Os isotopes. <i>Contributions To Mineralogy and Petrology</i> , 2015, 170, 1.	3.1	23
56	Elimination of Interferences in the Determination of Palladium, Platinum and Rhodium Mass Fractions in Moss Samples using $\langle \text{ICP} \rangle \langle \text{MS} \rangle / \langle \text{MS} \rangle$. <i>Geostandards and Geoanalytical Research</i> , 2016, 40, 559-569.	3.1	23
57	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
58	Use of atomic spectrometry for the investigation of ancient manuscripts. <i>Journal of Analytical Atomic Spectrometry</i> , 2001, 16, 417-420.	3.0	19
59	Traces of ancient mafic layers in the Tethys oceanic mantle. <i>Earth and Planetary Science Letters</i> , 2014, 389, 155-166.	4.4	19
60	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
61	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
62	Method Development and Optimisation of Sodium Peroxide Sintering for Geological Samples. <i>Geostandards and Geoanalytical Research</i> , 2017, 41, 181-195.	3.1	17
63	Origin and evolution of metamorphosed mantle peridotites of Darreh Deh (Nain Ophiolite, Central Tj ETQq1 1 0.784314 rgBT /Overl... Palaontologie - Abhandlungen, 2014, 273, 89-120.	0.4	15
64	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
65	Closed-system behaviour of the Re ¹⁸⁷ -Os isotope system recorded in primary and secondary platinum-group mineral assemblages: Evidence from a mantle chromitite at Harold's Grave (Shetland) Tj ETQq1 1 0.784314 rgBT /Overl...	0.7	15
66	The potential impact of municipal solid waste incinerators ashes on the anthropogenic osmium budget. <i>Science of the Total Environment</i> , 2016, 541, 1549-1555.	8.0	12
67	COST Action PRIORITY: An EU Perspective on Micro- and Nanoplastics as Global Issues. <i>Microplastics</i> , 2022, 1, 282-290.	4.2	12
68	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
69	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
70	Low blank determination of boron in geochemical materials. <i>Analytica Chimica Acta</i> , 1994, 298, 267-270.	5.4	9
71	Uncertainty of dead time estimation in ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 508-511.	3.0	9
72	The future demand for geological reference materials. <i>Accreditation and Quality Assurance</i> , 2011, 16, 407-414.	0.8	9

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73	Evolution of the archean/proterozoic crust in the southern São Francisco craton near Perdões, Minas Gerais, Brazil: petrological and geochemical constraints. <i>Journal of South American Earth Sciences</i> , 2002, 15, 709-723.	1.4	8
74	Efficient N-TIMS rhenium isotope measurements on outgassed tantalum filaments: very low filament blanks determined by a "standard addition" approach. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1996, 153, L7-L10.	1.8	7
75	Origin of primary PGM assemblage in chromitite from a mantle tectonite at Harold's Grave (Shetland) Tj ETQq _{1.1} 0.784314 rgBT	1.1	7
76	Analytical Methods for the Highly Siderophile Elements. , 2016, , 89-106.		7
77	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
78	Why $\hat{\nu}$ is not $\hat{\nu}^\circ$ and why we should not use $\hat{\mu}$ and $\hat{\nu}/4$ notations. <i>Geostandards and Geoanalytical Research</i> , 2019, 43, 527-528.	3.1	7
79	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
80	Halogens in tektites and impact glasses. <i>Meteoritics</i> , 1992, 27, 576-579.	1.4	6
81	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
82	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
83	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
84	Studies on the Formation and Processing of Aluminium Dross with Particular Focus on Special Metals. <i>Metals</i> , 2021, 11, 1108.	2.3	3
85	Magmatic and metamorphic evolution of the Latimojong Metamorphic Complex, Indonesia. <i>Journal of Asian Earth Sciences</i> , 2022, 227, 105095.	2.3	3
86	Highlights from 25 Years of the Geo PT Programme: What Can be Learnt for the Advancement of Geoanalysis. <i>Geostandards and Geoanalytical Research</i> , 0, , .	3.1	3
87	Determination of Re, Os, Ir, Ru, Pt, Pd Mass Fractions and ¹⁸⁷ Os/ ¹⁸⁸ Os Ratios of Organic-Rich Geological Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2022, 46, 333-349.	3.1	3
88	Reply to Comment by W. von Engelhardt and J. Arndt on "The chemical variation of moldavite tektites: Simple mixing of terrestrial sediments". <i>Meteoritics and Planetary Science</i> , 1998, 33, 536-536.	1.6	1
89	Peer-review 2011. <i>Geostandards and Geoanalytical Research</i> , 2012, 36, 5-6.	3.1	1
90	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

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91	Editorial - GGR Cutting Edge Reviews. Geostandards and Geoanalytical Research, 2013, 37, 109-109.	3.1	0
92	Editorial - New GGR Editorial Board. Geostandards and Geoanalytical Research, 2013, 37, 237-242.	3.1	0
93	Editorial: Geoanalysis 2012. Geostandards and Geoanalytical Research, 2013, 37, 377-377.	3.1	0
94	Editorial: <sc>IAG</sc> Workshop papers “Proficiency Testing, Certification, Reference Materials. Geostandards and Geoanalytical Research, 2015, 39, 405-406.	3.1	0
95	Iridium. Encyclopedia of Earth Sciences Series, 2016, , 1-3.	0.1	0
96	Geochemical Reference Materials. Encyclopedia of Earth Sciences Series, 2016, , 1-2.	0.1	0
97	Geochemical Reference Materials. Encyclopedia of Earth Sciences Series, 2018, , 553-554.	0.1	0