

Andreas Stracke

List of Publications by Year in descending order

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68
papers

9,065
citations

101384

36
h-index

106150

65
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68
all docs

68
docs citations

68
times ranked

5877
citing authors

#	ARTICLE	IF	CITATIONS
1	Composition of the depleted mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, n/a-n/a.	1.0	1,377
2	Determination of Reference Values for NIST SRM 610–617 Glasses Following ISO Guidelines. <i>Geostandards and Geoanalytical Research</i> , 2011, 35, 397-429.	1.7	1,371
3	MPI-DING reference glasses for in situ microanalysis: New reference values for element concentrations and isotope ratios. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	1.0	563
4	FOZO, HIMU, and the rest of the mantle zoo. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	1.0	512
5	Trace element composition of mantle end-members: Implications for recycling of oceanic and upper and lower continental crust. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	1.0	416
6	Recycling oceanic crust: Quantitative constraints. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	1.0	389
7	Earth's heterogeneous mantle: A product of convection-driven interaction between crust and mantle. <i>Chemical Geology</i> , 2012, 330-331, 274-299.	1.4	343
8	Nb/Ta and Zr/Hf in ocean island basalts – Implications for crust–mantle differentiation and the fate of Niobium. <i>Earth and Planetary Science Letters</i> , 2007, 254, 158-172.	1.8	322
9	Genesis of Ultramafic Lamprophyres and Carbonatites at Aillik Bay, Labrador: a Consequence of Incipient Lithospheric Thinning beneath the North Atlantic Craton. <i>Journal of Petrology</i> , 2006, 47, 1261-1315.	1.1	289
10	Formation of enriched mantle components by recycling of upper and lower continental crust. <i>Chemical Geology</i> , 2010, 276, 188-197.	1.4	239
11	Craton reactivation on the Labrador Sea margins: $^{40}\text{Ar}/^{39}\text{Ar}$ age and $\text{Sr}^{87}\text{Nd}^{143}\text{Hf}^{176}\text{Pb}$ isotope constraints from alkaline and carbonatite intrusives. <i>Earth and Planetary Science Letters</i> , 2007, 256, 433-454.	1.8	234
12	Between carbonatite and lamproite – Diamondiferous Torngat ultramafic lamprophyres formed by carbonate-fluxed melting of cratonic MARID-type metasomes. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 3258-3286.	1.6	221
13	The importance of melt extraction for tracing mantle heterogeneity. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 218-238.	1.6	196
14	Zircon and titanite recording 1.5 million years of magma accretion, crystallization and initial cooling in a composite pluton (southern Adamello batholith, northern Italy). <i>Earth and Planetary Science Letters</i> , 2009, 286, 208-218.	1.8	175
15	Rates of magma differentiation and emplacement in a ballooning pluton recorded by U^{238}Pb TIMS-TEA, Adamello batholith, Italy. <i>Earth and Planetary Science Letters</i> , 2012, 355-356, 162-173.	1.8	173
16	Theistareykir revisited. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	1.0	142
17	Chondritic Mg isotope composition of the Earth. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5069-5083.	1.6	141
18	Continental geochemical signatures in dacites from Iceland and implications for models of early Archaean crust formation. <i>Earth and Planetary Science Letters</i> , 2009, 279, 44-52.	1.8	135

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19	GSD-1G and MPI-DING Reference Glasses for In Situ and Bulk Isotopic Determination. <i>Geostandards and Geoanalytical Research</i> , 2011, 35, 193-226.	1.7	122
20	Sources and mobility of carbonate melts beneath cratons, with implications for deep carbon cycling, metasomatism and rift initiation. <i>Earth and Planetary Science Letters</i> , 2017, 466, 152-167.	1.8	120
21	Fast intraslab fluid-flow events linked to pulses of high pore fluid pressure at the subducted plate interface. <i>Earth and Planetary Science Letters</i> , 2018, 482, 33-43.	1.8	106
22	Melt extraction in the Earth's mantle: Constraints from U-Th-Pa-Ra studies in oceanic basalts. <i>Earth and Planetary Science Letters</i> , 2006, 244, 97-112.	1.8	105
23	A possible high Nb/Ta reservoir in the continental lithospheric mantle and consequences on the global Nb budget – Evidence from continental basalts from Central Germany. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 77, 232-251.	1.6	98
24	The peculiar geochemical signatures of São Miguel (Azores) lavas: Metasomatised or recycled mantle sources?. <i>Earth and Planetary Science Letters</i> , 2007, 259, 186-199.	1.8	88
25	The geochemical consequences of mixing melts from a heterogeneous mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 114, 112-143.	1.6	88
26	Domains of depleted mantle: New evidence from hafnium and neodymium isotopes. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	1.0	69
27	Refractory element fractionation in the Allende meteorite: Implications for solar nebula condensation and the chondritic composition of planetary bodies. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 85, 114-141.	1.6	68
28	Assessing the presence of garnet-pyroxenite in the mantle sources of basalts through combined hafnium-neodymium-thorium isotope systematics. <i>Geochemistry, Geophysics, Geosystems</i> , 2000, 1, n/a-n/a.	1.0	67
29	Plates or plumes in the origin of kimberlites: U/Pb perovskite and Sr-Nd-Hf-Os-C-O isotope constraints from the Superior craton (Canada). <i>Chemical Geology</i> , 2017, 455, 57-83.	1.4	67
30	Source enrichment processes responsible for isotopic anomalies in oceanic island basalts. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 2699-2724.	1.6	56
31	Timing of juvenile arc crust formation and evolution in the Sapat Complex (Kohistan-Pakistan). <i>Chemical Geology</i> , 2011, 280, 243-256.	1.4	55
32	Insights into the dynamics of mantle plumes from uranium-series geochemistry. <i>Nature</i> , 2006, 444, 713-717.	13.7	53
33	Ubiquitous ultra-depleted domains in Earth's mantle. <i>Nature Geoscience</i> , 2019, 12, 851-855.	5.4	52
34	The dynamics of melting beneath Theistareykir, northern Iceland. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	1.0	48
35	The tungsten-182 record of kimberlites above the African superplume: Exploring links to the core-mantle boundary. <i>Earth and Planetary Science Letters</i> , 2020, 547, 116473.	1.8	40
36	Origins of kimberlites and carbonatites during continental collision – Insights beyond decoupled Nd-Hf isotopes. <i>Earth-Science Reviews</i> , 2020, 208, 103287.	4.0	40

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37	Melt evolution beneath a rifted craton edge: 40 Ar/ 39 Ar geochronology and Sr ⁸⁷ /Nd ¹⁴³ /Hf ¹⁷⁶ /Pb isotope systematics of primitive alkaline basalts and lamprophyres from the SW Baltic Shield. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 173, 1-36.	1.6	35
38	Lead transport in intra-oceanic subduction zones: 2D geochemical+thermo-mechanical modeling of isotopic signatures. <i>Lithos</i> , 2014, 208-209, 265-280.	0.6	32
39	Lack of late-accreted material as the origin of 182W excesses in the Archean mantle: Evidence from the Pilbara Craton, Western Australia. <i>Earth and Planetary Science Letters</i> , 2019, 528, 115841.	1.8	31
40	Rifting-related volcanism in an oceanic post-collisional setting: the Tabar+Lihir+Tanga+Feni (TLTF) island chain, Papua New Guinea. <i>Lithos</i> , 1998, 45, 545-560.	0.6	30
41	Sheared Peridotite and Megacryst Formation Beneath the Kaapvaal Craton: a Snapshot of Tectonomagmatic Processes across the Lithosphere+Asthenosphere Transition. <i>Journal of Petrology</i> , 2021, 62, .	1.1	27
42	Simplified mantle architecture and distribution of radiogenic power. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2265-2285.	1.0	26
43	Effects of simple acid leaching of crushed and powdered geological materials on high+precision Pb isotope analyses. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 2276-2302.	1.0	25
44	Open system models of isotopic evolution in Earth+silicate reservoirs: Implications for crustal growth and mantle heterogeneity. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 195, 142-157.	1.6	23
45	Tracing dehydration and melting of the subducted slab with tungsten isotopes in arc lavas. <i>Earth and Planetary Science Letters</i> , 2020, 530, 115942.	1.8	22
46	Comparing the nature of the western and eastern Azores mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 172, 76-92.	1.6	21
47	Constraints on mantle evolution from Ce-Nd-Hf isotope systematics. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 272, 36-53.	1.6	20
48	Compositional diversity among primitive lavas of Mauritius, Indian Ocean: Implications for mantle sources. <i>Journal of Volcanology and Geothermal Research</i> , 2007, 164, 76-94.	0.8	19
49	The Origin of Carbonatites from Amba Dongar within the Deccan Large Igneous Province. <i>Journal of Petrology</i> , 2019, 60, 1119-1134.	1.1	18
50	Ancient refractory asthenosphere revealed by mantle re-melting at the Arctic Mid Atlantic Ridge. <i>Earth and Planetary Science Letters</i> , 2021, 566, 116981.	1.8	18
51	A process-oriented approach to mantle geochemistry. <i>Chemical Geology</i> , 2021, 579, 120350.	1.4	18
52	Accurate and precise measurement of Ce isotope ratios by thermal ionization mass spectrometry (TIMS). <i>Chemical Geology</i> , 2018, 476, 119-129.	1.4	17
53	Earth's chondritic light rare earth element composition: Evidence from the Ce+Nd isotope systematics of chondrites and oceanic basalts. <i>Earth and Planetary Science Letters</i> , 2019, 509, 55-65.	1.8	17
54	Evolution of ultrapotassic volcanism on the Kaapvaal craton: deepening the orangeite versus lamproite debate. <i>Geological Society Special Publication</i> , 2022, 513, 17-44.	0.8	16

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55	The Loongana (CL) group of carbonaceous chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 304, 1-31.	1.6	15
56	Comment to ^{207}Pb isotopic analysis of standards and samples using a ^{207}Pb - ^{204}Pb double spike and thallium to correct for mass bias with a double-focusing MC-ICP-MS by Baker et al.. <i>Chemical Geology</i> , 2005, 217, 171-174.	1.4	14
57	A comparison of sulfur isotope measurements of geologic materials by inductively coupled plasma and gas source mass spectrometry. <i>Chemical Geology</i> , 2020, 558, 119869.	1.4	9
58	Constraints on Archean crust formation from open system models of Earth evolution. <i>Chemical Geology</i> , 2019, 530, 119307.	1.4	7
59	Constraining the presence of amphibole and mica in metasomatized mantle sources through halogen partitioning experiments. <i>Lithos</i> , 2021, 380-381, 105859.	0.6	7
60	Tracking mantle depletion. <i>Nature Geoscience</i> , 2008, 1, 215-216.	5.4	6
61	Process-related isotope variability in oceanic basalts revealed by high-precision Sr isotope ratios in olivine-hosted melt inclusions. <i>Chemical Geology</i> , 2019, 524, 1-10.	1.4	5
62	Mantle Geochemistry. <i>Encyclopedia of Earth Sciences Series</i> , 2018, , 867-878.	0.1	3
63	Correction to ^{182}W Domains of depleted mantle: New evidence from hafnium and neodymium isotopes. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	1.0	1
64	Composition of Earth's Mantle. , 2021, , 164-177.		1
65	Depleted Mantle. <i>Encyclopedia of Earth Sciences Series</i> , 2016, , 182-185.	0.1	1
66	Mantle Geochemistry. <i>Encyclopedia of Earth Sciences Series</i> , 2016, , 1-12.	0.1	1
67	Mantle Geochemistry. <i>Encyclopedia of Earth Sciences Series</i> , 2016, , 1-12.	0.1	0
68	Depleted Mantle. , 2015, , 1-5.		0