

Martin P Smith

List of Publications by Year in descending order

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papers

2,301
citations

279798

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330143

37
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docs citations

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times ranked

1706
citing authors

#	ARTICLE	IF	CITATIONS
1	Fractionation of the REE during hydrothermal processes: constraints from the Bayan Obo Fe-REE-Nb deposit, Inner Mongolia, China.. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 3141-3160.	3.9	210
2	Diversity of Rare Earth Deposits: The Key Example of China. <i>Elements</i> , 2012, 8, 361-367.	0.5	210
3	Common lead-corrected laser ablation ICP-MS U-Pb systematics and geochronology of titanite. <i>Chemical Geology</i> , 2006, 227, 37-52.	3.3	175
4	A review of the genesis of the world class Bayan Obo Fe-REE-Nb deposits, Inner Mongolia, China: Multistage processes and outstanding questions. <i>Ore Geology Reviews</i> , 2015, 64, 459-476.	2.7	147
5	Adsorption of rare earth elements in regolith-hosted clay deposits. <i>Nature Communications</i> , 2020, 11, 4386.	12.8	146
6	From mantle to critical zone: A review of large and giant sized deposits of the rare earth elements. <i>Geoscience Frontiers</i> , 2016, 7, 315-334.	8.4	120
7	In situ LA-ICP-MS U-Pb dating of metavolcanics of Norrbotten, Sweden: Records of extended geological histories in complex titanite grains. <i>Chemical Geology</i> , 2007, 240, 163-181.	3.3	112
8	In Situ U-Pb and Trace Element Analysis of Accessory Minerals in the Kiruna District, Norrbotten, Sweden: New Constraints on the Timing and Origin of Mineralization. <i>Journal of Petrology</i> , 2009, 50, 2063-2094.	2.8	103
9	The boron isotopic composition of tourmaline as a guide to fluid processes in the southwestern England orefield: An ion microprobe study. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 1415-1427.	3.9	100
10	Genesis of the world's largest rare earth element deposit, Bayan Obo, China: Protracted mineralization evolution over $\sim 1/41$ b.y.. <i>Geology</i> , 2018, 46, 323-326.	4.4	82
11	Reaction relationships in the Bayan Obo Fe-REE-Nb deposit Inner Mongolia, China: implications for the relative stability of rare-earth element phosphates and fluorocarbonates. <i>Contributions To Mineralogy and Petrology</i> , 1999, 134, 294-310.	3.1	72
12	Origin of heavy rare earth mineralization in South China. <i>Nature Communications</i> , 2017, 8, 14598.	12.8	72
13	Provenancing of silcrete raw materials indicates long-distance transport to Tsodilo Hills, Botswana, during the Middle Stone Age. <i>Journal of Human Evolution</i> , 2013, 64, 280-288.	2.6	67
14	Metasomatic silicate chemistry at the Bayan Obo Fe-REE-Nb deposit, Inner Mongolia, China: Contrasting chemistry and evolution of fenitising and mineralising fluids. <i>Lithos</i> , 2007, 93, 126-148.	1.4	61
15	Origin of unusual HREE-Mo-rich carbonatites in the Qinling orogen, China. <i>Scientific Reports</i> , 2016, 6, 37377.	3.3	60
16	REE concentration processes in ion adsorption deposits: Evidence from the Ambohimirahavavy alkaline complex in Madagascar. <i>Ore Geology Reviews</i> , 2019, 112, 103027.	2.7	49
17	Hydrothermal fluid evolution and metal transport in the Kiruna District, Sweden: Contrasting metal behaviour in aqueous and aqueous-carbonic brines. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 102, 89-112.	3.9	48
18	Fluid inclusion and stable isotope constraints on the genesis of the Cligga Head Sn-W deposit, S.W. England. <i>European Journal of Mineralogy</i> , 1996, 8, 961-974.	1.3	46

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19	Going the distance: Mapping mobility in the Kalahari Desert during the Middle Stone Age through multi-site geochemical provenancing of silcrete artefacts. <i>Journal of Human Evolution</i> , 2016, 96, 113-133.	2.6	45
20	Alteration paragenesis and mineral chemistry of the TjÄrrojÄkka apatite-iron and Cu (-Au) occurrences, Kiruna area, northern Sweden. <i>Mineralium Deposita</i> , 2005, 40, 409-434.	4.1	43
21	The formation and alteration of allanite in skarn from the Beinn an Dubhaich granite aureole, Skye. <i>European Journal of Mineralogy</i> , 2002, 14, 471-486.	1.3	30
22	The in vitro corneal biocompatibility of hydroxyapatite coated carbon mesh. <i>Biomaterials</i> , 2009, 30, 3143-3149.	11.4	28
23	Provenancing silcrete in the Cape coastal zone: Implications for Middle Stone Age research in South Africa. <i>Journal of Human Evolution</i> , 2013, 65, 682-688.	2.6	23
24	Evidence of multiple halogen sources in scapolites from iron oxide-copper-gold (IOCG) deposits and regional Na Cl metasomatic alteration, Norrbotten County, Sweden. <i>Chemical Geology</i> , 2017, 451, 90-103.	3.3	22
25	Accelerated low water corrosion: the microbial sulfur cycle in microcosm. <i>Npj Materials Degradation</i> , 2019, 3, .	5.8	20
26	The crystal structure of natural Fe-rich chevkinite-(Ce). <i>European Journal of Mineralogy</i> , 2002, 14, 969-975.	1.3	18
27	The role of sulfate-rich fluids in heavy rare earth enrichment at the Dashigou carbonatite deposit, Huanglongpu, China. <i>Mineralogical Magazine</i> , 2020, 84, 65-80.	1.4	17
28	Compositional variation of aeschynite-group minerals in the Bayan Obo Nb-REE-Fe ore deposit, Inner Mongolia, China. <i>European Journal of Mineralogy</i> , 2001, 13, 1207-1214.	1.3	16
29	The role of carbonate-fluoride melt immiscibility in shallow REE deposit evolution. <i>Geoscience Frontiers</i> , 2019, 10, 527-537.	8.4	16
30	Primary rare earth element enrichment in carbonatites: Evidence from melt inclusions in Ulgii Khiid carbonatite, Mongolia. <i>Ore Geology Reviews</i> , 2020, 117, 103294.	2.7	16
31	Mineralization of the Bayan Obo Rare Earth Element Deposit by Recrystallization and Decarbonation. <i>Economic Geology</i> , 2022, 117, 1327-1338.	3.8	13
32	Alkali pyroxenes and amphiboles: a window on rare earth elements and other high field strength elements behavior through the magmatic-hydrothermal transition of peralkaline granitic systems. <i>Contributions To Mineralogy and Petrology</i> , 2020, 175, 1.	3.1	12
33	Prediction of groundwater-induced flooding in a chalk aquifer for future climate change scenarios. <i>Hydrological Processes</i> , 2016, 30, 573-587.	2.6	11
34	Ore deposits in an evolving Earth: an introduction. <i>Geological Society Special Publication</i> , 2015, 393, 1-8.	1.3	10
35	Editorial for Special Issue "Rare Earth Deposits and Challenges of World REE Demand for High-Tech and Green-Tech at the Beginning of the 3rd Millennium". <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 378.	2.0	4
36	Hypozonal gold mineralisation in shear zone hosted deposits driven by fault valve action and fluid mixing: the Nalunaq deposit, Greenland. <i>Geological Society Special Publication</i> , 0, , SP516-2021-38.	1.3	0