

Wolfgang D Maier

List of Publications by Year in descending order

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38
papers

1,882
citations

331670

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docs citations

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times ranked

938
citing authors

#	ARTICLE	IF	CITATIONS
1	The Bushveld Complex, South Africa: formation of platinum–palladium, chrome- and vanadium-rich layers via hydrodynamic sorting of a mobilized cumulate slurry in a large, relatively slowly cooling, subsiding magma chamber. <i>Mineralium Deposita</i> , 2013, 48, 1-56.	4.1	222
2	Composition of the Marginal Rocks and Sills of the Rustenburg Layered Suite, Bushveld Complex, South Africa: Implications for the Formation of the Platinum-Group Element Deposits. <i>Economic Geology</i> , 2010, 105, 1491-1511.	3.8	183
3	Progressive crustal contamination of the Bushveld Complex: evidence from Nd isotopic analyses of the cumulate rocks. <i>Contributions To Mineralogy and Petrology</i> , 2000, 140, 316-327.	3.1	175
4	Platinum-group Elements and Microstructures of Normal Merensky Reef from Impala Platinum Mines, Bushveld Complex. <i>Journal of Petrology</i> , 2002, 43, 103-128.	2.8	154
5	Progressive mixing of meteoritic veneer into the early Earth's deep mantle. <i>Nature</i> , 2009, 460, 620-623.	27.8	153
6	Platinum group elements in mantle melts and mantle samples. <i>Lithos</i> , 2015, 232, 395-417.	1.4	92
7	Origin of phlogopite-orthopyroxene inclusions in chromites from the Merensky Reef of the Bushveld Complex, South Africa. <i>Contributions To Mineralogy and Petrology</i> , 2005, 150, 119-130.	3.1	91
8	Global Variability in the Platinum-group Element Contents of Komatiites. <i>Journal of Petrology</i> , 2011, 52, 83-112.	2.8	75
9	The Santa Rita Nickel Sulfide Deposit in the Fazenda Mirabela Intrusion, Bahia, Brazil: Geology, Sulfide Geochemistry, and Genesis. <i>Economic Geology</i> , 2011, 106, 1083-1110.	3.8	65
10	Selenium and sulfur concentrations in the Bushveld Complex of South Africa and implications for formation of the platinum-group element deposits. <i>Mineralium Deposita</i> , 2009, 44, 647-663.	4.1	60
11	Strontium isotope disequilibrium of plagioclase in the Upper Critical Zone of the Bushveld Complex: evidence for mixing of crystal slurries. <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 959-974.	3.1	55
12	Petrogenesis of contact-style PGE mineralization in the northern lobe of the Bushveld Complex: comparison of data from the farms Rooipoort, Townlands, Drenthe and Nonnenwerth. <i>Mineralium Deposita</i> , 2008, 43, 255-280.	4.1	52
13	A chilled margin of komatiite and Mg-rich basaltic andesite in the western Bushveld Complex, South Africa. <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 1.	3.1	46
14	Petrogenesis of the ^{142}Sm - ^{147}Sm Ga Monts de Cristal Complex, Gabon: Evidence for Direct Precipitation of Pt-arsenides from Basaltic Magma. <i>Journal of Petrology</i> , 2015, 56, 1285-1308.	2.8	44
15	Formation of transgressive anorthosite seams in the Bushveld Complex via tectonically induced mobilisation of plagioclase-rich crystal mushes. <i>Geoscience Frontiers</i> , 2016, 7, 875-889.	8.4	37
16	The Kabanga Ni sulfide deposits, Tanzania: II. Chalcophile and siderophile element geochemistry. <i>Mineralium Deposita</i> , 2010, 45, 443-460.	4.1	31
17	Litho- and chemostratigraphy of the Flatreef PGE deposit, northern Bushveld Complex. <i>Mineralium Deposita</i> , 2019, 54, 3-28.	4.1	31
18	The concentrations of the noble metals in Southern African flood-type basalts and MORB: implications for petrogenesis and magmatic sulphide exploration. <i>Contributions To Mineralogy and Petrology</i> , 2003, 146, 44-61.	3.1	29

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19	Primary cumulus platinum minerals in the Monts de Cristal Complex, Gabon: magmatic microenvironments inferred from high-definition X-ray fluorescence microscopy. <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 1.	3.1	29
20	THE PETROGENESIS OF PLATINUM-GROUP ELEMENT REEFS IN THE UPPER MAIN ZONE OF THE NORTHERN LOBE OF THE BUSHVELD COMPLEX ON THE FARM MOORDDRIFT, SOUTH AFRICA. <i>Economic Geology</i> , 2010, 105, 841-854.	3.8	26
21	In situ Sr Isotope Compositions of Plagioclase from a Complete Stratigraphic Profile of the Bushveld Complex, South Africa: Evidence for Extensive Magma Mixing and Percolation. <i>Journal of Petrology</i> , 2017, 58, 2285-2308.	2.8	26
22	Convective isolation of Hadean mantle reservoirs through Archean time. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	25
23	Platinum-group elements in the Boulder Bed, western Bushveld Complex, South Africa. <i>Mineralium Deposita</i> , 2003, 38, 370-380.	4.1	17
24	Microtextural characterisation of the Lower Zone in the western limb of the Bushveld Complex, South Africa: evidence for extensive melt migration within a sill complex. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	3.1	17
25	U-Pb monazite ages of the Kabanga mafic-ultramafic intrusions and contact aureoles, central Africa: Geochronological and tectonic implications. <i>Bulletin of the Geological Society of America</i> , 2019, 131, 1857-1870.	3.3	17
26	Parental Magma Composition of the Main Zone of the Bushveld Complex: Evidence from <i>in situ</i> LA-ICP-MS Trace Element Analysis of Silicate Minerals in the Cumulate Rocks. <i>Journal of Petrology</i> , 2019, 60, 359-392.	2.8	16
27	Element mapping the Merensky Reef of the Bushveld Complex. <i>Geoscience Frontiers</i> , 2021, 12, 101101.	8.4	16
28	A facies model for the western Bushveld Complex. <i>Economic Geology</i> , 1995, 90, 2343-2349.	3.8	15
29	The Penikat Intrusion, Finland: Geochemistry, Geochronology, and Origin of Platinum–Palladium Reefs. <i>Journal of Petrology</i> , 2018, 59, 967-1006.	2.8	13
30	Introduction to the special issue on the Flatreef PGE-Ni-Cu deposit, northern limb of the Bushveld Igneous Complex. <i>Mineralium Deposita</i> , 2021, 56, 1-10.	4.1	13
31	Low-Sulfide Platinum–Palladium Deposits of the Paleoproterozoic Fedorova–Pana Layered Complex, Kola Region, Russia. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 764.	2.0	12
32	Formation of Bushveld anorthosite by reactive porous flow. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	12
33	Formation of the Flatreef deposit, northern Bushveld, by hydrodynamic and hydromagmatic processes. <i>Mineralium Deposita</i> , 2021, 56, 11-30.	4.1	11
34	Spatial Association Between Platinum Minerals and Magmatic Sulfides Imaged with the Maia Mapper and Implications for the Origin of the Chromite-Sulfide-PGE Association. <i>Canadian Mineralogist</i> , 2021, , .	1.0	10
35	Geochronology and geochemical evidence for a magmatic arc setting for the Ni-Cu mineralised 1.79 Ga Kleva gabbro–diorite intrusive complex, southeast Sweden. <i>Gff</i> , 2015, 137, 83-101.	1.2	7
36	Geochemistry of komatiites and basalts in Archean greenstone belts of Russian Karelia with emphasis on platinum-group elements. <i>Mineralium Deposita</i> , 2020, 55, 971-990.	4.1	3

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37	Ni-Cu-PGE-Cr-V bearing layered mafic-ultramafic intrusions of Russia” preface to a thematic issue. <i>Mineralium Deposita</i> , 2016, 51, 971-972.	4.1	1
38	Reply to discussion by RN Scoon and AA Mitchell on the paper “The Bushveld complex, South Africa: formation of platinum-palladium, chrome and vanadium-rich layers via hydrodynamic sorting of a mobilized cumulate slurry in a large, relatively slowly cooling, subsiding magma chamber” by WD Maier, S-J Barnes, and DI Groves. <i>Mineralium Deposita</i> , 2014, 49, 405-407.	4.1	0