

# Matthijs A Smit

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

1,266  
citations

430874

18  
h-index

361022

35  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1359  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lu-Hf and Sm-Nd garnet geochronology: Chronometric closure and implications for dating petrological processes. <i>Earth and Planetary Science Letters</i> , 2013, 381, 222-233.	4.4	156
2	Forced subduction initiation recorded in the sole and crust of the Semail Ophiolite of Oman. <i>Nature Geoscience</i> , 2018, 11, 688-695.	12.9	153
3	Trace element systematics in granulite facies rutile: implications for Zr geothermometry and provenance studies. <i>Journal of Metamorphic Geology</i> , 2012, 30, 397-412.	3.4	97
4	Eocene deep crust at Ama Drime, Tibet: Early evolution of the Himalayan orogen. <i>Lithosphere</i> , 2014, 6, 220-229.	1.4	80
5	1.6 Ga crustal thickening along the final Nuna suture. <i>Geology</i> , 2018, 46, 959-962.	4.4	76
6	Tibetan garnet records early Eocene initiation of thickening in the Himalaya. <i>Geology</i> , 2014, 42, 591-594.	4.4	70
7	Timing of eclogite facies metamorphism in the southernmost Scandinavian Caledonides by Lu-Hf and Sm-Nd geochronology. <i>Contributions To Mineralogy and Petrology</i> , 2010, 159, 521-539.	3.1	66
8	Earth's early O <sub>2</sub> cycle suppressed by primitive continents. <i>Nature Geoscience</i> , 2017, 10, 788-792.	12.9	65
9	Zirconosilicates in the kakortokites of the IlĀmaussaq complex, South Greenland: Implications for fluid evolution and high-field-strength and rare-earth element mineralization in agpaitic systems. <i>Mineralogical Magazine</i> , 2016, 80, 5-30.	1.4	45
10	Early evolution of the Pamir deep crust from Lu-Hf and U-Pb geochronology and garnet thermometry. <i>Geology</i> , 2014, 42, 1047-1050.	4.4	42
11	Rates of Deep Continental Burial From Lu-Hf Garnet Chronology and Zr-Rutile Thermometry on (Ultra)high-Pressure Rocks. <i>Tectonics</i> , 2018, 37, 71-88.	2.8	39
12	Multiple <i>P-T-t</i> paths reveal the evolution of the final Nuna assembly in northeast Australia. <i>Journal of Metamorphic Geology</i> , 2020, 38, 593-627.	3.4	35
13	Evidence for evolved Hadean crust from Sr isotopes in apatite within Eoarchean zircon from the Acasta Gneiss Complex. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 235, 450-462.	3.9	32
14	Creep of garnet in eclogite: Mechanisms and implications. <i>Earth and Planetary Science Letters</i> , 2011, 311, 411-419.	4.4	31
15	Aragonite and magnesite in eclogites from the JĀĀren nappe, SW Norway: disequilibrium in the system CaCO <sub>3</sub> -MgCO <sub>3</sub> and petrological implications. <i>Journal of Metamorphic Geology</i> , 2008, 26, 959-979.	3.4	26
16	A view into crustal evolution at mantle depths. <i>Earth and Planetary Science Letters</i> , 2017, 465, 59-69.	4.4	22
17	The <i>P-T-t</i> evolution of the exhumed Himalayan metamorphic core in the Likhu Khola region, East Central Nepal. <i>Journal of Metamorphic Geology</i> , 2017, 35, 663-693.	3.4	20
18	High-grade metamorphism flying under the radar of accessory minerals. <i>Geology</i> , 2019, 47, 568-572.	4.4	20

#	ARTICLE	IF	CITATIONS
19	Two-Stage Cooling and Exhumation of Deeply Subducted Continents. <i>Tectonics</i> , 2019, 38, 863-877.	2.8	17
20	U-Pb zircon age dating of diamond-bearing gneiss from Fjårtoft reveals repeated burial of the Baltoscandian margin during the Caledonian Orogeny. <i>Geological Magazine</i> , 2019, 156, 1949-1964.	1.5	17
21	Mesozoic to Cenozoic tectono-metamorphic history of the South Pamir-Hindu Kush (Chitral, Tj ETQq1 1 0.784314 rgBT /Overlooked petrochronology. <i>Journal of Metamorphic Geology</i> , 2019, 37, 633-666.	3.4	17
22	Record of plate boundary metamorphism during Gondwana breakup from Lu-Hf garnet geochronology of the Alpine Schist, New Zealand. <i>Journal of Metamorphic Geology</i> , 2018, 36, 821-841.	3.4	16
23	A calibrated database of Raman spectra for natural silicate glasses: implications for modelling melt physical properties. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1822-1838.	2.5	16
24	Peak metamorphic temperatures from cation diffusion zoning in garnet. <i>Journal of Metamorphic Geology</i> , 2013, 31, 339-358.	3.4	14
25	Deep fluid release in warm subduction zones from a breached slab seal. <i>Earth and Planetary Science Letters</i> , 2020, 534, 116046.	4.4	13
26	Complete metamorphic cycle and long-lived anatexis in the 2.1 Ga Mistinibi Complex, Canada. <i>Journal of Metamorphic Geology</i> , 2020, 38, 235-264.	3.4	11
27	Contrasting P-T-t paths reveal a metamorphic discontinuity in the New Quebec Orogen: Insights into Paleoproterozoic orogenic processes. <i>Precambrian Research</i> , 2020, 342, 105675.	2.7	11
28	The distinct metamorphic stages and structural styles of the 1.94-1.86 Ga Snowbird Orogen, Northwest Territories, Canada. <i>Journal of Metamorphic Geology</i> , 2020, 38, 963-992.	3.4	9
29	The Greater Himalayan Thrust Belt: Insight Into the Assembly of the Exhumed Himalayan Metamorphic Core, Modi Khola Valley, Central Nepal. <i>Tectonics</i> , 2020, 39, e2020TC006252.	2.8	9
30	Garnet, zircon, and monazite age and REE signatures in (ultra)high-temperature and high-pressure rocks: Examples from the Caledonides and the Pamir. <i>Journal of Metamorphic Geology</i> , 2022, 40, 1321-1346.	3.4	8
31	Millennia of magmatism recorded in crustal xenoliths from alkaline provinces in Southwest Greenland. <i>Earth and Planetary Science Letters</i> , 2016, 451, 241-250.	4.4	6
32	Evidence for non-lithostatic pressure in subducted continental crust. <i>Contributions To Mineralogy and Petrology</i> , 2020, 175, 1.	3.1	6
33	Decrypting the polymetamorphic record of the Himalaya. <i>Geology</i> , 2022, 50, 588-592.	4.4	6
34	The P-T-t-D evolution of the Mahabharat, east-central Nepal: The out-of-sequence development of the Himalaya. <i>Geoscience Frontiers</i> , 2020, , 101057-101057.	8.4	5
35	Two billion years of mantle evolution in sync with global tectonic cycles. <i>Earth and Planetary Science Letters</i> , 2019, 528, 115820.	4.4	4
36	Lu-Hf garnet dating and the timing of collisions: Palaeoproterozoic accretionary tectonics revealed in the Southeastern Churchill Province, Trans-Hudson Orogen, Canada. <i>Journal of Metamorphic Geology</i> , 2021, 39, 977-1007.	3.4	1