

# Simon L Harley

## List of Publications by Year in descending order

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94  
papers

7,805  
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47006

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48315

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98  
docs citations

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times ranked

2971  
citing authors

#	ARTICLE	IF	CITATIONS
1	Late Variscan (315 Ma) subduction or deceptive zircon REE patterns and U–Pb dates from migmatite-hosted eclogites? (Montagne Noire, France). <i>Journal of Metamorphic Geology</i> , 2022, 40, 39-65.	3.4	13
2	Neoproterozoic magmatism in the southern Scott and Raggatt Mountains, Napier Complex, east Antarctica. <i>Precambrian Research</i> , 2022, 370, 106530.	2.7	2
3	Testing the fidelity of thermometers at ultrahigh temperatures. <i>Journal of Metamorphic Geology</i> , 2019, 37, 917-934.	3.4	24
4	Neoproterozoic evolution and Cambrian reworking of ultrahigh temperature granulites in the Eastern Ghats Province, India. <i>Journal of Metamorphic Geology</i> , 2019, 37, 977-1006.	3.4	21
5	Ancient Antarctica. , 2019, , 865-897.		6
6	A window into the lower crust: Trace element systematics and the occurrence of inclusions/intergrowths in granulite-facies rutile. <i>Gondwana Research</i> , 2018, 59, 76-86.	6.0	20
7	Zr-in-rutile resetting in aluminosilicate bearing ultra-high temperature granulites: Refining the record of cooling and hydration in the Napier Complex, Antarctica. <i>Lithos</i> , 2017, 272-273, 128-146.	1.4	24
8	Peak and post-peak development of UHT metamorphism at Mather Peninsula, Rauer Islands: Zircon and monazite U–Th–Pb and REE chemistry constraints. <i>Journal of Mineralogical and Petrological Sciences</i> , 2016, 111, 89-103.	0.9	23
9	New evidence for Palaeoproterozoic high grade metamorphism in the Trivandrum Block, Southern India. <i>Precambrian Research</i> , 2016, 280, 120-138.	2.7	35
10	Deformation-induced trace element redistribution in zircon revealed using atom probe tomography. <i>Nature Communications</i> , 2016, 7, 10490.	12.8	137
11	A matter of time: The importance of the duration of UHT metamorphism. <i>Journal of Mineralogical and Petrological Sciences</i> , 2016, 111, 50-72.	0.9	132
12	Geological repositories: scientific priorities and potential high-technology transfer from the space and physics sectors. <i>Mineralogical Magazine</i> , 2015, 79, 1651-1664.	1.4	3
13	Temperature–time evolution of the Assynt Terrane of the Lewisian Gneiss Complex of Northwest Scotland from zircon U–Pb dating and Ti thermometry. <i>Precambrian Research</i> , 2015, 260, 55-75.	2.7	21
14	Boron isotopes in tourmaline from the ca. 3.7–3.8 Ga Isua supracrustal belt, Greenland: Sources for boron in Eoarchean continental crust and seawater. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 163, 156-177.	3.9	48
15	Experimental determination of REE partition coefficients between zircon, garnet and melt: a key to understanding high-T crustal processes. <i>Journal of Metamorphic Geology</i> , 2015, 33, 231-248.	3.4	128
16	Accessory Mineral Behaviour in Granulite Migmatites: a Case Study from the Kerala Khondalite Belt, India. <i>Journal of Petrology</i> , 2014, 55, 1965-2002.	2.8	66
17	Lattice distortion in a zircon population and its effects on trace element mobility and U–Th–Pb isotope systematics: examples from the Lewisian Gneiss Complex, northwest Scotland. <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 21-41.	3.1	40
18	New Constraints from Garnetite on the P–T Path of the Khondalite Belt: Implications for the Tectonic Evolution of the North China Craton. <i>Journal of Petrology</i> , 2013, 54, 1725-1758.	2.8	96

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19	Pb isotopic domains from the Indian Ocean sector of Antarctica: implications for past Antarctica-India connections. Geological Society Special Publication, 2013, 383, 59-72.	1.3	20
20	Boron isotopic composition of tourmaline, prismatic, and grandierite from granulite facies paragneisses in the Larsemann Hills, Prydz Bay, East Antarctica: Evidence for a non-marine evaporite source. Geochimica Et Cosmochimica Acta, 2013, 123, 261-283.	3.9	38
21	Geochronology and trace element geochemistry of zircon, monazite and garnet from the garnetite and/or associated other high-grade rocks: Implications for Palaeoproterozoic tectonothermal evolution of the Khondalite Belt, North China Craton. Precambrian Research, 2013, 237, 78-100.	2.7	103
22	Antarctica and supercontinent evolution: historical perspectives, recent advances and unresolved issues. Geological Society Special Publication, 2013, 383, 1-34.	1.3	89
23	Quantitative analysis of H <sub>2</sub> O and CO <sub>2</sub> in cordierite using polarized FTIR spectroscopy. Contributions To Mineralogy and Petrology, 2012, 164, 881-894.	3.1	18
24	Complexity in the behavior and recrystallization of monazite during high-T metamorphism and fluid infiltration. Chemical Geology, 2012, 322-323, 192-208.	3.3	100
25	Sedimentary provenance and age of metamorphism of the Vestfold Hills, East Antarctica: Evidence for a piece of Chinese Antarctica?. Precambrian Research, 2012, 196-197, 23-45.	2.7	38
26	How Does the Continental Crust Get Really Hot?. Elements, 2011, 7, 235-240.	0.5	281
27	Extremely high solubility of rutile in chloride and fluoride-bearing metamorphic fluids: An experimental investigation. Geology, 2010, 38, 323-326.	4.4	172
28	Anatexis during High-pressure Crustal Metamorphism: Evidence from Garnet-Whole-rock REE Relationships and Zircon-Rutile Ti-Zr Thermometry in Leucogranulites from the Bohemian Massif. Journal of Petrology, 2010, 51, 1967-2001.	2.8	59
29	Mesoproterozoic geology of the Nampula Block, northern Mozambique: Tracing fragments of Mesoproterozoic crust in the heart of Gondwana. Precambrian Research, 2010, 182, 124-148.	2.7	51
30	FTIR microspectroscopy and SIMS study of water-poor cordierite from El Hoyazo, Spain: Application to mineral and melt devolatilization. Lithos, 2009, 113, 498-506.	1.4	32
31	Geomorphology and glacial history of Rauer Group, East Antarctica. Quaternary Research, 2009, 72, 80-90.	1.7	24
32	New SIMS U-Pb zircon ages from the Langavat Belt, South Harris, NW Scotland: implications for the Lewisian terrane model. Journal of the Geological Society, 2008, 165, 967-981.	2.1	40
33	Refining the <i>T</i> records of UHT crustal metamorphism. Journal of Metamorphic Geology, 2008, 26, 125-154.	3.4	294
34	Chapter 3.2 Ancient Antarctica: The Archaean of the East Antarctic Shield. Neoproterozoic-Cambrian Tectonics, Global Change and Evolution: A Focus on South Western Gondwana, 2007, 15, 149-186.	0.2	25
35	The impact of zircon-garnet REE distribution data on the interpretation of zircon U-Pb ages in complex high-grade terrains: An example from the Rauer Islands, East Antarctica. Chemical Geology, 2007, 241, 62-87.	3.3	141
36	Late Archaean granulite facies metamorphism in the Vestfold Hills, East Antarctica. Lithos, 2007, 93, 39-67.	1.4	27

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37	Zircon Behaviour and the Thermal Histories of Mountain Chains. <i>Elements</i> , 2007, 3, 25-30.	0.5	535
38	Lu-Hf systematics of the ultra-high temperature Napier Metamorphic Complex in Antarctica: Evidence for the early Archean differentiation of Earth's mantle. <i>Earth and Planetary Science Letters</i> , 2006, 246, 305-316.	4.4	38
39	Ultrahigh temperature deformation microstructures in felsic granulites of the Napier Complex, Antarctica. <i>Tectonophysics</i> , 2006, 427, 133-151.	2.2	21
40	Preservation of evidence for prograde metamorphism in ultrahigh-temperature, high-pressure kyanite-bearing granulites, South Harris, Scotland. <i>Journal of Metamorphic Geology</i> , 2006, 24, 263-279.	3.4	51
41	Monazite behaviour and age significance in poly-metamorphic high-grade terrains: A case study from the western Musgrave Block, central Australia. <i>Lithos</i> , 2006, 88, 100-134.	1.4	54
42	An integrated microtextural and chemical approach to zircon geochronology: refining the Archaean history of the Napier Complex, east Antarctica. <i>Contributions To Mineralogy and Petrology</i> , 2005, 149, 57-84.	3.1	291
43	Zircon growth in UHT leucosome: constraints from zircon-garnet rare earth elements (REE) relations in Napier Complex, East Antarctica. <i>Journal of Mineralogical and Petrological Sciences</i> , 2004, 99, 180-190.	0.9	118
44	Extending our understanding of Ultrahigh temperature crustal metamorphism. <i>Journal of Mineralogical and Petrological Sciences</i> , 2004, 99, 140-158.	0.9	167
45	The influence of cordierite on melting and mineral-melt equilibria in ultra-high-temperature metamorphism. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2004, 95, 87-98.	0.3	10
46	Orthopyroxene-Corundum in Mg-Al-rich Granulites from the Oygarden Islands, East Antarctica. <i>Journal of Petrology</i> , 2004, 45, 1481-1512.	2.8	46
47	Corundum inclusions in diamonds: discriminatory criteria and a corundum compositional dataset. <i>Lithos</i> , 2004, 77, 273-286.	1.4	24
48	The influence of cordierite on melting and mineral-melt equilibria in ultra-high-temperature metamorphism. , 2004, , .		1
49	Alumina solubility in orthopyroxene coexisting with sapphirine and quartz. <i>Contributions To Mineralogy and Petrology</i> , 2003, 144, 473-483.	3.1	31
50	Archaean-Cambrian crustal development of East Antarctica: metamorphic characteristics and tectonic implications. <i>Geological Society Special Publication</i> , 2003, 206, 203-230.	1.3	89
51	Sodium and potassium in cordierite a potential thermometer for melts?. <i>European Journal of Mineralogy</i> , 2002, 14, 459-469.	1.3	17
52	Cordierite as a sensor of fluid conditions in high-grade metamorphism and crustal anatexis. <i>Journal of Metamorphic Geology</i> , 2002, 20, 71-86.	3.4	69
53	The distribution of H <sub>2</sub> O-CO <sub>2</sub> between cordierite and granitic melt under fluid-saturated conditions at 5 kbar and 900°C. <i>Contributions To Mineralogy and Petrology</i> , 2001, 142, 107-118.	3.1	26
54	A petrogenetic grid for aluminous granulite facies metapelites in the KFMASH system. <i>Journal of Metamorphic Geology</i> , 2001, 19, 45-59.	3.4	52

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55	Al zoning in orthopyroxene in a sapphirine quartzite: evidence for >1120°C UHT metamorphism in the Napier Complex, Antarctica, and implications for the entropy of sapphirine. <i>Contributions To Mineralogy and Petrology</i> , 2000, 138, 293-307.	3.1	156
56	A Reappraisal of the Pressure-Temperature Path of Granulites from the Kerala Khondalite Belt, Southern India. <i>Journal of Geology</i> , 2000, 108, 687-703.	1.4	89
57	Diffusion metasomatism in silica-undersaturated sapphirine-bearing granulite from Rumdoodle Peak, Framnes Mountains, east Antarctica. <i>Contributions To Mineralogy and Petrology</i> , 1999, 134, 264-276.	3.1	35
58	Low- to high-temperature metamorphism in the Okiep Copper District, western Namaqualand, South Africa. <i>Journal of Metamorphic Geology</i> , 1998, 16, 281-305.	3.4	42
59	The retrograde P-T path for low-pressure granulites from the Reynolds Range, central Australia: petrological constraints and implications for low- to high-temperature metamorphism. <i>Journal of Metamorphic Geology</i> , 1998, 16, 511-529.	3.4	34
60	Reaction textures in scapolite-wollastonite-grossular calc-silicate rock from the Kerala Khondalite Belt, Southern India: evidence for high-temperature metamorphism and initial cooling. <i>Lithos</i> , 1998, 44, 83-99.	1.4	42
61	On the occurrence and characterization of ultrahigh-temperature crustal metamorphism. <i>Geological Society Special Publication</i> , 1998, 138, 81-107.	1.3	257
62	Timing and mechanisms of carbon isotope exchange in granulite-facies calc-silicate boudins, Rauer Group, East Antarctica. <i>American Mineralogist</i> , 1997, 82, 392-404.	1.9	5
63	Two stages of zircon and monazite growth in anatectic leucogneiss: SHRIMP constraints on the duration and intensity of Pan-African metamorphism in Prydz Bay, East Antarctica. <i>Terra Nova</i> , 1997, 9, 47-51.	2.1	115
64	Partial melting and phase relations in high-grade metapelites: an experimental petrogenetic grid in the KFMASH system. <i>Contributions To Mineralogy and Petrology</i> , 1995, 120, 270-291.	3.1	235
65	Wollastonite at Nuliyam, Kerala, southern India: a reassessment of CO <sub>2</sub> -infiltration and charnockite formation at a classic locality. <i>Contributions To Mineralogy and Petrology</i> , 1995, 120, 83-94.	3.1	49
66	Upwardly mobile hot crust. <i>Nature</i> , 1995, 375, 451-452.	27.8	2
67	Titanium-bearing sapphirine in a partially melted aluminous granulite xenolith, Vestfold Hills, Antarctica: geological and mineralogical implications. <i>European Journal of Mineralogy</i> , 1995, 7, 637-654.	1.3	18
68	Reactions and textures in wollastonite-scapolite granulites and their significance for pressure-temperature-fluid histories of high-grade terranes. <i>Precambrian Research</i> , 1994, 66, 309-323.	2.7	39
69	The Influence of Retrograde Cation Exchange on Granulite P-T Estimates and a Convergence Technique for the Recovery of Peak Metamorphic Conditions. <i>Journal of Petrology</i> , 1994, 35, 543-576.	2.8	196
70	Mg-Al yttrian zirconolite in a partially melted sapphirine granulite, Vestfold Hills, East Antarctica. <i>Mineralogical Magazine</i> , 1994, 58, 259-269.	1.4	16
71	Accessory phase controls on the geochemistry of crustal melts and restites produced during water-undersaturated partial melting. <i>Contributions To Mineralogy and Petrology</i> , 1993, 114, 550-566.	3.1	219
72	Granulite facies metasomatism: zoned calc-silicate boudins from the Rauer Group, East Antarctica. <i>Contributions To Mineralogy and Petrology</i> , 1993, 113, 557-571.	3.1	22

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73	Sapphirine granulites from the Vestfold Hills, East Antarctica: geochemical and metamorphic evolution. <i>Antarctic Science</i> , 1993, 5, 389-402.	0.9	30
74	Chapter 8 Proterozoic Granulite Terranes. <i>Neoproterozoic-Cambrian Tectonics, Global Change and Evolution: A Focus on South Western Gondwana</i> , 1992, 10, 301-359.	0.2	48
75	Wollastonite–Scapolite Assemblages as Indicators of Granulite Pressure-Temperature-Fluid Histories: The Rauer Group, East Antarctica. <i>Journal of Petrology</i> , 1992, 33, 693-728.	2.8	100
76	Geological relationships in high- $\epsilon$ grade gneiss of the Brattstrand Bluffs coastline, Prydz Bay, East Antarctica. <i>Australian Journal of Earth Sciences</i> , 1991, 38, 497-519.	1.0	70
77	High-temperature granulites. <i>Nature</i> , 1990, 347, 132-133.	27.8	14
78	Reducing mantle redox options. <i>Nature</i> , 1990, 348, 394-394.	27.8	2
79	Proterozoic Granulites from the Rauer Group, East Antarctica. I. Decompressional Pressure-Temperature Paths Deduced from Mafic and Felsic Gneisses. <i>Journal of Petrology</i> , 1988, 29, 1059-1095.	2.8	115
80	Local processes involved in the generation of migmatites within mafic granulites. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 1988, 79, 209-222.	0.3	23
81	Precambrian geological relationships in high- $\epsilon$ grade gneisses of the Rauer Islands, east Antarctica. <i>Australian Journal of Earth Sciences</i> , 1987, 34, 175-207.	1.0	69
82	The Archaean geological evolution of Enderby Land, Antarctica. <i>Geological Society Special Publication</i> , 1987, 27, 285-296.	1.3	31
83	A pyroxene-bearing meta-ironstone and other pyroxene-granulites from Tonagh Island, Enderby Land, Antarctica: further evidence for very high temperature (> 980 $\text{^\circ}$ C) Archaean regional metamorphism in the Napier Complex. <i>Journal of Metamorphic Geology</i> , 1987, 5, 341-356.	3.4	65
84	A sapphirine-cordierite-garnet-sillimanite granulite from Enderby Land, Antarctica: implications for FMAS petrogenetic grids in the granulite facies. <i>Contributions To Mineralogy and Petrology</i> , 1986, 94, 452-460.	3.1	55
85	Paragenetic and mineral-chemical relationships in orthoamphibole-bearing gneisses from Enderby Land, east Antarctica: a record of Proterozoic uplift. <i>Journal of Metamorphic Geology</i> , 1985, 3, 179-200.	3.4	49
86	Garnet-Orthopyroxene Bearing Granulites from Enderby Land, Antarctica: Metamorphic Pressure Temperature-Time Evolution of the Archaean Napier Complex. <i>Journal of Petrology</i> , 1985, 26, 819-856.	2.8	152
87	Comparison of the Garnet–Orthopyroxene Geobarometer with Recent Experimental Studies, and Applications to Natural Assemblages. <i>Journal of Petrology</i> , 1984, 25, 697-712.	2.8	37
88	An experimental study of the partitioning of Fe and Mg between garnet and orthopyroxene. <i>Contributions To Mineralogy and Petrology</i> , 1984, 86, 359-373.	3.1	603
89	Pb isotopic composition, colour, and microstructure of monazites from a polymetamorphic rock in Antarctica. <i>Contributions To Mineralogy and Petrology</i> , 1984, 85, 141-148.	3.1	75
90	The Solubility of Alumina in Orthopyroxene Coexisting with Garnet in FeO-MgO–Al <sub>2</sub> O <sub>3</sub> –SiO <sub>2</sub> and CaO–FeO–MgO–Al <sub>2</sub> O <sub>3</sub> –SiO <sub>2</sub> . <i>Journal of Petrology</i> , 1984, 25, 665-696.	2.8	241

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91	Geochronology and geological evolution of metamorphic rocks in the Field Islands area, East Antarctica. <i>Journal of Metamorphic Geology</i> , 1983, 1, 277-303.	3.4	58
92	The geochronology, structure and metamorphism of early Archaean rocks at Fyfe Hills, Enderby Land, Antarctica. <i>Precambrian Research</i> , 1983, 21, 197-222.	2.7	70
93	Garnet-orthopyroxene barometry for granulites and peridotites. <i>Nature</i> , 1982, 300, 697-701.	27.8	269
94	Metamorphism in orogeny. , 0, , 193-258.		0