

# Donald R Lowe

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3059558/donald-r-lowe-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

32  
papers

1,954  
citations

18  
h-index

37  
g-index

37  
ext. papers

2,181  
ext. citations

4.4  
avg, IF

4.83  
L-index

#	Paper	IF	Citations
32	High Archean climatic temperature inferred from oxygen isotope geochemistry of cherts in the 3.5 Ga Swaziland Supergroup, South Africa. <i>Bulletin of the Geological Society of America</i> , <b>2003</b> , 115, 566-580	3.9	320
31	Chronology of early Archean granite-greenstone evolution in the Barberton Mountain Land, South Africa, based on precise dating by single zircon evaporation. <i>Earth and Planetary Science Letters</i> , <b>1991</b> , 103, 41-54	5.3	275
30	Prolonged magmatism and time constraints for sediment deposition in the early Archean Barberton greenstone belt: evidence from the Upper Onverwacht and Fig Tree groups. <i>Precambrian Research</i> , <b>1996</b> , 78, 125-138	3.9	185
29	Oxygen isotope geochemistry of cherts from the Onverwacht Group (3.4 billion years), Transvaal, South Africa, with implications for secular variations in the isotopic composition of cherts. <i>Earth and Planetary Science Letters</i> , <b>1978</b> , 41, 209-222	5.3	179
28	Spherule beds 3.47-3.24 billion years old in the Barberton Greenstone Belt, South Africa: a record of large meteorite impacts and their influence on early crustal and biological evolution. <i>Astrobiology</i> , <b>2003</b> , 3, 7-48	3.7	146
27	Two fundamentally different types of submarine canyons along the continental margin of Equatorial Guinea. <i>Marine and Petroleum Geology</i> , <b>2011</b> , 28, 843-860	4.7	108
26	Depositional and tectonic setting of the Archean Moodies Group, Barberton Greenstone Belt, South Africa. <i>Precambrian Research</i> , <b>1994</b> , 68, 257-90	3.9	102
25	Weathering and sediment generation in the Archean: An integrated study of the evolution of siliciclastic sedimentary rocks of the 3.2 Ga Moodies Group, Barberton Greenstone Belt, South Africa. <i>Precambrian Research</i> , <b>2006</b> , 151, 185-210	3.9	96
24	Accretionary history of the Archean Barberton Greenstone Belt (3.55-3.22 Ga), southern Africa. <i>Geology</i> , <b>1994</b> , 22, 1099-102	5	96
23	Thermal history of the 3.5B.2 Ga Onverwacht and Fig Tree Groups, Barberton greenstone belt, South Africa, inferred by Raman microspectroscopy of carbonaceous material. <i>Geology</i> , <b>2004</b> , 32, 37	5	93
22	Timing of deposition and deformation of the Moodies Group (Barberton Greenstone Belt, South Africa): Very-high-resolution of Archean surface processes. <i>Precambrian Research</i> , <b>2013</b> , 231, 236-262	3.9	67
21	Late syndepositional deformation and detachment tectonics in the Barberton Greenstone Belt, South Africa. <i>Tectonics</i> , <b>1994</b> , 13, 1514-1536	4.3	47
20	The Petrogenesis of Volcaniclastic Komatiites in the Barberton Greenstone Belt, South Africa: a Textural and Geochemical Study. <i>Journal of Petrology</i> , <b>2010</b> , 51, 947-972	3.9	33
19	Detrital zircon geochronology of sandstones of the 3.6B.2 Ga Barberton greenstone belt: No evidence for older continental crust. <i>Geology</i> , <b>2017</b> , 45, 803-806	5	29
18	High resolution tephra and U/Pb chronology of the 3.33B.26Ga Mendon Formation, Barberton Greenstone Belt, South Africa. <i>Precambrian Research</i> , <b>2015</b> , 261, 54-74	3.9	24
17	Abundant pyroclastic komatiitic volcanism in the 3.5B.2 Ga Barberton greenstone belt, South Africa. <i>Geology</i> , <b>2008</b> , 36, 779	5	20
16	Provenance and tectonic implications of the 3.28B.23 Ga Fig Tree Group, central Barberton greenstone belt, South Africa. <i>Precambrian Research</i> , <b>2019</b> , 325, 1-19	3.9	19

15	Hadean zircon from a 3.3 Ga sandstone, Barberton greenstone belt, South Africa. <i>Geology</i> , <b>2018</b> , 46, 967-970	18
14	Interplay between an axial channel belt, slope gullies and overbank deposition in the Puchkirchen Formation in the Molasse Basin, Austria. <i>Sedimentology</i> , <b>2015</b> , 62, 1717-1748	3-3 16
13	Geologic record of partial ocean evaporation triggered by giant asteroid impacts, 3.29-3.23 billion years ago. <i>Geology</i> , <b>2015</b> , 43, 535-538	5 16
12	Geologic Evolution of the Barberton Greenstone Belt: A Unique Record of Crustal Development, Surface Processes, and Early Life 3.55-3.20 Ga <b>2019</b> , 569-613	14
11	Deposition of >3.7 Ga clay-rich strata of the Mawrth Vallis Group, Mars, in lacustrine, alluvial, and aeolian environments. <i>Bulletin of the Geological Society of America</i> , <b>2020</b> , 132, 17-30	3-9 13
10	Initial generation of sand across climate zones of the Mojave, Sierra Nevada, and Klamath Batholiths in California, U.S.A.. <i>Sedimentary Geology</i> , <b>2017</b> , 348, 37-50	2-8 9
9	Constraints on surface temperature 3.4 billion years ago based on triple oxygen isotopes of cherts from the Barberton Greenstone Belt, South Africa, and the problem of sample selection. <i>Numerische Mathematik</i> , <b>2020</b> , 320, 790-814	5-3 7
8	Heterogeneous Hadean crust with ambient mantle affinity recorded in detrital zircons of the Green Sandstone Bed, South Africa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11-5 6
7	The non-glacial and non-cratonic origin of an early Archean felsic volcanoclastic unit, Barberton Greenstone Belt, South Africa. <i>Precambrian Research</i> , <b>2020</b> , 341, 105647	3-9 5
6	Provenance of the Neoproterozoic deep-water Zerrissene Group of the Damara Orogen, Namibia, and paleogeographic implications for the closing of the Adamastor Ocean and assembly of the Gondwana supercontinent. <i>Bulletin of the Geological Society of America</i> , <b>2019</b> , 131, 355-371	3-9 4
5	Geologic Evolution of the Barberton Greenstone Belt, South Africa <b>1999</b> ,	4
4	Windblown Hadean zircons derived by erosion of impact-generated 3.3 Ga uplifts, Barberton Greenstone Belt, South Africa. <i>Precambrian Research</i> , <b>2021</b> , 356, 106111	3-9 1
3	Provenance and paleogeography of Archean Fig Tree siliciclastic rocks in the East-Central Barberton Greenstone Belt, South Africa. <i>Precambrian Research</i> , <b>2021</b> , 354, 106041	3-9 1
2	Paleomagnetism of 3.5-4.0 Ga zircons from the Barberton Greenstone Belt, South Africa. <i>Earth and Planetary Science Letters</i> , <b>2021</b> , 567, 116999	5-3 0
1	Mars as a time machine to Precambrian Earth. <i>Journal of the Geological Society</i> , jgs2022-047	2-7