

# Donald R Lowe

## List of Publications by Year in Descending Order

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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	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
31	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
30	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
29	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
28	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
27	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
26	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
25	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
24	Provenance and tectonic implications of the 3.28-2.23 Ga Fig Tree Group, central Barberton greenstone belt, South Africa. <i>Precambrian Research</i> , <b>2019</b> , 325, 1-19	3.9	19
23	Geologic Evolution of the Barberton Greenstone Belt: A Unique Record of Crustal Development, Surface Processes, and Early Life 3.55-2.0 Ga <b>2019</b> , 569-613		14
22	Hadean zircon from a 3.3 Ga sandstone, Barberton greenstone belt, South Africa. <i>Geology</i> , <b>2018</b> , 46, 967-970	5.970	18
21	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
20	Detrital zircon geochronology of sandstones of the 3.6-2.2 Ga Barberton greenstone belt: No evidence for older continental crust. <i>Geology</i> , <b>2017</b> , 45, 803-806	5	29
19	High resolution tephra and U/Pb chronology of the 3.33-2.26 Ga Mendon Formation, Barberton Greenstone Belt, South Africa. <i>Precambrian Research</i> , <b>2015</b> , 261, 54-74	3.9	24
18	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
17	Geologic record of partial ocean evaporation triggered by giant asteroid impacts, 3.29-2.3 billion years ago. <i>Geology</i> , <b>2015</b> , 43, 535-538	5	16
16	Timing of deposition and deformation of the Moodies Group (Barberton Greenstone Belt, South Africa): Very-high-resolution of Archaean surface processes. <i>Precambrian Research</i> , <b>2013</b> , 231, 236-262	3.9	67

15	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
14	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
13	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
12	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
11	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
10	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
9	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
8	Geologic Evolution of the Barberton Greenstone Belt, South Africa <b>1999</b> ,		4
7	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
6	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
5	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
4	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
3	Chronology of early Archaean 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
2	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
1	Mars as a time machine to Precambrian Earth. <i>Journal of the Geological Society</i> , jgs2022-047	2.7	