

# Roger L Gibson

## List of Publications by Year in descending order

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53  
papers

1,314  
citations

361413

20  
h-index

377865

34  
g-index

55  
all docs

55  
docs citations

55  
times ranked

995  
citing authors

#	ARTICLE	IF	CITATIONS
1	Granitoid gneisses of the Morokweng impact structure: Implications for Neoarchean evolution of the western Kaapvaal craton. <i>Lithos</i> , 2022, 426-427, 106793.	1.4	0
2	An investigation of the 27 July 2018 bolide and meteorite fall over Benenitra, southwestern Madagascar. <i>South African Journal of Science</i> , 2021, 117, .	0.7	1
3	The impact and recovery of asteroid 2018 LA. <i>Meteoritics and Planetary Science</i> , 2021, 56, 844-893.	1.6	21
4	Dynamics of collapse of an impact central uplift: Evidence from folds and faults in the collar of the Vredefort Dome, South Africa. , 2021, , .		1
5	A reappraisal of legacy reflection seismic data from the western margin of the Kaapvaal craton, South Africa, with implications for Mesozoic-Cenozoic regional tectonics. <i>Tectonophysics</i> , 2021, 813, 228934.	2.2	5
6	Timescales of impact melt sheet crystallization and the precise age of the Morokweng impact structure, South Africa. <i>Earth and Planetary Science Letters</i> , 2021, 567, 117013.	4.4	5
7	Conference report: Large Meteorite Impacts and Planetary Evolution VI. <i>Meteoritics and Planetary Science</i> , 2020, 55, 245-250.	1.6	1
8	The Mesoarchean Basement Complex of the Vredefort Dome—A Mid-Crustal Section Through the Central Kaapvaal Craton Exposed by Impact. <i>Regional Geology Reviews</i> , 2019, , 109-132.	1.2	8
9	Shock-induced kelyphite formation in the core of a complex impact crater. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	3.1	1
10	Arrested development — a comparative analysis of multilayer corona textures in high-grade metamorphic rocks. <i>Solid Earth</i> , 2017, 8, 93-135.	2.8	12
11	The State of Planetary and Space Sciences in Africa. <i>Eos</i> , 2017, , .	0.1	4
12	Landscape and Landforms of the Vredefort Dome: Exposing an Old Wound. <i>World Geomorphological Landscapes</i> , 2015, , 31-38.	0.3	2
13	Comment on “Searching for giant, ancient impact structures on Earth: The Mesoarchean Maniitsoq structure, West Greenland” by Garde et al. [ <i>Earth Planet. Sci. Lett.</i> 337–338 (2012) 197–210]. <i>Earth and Planetary Science Letters</i> , 2013, 369-370, 333-335.	4.4	18
14	Geoscience Initiative Develops Sustainable Science in Africa. <i>Eos</i> , 2011, 92, 161-162.	0.1	17
15	Petrographic and geochemical evidence for an allochthonous, possibly impact melt, origin of pseudotachylite from the Vredefort Dome, South Africa. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 4490-4514.	3.9	24
16	Experimental investigation of shock metamorphic effects in a metapelitic granulite: The importance of shock impedance contrast between components. <i>Meteoritics and Planetary Science</i> , 2011, 46, 1565-1586.	1.6	20
17	Melt particle characteristics of the within- and out-of-crater suevites from the Bosumtwi impact structure, Ghana: Implications for crater formation. , 2010, , .		9
18	Origin of large-volume pseudotachylite in terrestrial impact structures. <i>Geology</i> , 2010, 38, 619-622.	4.4	48

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19	Introduction: Impact cratering and planetary studies—a fifty-year perspective. , 2010, , .		1
20	Structural controls on melt segregation and migration related to the formation of the diapiric Schwerin Fold in the contact aureole of the Bushveld Complex, South Africa. , 2010, , .		0
21	Meteorite Impact!. , 2010, , .		5
22	Structural controls on melt segregation and migration related to the formation of the diapiric Schwerin Fold in the contact aureole of the Bushveld Complex, South Africa. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2009, 100, 61-76.	0.3	2
23	Generation of fragment-rich pseudotachylite bodies during central uplift formation in the Vredefort impact structure, South Africa. Earth and Planetary Science Letters, 2009, 279, 53-64.	4.4	37
24	Pre-impact tectonothermal evolution of the crystalline basement-derived rocks in the ICDP-USGS Eyreville B core, Chesapeake Bay impact structure. , 2009, , .		4
25	Petrographic and geochemical comparisons between the lower crystalline basement-derived section and the granite megablock and amphibolite megablock of the Eyreville B core, Chesapeake Bay impact structure, USA. , 2009, , .		4
26	Geochemistry of impactites and crystalline basement-derived lithologies from the ICDP-USGS Eyreville A and B drill cores, Chesapeake Bay impact structure, Virginia, USA. , 2009, , .		6
27	Geologic columns for the ICDP-USGS Eyreville B core, Chesapeake Bay impact structure: Impactites and crystalline rocks, 1766 to 1096 m depth. , 2009, , .		16
28	Lithostratigraphic and petrographic analysis of ICDP drill core LBâ€07A, Bosumtwi impact structure, Ghana. Meteoritics and Planetary Science, 2007, 42, 569-589.	1.6	15
29	Geochemistry of impactites and basement lithologies from ICDP borehole LBâ€07A, Bosumtwi impact structure, Ghana. Meteoritics and Planetary Science, 2007, 42, 667-688.	1.6	13
30	The timing of sub-solidus hydrothermal alteration in the Central Zone, Limpopo Belt (South Africa): Constraints from titanite Uâ€Pb geochronology and REE partitioning. Lithos, 2007, 98, 97-117.	1.4	36
31	Major and trace element compositions of melt particles and associated phases from the Yaxcopoil-1 drill core, Chicxulub impact structure, Mexico. Meteoritics and Planetary Science, 2006, 41, 1361-1379.	1.6	11
32	The melt rocks of the Vredefort impact structure â€ Vredefort Granophyre and pseudotachylitic breccias: Implications for impact cratering and the evolution of the Witwatersrand Basin. Chemie Der Erde, 2006, 66, 1-35.	2.0	61
33	SHRIMP zircon age constraints on Mesoproterozoic crustal development in the Vredefort dome, central Kaapvaal Craton, South Africa. , 2006, , .		14
34	A SHRIMP Uâ€Pb and LA-ICP-MS trace element study of the petrogenesis of garnetâ€cordieriteâ€orthoamphibole gneisses from the Central Zone of the Limpopo Belt, South Africa. Lithos, 2006, 88, 150-172.	1.4	136
35	Shock pressure distribution in the Vredefort impact structure, South Africa. , 2005, , .		33
36	Economic Mineral Deposits in Impact Structures: A Review. , 2005, , 479-552.		42

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37	Geochemical and petrographic characteristics of impactites and Cretaceous target rocks from the Yaxcopoilâ€ borehole, Chicxulub impact structure, Mexico: Implications for target composition. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1513-1536.	1.6	20
38	Structural analysis of the collar of the Vredefort Dome, South Africaâ€Significance for impactâ€related deformation and central uplift formation. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1537-1554.	1.6	24
39	â€Pseudotachylitesâ€in Large Impact Structures. , 2005, , 1-53.		23
40	First petrographic results on impactites from the Yaxcopoilâ€ borehole, Chicxulub structure, Mexico. <i>Meteoritics and Planetary Science</i> , 2004, 39, 899-930.	1.6	32
41	Major and trace element characteristics of impactites from the Yaxcopoilâ€ borehole, Chicxulub structure, Mexico. <i>Meteoritics and Planetary Science</i> , 2004, 39, 955-978.	1.6	21
42	FIELD FORUM REPORT: Processes on the Early Earth. <i>GSA Today</i> , 2004, 14, 28.	2.0	1
43	Archean crustal structure of the Kaapvaal craton, South Africa â€ evidence from the Vredefort dome. <i>Earth and Planetary Science Letters</i> , 2003, 206, 133-144.	4.4	61
44	Shocked and thermally metamorphosed zircon from the Vredefort impact structure, South Africa: a transmission electron microscopic study. <i>European Journal of Mineralogy</i> , 2002, 14, 859-868.	1.3	43
45	Metamorphism on the Moon: A terrestrial analogue in the Vredefort dome, South Africa?. <i>Geology</i> , 2002, 30, 475.	4.4	34
46	Precise Uâ€Pb titanite age constraints on the emplacement of the Bushveld Complex, South Africa. <i>Journal of the Geological Society</i> , 2001, 158, 3-6.	2.1	161
47	The role of strain localization in the segregation and ascent of anatectic melts, Namaqualand, South Africa. <i>Journal of Structural Geology</i> , 1998, 20, 229-242.	2.3	36
48	Thermal-metamorphic signature of an impact event in the Vredefort dome, South Africa. <i>Geology</i> , 1998, 26, 787.	4.4	84
49	Regional metamorphism due to anorogenic intracratonic magmatism. <i>Geological Society Special Publication</i> , 1998, 138, 121-135.	1.3	16
50	Mid-crustal granulite facies metamorphism in the Central Kaapvaal craton: the Bushveld Complex connection. <i>Precambrian Research</i> , 1997, 82, 113-132.	2.7	48
51	Steep structure formation in the Okiep Copper District, South Africa: bulk inhomogeneous shortening of a high-grade metamorphic granite-gneiss sequence. <i>Journal of Structural Geology</i> , 1996, 18, 735-751.	2.3	29
52	Magnetic anomaly near the center of the Vredefort structure: Implications for impact-related magnetic signatures: Comment and Reply. <i>Geology</i> , 1995, 23, 1149.	4.4	2
53	Hercynian low-pressure-high-temperature regional metamorphism and subhorizontal foliation development in the Canigou massif, Pyrenees, Franceâ€Evidence for crustal extension. <i>Geology</i> , 1991, 19, 380.	4.4	46