

# Sally A Gibson

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

2,192  
citations

257450

24  
h-index

223800

46  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1813  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultramafic mantle xenoliths in the Late Cenozoic volcanic rocks of the Antarctic Peninsula and Jones Mountains, West Antarctica. <i>Geological Society Memoir</i> , 2023, 56, 101-114.	1.7	1
2	Evidence from gas-rich ultramafic xenoliths for Superplume-derived recycled volatiles in the East African sub-continental mantle. <i>Chemical Geology</i> , 2022, 589, 120682.	3.3	2
3	Upper Mantle Mush Zones beneath Low Melt Flux Ocean Island Volcanoes: Insights from Isla Floreana, Galpagos. <i>Journal of Petrology</i> , 2021, 61, .	2.8	19
4	Reconciling early Deccan Traps CO <sub>2</sub> outgassing and pre-KPB global climate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	28
5	Geochemical Constraints on the Structure of the Earth's Deep Mantle and the Origin of the LLSVPs. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009932.	2.5	6
6	Insights Into the Nature of Plume–Ridge Interaction and Outflux of H <sub>2</sub> O From the Galpagos Spreading Center. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009560.	2.5	2
7	Constraints on the behaviour and content of volatiles in Galpagos magmas from melt inclusions and nominally anhydrous minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2021, , .	3.9	3
8	Olivine chemistry reveals compositional source heterogeneities within a tilted mantle plume beneath Iceland. <i>Earth and Planetary Science Letters</i> , 2020, 531, 116008.	4.4	31
9	Pedogenic origin of Mezezo opal hosted in Ethiopian Miocene rhyolites. <i>Canadian Mineralogist</i> , 2020, 58, 231-246.	1.0	3
10	Novel insights from Fe-isotopes into the lithological heterogeneity of Ocean Island Basalts and plume-influenced MORBs. <i>Earth and Planetary Science Letters</i> , 2020, 535, 116114.	4.4	46
11	The role of sub-continental mantle as both a sink and a source in deep Earth volatile cycles. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 275, 140-162.	3.9	18
12	The evolution of the Kaapvaal craton: A multi-isotopic perspective from lithospheric peridotites from Finsch diamond mine. <i>Precambrian Research</i> , 2019, 331, 105380.	2.7	9
13	Deep Carbon and the Life Cycle of Large Igneous Provinces. <i>Elements</i> , 2019, 15, 319-324.	0.5	42
14	Hot primary melts and mantle source for the Par-Etendeka flood basalt province: New constraints from Al-in-olivine thermometry. <i>Chemical Geology</i> , 2019, 529, 119287.	3.3	32
15	Crustal controls on apparent mantle pyroxenite signals in ocean-island basalts. <i>Geology</i> , 2019, 47, 321-324.	4.4	43
16	Delivery of deep-sourced, volatile-rich plume material to the global ridge system. <i>Earth and Planetary Science Letters</i> , 2018, 499, 205-218.	4.4	21
17	Preservation of systematic Ni and Cr heterogeneity in otherwise homogeneous mantle olivine: Implications for timescales of post-metasomatism re-equilibration. <i>Lithos</i> , 2018, 318-319, 448-463.	1.4	9
18	Timing and origin of magmatism in the Sverdrup Basin, Northern Canada—Implications for lithospheric evolution in the High Arctic Large Igneous Province (HALIP). <i>Tectonophysics</i> , 2018, 742-743, 50-65.	2.2	42

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19	Triggering of the largest Deccan eruptions by the Chicxulub impact: Reply. <i>Bulletin of the Geological Society of America</i> , 2017, 129, 256-256.	3.3	2
20	On the nature and origin of garnet in highly-refractory Archean lithospheric mantle: constraints from garnet exsolved in Kaapvaal craton orthopyroxenes. <i>Mineralogical Magazine</i> , 2017, 81, 781-809.	1.4	21
21	The magmatic system beneath the Tristan da Cunha Island: Insights from thermobarometry, melting models and geophysics. <i>Tectonophysics</i> , 2017, 716, 64-76.	2.2	13
22	Deep mixing of mantle melts beneath continental flood basalt provinces: Constraints from olivine-hosted melt inclusions in primitive magmas. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 196, 36-57.	3.9	37
23	Garnet and Spinel Oxybarometers: New Internally Consistent Multi-equilibria Models with Applications to the Oxidation State of the Lithospheric Mantle. <i>Journal of Petrology</i> , 2016, 57, 1199-1222.	2.8	27
24	The influence of melt flux and crustal processing on Re-Os isotope systematics of ocean island basalts: Constraints from Galapagos. <i>Earth and Planetary Science Letters</i> , 2016, 449, 345-359.	4.4	12
25	Mantle plume capture, anchoring, and outflow during Galapagos plume-ridge interaction. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 1634-1655.	2.5	21
26	Triggering of the largest Deccan eruptions by the Chicxulub impact. <i>Bulletin of the Geological Society of America</i> , 2015, 127, 1507-1520.	3.3	149
27	Short wavelength heterogeneity in the Galapagos plume: Evidence from compositionally diverse basalts on Isla Santiago. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	21
28	Christmas recycling. <i>Nature Geoscience</i> , 2011, 4, 823-824.	12.9	1
29	Geochemical and geophysical estimates of lithospheric thickness variation beneath Galapagos. <i>Earth and Planetary Science Letters</i> , 2010, 300, 275-286.	4.4	79
30	Head-to-tail transition of the Afar mantle plume: Geochemical evidence from a Miocene bimodal basalt-rhyolite succession in the Ethiopian Large Igneous Province. <i>Lithos</i> , 2009, 112, 461-476.	1.4	49
31	Into the Field Again: Re-Examining Charles Darwin's 1835 Geological Work on Isla Santiago (James Tj ETQq1 1 0.784314 rgBJ /Overl 0,2		
32	Melt Depletion and Enrichment beneath the Western Kaapvaal Craton: Evidence from Finsch Peridotite Xenoliths. <i>Journal of Petrology</i> , 2008, 49, 1817-1852.	2.8	69
33	Timescales and mechanisms of plume-lithosphere interactions: <sup>40</sup> Ar/ <sup>39</sup> Ar geochronology and geochemistry of alkaline igneous rocks from the Parana-Etendeka large igneous province. <i>Earth and Planetary Science Letters</i> , 2006, 251, 1-17.	4.4	176
34	WALL, F. & ZAITSEV, A. N. (eds) 2004. Phoscorites and Carbonatites from Mantle to Mine: the Key Example of the Kola Alkaline Province. The Mineralogical Society Series no. 10. xv + 498 pp. London: The Mineralogical Society of Great Britain and Ireland. Price £89.00 (hard covers); introductory price £49.00. ISBN 0 903056 22 4. <i>Geological Magazine</i> , 2006, 143, 140-141.	1.5	0
35	Melt-generation processes associated with the Tristan mantle plume: Constraints on the origin of EM-1. <i>Earth and Planetary Science Letters</i> , 2005, 237, 744-767.	4.4	119
36	LE MAITRE, R. W. (ed.) 2002. <i>Igneous Rocks. A Classification and Glossary of Terms. Recommendations of the International Union of Geological Sciences Subcommission on the Systematics of Igneous Rocks</i> , 2nd ed. xvi + 236 pp. Cambridge, New York, Melbourne: Cambridge University Press. Price £45.00, US \$65.00 (hard covers). ISBN 0 521 66215 X. <i>Geological Magazine</i> , 2003, 140, 367-367.	1.5	10

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37	WOOLLEY, A. R. 2001. Alkaline Rocks and Carbonatites of the World. Part 3: Africa. v+372 pp. London, Bath: Geological Society of London. Price £85.00 (hard covers); members' price £39.00. ISBN 1 86239 083 5.. Geological Magazine, 2002, 139, 365-372.	1.5	1
38	BEST, M. G. & CHRISTIANSEN, E. H. 2001. Igneous Petrology. xvi+458 pp. Oxford: Blackwell Science. Price £29.50 (paperback). ISBN 0 86542 541 8. Geol. Mag. 139, 2002, DOI: 10.1017/S0016756802216507. Geological Magazine, 2002, 139, 233-238.	1.5	1
39	Major element heterogeneity in Archean to Recent mantle plume starting-heads. Earth and Planetary Science Letters, 2002, 195, 59-74.	4.4	91
40	Phlogopite and tetra-ferriphlogopite from Brazilian carbonatite complexes: petrogenetic constraints and implications for mineral-chemistry systematics. Journal of Asian Earth Sciences, 2001, 19, 265-296.	2.3	80
41	STEPHENSON, D., BEVINS, R. E., MILLWARD, D., HIGHTON, A. J., PARSONS, I., STONE, P. & WADSWORTH, W. J. 1999. Caledonian Igneous Rocks of Great Britain. Geological Conservation Review Series no. 17. xviii+648 pp. Peterborough: The Joint Nature Conservation Committee. Price £78.00 (hard covers). ISBN 1 86107 471 9.. Geological Magazine, 2000, 137, 705-712.	1.5	0
42	Ferropicrites: geochemical evidence for Fe-rich streaks in upwelling mantle plumes. Earth and Planetary Science Letters, 2000, 174, 355-374.	4.4	145
43	Erratum to "High-Ti and low-Ti mafic potassic magmas: Key to plume-lithosphere interactions and continental flood-basalt genesis" [Earth Planet. Sci. Lett. 136 (1995) 149-165]. Earth and Planetary Science Letters, 1996, 141, 325-341.	4.4	70
44	High-Ti and low-Ti mafic potassic magmas: Key to plume-lithosphere interactions and continental flood-basalt genesis. Earth and Planetary Science Letters, 1995, 136, 149-165.	4.4	163
45	Magmatic expression of lithospheric thinning across continental rifts. Tectonophysics, 1994, 233, 41-68.	2.2	59
46	Igneous stratigraphy and internal structure of the Little Minch Sill Complex, Trotternish Peninsula, northern Skye, Scotland. Geological Magazine, 1991, 128, 51-66.	1.5	30
47	Subcontinental mantle plumes, hotspots and pre-existing thinspots. Journal of the Geological Society, 1991, 148, 973-977.	2.1	221
48	The geochemistry of the Trotternish sills, Isle of Skye: crustal contamination in the British Tertiary Volcanic Province. Journal of the Geological Society, 1990, 147, 1071-1081.	2.1	21
49	Strongly potassic mafic magmas from lithospheric mantle sources during continental extension and heating: evidence from Miocene minettes of northwest Colorado, U.S.A.. Earth and Planetary Science Letters, 1990, 98, 139-153.	4.4	117
50	The Little Minch Sill Complex. Scottish Journal of Geology, 1989, 25, 367-370.	0.1	18
51	The Composition of Melts from a Heterogeneous Mantle and the Origin of Ferropicrite: Application of a Thermodynamic Model. Journal of Petrology, 0, , egw065.	2.8	7