Sally A Gibson

List of Publications by Year
in descending order

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	Subcontinental mantle plumes, hotspots and pre-existing thinspots. Journal of the Geological Society, 1991, 148, 973-977.	2.1	221
2	Timescales and mechanisms of plumeâ€“lithosphere interactions: 40Ar/39Ar geochronology and geochemistry of alkaline igneous rocks from the ParanÃ¡â€“Etendeka large igneous province. Earth and Planetary Science Letters, 2006, 251, 1-17.	4.4	176
3	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
4	Triggering of the largest Deccan eruptions by the Chicxulub impact. Bulletin of the Geological Society of America, 2015, 127, 1507-1520.	3.3	149
5	Ferropicrites: geochemical evidence for Fe-rich streaks in upwelling mantle plumes. Earth and Planetary Science Letters, 2000, 174, 355-374.	4.4	145
6	Melt-generation processes associated with the Tristan mantle plume: Constraints on the origin of EM-1. Earth and Planetary Science Letters, 2005, 237, 744-767.	4.4	119
7	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
8	Major element heterogeneity in Archean to Recent mantle plume starting-heads. Earth and Planetary Science Letters, 2002, 195, 59-74.	4.4	91
9	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
10	Geochemical and geophysical estimates of lithospheric thickness variation beneath GalÃ¡pagos. Earth and Planetary Science Letters, 2010, 300, 275-286.	4.4	79
11	Erratum to â€œHigh-Ti and low-Ti mafic potassic magmas: Key to plumeâ€”lithosphere interactions and continental flood-basalt genesisâ€•[Earth Planet. Sci. Lett. 136 (1995) 149â€“165]. Earth and Planetary Science Letters, 1996, 141, 325-341.	4.4	70
12	Melt Depletion and Enrichment beneath the Western Kaapvaal Craton: Evidence from Finsch Peridotite Xenoliths. Journal of Petrology, 2008, 49, 1817-1852.	2.8	69
13	Magmatic expression of lithospheric thinning across continental rifts. Tectonophysics, 1994, 233, 41-68.	2.2	59
14	Head-to-tail transition of the Afar mantle plume: Geochemical evidence from a Miocene bimodal basaltâ€“rhyolite succession in the Ethiopian Large Igneous Province. Lithos, 2009, 112, 461-476.	1.4	49
15	Novel insights from Fe-isotopes into the lithological heterogeneity of Ocean Island Basalts and plume-influenced MORBs. Earth and Planetary Science Letters, 2020, 535, 116114.	4.4	46
16	Crustal controls on apparent mantle pyroxenite signals in ocean-island basalts. Geology, 2019, 47, 321-324.	4.4	43
17	Timing and origin of magmatism in the Sverdrup Basin, Northern Canadaâ€”Implications for lithospheric evolution in the High Arctic Large Igneous Province (HALIP). Tectonophysics, 2018, 742-743, 50-65.	2.2	42
18	Deep Carbon and the Life Cycle of Large Igneous Provinces. Elements, 2019, 15, 319-324.	0.5	42

#	Article	IF	Citations
19	Deep mixing of mantle melts beneath continental flood basalt provinces: Constraints from olivine-hosted melt inclusions in primitive magmas. Geochimica Et Cosmochimica Acta, 2017, 196, 36-57.	3.9	37
20	Hot primary melts and mantle source for the ParanÃ¡-Etendeka flood basalt province: New constraints from Al-in-olivine thermometry. Chemical Geology, 2019, 529, 119287.	3.3	32
21	Olivine chemistry reveals compositional source heterogeneities within a tilted mantle plume beneath Iceland. Earth and Planetary Science Letters, 2020, 531, 116008.	4.4	31
22	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
23	Reconciling early Deccan Traps CO ₂ outgassing and pre-KPB global climate. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	28
24	Garnet and Spinel Oxybarometers: New Internally Consistent Multi-equilibria Models with Applications to the Oxidation State of the Lithospheric Mantle. Journal of Petrology, 2016, 57, 1199-1222.	2.8	27
25	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
26	Short wavelength heterogeneity in the GalÃ¡pagos plume: Evidence from compositionally diverse basalts on Isla Santiago. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	21
27	Mantle plume capture, anchoring, and outflow during <scp>G</scp>alÃ¡pagos plumeâ€ridge interaction. Geochemistry, Geophysics, Geosystems, 2015, 16, 1634-1655.	2.5	21
28	On the nature and origin of garnet in highly-refractory Archean lithospheric mantle: constraints from garnet exsolved in Kaapvaal craton orthopyroxenes. Mineralogical Magazine, 2017, 81, 781-809.	1.4	21
29	Delivery of deep-sourced, volatile-rich plume material to the global ridge system. Earth and Planetary Science Letters, 2018, 499, 205-218.	4.4	21
30	Upper Mantle Mush Zones beneath Low Melt Flux Ocean Island Volcanoes: Insights from Isla Floreana, GalÃ¡pagos. Journal of Petrology, 2021, 61, .	2.8	19
31	The Little Minch Sill Complex. Scottish Journal of Geology, 1989, 25, 367-370.	0.1	18
32	The role of sub-continental mantle as both â€œsinkâ€•and â€œsourceâ€•in deep Earth volatile cycles. Geochimica Et Cosmochimica Acta, 2020, 275, 140-162.	3.9	18
33	The magmatic system beneath the Tristan da Cunha Island: Insights from thermobarometry, melting models and geophysics. Tectonophysics, 2017, 716, 64-76.	2.2	13
34	The influence of melt flux and crustal processing on Reâ€“Os isotope systematics of ocean island basalts: Constraints from GalÃ¡pagos. Earth and Planetary Science Letters, 2016, 449, 345-359.	4.4	12
35	LE MAITRE, R. W. (ed.) 2002. Igneous Rocks. A Classification and Glossary of Terms. Recommendations of the International Union of Geological Sciences Subcommission on the Systematics of Igneous Rocks, 2nd ed. xvi + 236 pp. Cambridge, New York, Melbourne: Cambridge University Press. Price Â£45.00, US $65.00 (hard covers). ISBN 0 521 66215 X. Geological Magazine, 2003, 140, 367-367.	1.5	10
36	Preservation of systematic Ni and Cr heterogeneity in otherwise homogeneous mantle olivine: Implications for timescales of post-metasomatism re-equilibration. Lithos, 2018, 318-319, 448-463.	1.4	9

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37	The evolution of the Kaapvaal craton: A multi-isotopic perspective from lithospheric peridotites from Finsch diamond mine. Precambrian Research, 2019, 331, 105380.	2.7	9
38	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
39	Geochemical Constraints on the Structure of the Earth's Deep Mantle and the Origin of the LLSVPs. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009932.	2.5	6
40	Into the Field Again: Re-Examining Charles Darwin's 1835 Geological Work on Isla Santiago (James) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.2	5
41	Pedogenic origin of Mezezo opal hosted in Ethiopian Miocene rhyolites. Canadian Mineralogist, 2020, 58, 231-246.	1.0	3
42	Constraints on the behaviour and content of volatiles in GalÃ¡pagos magmas from melt inclusions and nominally anhydrous minerals. Geochimica Et Cosmochimica Acta, 2021, , .	3.9	3
43	Triggering of the largest Deccan eruptions by the Chicxulub impact: Reply. Bulletin of the Geological Society of America, 2017, 129, 256-256.	3.3	2
44	Insights Into the Nature of Plumeâ€Ridge Interaction and Outflux of H₂O From the GalÃ¡pagos Spreading Center. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009560.	2.5	2
45	Evidence from gas-rich ultramafic xenoliths for Superplume-derived recycled volatiles in the East African sub-continental mantle. Chemical Geology, 2022, 589, 120682.	3.3	2
46	WOOLLEY, A. R. 2001. Alkaline Rocks and Carbonatites of the World. Part 3: Africa. v+372 pp. London, Bath: Geological Society of London. Price Â£85.00 (hard covers); members' price Â£39.00. ISBN 1 86239 083 5.. Geological Magazine, 2002, 139, 365-372.	1.5	1
47	BEST, M. G. & CHRISTIANSEN, E. H. 2001. Igneous Petrology. xvi+458 pp. Oxford: Blackwell Science. Price Â£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
48	Christmas recycling. Nature Geoscience, 2011, 4, 823-824.	12.9	1
49	Ultramafic mantle xenoliths in the Late Cenozoic volcanic rocks of the Antarctic Peninsula and Jones Mountains, West Antarctica. Geological Society Memoir, 2023, 56, 101-114.	1.7	1
50	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 Â£78.00 (hard covers). ISBN 1 86107 471 9.. Geological Magazine, 2000, 137, 705-712.	1.5	0
51	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 Â£89.00 (hard covers); introductory price Â£49.00. ISBN 0 903056 22 4. Geological Magazine, 2006, 143, 140-141.	1.5	0