

Susan J Webb

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

2,516
citations

279798

23
h-index

233421

45
g-index

55
all docs

55
docs citations

55
times ranked

1955
citing authors

#	ARTICLE	IF	CITATIONS
1	Diamonds sampled by plumes from the core-mantle boundary. <i>Nature</i> , 2010, 466, 352-355.	27.8	399
2	Crustal structure beneath southern Africa and its implications for the formation and evolution of the Kaapvaal and Zimbabwe cratons. <i>Geophysical Research Letters</i> , 2001, 28, 2501-2504.	4.0	237
3	Deep mantle structure as a reference frame for movements in and on the Earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8735-8740.	7.1	200
4	New way to map old sutures using deformed alkaline rocks and carbonatites. <i>Geology</i> , 2003, 31, 391.	4.4	139
5	Magmatic stratigraphy in the Bushveld Northern Lobe: continuous geophysical and mineralogical data from the 2950 m Bellevue drillcore. <i>South African Journal of Geology</i> , 2005, 108, 199-232.	1.2	128
6	Proterozoic mountain building in Peninsular India: an analysis based primarily on alkaline rock distribution. <i>Geological Magazine</i> , 2006, 143, 195-212.	1.5	115
7	Early Archaean tectonics and mantle redox recorded in Witwatersrand diamonds. <i>Nature Geoscience</i> , 2016, 9, 255-259.	12.9	98
8	Connectivity between the western and eastern limbs of the Bushveld Complex. <i>Tectonophysics</i> , 2001, 330, 195-209.	2.2	89
9	Lithospheric structure, evolution and diamond prospectivity of the Rehoboth Terrane and western Kaapvaal Craton, southern Africa: Constraints from broadband magnetotellurics. <i>Lithos</i> , 2009, 112, 93-105.	1.4	87
10	Electrical lithosphere beneath the Kaapvaal craton, southern Africa. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	85
11	Avoidable Euler Errors – the use and abuse of Euler deconvolution applied to potential fields. <i>Geophysical Prospecting</i> , 2014, 62, 1162-1168.	1.9	85
12	Gravity modeling of Bushveld Complex connectivity supported by Southern African Seismic Experiment results. <i>South African Journal of Geology</i> , 2004, 107, 207-218.	1.2	79
13	Area selection for diamonds using magnetotellurics: Examples from southern Africa. <i>Lithos</i> , 2009, 112, 83-92.	1.4	65
14	Late Jurassic age for the Morokweng impact structure, southern Africa. <i>Earth and Planetary Science Letters</i> , 1997, 147, 25-35.	4.4	59
15	Palaeomagnetism of the 2054 Ma Bushveld Complex (South Africa): implications for emplacement and cooling. <i>Geophysical Journal International</i> , 2009, 179, 850-872.	2.4	53
16	Lithospheric structure of an Archean craton and adjacent mobile belt revealed from 2D and 3D inversion of magnetotelluric data: Example from southern Congo craton in northern Namibia. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 4378-4397.	3.4	49
17	Continuity between eastern and western Bushveld Complex, South Africa, confirmed by xenoliths from kimberlite. <i>Contributions To Mineralogy and Petrology</i> , 2011, 162, 101-107.	3.1	43
18	Cooling of the Bushveld Complex, South Africa: Implications for paleomagnetic reversals. <i>Geology</i> , 2013, 41, 687-690.	4.4	41

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19	Palaeoposition of the Seychelles microcontinent in relation to the Deccan Traps and the Plume Generation Zone in Late Cretaceous-Early Palaeogene time. Geological Society Special Publication, 2011, 357, 229-252.	1.3	40
20	Mapping the 3D extent of the Northern Lobe of the Bushveld layered mafic intrusion from geophysical data. Precambrian Research, 2015, 268, 279-294.	2.7	40
21	Tectonic model of the Limpopo belt: Constraints from magnetotelluric data. Precambrian Research, 2013, 226, 143-156.	2.7	39
22	A clinopyroxenite intrusion from the Pilanesberg Alkaline Province, South Africa. Precambrian Research, 2012, 198-199, 25-36.	2.7	31
23	The formation and evolution of Africa from the Archaean to Present: introduction. Geological Society Special Publication, 2011, 357, 1-8.	1.3	26
24	Shear wave velocity structure of the Bushveld Complex, South Africa. Tectonophysics, 2012, 554-557, 83-104.	2.2	21
25	Gravity models of the Bushveld Complex "Have we come full circle?. Journal of African Earth Sciences, 2014, 92, 97-118.	2.0	21
26	Palaeomagnetism and $^{40}\text{Ar}/^{39}\text{Ar}$ geochronology of mafic dykes from the eastern Bushveld Complex (South Africa). Geophysical Journal International, 2005, 162, 36-48.	2.4	20
27	Comment on "A crustal thickness map of Africa derived from a global gravity field model using Euler deconvolution" by Getachew E. Tedla, M. van der Meijde, A. A. Nyblade and F. D. van der Meer. Geophysical Journal International, 2012, 189, 1217-1222.	2.4	20
28	Large-scale magmatic layering in the Main Zone of the Bushveld Complex and episodic downward magma infiltration. Contributions To Mineralogy and Petrology, 2017, 172, 1.	3.1	20
29	NEW DEPTH MAPS OF THE MAIN KAROO BASIN, USED TO EXPLORE THE CAPE ISOSTATIC ANOMALY, SOUTH AFRICA. South African Journal of Geology, 2015, 118, 225-248.	1.2	19
30	Remagnetization of Mesozoic limestones from the Jaisalmer basin, NW India. Geophysical Journal International, 2005, 161, 57-64.	2.4	17
31	Geoscience Initiative Develops Sustainable Science in Africa. Eos, 2011, 92, 161-162.	0.1	17
32	Overview of the magnetic signatures of the Palaeoproterozoic Rustenburg Layered Suite, Bushveld Complex, South Africa. Precambrian Research, 2013, 236, 193-213.	2.7	17
33	AfricaArray: Developing a geosciences workforce for Africa's natural resource sector. The Leading Edge, 2008, 27, 1358-1361.	0.7	16
34	GEOPHYSICALLY PLUMBING THE MAIN KAROO BASIN, SOUTH AFRICA. South African Journal of Geology, 2014, 117, 275-300.	1.2	16
35	An integrated geophysical study of the Beattie Magnetic Anomaly, South Africa. Tectonophysics, 2014, 636, 228-243.	2.2	16
36	New Palaeoproterozoic palaeomagnetic data from the Kaapvaal Craton, South Africa. Geological Society Special Publication, 2011, 357, 9-26.	1.3	15

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37	Geodetic investigation of plate spreading along a propagating ridge: the Eastern Volcanic Zone, Iceland. <i>Geophysical Journal International</i> , 2011, 187, 1175-1194.	2.4	15
38	A Mantle-derived Origin for Mauritian Trachytes. <i>Journal of Petrology</i> , 0, , egw052.	2.8	9
39	An audio-magnetotelluric investigation of the Otjiwarongo and Katima Mulilo regions, Namibia. <i>Geophysics</i> , 2014, 79, B151-B171.	2.6	7
40	A harmonic spline magnetic main field model for Southern Africa combining ground and satellite data to describe the evolution of the South Atlantic Anomaly in this region between 2005 and 2010. <i>Earth, Planets and Space</i> , 2018, 70, .	2.5	7
41	Hydrogeophysical investigation for groundwater at the Dayspring Children's Village, South Africa. <i>The Leading Edge</i> , 2011, 30, 434-440.	0.7	4
42	Wavelet and statistical investigation of density and susceptibility data from the Bellevue drill core and Moordkopje borehole, Bushveld Complex, South Africa. , 2008, , .		3
43	AfricaArray International Geophysics Field School: Diversity and training come together in Africa. <i>The Leading Edge</i> , 2015, 34, 1230-1235.	0.7	2
44	An isostatic study of the Karoo basin and underlying lithosphere in 3-D. <i>Geophysical Journal International</i> , 2016, 206, 774-791.	2.4	2
45	Application of Spherical Cap Harmonic Analysis on CHAMP satellite data to develop a lithospheric magnetic field model over southern Africa at satellite altitude. <i>South African Journal of Geology</i> , 2019, 122, 163-172.	1.2	2
46	Research capacity building in Africa as part of international programmes : Experience gained from the Kaapvaal Craton Project.. <i>South African Journal of Geology</i> , 2004, 107, 7-12.	1.2	1
47	Size does matter: Towards a consistent 3D gravity and magnetic model of the Bushveld Complex, South Africa. , 2006, , .		1
48	Experimental studies of elastic wave velocities and densities in rocks from the Bushveld Complex, South Africa: implications for deep reflection seismic surveys. <i>South African Journal of Geology</i> , 2018, 121, 311-326.	1.2	1
49	Hydrogeophysical investigation for groundwater at the Dayspring Children's Village, South Africa. , 2010, , .		0
50	Integrated interpretation of potential field and seismic data for shale gas potential in the Karoo Basin, South Africa. , 2013, , .		0
51	Introduction to this special section: Education in the geosciences. <i>The Leading Edge</i> , 2015, 34, 1164-1165.	0.7	0
52	Hydrogeophysical investigations at the Dayspring Children's Village: Quantifying the effect of invasive tree species. , 2011, , .		0
53	Time-lapse resistivity and geophysical measurements at Dayspring Children's Village. , 2012, , .		0
54	ICDP Deep drilling and geophysical exploration of the Bushveld Complex, South Africa. , 2014, , .		0