

# Susan J Webb

## List of Publications by Year in descending order

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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	Application of Spherical Cap Harmonic Analysis on CHAMP satellite data to develop a lithospheric magnetic field model over southern Africa at satellite altitude. South African Journal of Geology, 2019, 122, 163-172.	1.2	2
2	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. Earth, Planets and Space, 2018, 70, .	2.5	7
3	Experimental studies of elastic wave velocities and densities in rocks from the Bushveld Complex, South Africa: implications for deep reflection seismic surveys. South African Journal of Geology, 2018, 121, 311-326.	1.2	1
4	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
5	An isostatic study of the Karoo basin and underlying lithosphere in 3-D. Geophysical Journal International, 2016, 206, 774-791.	2.4	2
6	Early Archaean tectonics and mantle redox recorded in Witwatersrand diamonds. Nature Geoscience, 2016, 9, 255-259.	12.9	98
7	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
8	AfricaArray International Geophysics Field School: Diversity and training come together in Africa. The Leading Edge, 2015, 34, 1230-1235.	0.7	2
9	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
10	Introduction to this special section: Education in the geosciences. The Leading Edge, 2015, 34, 1164-1165.	0.7	0
11	An audio-magnetotelluric investigation of the Otjiwarongo and Katima Mulilo regions, Namibia. Geophysics, 2014, 79, B151-B171.	2.6	7
12	GEOPHYSICALLY PLUMBING THE MAIN KAROO BASIN, SOUTH AFRICA. South African Journal of Geology, 2014, 117, 275-300.	1.2	16
13	Gravity models of the Bushveld Complex “Have we come full circle?”. Journal of African Earth Sciences, 2014, 92, 97-118.	2.0	21
14	An integrated geophysical study of the Beattie Magnetic Anomaly, South Africa. Tectonophysics, 2014, 636, 228-243.	2.2	16
15	Avoidable Euler Errors “the use and abuse of Euler deconvolution applied to potential fields. Geophysical Prospecting, 2014, 62, 1162-1168.	1.9	85
16	Deep mantle structure as a reference frame for movements in and on the Earth. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8735-8740.	7.1	200
17	ICDP Deep drilling and geophysical exploration of the Bushveld Complex, South Africa. , 2014, , .		0
18	Overview of the magnetic signatures of the Palaeoproterozoic Rustenburg Layered Suite, Bushveld Complex, South Africa. Precambrian Research, 2013, 236, 193-213.	2.7	17

#	ARTICLE	IF	CITATIONS
19	Tectonic model of the Limpopo belt: Constraints from magnetotelluric data. <i>Precambrian Research</i> , 2013, 226, 143-156.	2.7	39
20	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
21	Cooling of the Bushveld Complex, South Africa: Implications for paleomagnetic reversals. <i>Geology</i> , 2013, 41, 687-690.	4.4	41
22	Integrated interpretation of potential field and seismic data for shale gas potential in the Karoo Basin, South Africa. , 2013, , .		0
23	A clinopyroxenite intrusion from the Pilanesberg Alkaline Province, South Africa. <i>Precambrian Research</i> , 2012, 198-199, 25-36.	2.7	31
24	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. <i>Geophysical Journal International</i> , 2012, 189, 1217-1222.	2.4	20
25	Shear wave velocity structure of the Bushveld Complex, South Africa. <i>Tectonophysics</i> , 2012, 554-557, 83-104.	2.2	21
26	Time-lapse resistivity and geophysical measurements at Dayspring Children's Village. , 2012, , .		0
27	The formation and evolution of Africa from the Archaean to Present: introduction. <i>Geological Society Special Publication</i> , 2011, 357, 1-8.	1.3	26
28	New Palaeoproterozoic palaeomagnetic data from the Kaapvaal Craton, South Africa. <i>Geological Society Special Publication</i> , 2011, 357, 9-26.	1.3	15
29	Electrical lithosphere beneath the Kaapvaal craton, southern Africa. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	85
30	Geoscience Initiative Develops Sustainable Science in Africa. <i>Eos</i> , 2011, 92, 161-162.	0.1	17
31	Hydrogeophysical investigation for groundwater at the Dayspring Children's Village, South Africa. <i>The Leading Edge</i> , 2011, 30, 434-440.	0.7	4
32	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
33	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
34	Palaeoposition of the Seychelles microcontinent in relation to the Deccan Traps and the Plume Generation Zone in Late Cretaceous-Early Palaeogene time. <i>Geological Society Special Publication</i> , 2011, 357, 229-252.	1.3	40
35	Hydrogeophysical investigations at the Dayspring Children's Village: Quantifying the effect of invasive tree species. , 2011, , .		0
36	Hydrogeophysical investigation for groundwater at the Dayspring Children's Village, South Africa. , 2010, , .		0

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37	Diamonds sampled by plumes from the core-mantle boundary. <i>Nature</i> , 2010, 466, 352-355.	27.8	399
38	Area selection for diamonds using magnetotellurics: Examples from southern Africa. <i>Lithos</i> , 2009, 112, 83-92.	1.4	65
39	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
40	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
41	AfricaArray: Developing a geosciences workforce for Africa's natural resource sector. <i>The Leading Edge</i> , 2008, 27, 1358-1361.	0.7	16
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	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
44	Size does matter: Towards a consistent 3D gravity and magnetic model of the Bushveld Complex, South Africa. , 2006, , .		1
45	Remagnetization of Mesozoic limestones from the Jaisalmer basin, NW India. <i>Geophysical Journal International</i> , 2005, 161, 57-64.	2.4	17
46	Palaeomagnetism and $^{40}\text{Ar}/^{39}\text{Ar}$ geochronology of mafic dykes from the eastern Bushveld Complex (South Africa). <i>Geophysical Journal International</i> , 2005, 162, 36-48.	2.4	20
47	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
48	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
49	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
50	New way to map old sutures using deformed alkaline rocks and carbonatites. <i>Geology</i> , 2003, 31, 391.	4.4	139
51	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
52	Connectivity between the western and eastern limbs of the Bushveld Complex. <i>Tectonophysics</i> , 2001, 330, 195-209.	2.2	89
53	Late Jurassic age for the Morokweng impact structure, southern Africa. <i>Earth and Planetary Science Letters</i> , 1997, 147, 25-35.	4.4	59
54	A Mantle-derived Origin for Mauritian Trachytes. <i>Journal of Petrology</i> , 0, , egw052.	2.8	9