

Douglas S Wilson

List of Publications by Year in descending order

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43
papers

2,969
citations

172386

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254106

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g-index

45
all docs

45
docs citations

45
times ranked

2171
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for a Global Slowdown in Seafloor Spreading Since 15 Ma. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	8
2	Tectonic degassing drove global temperature trends since 20 Ma. <i>Science</i> , 2022, 377, 116-119.	6.0	31
3	Astronomical tunings of the Oligocene–Miocene transition from Pacific Ocean Site U1334 and implications for the carbon cycle. <i>Climate of the Past</i> , 2018, 14, 255-270.	1.3	19
4	Megaplume bubble process visualization by 3D multibeam sonar mapping. <i>Marine and Petroleum Geology</i> , 2015, 68, 753-765.	1.5	23
5	The glacial geomorphology of the Antarctic ice sheet bed. <i>Antarctic Science</i> , 2014, 26, 724-741.	0.5	41
6	Seafloor spreading anomalies and crustal ages of the Clarion-Clipperton Zone. <i>Marine Geophysical Researches</i> , 2013, 34, 79-88.	0.5	31
7	Initiation of the West Antarctic Ice Sheet and estimates of total Antarctic ice volume in the earliest Oligocene. <i>Geophysical Research Letters</i> , 2013, 40, 4305-4309.	1.5	80
8	A kinematic model for the formation of the Siletz–Crescent forearc terrane by capture of coherent fragments of the Farallon and Resurrection plates. <i>Tectonics</i> , 2013, 32, 718-736.	1.3	65
9	Antarctic topography at the Eocene–Oligocene boundary. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012, 335-336, 24-34.	1.0	151
10	Gravity lineaments of the Cocos Plate: Evidence for a thermal contraction crack origin. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	1.0	11
11	Geologic control of natural marine hydrocarbon seep emissions, Coal Oil Point seep field, California. <i>Geo-Marine Letters</i> , 2010, 30, 331-338.	0.5	50
12	Continuing evolution of the Pacific–Juan de Fuca–North America slab window system: A trench–ridge–transform example from the Pacific Rim. <i>Tectonophysics</i> , 2009, 464, 30-42.	0.9	49
13	Introduction to Special Issue on: Interpreting the tectonic evolution of Pacific Rim margins using plate kinematics and slab-window volcanism. <i>Tectonophysics</i> , 2009, 464, 3-9.	0.9	17
14	West Antarctic paleotopography estimated at the Eocene–Oligocene climate transition. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	88
15	Oligocene development of the West Antarctic Ice Sheet recorded in eastern Ross Sea strata. <i>Geology</i> , 2007, 35, 467.	2.0	32
16	Bedrock platforms within the Ross Embayment, West Antarctica: Hypotheses for ice sheet history, wave erosion, Cenozoic extension, and thermal subsidence. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	1.0	17
17	Drilling to Gabbro in Intact Ocean Crust. <i>Science</i> , 2006, 312, 1016-1020.	6.0	230
18	Implications of volcanism in coastal California for the Neogene deformation history of western North America. <i>Tectonics</i> , 2005, 24, n/a-n/a.	1.3	109

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19	The "road to the Mohole" four decades on: Deep drilling at Site 1256. <i>Eos</i> , 2004, 85, 521.	0.1	6
20	Eastern margin of the Ross Sea Rift in western Marie Byrd Land, Antarctica: Crustal structure and tectonic development. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	1.0	61
21	Magnetostratigraphy of the Eldorado Mountains volcanic complex and the calibration of the early to middle Miocene polarity time scale. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	1
22	Seismic structure of 15 Ma oceanic crust formed at an ultrafast spreading East Pacific Rise: Evidence for kilometer-scale fracturing from dipping reflectors. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	32
23	A multibeam-sonar, magnetic and geochemical flowline survey at 14°14'S on the southern East Pacific Rise: insights into the fourth dimension of ridge crest segmentation. <i>Earth and Planetary Science Letters</i> , 2002, 199, 359-372.	1.8	18
24	Structural and tectonic evolution of the Ross Sea rift in the Cape Colbeck region, Eastern Ross Sea, Antarctica. <i>Tectonics</i> , 2001, 20, 933-958.	1.3	44
25	Reply [to "Comment on "Relative motions of the Pacific, Rivera, North American, and Cocos plates since 0.78 Ma" by Charles DeMets and Douglas S. Wilson"]. <i>Journal of Geophysical Research</i> , 1998, 103, 24251-24256.	3.3	5
26	Relative motions of the Pacific, Rivera, North American, and Cocos plates since 0.78 Ma. <i>Journal of Geophysical Research</i> , 1997, 102, 2789-2806.	3.3	83
27	Fastest known spreading on the Miocene Cocos-Pacific Plate Boundary. <i>Geophysical Research Letters</i> , 1996, 23, 3003-3006.	1.5	126
28	High-resolution plate reconstruction of the southern Mid-Atlantic Ridge. <i>Marine Geophysical Researches</i> , 1995, 17, 143-166.	0.5	12
29	A three-dimensional gravity analysis of the East Pacific Rise from 18° to 21°30'S. <i>Journal of Geophysical Research</i> , 1995, 100, 8063-8082.	3.3	45
30	History of rift propagation and magnetization intensity for the Cocos-Nazca spreading Center. <i>Journal of Geophysical Research</i> , 1995, 100, 10041-10056.	3.3	139
31	Confirmation of the astronomical calibration of the magnetic polarity timescale from sea-floor spreading rates. <i>Nature</i> , 1993, 364, 788-790.	13.7	94
32	Confidence intervals for motion and deformation of the Juan de Fuca Plate. <i>Journal of Geophysical Research</i> , 1993, 98, 16053-16071.	3.3	216
33	Focused mantle upwelling beneath mid-ocean ridges: evidence from seamount formation and isostatic compensation of topography. <i>Earth and Planetary Science Letters</i> , 1992, 113, 41-55.	1.8	80
34	Morphology of the Blanco Transform Fault Zone-NE Pacific: Implications for its tectonic evolution. <i>Marine Geophysical Researches</i> , 1992, 14, 25-45.	0.5	82
35	Kinematics of overlapping rift propagation with cyclic rift failure. <i>Earth and Planetary Science Letters</i> , 1990, 96, 384-392.	1.8	43
36	Deformation of the so-called Gorda Plate. <i>Journal of Geophysical Research</i> , 1989, 94, 3065-3075.	3.3	112

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37	Tectonic history of the Juan de Fuca Ridge over the last 40 million years. <i>Journal of Geophysical Research</i> , 1988, 93, 11863-11876.	3.3	130
38	Implications of magma convection for the size and temperature of magma chambers at fast spreading ridges. <i>Journal of Geophysical Research</i> , 1988, 93, 11974-11984.	3.3	67
39	A kinematic model for the Gorda Deformation Zone as a diffuse southern boundary of the Juan de Fuca Plate. <i>Journal of Geophysical Research</i> , 1986, 91, 10259-10269.	3.3	83
40	Propagation as a mechanism of reorientation of the Juan de Fuca Ridge. <i>Journal of Geophysical Research</i> , 1984, 89, 9215-9225.	3.3	122
41	Pole of rotation analysis of present-day Juan de Fuca Plate motion. <i>Journal of Geophysical Research</i> , 1984, 89, 10283-10290.	3.3	48
42	Petrologic consequences of rift propagation on oceanic spreading ridges. <i>Earth and Planetary Science Letters</i> , 1983, 62, 193-207.	1.8	205
43	The Galapagos axial magnetic anomaly: Evidence for the Emperor Event within the Brunhes and for a two-layer magnetic source. <i>Geophysical Research Letters</i> , 1981, 8, 1051-1054.	1.5	51