

Joann Stock

List of Publications by Year in descending order

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126
papers

8,336
citations

81434

41
h-index

54771

88
g-index

133
all docs

133
docs citations

133
times ranked

6366
citing authors

#	ARTICLE	IF	CITATIONS
1	Cenozoic continental rifting in the north-western Ross Sea. <i>New Zealand Journal of Geology, and Geophysics</i> , 2022, 65, 389-396.	1.0	3
2	Microcontinent Breakup and Links to Possible Plate Boundary Reorganization in the Northern Gulf of California, México. <i>Tectonics</i> , 2022, 41, .	1.3	0
3	Stress transition from horizontal to vertical forces during subduction initiation. <i>Nature Geoscience</i> , 2022, 15, 149-155.	5.4	20
4	Seismicity in a weak crust: the transtensional tectonics of the Brawley Seismic Zone section of the Pacific-North America Plate Boundary in Southern California, USA. <i>Geophysical Journal International</i> , 2022, 231, 717-735.	1.0	3
5	Stratigraphic architecture of Solander Basin records Southern Ocean currents and subduction initiation beneath southwest New Zealand. <i>Basin Research</i> , 2021, 33, 403-426.	1.3	7
6	Strike-slip Enables Subduction Initiation Beneath a Failed Rift: New Seismic Constraints From Puysegur Margin, New Zealand. <i>Tectonics</i> , 2021, 40, e2020TC006436.	1.3	17
7	Moho Depth of Northern Baja California, Mexico, From Teleseismic Receiver Functions. <i>Earth and Space Science</i> , 2021, 8, e2020EA001463.	1.1	0
8	Scales of Stress Heterogeneity Near Active Faults in the Santa Barbara Channel, Southern California. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008744.	1.0	5
9	Continental Interior and Edge Breakup at Convergent Margins Induced by Subduction Direction Reversal: A Numerical Modeling Study Applied to the South China Sea Margin. <i>Tectonics</i> , 2020, 39, e2020TC006409.	1.3	19
10	The Lavic Lake Fault: A Long-Term Cumulative Slip Analysis via Combined Field Work and Thermal Infrared Hyperspectral Airborne Remote Sensing. <i>Remote Sensing</i> , 2020, 12, 3586.	1.8	1
11	Incipient subduction at the contact with stretched continental crust: The Puysegur Trench. <i>Earth and Planetary Science Letters</i> , 2019, 520, 212-219.	1.8	34
12	A Crustal Velocity Model for the Peninsular Ranges of Baja California and Southwestern Laguna Salada, Mexico. <i>Seismological Research Letters</i> , 2019, 90, 1219-1229.	0.8	1
13	Three-Dimensional Basin and Fault Structure From a Detailed Seismic Velocity Model of Coachella Valley, Southern California. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 4728-4750.	1.4	18
14	Seismic characteristics and evolution of post-rift igneous complexes and hydrothermal vents in the Lingshui sag (Qiongdongnan basin), northwestern South China Sea. <i>Marine Geology</i> , 2019, 418, 106043.	0.9	26
15	Source Functions and Path Effects from Earthquakes in the Farallon Transform Fault Region, Gulf of California, Mexico that Occurred on October 2013. <i>Pageoph Topical Volumes</i> , 2018, , 45-62.	0.2	0
16	Source Functions and Path Effects from Earthquakes in the Farallon Transform Fault Region, Gulf of California, Mexico that Occurred on October 2013. <i>Pure and Applied Geophysics</i> , 2017, 174, 2239-2256.	0.8	9
17	Fault zone characteristics and basin complexity in the southern Salton Trough, California. <i>Geology</i> , 2016, 44, 747-750.	2.0	23
18	Focal mechanisms and size distribution of earthquakes beneath the Krafla central volcano, NE Iceland. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 5152-5168.	1.4	10

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19	Seismic imaging of the metamorphism of young sediment into new crystalline crust in the actively rifting Imperial Valley, California. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4566-4584.	1.0	13
20	Continental rupture and the creation of new crust in the Salton Trough rift, Southern California and northern Mexico: Results from the Salton Seismic Imaging Project. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 7469-7489.	1.4	39
21	Geologic swath map of the lavic lake fault from airborne thermal hyperspectral imagery. , 2016, , .		2
22	Synchronous oceanic spreading and continental rifting in West Antarctica. <i>Geophysical Research Letters</i> , 2016, 43, 6162-6169.	1.5	27
23	MAKO LWIR HYPERSPECTRAL SENSOR DATA AS A TOOL FOR IDENTIFYING TECTONIC DISPLACEMENT, MINERALIZATION AND ALTERATION: EXAMPLES FROM THE EASTERN CALIFORNIA SHEAR ZONE. , 2016, , .		0
24	Seismic imaging of the shallow crust beneath the Krafla central volcano, NE Iceland. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 7156-7173.	1.4	40
25	A Crustal Velocity Model for the Southern Mexicali Valley, Baja California, Mexico. <i>Seismological Research Letters</i> , 2015, 86, 181-191.	0.8	8
26	Fault Slip Distribution of the 1999 Mw 7.1 Hector Mine Earthquake, California, Estimated from Postearthquake Airborne LiDAR Data. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 776-790.	1.1	19
27	Active Pacific North America Plate boundary tectonics as evidenced by seismicity in the oceanic lithosphere offshore Baja California, Mexico. <i>Geophysical Journal International</i> , 2014, 196, 1619-1630.	1.0	6
28	Community infrastructure and repository for marine magnetic identifications. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 1629-1641.	1.0	97
29	Assembly of a large earthquake from a complex fault system: Surface rupture kinematics of the 4 April 2010 El Mayor-Cucapah (Mexico) Mw 7.2 earthquake. , 2014, 10, 797-827.		127
30	Deep crustal structure of the Adare and Northern Basins, Ross Sea, Antarctica, from sonobuoy data. <i>Earth and Planetary Science Letters</i> , 2014, 405, 220-230.	1.8	5
31	The Ayyubid Orogen: An Ophiolite Obduction-Driven Orogen in the Late Cretaceous of the Neo-Tethyan South Margin. <i>Geoscience Canada</i> , 2014, 41, 225.	0.3	17
32	Report on the August 2012 Brawley Earthquake Swarm in Imperial Valley, Southern California. <i>Seismological Research Letters</i> , 2013, 84, 177-189.	0.8	48
33	Revised Eocene-Oligocene kinematics for the West Antarctic rift system. <i>Geophysical Research Letters</i> , 2013, 40, 279-284.	1.5	63
34	Geochemical characteristics of the extensive peralkaline pyroclastic flow deposit of NW Mexico based on conventional and handheld X-ray fluorescence. Geochemical and tectonic implications in a regional context.. <i>Journal of Iberian Geology</i> , 2013, 39, .	0.7	13
35	Earthquake in a Maze: Compressional Rupture Branching During the 2012 <i>M_w</i> 8.6 Sumatra Earthquake. <i>Science</i> , 2012, 337, 724-726.	6.0	228
36	The 2012 Sumatra great earthquake sequence. <i>Earth and Planetary Science Letters</i> , 2012, 351-352, 247-257.	1.8	99

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37	Using overlapping sonobuoy data from the Ross Sea to construct a 2D deep crustal velocity model. <i>Marine Geophysical Researches</i> , 2012, 33, 17-32.	0.5	3
38	Quantifying the forces needed for the rapid change of Pacific plate motion at 6Ma. <i>Earth and Planetary Science Letters</i> , 2011, 307, 289-297.	1.8	53
39	Constraints on Jalisco Block Motion and Tectonics of the Guadalajara Triple Junction from 1998â€“2001 Campaign GPS Data. <i>Pure and Applied Geophysics</i> , 2011, 168, 1435-1447.	0.8	41
40	Double-difference Relocation of the Aftershocks of the TecomÃ¡jn, Colima, Mexico Earthquake of 22 January 2003. <i>Pure and Applied Geophysics</i> , 2011, 168, 1331-1338.	0.8	20
41	The 2010 M w 7.2 El Mayor-Cucapah Earthquake Sequence, Baja California, Mexico and Southernmost California, USA: Active Seismotectonics along the Mexican Pacific Margin. <i>Pure and Applied Geophysics</i> , 2011, 168, 1255-1277.	0.8	109
42	Submarine landslides along the Malacca Straitâ€“Mergui Basin shelf margin: Insights from sequenceâ€“stratigraphic analysis. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	10
43	Postspreading rifting in the Adare Basin, Antarctica: Regional tectonic consequences. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	1.0	38
44	Abyssal hill deflections at Pacificâ€“Antarctic ridgeâ€“transform intersections. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	1.0	8
45	Pulling plates apart. <i>Nature Geoscience</i> , 2009, 2, 541-542.	5.4	0
46	Slowing of India's convergence with Eurasia since 20 Ma and its implications for Tibetan mantle dynamics. <i>Tectonics</i> , 2009, 28, .	1.3	514
47	Vertical tectonics of the High Plateau region, Manihiki Plateau, Western Pacific, from seismic stratigraphy. <i>Marine Geophysical Researches</i> , 2008, 29, 13-26.	0.5	11
48	Revised Pacificâ€“Antarctic plate motions and geophysics of the Menard Fracture Zone. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	79
49	Correction to â€œHistory of the Cretaceous Osborn spreading centerâ€“. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	2
50	Isotope geochemistry and petrogenesis of peralkaline Middle Miocene ignimbrites from central Sonora: relationship with continental break-up and the birth of the Gulf of California. <i>Bulletin - Societe Geologique De France</i> , 2008, 179, 453-464.	0.9	7
51	History of the Cretaceous Osborn spreading center. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	39
52	A geodetic study of the 2003 January 22 TecomÃ¡jn, Colima, Mexico earthquake. <i>Geophysical Journal International</i> , 2007, 169, 389-406.	1.0	15
53	Continental breakup and sedimentary basin formation. <i>Eos</i> , 2006, 87, 528.	0.1	2
54	Extension in the western Ross Sea region-links between Adare Basin and Victoria Land Basin. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	41

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55	GEOCHEMISTRY: The Hawaiian-Emperor Bend: Older Than Expected. <i>Science</i> , 2006, 313, 1250-1251.	6.0	5
56	Constraints on the Timing of Extension in the Northern Basin, Ross Sea. , 2006, , 319-326.		19
57	Mapping variations in weight percent silica measured from multispectral thermal infrared imagery—Examples from the Hiller Mountains, Nevada, USA and Tres Virgenes-La Reforma, Baja California Sur, Mexico. <i>Remote Sensing of Environment</i> , 2005, 95, 273-289.	4.6	62
58	Crustal structure and rift flank uplift of the Adare Trough, Antarctica. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	1.0	19
59	Pacific-Antarctic-Australia motion and the formation of the Macquarie Plate. <i>Geophysical Journal International</i> , 2004, 157, 399-414.	1.0	243
60	Cenozoic reconstructions of the Australia-New Zealand-South Pacific sector of Antarctica. <i>Geophysical Monograph Series</i> , 2004, , 5-17.	0.1	46
61	Active deformation and shallow structure of the Wagner, Consag, and Delfin Basins, northern Gulf of California, Mexico. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	60
62	Cenozoic evolution of Neotethys and implications for the causes of plate motions. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	472
63	Three distinct types of hotspots in the Earth's mantle. <i>Earth and Planetary Science Letters</i> , 2003, 205, 295-308.	1.8	932
64	GEOPHYSICS: Hotspots Come Unstuck. <i>Science</i> , 2003, 301, 1059-1060.	6.0	4
65	Cenozoic volcanism and tectonics of the continental margins of the upper Delfin Basin, northeastern Baja California and western Sonora. , 2003, , .		9
66	Marine incursion synchronous with plate-boundary localization in the Gulf of California. <i>Geology</i> , 2003, 31, 23.	2.0	108
67	Pacific's North America plate motion and opening of the Upper Delfin basin, northern Gulf of California, Mexico. <i>Bulletin of the Geological Society of America</i> , 2003, 115, 1173.	1.6	122
68	Mid-Cretaceous tectonic evolution of the Tongareva triple junction in the southwestern Pacific Basin. <i>Geology</i> , 2002, 30, 67.	2.0	64
69	Rapid postseismic transients in subduction zones from continuous GPS. <i>Journal of Geophysical Research</i> , 2002, 107, ETG 10-1-ETG 10-10.	3.3	91
70	Evolution of the Malvinas Plate South of Africa. <i>Marine Geophysical Researches</i> , 2001, 22, 289-302.	0.5	24
71	Homogeneous vs heterogeneous subduction zone models: Coseismic and postseismic deformation. <i>Geophysical Research Letters</i> , 2001, 28, 4047-4050.	1.5	55
72	Slip kinematics and dynamics during and after the 1995 October 9Mw=8.0 Colima-Jalisco earthquake, Mexico, from GPS geodetic constraints. <i>Geophysical Journal International</i> , 2001, 146, 637-658.	1.0	66

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73	Rapid localization of Pacific-North America plate motion in the Gulf of California. <i>Geology</i> , 2001, 29, 459.	2.0	152
74	Fast paleogene motion of the pacific hotspots from revised global plate circuit constraints. <i>Geophysical Monograph Series</i> , 2000, , 359-375.	0.1	58
75	Mesozoic/Cenozoic tectonic events around Australia. <i>Geophysical Monograph Series</i> , 2000, , 161-188.	0.1	51
76	Cenozoic motion between East and West Antarctica. <i>Nature</i> , 2000, 404, 145-150.	13.7	270
77	Relation of the Puertecitos volcanic province, Baja California, Mexico, to development of the plate boundary in the Gulf of California. , 2000, , .		17
78	An age constraint on Gulf of California rifting from the Santa Rosalia basin, Baja California Sur, Mexico. <i>Bulletin of the Geological Society of America</i> , 2000, 112, 540-549.	1.6	64
79	Introduction to special issue: "The influence of plate interaction on post-Laramide magmatism and tectonics in Mexico". <i>Tectonophysics</i> , 2000, 318, vii-ix.	0.9	1
80	Morphology and origin of the Osborn Trough. <i>Journal of Geophysical Research</i> , 2000, 105, 13481-13489.	3.3	81
81	Structural controls on the continent-ocean transition in the northern Gulf of California. <i>Journal of Geophysical Research</i> , 2000, 105, 16251-16269.	3.3	44
82	The Tuff of San Felipe: an extensive middle Miocene pyroclastic flow deposit in Baja California, Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 1999, 93, 53-74.	0.8	28
83	Age and stratigraphic relationships of pre- and syn-rift volcanic deposits in the northern Puertecitos Volcanic Province, Baja California, Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 1999, 93, 1-30.	0.8	32
84	Evolution of the Australian-Antarctic discordance since Miocene time. <i>Journal of Geophysical Research</i> , 1999, 104, 4967-4981.	3.3	23
85	Late Miocene to Recent transtensional tectonics in the Sierra San Fermn, northeastern Baja California, Mexico. <i>Journal of Structural Geology</i> , 1998, 20, 1043-1063.	1.0	20
86	Pacific-North America Plate Tectonics of the Neogene Southwestern United States: An Update. <i>International Geology Review</i> , 1998, 40, 375-402.	1.1	645
87	Paleomagnetic evidence of localized vertical axis rotation during Neogene extension, Sierra San Fermn, northeastern Baja California, Mexico. <i>Journal of Geophysical Research</i> , 1998, 103, 2455-2470.	3.3	28
88	The tectonic history of the Tasman Sea: A puzzle with 13 pieces. <i>Journal of Geophysical Research</i> , 1998, 103, 12413-12433.	3.3	390
89	Pliocene volcanogenic sedimentation along an accommodation zone in northeastern Baja California: The Puertecitos Formation. , 1997, , .		5
90	Follow the roving hotspots. <i>Eos</i> , 1997, 78, 599.	0.1	1

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91	Compression directions in southern California (from Santa Barbara to Los Angeles Basin) obtained from borehole breakouts. <i>Journal of Geophysical Research</i> , 1997, 102, 4969-4983.	3.3	12
92	Using borehole breakouts to constrain the complete stress tensor: Results from the Sijan Deep Drilling Project and offshore Santa Maria Basin, California. <i>Journal of Geophysical Research</i> , 1997, 102, 10083-10100.	3.3	38
93	Compression directions north of the San Fernando Valley determined from borehole breakouts. <i>Geophysical Research Letters</i> , 1996, 23, 3365-3368.	1.5	10
94	Reply to S. P. Srivastava and W. R. Roest. <i>Marine Geophysical Researches</i> , 1996, 18, 595-595.	0.5	0
95	EARLY RIFT SEDIMENTATION AND STRUCTURE ALONG THE NE MARGIN OF BAJA CALIFORNIA. , 1996, , .		2
96	Asymmetric seafloor spreading and short ridge jumps in the Australian-Antarctic discordance. <i>Marine Geophysical Researches</i> , 1995, 17, 361-373.	0.5	11
97	Arc-rift transition volcanism in the Puertecitos Volcanic Province, northeastern Baja California, Mexico. <i>Bulletin of the Geological Society of America</i> , 1995, 107, 407-0424.	1.6	51
98	Anticipating the successor to Mexico's largest historical earthquake. <i>Eos</i> , 1995, 76, 413-413.	0.1	8
99	Testing the Porcupine Plate hypothesis. <i>Marine Geophysical Researches</i> , 1994, 16, 315-323.	0.5	4
100	Variations in ridge morphology and depth-age relationships on the Pacific-Antarctic Ridge. <i>Journal of Geophysical Research</i> , 1994, 99, 531-541.	3.3	27
101	Do microplates in subduction zones leave a geological record?. <i>Tectonics</i> , 1994, 13, 1472-1487.	1.3	136
102	Quantitative determination of uncertainties in seismic refraction prospecting. <i>Geophysics</i> , 1993, 58, 553-563.	1.4	8
103	Reply to Jurdy & Stefanick comment. <i>Geophysical Journal International</i> , 1992, 110, 215-217.	1.0	0
104	Miocene to recent structural development of an extensional accommodation zone, northeastern Baja California, Mexico. <i>Journal of Structural Geology</i> , 1990, 12, 315-328.	1.0	38
105	Pre-€Pliocene Extension around the Gulf of California and the transfer of Baja California to the Pacific Plate. <i>Tectonics</i> , 1989, 8, 99-115.	1.3	350
106	Sequence and geochronology of Miocene rocks adjacent to the main gulf escarpment: southern Valle Chico, Baja California Norte, Mexico. <i>Geofisica International</i> , 1989, 28, 851-896.	0.2	17
107	The Cenozoic and Late Cretaceous evolution of the Indian Ocean Basin: uncertainties in the reconstructed positions of the Indian, African and Antarctic plates. <i>Basin Research</i> , 1988, 1, 23-40.	1.3	62
108	Uncertainties and implications of the Late Cretaceous and Tertiary position of North America relative to the Farallon, Kula, and Pacific Plates. <i>Tectonics</i> , 1988, 7, 1339-1384.	1.3	260

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109	Continuation of a deep borehole stress measurement profile near the San Andreas Fault: 2. Hydraulic fracturing stress measurements at Black Butte, Mojave Desert, California. <i>Journal of Geophysical Research</i> , 1988, 93, 15196-15206.	3.3	18
110	Relative motions of hotspots in the Pacific, Atlantic and Indian Oceans since late Cretaceous time. <i>Nature</i> , 1987, 327, 587-591.	13.7	238
111	Revised history of early Tertiary plate motion in the south-west Pacific. <i>Nature</i> , 1987, 325, 495-499.	13.7	147
112	Hydraulic fracturing stress measurements at Yucca Mountain, Nevada, and relationship to the regional stress field. <i>Journal of Geophysical Research</i> , 1985, 90, 8691-8706.	3.3	102
113	A method for bounding uncertainties in combined plate reconstructions. <i>Journal of Geophysical Research</i> , 1985, 90, 12537-12544.	3.3	50
114	The configuration of the seismic zone and the downgoing slab in southern Peru. <i>Geophysical Research Letters</i> , 1984, 11, 38-41.	1.5	28
115	Microearthquake seismicity and active tectonics of northwestern Greece. <i>Earth and Planetary Science Letters</i> , 1983, 66, 279-288.	1.8	29
116	Some geometrical aspects of uncertainties in combined plate reconstructions. <i>Geology</i> , 1983, 11, 697.	2.0	66
117	Uncertainties in the relative positions of the Australia, Antarctica, Lord Howe, and Pacific Plates since the Late Cretaceous. <i>Journal of Geophysical Research</i> , 1982, 87, 4697-4714.	3.3	161
118	Subsurface Geometry of the San Andreas Fault in Southern California: Results from the Salton Seismic Imaging Project (SSIP) and Strong Ground Motion Expectations. <i>Bulletin of the Seismological Society of America</i> , 0, , .	1.1	18
119	Expedition 367 Preliminary Report: South China Sea Rifted Margin. <i>Preliminary Report</i> , 0, , .	0.0	8
120	Expedition 367/368 methods. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	18
121	Site U1499. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	6
122	Site U1500. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	10
123	Site U1502. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	5
124	Site U1504. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	4
125	COBBOOM: The Continental Breakup and Birth of Oceans Mission. <i>Scientific Drilling</i> , 0, 5, 13-25.	1.0	22
126	Site U1503. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	3