

# Seth Stein

## List of Publications by Year in descending order

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80  
papers

11,530  
citations

125106

35  
h-index

104191

69  
g-index

81  
all docs

81  
docs citations

81  
times ranked

7521  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of uncertain reference-frame motions in plate kinematic reconstructions: A theoretical appraisal. <i>Earth and Planetary Science Letters</i> , 2017, 458, 349-356.	1.8	4
2	Comparison of GPS, Seismological, and Geological Observations of Andean Mountain Building. <i>Geodynamic Series</i> , 2013, , 123-133.	0.1	4
3	Displacements, Strains and Rotations in the Central Andean Plate Boundary Zone. <i>Geodynamic Series</i> , 2013, , 135-144.	0.1	6
4	The Global Moment Rate Distribution within Plate Boundary Zones. <i>Geodynamic Series</i> , 2013, , 173-190.	0.1	13
5	The January 26, 2001 Bhuj Earthquake and the Diffuse Western Boundary of the Indian Plate. <i>Geodynamic Series</i> , 2013, , 243-254.	0.1	13
6	The 01/26/2001 Bhuj, India, Earthquake: Intraplate or Interplate?. <i>Geodynamic Series</i> , 2013, , 255-264.	0.1	2
7	On the Evolution of Motion Across Diffuse Plate Boundaries. <i>Geodynamic Series</i> , 2013, , 265-281.	0.1	0
8	A Dangling Slab, Amplified Arc Volcanism, Mantle Flow and Seismic Anisotropy in the Kamchatka Plate Corner. <i>Geodynamic Series</i> , 2013, , 295-324.	0.1	31
9	Crustal Shortening and Extension in the Central Andes: Insights from a Viscoelastic Model. <i>Geodynamic Series</i> , 2013, , 325-339.	0.1	10
10	Variations in Inelastic Failure of Subducting Continental Lithosphere and Tectonic Development: Australia-Banda Arc Convergence. <i>Geodynamic Series</i> , 2013, , 341-357.	0.1	0
11	Plate Tectonics as a Far- From- Equilibrium Self-Organized System. <i>Geodynamic Series</i> , 2013, , 411-425.	0.1	15
12	The Closed Upper-Mantle Circulation of Plate Tectonics. <i>Geodynamic Series</i> , 2013, , 359-410.	0.1	33
13	Space Geodetic Measurements of Plate Boundary Deformation in the Western U.S. Cordillera. <i>Geodynamic Series</i> , 2013, , 27-55.	0.1	5
14	Thermo-Mechanical Evolution of Oceanic Lithosphere: Implications for the Subduction Process and Deep Earthquakes. <i>Geophysical Monograph Series</i> , 2013, , 1-17.	0.1	30
15	Plate Boundary Zones: Concepts and Approaches. <i>Geodynamic Series</i> , 2013, , 1-26.	0.1	7
16	Heat Flow and Hydrothermal Circulation. <i>Geophysical Monograph Series</i> , 2013, , 425-445.	0.1	51
17	Why earthquake hazard maps often fail and what to do about it. <i>Tectonophysics</i> , 2012, 562-563, 1-25.	0.9	212
18	The size of the 2011 Tohoku earthquake need not have been a surprise. <i>Eos</i> , 2011, 92, 227-228.	0.1	57

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19	GPS for real-time earthquake source determination and tsunami warning systems. Journal of Geodesy, 2009, 83, 335-343.	1.6	115
20	Observations of ultra-long period normal modes from the 2004 Sumatra-Andaman earthquake. Physics of the Earth and Planetary Interiors, 2009, 175, 53-62.	0.7	31
21	Education, Outreach, and Marketing. Eos, 2007, 88, 39.	0.1	0
22	Approaches to continental intraplate earthquake issues. , 2007, , .		23
23	Rapid determination of earthquake magnitude using GPS for tsunami warning systems. Geophysical Research Letters, 2006, 33, .	1.5	198
24	PLEISTOCENE CHANGE FROM CONVERGENCE TO EXTENSION IN THE APENNINES AS A CONSEQUENCE OF ADRIA MICROPLATE MOTION. , 2006, , 21-34.		4
25	Speed and size of the Sumatra earthquake. Nature, 2005, 434, 581-582.	13.7	466
26	Earth's Free Oscillations Excited by the 26 December 2004 Sumatra-Andaman Earthquake. Science, 2005, 308, 1139-1144.	6.0	231
27	Tectonic implications of the GPS velocity field in the northern Adriatic region. Geophysical Research Letters, 2005, 32, .	1.5	154
28	Lithosphere, Energy Flows in. , 2004, , 663-669.		0
29	Mantle plumes: heat-flow near Iceland. Astronomy and Geophysics, 2003, 44, 1.08-1.10.	0.1	19
30	A 3-D geodynamic model of lateral crustal flow during Andean mountain building. Geophysical Research Letters, 2003, 30, .	1.5	38
31	Earthquake Mechanisms and Plate Tectonics. , 2003, , 731-742.		1
32	7 Earthquake mechanisms and plate tectonics. International Geophysics, 2002, , 69-78.	0.6	8
33	Consistency of geologic and geodetic displacements during Andean orogenesis. Geophysical Research Letters, 2002, 29, 29-1-29-4.	1.5	61
34	Implications of slab mineralogy for subduction dynamics. Physics of the Earth and Planetary Interiors, 2001, 127, 51-66.	0.7	79
35	Crustal shortening in the Andes: Why do GPS rates differ from geological rates?. Geophysical Research Letters, 2000, 27, 3005-3008.	1.5	62
36	Extraction of a lithospheric cooling signal from oceanwide geoid data. Earth and Planetary Science Letters, 1999, 174, 173-181.	1.8	30

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37	Effects of slab mineralogy on subduction rates. <i>Geophysical Research Letters</i> , 1999, 26, 119-122.	1.5	37
38	Decelerating Nazca-South America and Nazca-Pacific Plate motions. <i>Geophysical Research Letters</i> , 1999, 26, 3405-3408.	1.5	148
39	Estimation of intraplate strain accumulation in the New Madrid seismic zone from repeat GPS surveys. <i>Tectonics</i> , 1998, 17, 250-266.	1.3	23
40	Space Geodetic Observations of Nazca-South America Convergence Across the Central Andes. <i>Science</i> , 1998, 279, 358-362.	6.0	235
41	Constraints on present-day shortening rate across the central eastern Andes from GPS data. <i>Geophysical Research Letters</i> , 1997, 24, 1031-1034.	1.5	25
42	Estimation of lateral hydrothermal flow distance from spatial variations in oceanic heat flow. <i>Geophysical Research Letters</i> , 1997, 24, 2323-2326.	1.5	6
43	How rigid is the stable interior of the North American Plate?. <i>Geophysical Research Letters</i> , 1996, 23, 3035-3038.	1.5	71
44	Can the Okhotsk Plate be discriminated from the North American plate?. <i>Journal of Geophysical Research</i> , 1996, 101, 11305-11315.	3.3	274
45	Metastable mantle phase transformations and deep earthquakes in subducting oceanic lithosphere. <i>Reviews of Geophysics</i> , 1996, 34, 261-306.	9.0	505
46	Geoid data and thermal structure of the oceanic lithosphere. <i>Geophysical Research Letters</i> , 1995, 22, 1913-1916.	1.5	15
47	Constraints on hydrothermal heat flux through the oceanic lithosphere from global heat flow. <i>Journal of Geophysical Research</i> , 1994, 99, 3081-3095.	3.3	479
48	Estimation of oceanic hydrothermal heat flux from heat flow and depths of midocean ridge seismicity and magma chambers. <i>Geophysical Research Letters</i> , 1994, 21, 713-716.	1.5	37
49	Comparison of plate and asthenospheric flow models for the thermal evolution of oceanic lithosphere. <i>Geophysical Research Letters</i> , 1994, 21, 709-712.	1.5	28
50	Effect of recent revisions to the geomagnetic reversal time scale on estimates of current plate motions. <i>Geophysical Research Letters</i> , 1994, 21, 2191-2194.	1.5	2,961
51	Constraints on lithospheric thermal structure for the Indian Ocean from depth and heat flow data. <i>Geophysical Research Letters</i> , 1993, 20, 1095-1098.	1.5	20
52	A model for the motion of the Philippine Sea Plate consistent with NUVEL-1 and geological data. <i>Journal of Geophysical Research</i> , 1993, 98, 17941-17948.	3.3	1,082
53	Constraints on Pacific midplate swells from global depth-age and heat flow-age models. <i>Geophysical Monograph Series</i> , 1993, , 53-76.	0.1	31
54	Space geodesy and plate motions. <i>Geodynamic Series</i> , 1993, , 5-20.	0.1	26

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55	Seismic gaps and grizzly bears. <i>Nature</i> , 1992, 356, 387-388.	13.7	9
56	A model for the global variation in oceanic depth and heat flow with lithospheric age. <i>Nature</i> , 1992, 359, 123-129.	13.7	1,351
57	Present-day kinematics of the Rivera Plate and implications for tectonics in southwestern Mexico. <i>Journal of Geophysical Research</i> , 1990, 95, 21931-21948.	3.3	145
58	Resolution experiments for NW Pacific subduction zone tomography. <i>Geophysical Research Letters</i> , 1989, 16, 1097-1100.	1.5	48
59	Subduction zone thermal structure and mineralogy and their relationship to seismic wave reflections and conversions at the slab/mantle interface. <i>Journal of Geophysical Research</i> , 1989, 94, 753-763.	3.3	116
60	Rheological control of Wadati-Benioff zone seismicity. <i>Geophysical Research Letters</i> , 1988, 15, 1081-1084.	1.5	27
61	Statistical tests for closure of plate motion circuits. <i>Geophysical Research Letters</i> , 1987, 14, 587-590.	1.5	49
62	Why does near ridge extensional seismicity occur primarily in the Indian Ocean?. <i>Earth and Planetary Science Letters</i> , 1987, 82, 107-113.	1.8	15
63	The Nazca-South America convergence rate and the recurrence of the Great 1960 Chilean Earthquake. <i>Geophysical Research Letters</i> , 1986, 13, 713-716.	1.5	35
64	Depth determination for shallow teleseismic earthquakes: Methods and results. <i>Reviews of Geophysics</i> , 1986, 24, 806-832.	9.0	72
65	Plate tectonic models for Indian Ocean intraplate deformation. <i>Tectonophysics</i> , 1986, 132, 37-48.	0.9	79
66	A diffuse plate boundary model for Indian Ocean tectonics. <i>Geophysical Research Letters</i> , 1985, 12, 429-432.	1.5	205
67	Intraplate seismicity and stresses in young oceanic lithosphere. <i>Journal of Geophysical Research</i> , 1984, 89, 11442-11464.	3.3	189
68	Statistical tests of additional plate boundaries from plate motion inversions. <i>Earth and Planetary Science Letters</i> , 1984, 69, 401-412.	1.8	159
69	Age dependence of oceanic intraplate seismicity and implications for lithospheric evolution. <i>Journal of Geophysical Research</i> , 1983, 88, 6455-6468.	3.3	320
70	Analysis of split normal modes for the 1977 Indonesian earthquake. <i>Bulletin of the Seismological Society of America</i> , 1981, 71, 1031-1047.	1.1	9
71	Intraplate seismicity on bathymetric features: The 1968 Emperor Trough Earthquake. <i>Journal of Geophysical Research</i> , 1979, 84, 4763-4768.	3.3	36
72	Earthquakes along the passive margin of eastern Canada. <i>Geophysical Research Letters</i> , 1979, 6, 537-540.	1.5	130

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73	Time-domain attenuation measurements for fundamental spheroidal modes ( $S_6$ to $S_{28}$ ) for the 1977 Indonesian earthquake. <i>Bulletin of the Seismological Society of America</i> , 1979, 69, 1671-1691.	1.1	26
74	An earthquake swarm on the Chagos-Laccadive Ridge and its tectonic implications. <i>Geophysical Journal International</i> , 1978, 55, 577-588.	1.0	59
75	Seismicity and tectonics of the Ninetyeast Ridge Area: Evidence for internal deformation of the Indian Plate. <i>Journal of Geophysical Research</i> , 1978, 83, 2233-2245.	3.3	217
76	Amplitudes of the earth's split normal modes.. <i>Journal of Physics of the Earth</i> , 1977, 25, 117-142.	1.4	28
77	Tectonic Processes in the Eurasian-African Plate Boundary Zone Revealed by Space Geodesy. <i>Geodynamic Series</i> , 0, , 67-86.	0.1	11
78	Evidence for Block Rotations and Basal Shear in the World's Fastest Slipping Continental Shear Zone in Nw New Guinea. <i>Geodynamic Series</i> , 0, , 87-99.	0.1	12
79	Crustal Block Rotations and Plate Coupling. <i>Geodynamic Series</i> , 0, , 101-122.	0.1	110
80	Plate Tectonics and Earthquake Potential of Spreading Ridges and Oceanic Transform Faults. <i>Geodynamic Series</i> , 0, , 203-218.	0.1	56