

Seth Stein

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

9,660
citations

36
h-index

81
g-index

81
ext. papers

10,335
ext. citations

8.5
avg, IF

5.84
L-index

#	Paper	IF	Citations
80	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	4.9	2562
79	A model for the global variation in oceanic depth and heat flow with lithospheric age. <i>Nature</i> , 1992 , 359, 123-129	50.4	1142
78	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		903
77	Metastable mantle phase transformations and deep earthquakes in subducting oceanic lithosphere. <i>Reviews of Geophysics</i> , 1996 , 34, 261-306	23.1	414
76	Seismology: speed and size of the Sumatra earthquake. <i>Nature</i> , 2005 , 434, 581-2	50.4	392
75	Constraints on hydrothermal heat flux through the oceanic lithosphere from global heat flow. <i>Journal of Geophysical Research</i> , 1994 , 99, 3081-3095		390
74	Age dependence of oceanic intraplate seismicity and implications for lithospheric evolution. <i>Journal of Geophysical Research</i> , 1983 , 88, 6455		273
73	Can the Okhotsk Plate be discriminated from the North American plate?. <i>Journal of Geophysical Research</i> , 1996 , 101, 11305-11315		234
72	Space geodetic observations of nazca-south america convergence across the central andes. <i>Science</i> , 1998 , 279, 358-62	33.3	207
71	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		185
70	A diffuse plate boundary model for Indian Ocean tectonics. <i>Geophysical Research Letters</i> , 1985 , 12, 429-433	4.9	182
69	Earth's free oscillations excited by the 26 December 2004 Sumatra-Andaman earthquake. <i>Science</i> , 2005 , 308, 1139-44	33.3	178
68	Intraplate seismicity and stresses in young oceanic lithosphere. <i>Journal of Geophysical Research</i> , 1984 , 89, 11442-11464		170
67	Why earthquake hazard maps often fail and what to do about it. <i>Tectonophysics</i> , 2012 , 562-563, 1-25	3.1	152
66	Statistical tests of additional plate boundaries from plate motion inversions. <i>Earth and Planetary Science Letters</i> , 1984 , 69, 401-412	5.3	151
65	Rapid determination of earthquake magnitude using GPS for tsunami warning systems. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	148
64	Tectonic implications of the GPS velocity field in the northern Adriatic region. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	125

63	Decelerating Nazca-South America and Nazca-Pacific Plate motions. <i>Geophysical Research Letters</i> , 1999 , 26, 3405-3408	4.9	118
62	Present-day kinematics of the Rivera Plate and implications for tectonics in southwestern Mexico. <i>Journal of Geophysical Research</i> , 1990 , 95, 21931		114
61	Earthquakes along the passive margin of eastern Canada. <i>Geophysical Research Letters</i> , 1979 , 6, 537-540	4.9	111
60	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		104
59	GPS for real-time earthquake source determination and tsunami warning systems. <i>Journal of Geodesy</i> , 2009 , 83, 335-343	4.5	92
58	Implications of slab mineralogy for subduction dynamics. <i>Physics of the Earth and Planetary Interiors</i> , 2001 , 127, 51-66	2.3	73
57	Crustal Block Rotations and Plate Coupling. <i>Geodynamic Series</i> , 2013 , 101-122		69
56	How rigid is the stable interior of the North American Plate?. <i>Geophysical Research Letters</i> , 1996 , 23, 3035-3038	4.3	62
55	Depth determination for shallow teleseismic earthquakes: Methods and results. <i>Reviews of Geophysics</i> , 1986 , 24, 806	23.1	61
54	Crustal shortening in the Andes: Why do GPS rates differ from geological rates?. <i>Geophysical Research Letters</i> , 2000 , 27, 3005-3008	4.9	59
53	Plate tectonic models for Indian Ocean Intraplate Deformation. <i>Tectonophysics</i> , 1986 , 132, 37-48	3.1	58
52	Consistency of geologic and geodetic displacements during Andean orogenesis. <i>Geophysical Research Letters</i> , 2002 , 29, 29-1-29-4	4.9	55
51	An earthquake swarm on the Chagos-Laccadive Ridge and its tectonic implications. <i>Geophysical Journal International</i> , 1978 , 55, 577-588	2.6	55
50	Statistical tests for closure of plate motion circuits. <i>Geophysical Research Letters</i> , 1987 , 14, 587-590	4.9	49
49	The size of the 2011 Tohoku earthquake need not have been a surprise. <i>Eos</i> , 2011 , 92, 227-228	1.5	44
48	Resolution experiments for NW Pacific subduction zone tomography. <i>Geophysical Research Letters</i> , 1989 , 16, 1097-1100	4.9	42
47	Heat Flow and Hydrothermal Circulation. <i>Geophysical Monograph Series</i> , 2013 , 425-445	1.1	38
46	A 3-D geodynamic model of lateral crustal flow during Andean mountain building. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	37

45	Effects of slab mineralogy on subduction rates. <i>Geophysical Research Letters</i> , 1999 , 26, 119-122	4.9	36
44	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	4.9	35
43	Intraplate seismicity on bathymetric features: The 1968 Emperor Trough Earthquake. <i>Journal of Geophysical Research</i> , 1979 , 84, 4763		32
42	The Nazca-South America convergence rate and the recurrence of the Great 1960 Chilean Earthquake. <i>Geophysical Research Letters</i> , 1986 , 13, 713-716	4.9	30
41	Plate Tectonics and Earthquake Potential of Spreading Ridges and Oceanic Transform Faults. <i>Geodynamic Series</i> , 2013 , 203-218		29
40	A Dangling Slab, Amplified Arc Volcanism, Mantle Flow and Seismic Anisotropy in the Kamchatka Plate Corner. <i>Geodynamic Series</i> , 2013 , 295-324		26
39	Extraction of a lithospheric cooling signal from oceanwide geoid data. <i>Earth and Planetary Science Letters</i> , 1999 , 174, 173-181	5.3	25
38	Observations of ultra-long period normal modes from the 2004 Sumatra-Andaman earthquake. <i>Physics of the Earth and Planetary Interiors</i> , 2009 , 175, 53-62	2.3	24
37	Constraints on present-day shortening rate across the central eastern Andes from GPS data. <i>Geophysical Research Letters</i> , 1997 , 24, 1031-1034	4.9	24
36	Constraints on Pacific midplate swells from global depth-age and heat flow-age models. <i>Geophysical Monograph Series</i> , 1993 , 53-76	1.1	24
35	Rheological control of Wadati-Benioff zone seismicity. <i>Geophysical Research Letters</i> , 1988 , 15, 1081-1084	4.9	24
34	Amplitudes of the earth's split normal modes.. <i>Journal of Physics of the Earth</i> , 1977 , 25, 117-142		24
33	Thermo-Mechanical Evolution of Oceanic Lithosphere: Implications for the Subduction Process and Deep Earthquakes. <i>Geophysical Monograph Series</i> , 2013 , 1-17	1.1	23
32	Comparison of plate and asthenospheric flow models for the thermal evolution of oceanic lithosphere. <i>Geophysical Research Letters</i> , 1994 , 21, 709-712	4.9	23
31	Space geodesy and plate motions. <i>Geodynamic Series</i> , 1993 , 5-20		22
30	Time-domain attenuation measurements for fundamental spheroidal modes (0S6 to 0S28) for the 1977 Indonesian earthquake. <i>Bulletin of the Seismological Society of America</i> , 1979 , 69, 1671-1691	2.3	19
29	Constraints on lithospheric thermal structure for the Indian Ocean from depth and heat flow data. <i>Geophysical Research Letters</i> , 1993 , 20, 1095-1098	4.9	17
28	Mantle plumes: heat-flow near Iceland. <i>Astronomy and Geophysics</i> , 2003 , 44, 1.08-1.10	0.2	15

27	Geoid data and thermal structure of the oceanic lithosphere. <i>Geophysical Research Letters</i> , 1995 , 22, 1913-1916	4.3	15
26	Estimation of intraplate strain accumulation in the New Madrid seismic zone from repeat GPS surveys. <i>Tectonics</i> , 1998 , 17, 250-266	4.3	14
25	Why does near ridge extensional seismicity occur primarily in the Indian Ocean?. <i>Earth and Planetary Science Letters</i> , 1987 , 82, 107-113	5.3	14
24	The Closed Upper-Mantle Circulation of Plate Tectonics. <i>Geodynamic Series</i> , 2013 , 359-410		13
23	Approaches to continental intraplate earthquake issues 2007 ,		13
22	Plate Tectonics as a Far- From- Equilibrium Self-Organized System. <i>Geodynamic Series</i> , 2013 , 411-425		11
21	The Global Moment Rate Distribution within Plate Boundary Zones. <i>Geodynamic Series</i> , 2013 , 173-190		8
20	Evidence for Block Rotations and Basal Shear in the World's Fastest Slipping Continental Shear Zone in Nw New Guinea. <i>Geodynamic Series</i> , 2013 , 87-99		7
19	The January 26, 2001 Bhuj Earthquake and the Diffuse Western Boundary of the Indian Plate. <i>Geodynamic Series</i> , 2013 , 243-254		7
18	Analysis of split normal modes for the 1977 Indonesian earthquake. <i>Bulletin of the Seismological Society of America</i> , 1981 , 71, 1031-1047	2.3	7
17	Tectonic Processes in the Eurasian-African Plate Boundary Zone Revealed by Space Geodesy. <i>Geodynamic Series</i> , 2013 , 67-86		6
16	Crustal Shortening and Extension in the Central Andes: Insights from a Viscoelastic Model. <i>Geodynamic Series</i> , 2013 , 325-339		6
15	Estimation of lateral hydrothermal flow distance from spatial variations in oceanic heat flow. <i>Geophysical Research Letters</i> , 1997 , 24, 2323-2326	4.9	5
14	Space Geodetic Measurements of Plate Boundary Deformation in the Western U.S. Cordillera. <i>Geodynamic Series</i> , 2013 , 27-55		4
13	Plate Boundary Zones: Concepts and Approaches. <i>Geodynamic Series</i> , 2013 , 1-26		4
12	7 Earthquake mechanisms and plate tectonics. <i>International Geophysics</i> , 2002 , 69-78		4
11	PLEISTOCENE CHANGE FROM CONVERGENCE TO EXTENSION IN THE APENNINES AS A CONSEQUENCE OF ADRIA MICROPLATE MOTION 2006 , 21-34		4
10	Displacements, Strains and Rotations in the Central Andean Plate Boundary Zone. <i>Geodynamic Series</i> , 2013 , 135-144		3

9	Impact of uncertain reference-frame motions in plate kinematic reconstructions: A theoretical appraisal. <i>Earth and Planetary Science Letters</i> , 2017 , 458, 349-356	5.3	3
8	Comparison of GPS, Seismological, and Geological Observations of Andean Mountain Building. <i>Geodynamic Series</i> , 2013 , 123-133		2
7	The 01/26/2001 Bhuj, India, Earthquake: Intraplate or Interplate?. <i>Geodynamic Series</i> , 2013 , 255-264		1
6	Influence on Earthquake Distributions in Slabs from Bimaterial Shear Heating. <i>Geophysical Monograph Series</i> , 157-167	1.1	1
5	Earthquake Mechanisms and Plate Tectonics 2003 , 731-742		0
4	On the Evolution of Motion Across Diffuse Plate Boundaries. <i>Geodynamic Series</i> , 2013 , 265-281		
3	Variations in Inelastic Failure of Subducting Continental Lithosphere and Tectonic Development: Australia-Banda Arc Convergence. <i>Geodynamic Series</i> , 2013 , 341-357		
2	Education, outreach, and marketing. <i>Eos</i> , 2007 , 88, 39	1.5	
1	Lithosphere, Energy Flows in 2004 , 663-669		