Stephen S Gao

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109 2,710 31 48 g-index

135 3,090 4.7 5.27 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
109	SKS splitting beneath continental rift zones. <i>Journal of Geophysical Research</i> , 1997 , 102, 22781-22797		134
108	Southern African crustal evolution and composition: Constraints from receiver function studies. Journal of Geophysical Research, 2006, 111, n/a-n/a		120
107	Temporal variation of seismic b-values beneath northeastern Japan island arc. <i>Geophysical Research Letters</i> , 2002 , 29, 48-1-48-3	4.9	111
106	Seismic anisotropy and mantle flow beneath the Baikal rift zone. <i>Nature</i> , 1994 , 371, 149-151	50.4	107
105	Mantle deformation beneath southern Africa. <i>Geophysical Research Letters</i> , 2001 , 28, 2493-2496	4.9	95
104	Deep structure and origin of the Baikal rift zone. Earth and Planetary Science Letters, 2006, 243, 681-691	15.3	88
103	Upper mantle structure of the Saharan Metacraton. <i>Journal of African Earth Sciences</i> , 2011 , 60, 328-336	2.2	70
102	Shear wave splitting and mantle flow associated with the deflected Pacific slab beneath northeast Asia. <i>Journal of Geophysical Research</i> , 2008 , 113,		70
101	Low seismic velocity layers in the Earth's crust beneath Eastern Siberia (Russia) and Central Mongolia: receiver function data and their possible geological implication. <i>Tectonophysics</i> , 2002 , 359, 307-327	3.1	69
100	Asymmetric upwarp of the asthenosphere beneath the Baikal rift zone, Siberia. <i>Journal of Geophysical Research</i> , 1994 , 99, 15319		67
99	Northridge earthquake damage caused by geologic focusing of seismic waves. <i>Science</i> , 2000 , 289, 1746-	- 50 .3	66
98	Mantle transition zone discontinuities beneath the contiguous United States. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 6452-6468	3.6	61
97	Seismic anisotropy, mantle fabric, and the magmatic evolution of Precambrian southern Africa. <i>South African Journal of Geology</i> , 2004 , 107, 45-58	1.6	57
96	Determining crustal structure beneath seismic stations overlying a low-velocity sedimentary layer using receiver functions. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 3208-3218	3.6	56
95	Evidence for small-scale mantle convection in the upper mantle beneath the Baikal rift zone. Journal of Geophysical Research, 2003, 108,		56
94	Annual modulation of triggered seismicity following the 1992 Landers earthquake in California. <i>Nature</i> , 2000 , 406, 500-4	50.4	52
93	Seismic anisotropy beneath the Afar Depression and adjacent areas: Implications for mantle flow. <i>Journal of Geophysical Research</i> , 2010 , 115,		49

92	Mantle layering across central South America. Journal of Geophysical Research, 2003, 108,		48
91	Mantle discontinuities beneath Southern Africa. <i>Geophysical Research Letters</i> , 2002 , 29, 129-1-129-4	4.9	48
90	Making Reliable Shear-Wave Splitting Measurements. <i>Bulletin of the Seismological Society of America</i> , 2013 , 103, 2680-2693	2.3	47
89	Significant seismic anisotropy beneath the southern Lhasa Terrane, Tibetan Plateau. <i>Geochemistry, Geophysics, Geosystems</i> , 2009 , 10, n/a-n/a	3.6	47
88	Crustal anisotropy and ductile flow beneath the eastern Tibetan Plateau and adjacent areas. <i>Earth and Planetary Science Letters</i> , 2016 , 442, 72-79	5.3	45
87	Spatial variations of crustal characteristics beneath the Hoggar swell, Algeria, revealed by systematic analyses of receiver functions from a single seismic station. <i>Geochemistry, Geophysics, Geosystems</i> , 2010 , 11, n/a-n/a	3.6	44
86	Magnetic stripes of a transitional continental rift in Afar. <i>Geology</i> , 2012 , 40, 203-206	5	41
85	Spatial variation of seismic b-values beneath Makushin Volcano, Unalaska Island, Alaska. <i>Earth and Planetary Science Letters</i> , 2006 , 245, 408-415	5.3	41
84	SKS splitting beneath southern California. <i>Geophysical Research Letters</i> , 1995 , 22, 767-770	4.9	40
83	Significant crustal thinning beneath the Baikal rift zone: New constraints from receiver function analysis. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	39
82	Complex seismic anisotropy beneath western Tibet and its geodynamic implications. <i>Earth and Planetary Science Letters</i> , 2015 , 413, 167-175	5.3	36
81	Seismic azimuthal anisotropy beneath the eastern United States and its geodynamic implications. <i>Geophysical Research Letters</i> , 2017 , 44, 2670-2678	4.9	35
8o	Imaging mantle discontinuities using multiply-reflected P-to-S conversions. <i>Earth and Planetary Science Letters</i> , 2014 , 402, 99-106	5.3	34
79	A uniform database of teleseismic shear wave splitting measurements for the western and central United States. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 2075-2085	3.6	34
78	Receiver function constraints on crustal seismic velocities and partial melting beneath the Red Sea rift and adjacent regions, Afar Depression. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 2138-	316 2152	30
77	Formation of the Cameroon Volcanic Line by lithospheric basal erosion: Insight from mantle seismic anisotropy. <i>Journal of African Earth Sciences</i> , 2014 , 100, 96-108	2.2	29
76	Apparent Weekly and Daily Earthquake Periodicities in the Western United States. <i>Bulletin of the Seismological Society of America</i> , 2009 , 99, 2273-2279	2.3	29
75	Mantle flow and lithospherellsthenosphere coupling beneath the southwestern edge of the North American craton: Constraints from shear-wave splitting measurements. <i>Earth and Planetary Science Letters</i> , 2014 , 402, 209-220	5.3	28

74	Analysis of deformation data at Parkfield, California: Detection of a long-term strain transient. Journal of Geophysical Research, 2000 , 105, 2955-2967		28
73	Estimation of the Depth of Anisotropy Using Spatial Coherency of Shear-Wave Splitting Parameters. <i>Bulletin of the Seismological Society of America</i> , 2011 , 101, 2153-2161	2.3	26
72	Lithospheric layering beneath the contiguous United States constrained by S-to-P receiver functions. <i>Earth and Planetary Science Letters</i> , 2018 , 495, 79-86	5.3	26
71	Seismic anisotropy and mantle flow beneath the northern Great Plains of North America. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 1971-1985	3.6	23
70	Crustal structure and evolution beneath the Colorado Plateau and the southern Basin and Range Province: Results from receiver function and gravity studies. <i>Geochemistry, Geophysics, Geosystems</i> , 2011 , 12, n/a-n/a	3.6	23
69	Seismic anisotropy of the uppermost mantle beneath the Rio Grande rift: Evidence from Kilbourne Hole peridotite xenoliths, New Mexico. <i>Earth and Planetary Science Letters</i> , 2011 , 311, 172-181	5.3	22
68	Mantle transition zone discontinuities beneath the Baikal rift and adjacent areas. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		22
67	Mantle transition zone discontinuities beneath the Indochina Peninsula: Implications for slab subduction and mantle upwelling. <i>Geophysical Research Letters</i> , 2017 , 44, 7159-7167	4.9	21
66	Seismic anisotropy beneath the incipient Okavango rift: Implications for rifting initiation. <i>Earth and Planetary Science Letters</i> , 2015 , 430, 1-8	5.3	19
65	Shear wave splitting analyses in Tian Shan: Geodynamic implications of complex seismic anisotropy. <i>Geochemistry, Geophysics, Geosystems</i> , 2016 , 17, 1975-1989	3.6	19
64	No thermal anomalies in the mantle transition zone beneath an incipient continental rift: evidence from the first receiver function study across the Okavango Rift Zone, Botswana. <i>Geophysical Journal International</i> , 2015 , 202, 1407-1418	2.6	19
63	A joint receiver function and gravity study of crustal structure beneath the incipient Okavango Rift, Botswana. <i>Geophysical Research Letters</i> , 2015 , 42, 8398-8405	4.9	19
62	Characteristics of mantle fabrics beneath the south-central United States: Constraints from shear-wave splitting measurements 2008 , 4, 411		19
61	Crustal Azimuthal Anisotropy Beneath the Southeastern Tibetan Plateau and its Geodynamic Implications. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 9733-9749	3.6	19
60	Seismic anisotropy and subduction-induced mantle fabrics beneath the Arabian and Nubian Plates adjacent to the Red Sea. <i>Geophysical Research Letters</i> , 2014 , 41, 2376-2381	4.9	18
59	AnisDep: A FORTRAN program for the estimation of the depth of anisotropy using spatial coherency of shear-wave splitting parameters. <i>Computers and Geosciences</i> , 2012 , 49, 330-333	4.5	18
58	Seismic imaging of mantle transition zone discontinuities beneath the northern Red Sea and adjacent areas. <i>Geophysical Journal International</i> , 2014 , 199, 648-657	2.6	17
57	Seismic Arrays to Study African Rift Initiation. <i>Eos</i> , 2013 , 94, 213-214	1.5	17

56	Seismic anisotropy and mantle dynamics beneath the Malawi Rift Zone, East Africa. <i>Tectonics</i> , 2017 , 36, 1338-1351	4.3	16
55	Azimuthal anisotropy and mantle flow underneath the southeastern Tibetan Plateau and northern Indochina Peninsula revealed by shear wave splitting analyses. <i>Tectonophysics</i> , 2018 , 747-748, 68-78	3.1	16
54	Evolution of the broadly rifted zone in southern Ethiopia through gravitational collapse and extension of dynamic topography. <i>Tectonophysics</i> , 2017 , 699, 213-226	3.1	15
53	Passive rifting of thick lithosphere in the southern East African Rift: Evidence from mantle transition zone discontinuity topography. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 8068-8	∂ 7 9	15
52	The mantle transition zone beneath the Afar Depression and adjacent regions: implications for mantle plumes and hydration. <i>Geophysical Journal International</i> , 2016 , 205, 1756-1766	2.6	15
51	Mantle structure beneath the incipient Okavango rift zone in southern Africa 2017 , 13, 102-111		14
50	Receiver function and gravity constraints on crustal structure and vertical movements of the Upper Mississippi Embayment and Ozark Uplift. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 4572-45	3 83	13
49	A Uniform Database of Teleseismic Shear-Wave Splitting Measurements for the Western and Central United States: December 2014 Update. <i>Seismological Research Letters</i> , 2016 , 87, 295-300	3	13
48	Topography of the Mantle Transition Zone Discontinuities Beneath Alaska and Its Geodynamic Implications: Constraints From Receiver Function Stacking. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 10,352-10,363	3.6	12
47	Characteristics of the Mantle Flow System Beneath the Indochina Peninsula Revealed by Teleseismic Shear Wave Splitting Analysis. <i>Geochemistry, Geophysics, Geosystems</i> , 2018 , 19, 1519-1532	3.6	11
46	Crustal structure beneath the Malawi and Luangwa Rift Zones and adjacent areas from ambient noise tomography. <i>Gondwana Research</i> , 2019 , 67, 187-198	5.1	11
45	Toroidal Mantle Flow Induced by Slab Subduction and Rollback Beneath the Eastern Himalayan Syntaxis and Adjacent Areas. <i>Geophysical Research Letters</i> , 2019 , 46, 11080-11090	4.9	10
44	Azimuthal anisotropy beneath north central Africa from shear wave splitting analyses. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 1105-1114	3.6	10
43	Crustal thickness and Moho sharpness beneath the Midcontinent rift from receiver functions. <i>Research in Geophysics</i> , 2013 , 3, 1		10
42	Absence of thermal influence from the African Superswell and cratonic keels on the mantle transition zone beneath southern Africa: Evidence from receiver function imaging. <i>Earth and Planetary Science Letters</i> , 2018 , 503, 108-117	5.3	10
41	Seismic Anisotropy and Mantle Flow in the Sumatra Subduction Zone Constrained by Shear Wave Splitting and Receiver Function Analyses. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2019GC0087	3.6 86	8
40	Applicability of the Multiple-Event Stacking Technique for Shear-Wave Splitting Analysis. <i>Bulletin of the Seismological Society of America</i> , 2015 , 105, 3156-3166	2.3	8
39	Lateral variations of crustal structure beneath the Indochina Peninsula. <i>Tectonophysics</i> , 2017 , 712-713, 193-199	3.1	7

38	A Systematic Comparison of the Transverse Energy Minimization and Splitting Intensity Techniques for Measuring Shear-Wave Splitting Parameters. <i>Bulletin of the Seismological Society of America</i> , 2015 , 105, 230-239	2.3	7
37	Low-coherent WDM reflectometry for accurate fiber length monitoring. <i>IEEE Photonics Technology Letters</i> , 2003 , 15, 96-98	2.2	7
36	Reply [to Comment on BKS splitting beneath continental rifts zonesDby Gao et al.] <i>Journal of Geophysical Research</i> , 1999 , 104, 10791-10794		7
35	Upper mantle and mantle transition zone thermal and water content anomalies beneath NE Asia: Constraints from receiver function imaging of the 410 and 660 km discontinuities. <i>Earth and Planetary Science Letters</i> , 2020 , 532, 116040	5.3	7
34	Slab Dehydration and Mantle Upwelling in the Vicinity of the Sumatra Subduction Zone: Evidence from Receiver Function Imaging of Mantle Transition Zone Discontinuities. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2020JB019381	3.6	7
33	Receiver Function Imaging of Mantle Transition Zone Discontinuities Beneath the Tanzania Craton and Adjacent Segments of the East African Rift System. <i>Geophysical Research Letters</i> , 2017 , 44, 12,116	4.9	6
32	Foundered lithospheric segments dropped into the mantle transition zone beneath southern California, USA. <i>Geology</i> , 2020 , 48, 200-204	5	5
31	Crustal Azimuthal Anisotropy Beneath the Central North China Craton Revealed by Receiver Functions. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 2235	3.6	4
30	Mantle Structure and Flow Beneath an Early-Stage Continental Rift: Constraints From P Wave Anisotropic Tomography. <i>Tectonics</i> , 2020 , 39, e2019TC005590	4.3	4
29	Crustal modifications beneath the central Sunda plate associated with the Indo-Australian subduction and the evolution of the South China Sea. <i>Physics of the Earth and Planetary Interiors</i> , 2020 , 306, 106539	2.3	3
28	Lithospheric Structure and Evolution of Southern Africa: Constraints From Joint Inversion of Rayleigh Wave Dispersion and Receiver Functions. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 331	1 ³ 3327	, 3
27	Spatial Variations of Upper Crustal Anisotropy Along the San Jacinto Fault Zone in Southern California: Constraints From Shear Wave Splitting Analysis. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB020876	3.6	3
26	A Database of Shear-Wave Splitting Measurements for the Arabian Plate. <i>Seismological Research Letters</i> , 2018 , 89, 2294-2298	3	3
25	Characterization of a Continuous, Very Narrowband Seismic Signal near 2.08 Hz. <i>Bulletin of the Seismological Society of America</i> , 2001 , 91, 1910-1916	2.3	2
24	Seismic Anisotropy and Mantle Deformation Beneath the Central Sunda Plate. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB021259	3.6	2
23	Crustal structure beneath the Ethiopian Plateau and adjacent areas from receiver functions: Implications for partial melting and magmatic underplating. <i>Tectonophysics</i> , 2021 , 809, 228857	3.1	2
22	A systematic investigation of piercing-point-dependent seismic azimuthal anisotropy. <i>Geophysical Journal International</i> , 2021 , 227, 1496-1511	2.6	2
21	Integrated geologic, geophysical, and petrophysical data to construct full field geologic model of Cambrian-Ordovician and Upper Cretaceous reservoir formations, Central Western Sirte Basin, Libya. <i>Interpretation</i> , 2019 , 7, T21-T37	1.4	2

20	Receiver function investigation of crustal structure in the Malawi and Luangwa rift zones and adjacent areas. <i>Gondwana Research</i> , 2021 , 89, 168-176	5.1	2
19	Receiver Function Investigations of Seismic Anisotropy Layering Beneath Southern California. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 10,672	3.6	2
18	Mantle Flow in the Vicinity of the Eastern Edge of the Pacific-Yakutat Slab: Constraints From Shear Wave Splitting Analyses. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2021JB022354	3.6	2
17	Crustal azimuthal anisotropy and deformation beneath the northeastern Tibetan Plateau and adjacent areas: Insights from receiver function analysis. <i>Tectonophysics</i> , 2021 , 816, 229014	3.1	2
16	Fault visualization enhancement using ant tracking technique and its application in the Taranaki basin, new Zealand 2017 ,		1
15	Seismic attributes aided fault detection and enhancement in the Sirte Basin, Libya 2017,		1
14	High-accuracy practical spline-based 3D and 2D integral transformations in potential-field geophysics. <i>Geophysical Prospecting</i> , 2012 , 60, 1001-1016	1.9	1
13	Seafloor asymmetry in the Atlantic Ocean. <i>Journal of Ocean University of China</i> , 2004 , 3, 191-194	1	1
12	Receiver function imaging of the 410 and 660lkm discontinuities beneath the Australian continent. <i>Geophysical Journal International</i> , 2020 , 220, 1481-1490	2.6	1
11	Prestack simultaneous inversion for delineation of the Lower Wilcox erosional remnant sandstone beneath the Texas Gulf Coastal Plain: A case study. <i>Interpretation</i> , 2020 , 8, T991-T1005	1.4	1
10	Teleseismic P-Wave Attenuation Beneath the Southeastern United States. <i>Geochemistry, Geophysics, Geosystems</i> , 2021 , 22, e2021GC009715	3.6	1
9	A full field static model of the RG-oil field, central Sirte Basin, Libya 2016 ,		1
8	Seismic Anisotropy and Mantle Flow Constrained by Shear Wave Splitting in Central Myanmar. Journal of Geophysical Research: Solid Earth, 2021 , 126, e2021JB022144	3.6	1
7	Layered mantle heterogeneities associated with post-subducted slab segments. <i>Earth and Planetary Science Letters</i> , 2021 , 571, 117115	5.3	1
6	Continental Break-Up Under a Convergent Setting: Insights From P Wave Radial Anisotropy Tomography of the Woodlark Rift in Papua New Guinea. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	1
5	Topography of the 410 and 660lkm Discontinuities Beneath the Cenozoic Okavango Rift Zone and Adjacent Precambrian Provinces. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2019JB0192	9g ^{.6}	O
4	Crustal P-wave velocity structure and earthquake distribution in the Jiaodong Peninsula, China. <i>Tectonophysics</i> , 2021 , 814, 228973	3.1	О
3	Tectonics of the incipient continental rifting. Acta Geologica Sinica, 2019, 93, 99-100	0.7	

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