

Xiaodong Song

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77 papers	2,975 citations	28 h-index	53 g-index
87 ext. papers	3,566 ext. citations	5.6 avg, IF	5.46 L-index

#	Paper	IF	Citations
77	Seismological evidence for differential rotation of the Earth's inner core. <i>Nature</i> , 1996 , 382, 221-224	50.4	348
76	Tomographic inversion of Pn travel times in China. <i>Journal of Geophysical Research</i> , 2004 , 109,		138
75	Two crustal low-velocity channels beneath SE Tibet revealed by joint inversion of Rayleigh wave dispersion and receiver functions. <i>Earth and Planetary Science Letters</i> , 2015 , 415, 16-24	5.3	132
74	High-resolution lithospheric structure beneath Mainland China from ambient noise and earthquake surface-wave tomography. <i>Earth and Planetary Science Letters</i> , 2015 , 417, 132-141	5.3	124
73	Depth dependence of anisotropy of Earth's inner core. <i>Journal of Geophysical Research</i> , 1995 , 100, 9805-9816		123
72	Seismic evidence for an inner core transition zone. <i>Science</i> , 1998 , 282, 924-7	33.3	114
71	Anisotropy of the Earth's inner core. <i>Reviews of Geophysics</i> , 1997 , 35, 297-313	23.1	108
70	A low velocity belt beneath northern and eastern Tibetan Plateau from Pn tomography. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	107
69	Inner core differential motion confirmed by earthquake waveform doublets. <i>Science</i> , 2005 , 309, 1357-60	33.3	106
68	Surface wave tomography of China from ambient seismic noise correlation. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	97
67	anisotropy of Earth's inner core. <i>Geophysical Research Letters</i> , 1993 , 20, 2591-2594	4.9	90
66	Crust and upper mantle structure of the North China Craton and the NE Tibetan Plateau and its tectonic implications. <i>Earth and Planetary Science Letters</i> , 2013 , 369-370, 129-137	5.3	89
65	Joint Vp and Vs tomography of Taiwan: Implications for subduction-collision orogeny. <i>Earth and Planetary Science Letters</i> , 2014 , 392, 177-191	5.3	85
64	Equatorial anisotropy in the inner part of Earth's inner core from autocorrelation of earthquake coda. <i>Nature Geoscience</i> , 2015 , 8, 224-227	18.3	73
63	Velocity structure near the inner core boundary from waveform modeling. <i>Journal of Geophysical Research</i> , 1992 , 97, 6573		72
62	Joint inversion for inner core rotation, inner core anisotropy, and mantle heterogeneity. <i>Journal of Geophysical Research</i> , 2000 , 105, 7931-7943		71
61	A P wave velocity model of Earth's core. <i>Journal of Geophysical Research</i> , 1995 , 100, 9817-9830		69

60	Tearing of Indian mantle lithosphere from high-resolution seismic images and its implications for lithosphere coupling in southern Tibet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 8296-8300	11.5	52
59	Three dimensional shear wave velocity structure of the crust and upper mantle beneath China from ambient noise surface wave tomography. <i>Earthquake Science</i> , 2010 , 23, 449-463	1.5	48
58	Tomographic inversion for three-dimensional anisotropy of Earth's inner core. <i>Physics of the Earth and Planetary Interiors</i> , 2008 , 167, 53-70	2.3	48
57	Crustal structure beneath SE Tibet from joint analysis of receiver functions and Rayleigh wave dispersion. <i>Geophysical Research Letters</i> , 2014 , 41, 1479-1484	4.9	44
56	Anisotropy in central part of inner core. <i>Journal of Geophysical Research</i> , 1996 , 101, 16089-16097		40
55	Effect of velocity structure in D? on PKP phases. <i>Geophysical Research Letters</i> , 1993 , 20, 285-288	4.9	39
54	Impacts of climate warming on alpine glacier tourism and adaptive measures: A case study of Baishui Glacier No. 1 in Yulong Snow Mountain, Southwestern China. <i>Journal of Earth Science (Wuhan, China)</i> , 2010 , 21, 166-178	2.2	35
53	Crustal and uppermost mantle velocity structure beneath northwestern China from seismic ambient noise tomography. <i>Geophysical Journal International</i> , 2012 , 188, 131-143	2.6	34
52	Inner Core Transition Zone and Anomalous PKP(DF) Waveforms from Polar Paths. <i>Geophysical Research Letters</i> , 2002 , 29, 1-1	4.9	32
51	Support for differential inner core superrotation from earthquakes in Alaska recorded at South Pole station. <i>Journal of Geophysical Research</i> , 2000 , 105, 623-630		32
50	Joint inversion for crustal and Pn velocities and Moho depth in Eastern Margin of the Tibetan Plateau. <i>Tectonophysics</i> , 2010 , 491, 185-193	3.1	31
49	Seismic Imaging of Lithosphere Structure and Upper Mantle Deformation Beneath East-Central China and Their Tectonic Implications. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 2856-2870 ^{3.6}		28
48	Temporal changes of surface wave velocity associated with major Sumatra earthquakes from ambient noise correlation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 14207-12	11.5	28
47	The inner inner core of the Earth: Texturing of iron crystals from three-dimensional seismic anisotropy. <i>Earth and Planetary Science Letters</i> , 2008 , 269, 56-65	5.3	28
46	Episodic Lithospheric Deformation in Eastern Tibet Inferred From Seismic Anisotropy. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085721	4.9	25
45	Shale gas potential of the Lower Permian Gufeng Formation in the western area of the Lower Yangtze Platform, China. <i>Marine and Petroleum Geology</i> , 2015 , 67, 526-543	4.7	23
44	Crustal and uppermost mantle S velocity structure under Hi-CLIMB seismic array in central Tibetan Plateau from joint inversion of surface wave dispersion and receiver function data. <i>Tectonophysics</i> , 2013 , 584, 209-220	3.1	23
43	Lithospheric structure in the Cathaysia block (South China) and its implication for the Late Mesozoic magmatism. <i>Physics of the Earth and Planetary Interiors</i> , 2019 , 291, 24-34	2.3	21

42	Joint Inversion of Surface Wave Dispersions and Receiver Functions with P Velocity Constraints: Application to Southeastern Tibet. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 7291-7310	3.6	21
41	Investigating the lithospheric velocity structures beneath the Taiwan region by nonlinear joint inversion of local and teleseismic P wave data: Slab continuity and deflection. <i>Geophysical Research Letters</i> , 2014 , 41, 6350-6357	4.9	20
40	Crustal and Uppermost Mantle Structure Across the Tibet-Qinling Transition Zone in NE Tibet: Implications for Material Extrusion Beneath the Tibetan Plateau. <i>Geophysical Research Letters</i> , 2017 , 44, 10,316-10,323	4.9	19
39	Joint Inversion for Lithospheric Structures: Implications for the Growth and Deformation in Northeastern Tibetan Plateau. <i>Geophysical Research Letters</i> , 2018 , 45, 3951-3958	4.9	19
38	Evidence for a chemical-thermal structure at base of mantle from sharp lateral P-wave variations beneath Central America. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 26-30	11.5	19
37	Comment on "The existence of an inner core super-rotation questioned by teleseismic doublets" by Georges Poupinet, Annie Souriau, and Olivier Coutant. <i>Physics of the Earth and Planetary Interiors</i> , 2001 , 124, 269-273	2.3	19
36	First local seismic tomography for Red River shear zone, northern Vietnam: Stepwise inversion employing crustal P and Pn waves. <i>Tectonophysics</i> , 2013 , 584, 230-239	3.1	17
35	Topography of Earth's inner core boundary from high-quality waveform doublets. <i>Geophysical Journal International</i> , 2008 , 175, 386-399	2.6	17
34	Inner core rotation from event-pair analysis. <i>Earth and Planetary Science Letters</i> , 2007 , 261, 259-266	5.3	17
33	PKP travel times at near antipodal distances: implications for inner core anisotropy and lowermost mantle structure. <i>Earth and Planetary Science Letters</i> , 2002 , 199, 429-445	5.3	17
32	Inner core rotation and its variability from nonparametric modeling. <i>Journal of Geophysical Research</i> , 2010 , 115,		16
31	PKP differential travel times: Implications for 3-D lower mantle structure. <i>Geophysical Research Letters</i> , 1997 , 24, 1863-1866	4.9	15
30	Extraction of triplicated PKP phases from noise correlations. <i>Geophysical Journal International</i> , 2016 , 205, 499-508	2.6	15
29	Time dependence of PKP(BC)/PKP(DF) times: could this be an artifact of systematic earthquake mislocations?. <i>Physics of the Earth and Planetary Interiors</i> , 2000 , 122, 221-228	2.3	14
28	Detecting Possible Rotation of Earth's Inner Core 1998 , 282, 1227a-1227		14
27	Evidence for inner core super-rotation from time-dependent differential PKP traveltimes observed at Beijing Seismic Network. <i>Geophysical Journal International</i> , 2003 , 152, 509-514	2.6	13
26	A Generalized H-Method With Harmonic Corrections on Ps and Its Crustal Multiples in Receiver Functions. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 3782-3801	3.6	12
25	Two-dimensional/three-dimensional waveform modeling of subducting slab and transition zone beneath Northeast Asia. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 4766-4786	3.6	12

24	Shear velocity structure of crust and uppermost mantle in China from surface wave tomography using ambient noise and earthquake data. <i>Earthquake Science</i> , 2013 , 26, 267-281	1.5	12
23	Detection of motion and heterogeneity in Earth's liquid outer core. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	11
22	Crustal melting beneath orogenic plateaus: Insights from 3-D thermo-mechanical modeling. <i>Tectonophysics</i> , 2019 , 761, 1-15	3.1	10
21	Insights into mantle structure and flow beneath Alaska based on a decade of observations of shear wave splitting. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 8366-8377	3.6	10
20	Ambient noise surface wave tomography of marginal seas in east Asia. <i>Earth and Planetary Physics</i> , 2017 , 1, 13-25	1.6	10
19	Support for equatorial anisotropy of Earth's inner-inner core from seismic interferometry at low latitudes. <i>Physics of the Earth and Planetary Interiors</i> , 2018 , 276, 247-257	2.3	9
18	Three-dimensional structure and differential rotation of the inner core. <i>Geodynamic Series</i> , 2003 , 45-63		9
17	Origin of temporal changes of inner-core seismic waves. <i>Earth and Planetary Science Letters</i> , 2020 , 541, 116267	5.3	8
16	Examination of systematic mislocation of South Sandwich Islands earthquakes using station pairs: Implications for inner core rotation. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		7
15	Pn tomography of South China Sea, Taiwan Island, Philippine archipelago, and adjacent regions. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 1350-1366	3.6	5
14	Localized temporal variation of Earth's inner-core boundary from high-quality waveform doublets. <i>Earthquake Science</i> , 2015 , 28, 175-185	1.5	5
13	Rayleigh Wave Attenuation Tomography in the Crust of the Chinese Mainland. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2020GC008971	3.6	4
12	Temporal Changes of the Inner Core From Globally Distributed Repeating Earthquakes. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2019JB018652	3.6	4
11	Predicting a Global Perovskite and Post-Perovskite Phase Boundary. <i>Geophysical Monograph Series</i> , 2007 , 155-170	1.1	2
10	Crustal thickness (H) and Vp/Vs ratio (μ) images beneath the central Tien Shan revealed by the H- μ method. <i>Tectonophysics</i> , 2022 , 822, 229157	3.1	2
9	Application of temporal reweighting to ambient noise cross-correlation for improved seismic Green's function. <i>Geophysical Journal International</i> , 2020 , 221, 265-272	2.6	2
8	Preface to the special issue on ambient noise seismology. <i>Earthquake Science</i> , 2010 , 23, 395-396	1.5	1
7	56 The Earth's core. <i>International Geophysics</i> , 2002 , 925-933		1

- 6 Strong Seasonal Variations of Seismic Velocity in Eastern Margin of Tibetan Plateau and Sichuan Basin From Ambient Noise Interferometry. *Journal of Geophysical Research: Solid Earth*, **2021**, 126, e2021JB022600
- 5 Reply to Yao et al.'s comment on Origin of temporal changes of inner-core seismic waves. *Earth and Planetary Science Letters*, **2021**, 553, 116639
- 4 Amplitude and decay of long-period coda of great earthquakes. *Physics of the Earth and Planetary Interiors*, **2020**, 306, 106538
- 3 Ambient noise Love wave tomography of China. *Earth and Planetary Physics*, **2019**, 3, 218-231
- 2 Seismic imaging of lithospheric structure and upper mantle deformation beneath east-central China and their tectonic implications. *Acta Geologica Sinica*, **2019**, 93, 220-220
- 1 Retrieval of amplitude and attenuation from ambient seismic noise: synthetic data and practical considerations. *Geophysical Journal International*, **2020**, 222, 544-559