

Xiaohui Yuan

List of Publications by Year in Descending Order

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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.

130
papers

7,287
citations

43
h-index

84
g-index

158
ext. papers

8,186
ext. citations

6.3
avg, IF

5.61
L-index

#	Paper	IF	Citations
130	Preservation of the Iberian Tethys paleomargin beneath the eastern Betic mountain range. <i>Gondwana Research</i> , 2022 , 106, 237-246	5.1	0
129	Crustal and uppermost mantle structure of the NW Namibia continental margin and the Walvis Ridge derived from ambient seismic noise. <i>Geophysical Journal International</i> , 2022 , 230, 377-391	2.6	0
128	Lateral Growth Mechanism of Proto-Tibetan Plateau in the Late Paleogene: Implications From Detailed Crustal Structures of the Hoh Xil Basin. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	0
127	Moho and uppermost mantle structure in the Alpine area from S-to-P converted waves. <i>Solid Earth</i> , 2021 , 12, 2503-2521	3.3	2
126	Impact of the Juan Fernandez Ridge on the Pampean Flat Subduction Inferred From Full Waveform Inversion. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL095509	4.9	0
125	Back-Arc Extension of the Central Bransfield Basin Induced by Ridge-Trench Collision: Implications From Ambient Noise Tomography and Stress Field Inversion. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL095032	4.9	1
124	Structure and Stress Field of the Lithosphere Between Pamir and Tarim. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL095413	4.9	2
123	The Hindu Kush slab break-off as revealed by deep structure and crustal deformation. <i>Nature Communications</i> , 2021 , 12, 1685	17.4	11
122	Deep Crustal Contact Between the Pamir and Tarim Basin Deduced From Receiver Functions. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL093271	4.9	1
121	Full Waveform Inversion Beneath the Central Andes: Insight Into the Dehydration of the Nazca Slab and Delamination of the Back-Arc Lithosphere. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2021JB021984	3.6	3
120	Seismic structure across central Myanmar from joint inversion of receiver functions and Rayleigh wave dispersion. <i>Tectonophysics</i> , 2021 , 818, 229068	3.1	1
119	Crustal Structure of Sri Lanka Derived From Joint Inversion of Surface Wave Dispersion and Receiver Functions Using a Bayesian Approach. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2019JB018688	3.6	6
118	Geodynamic processes of the continental deep subduction: Constraints from the fine crustal structure beneath the Pamir plateau. <i>Science China Earth Sciences</i> , 2020 , 63, 649-661	4.6	2
117	Detailed Moho variations under Northeast China inferred from receiver function analyses and their tectonic implications. <i>Physics of the Earth and Planetary Interiors</i> , 2020 , 300, 106448	2.3	7
116	Sharp Lateral Moho Variations Across the SE Tibetan Margin and Their Implications for Plateau Growth. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2019JB018117	3.6	7
115	New insights into the structural elements of the upper mantle beneath the contiguous United States from S-to-P converted seismic waves. <i>Geophysical Journal International</i> , 2020 , 222, 646-659	2.6	10
114	Velocity structure and radial anisotropy of the lithosphere in southern Madagascar from surface wave dispersion. <i>Geophysical Journal International</i> , 2020 , 224, 1930-1944	2.6	1

113	Complex structure of upper mantle beneath the Yadong-Gulu rift in Tibet revealed by S-to-P converted waves. <i>Earth and Planetary Science Letters</i> , 2020 , 531, 115954	5.3	13
112	BRAVOSEIS: Geophysical investigation of rifting and volcanism in the Bransfield strait, Antarctica. <i>Journal of South American Earth Sciences</i> , 2020 , 104, 102834	2	8
111	Mantle Transition Zone Structure Beneath Myanmar and Its Geodynamic Implications. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2020GC009262	3.6	5
110	Lateral growth of NE Tibetan Plateau restricted by the Asian lithosphere: Results from a dense seismic profile. <i>Gondwana Research</i> , 2020 , 87, 238-247	5.1	2
109	Lithospheric Delamination Beneath the Southern Puna Plateau Resolved by Local Earthquake Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2019JB019040	3.6	3
108	Seismic discontinuities in the lithospheric mantle at the Dead Sea Transform. <i>Geophysical Journal International</i> , 2020 , 223, 1948-1955	2.6	1
107	Seismic Evidence for Lateral Asthenospheric Flow Beneath the Northeastern Tibetan Plateau Derived From S Receiver Functions. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 883-894	3.6	10
106	Moho Doublet in Southern Tibet and Its Tectonic Implication. <i>Acta Geologica Sinica</i> , 2019 , 93, 43-44	0.7	
105	Seismic imaging of subduction of continental crust beneath the Pamir. <i>Acta Geologica Sinica</i> , 2019 , 93, 65-65	0.7	
104	Observations of guided waves from the Pamir seismic zone provide additional evidence for the existence of subducted continental lower crust. <i>Tectonophysics</i> , 2019 , 762, 1-16	3.1	7
103	De-noising receiver function data using the Seislet Transform. <i>Geophysical Journal International</i> , 2019 , 217, 2047-2055	2.6	6
102	Imaging the Mantle Lithosphere below the China cratons using S-to-p converted waves. <i>Tectonophysics</i> , 2019 , 754, 73-79	3.1	8
101	The Crust in the Pamir: Insights From Receiver Functions. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 9313-9331	3.6	21
100	Connection between the Jurassic oceanic lithosphere of the Gulf of Cádiz and the Alboran slab imaged by Sp receiver functions. <i>Geology</i> , 2019 , 47, 227-230	5	9
99	A STEP fault in Central Betics, associated with lateral lithospheric tearing at the northern edge of the Gibraltar arc subduction system. <i>Earth and Planetary Science Letters</i> , 2018 , 486, 32-40	5.3	17
98	Insight into the subducted Indian slab and origin of the Tengchong volcano in SE Tibet from receiver function analysis. <i>Earth and Planetary Science Letters</i> , 2018 , 482, 567-579	5.3	31
97	Continental lithospheric subduction and intermediate-depth seismicity: Constraints from S-wave velocity structures in the Pamir and Hindu Kush. <i>Earth and Planetary Science Letters</i> , 2018 , 482, 478-489	5.3	18
96	Crustal Radial Anisotropy and Linkage to Geodynamic Processes: A Study Based on Seismic Ambient Noise in Southern Madagascar. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 5130-5146	3.6	12

95	Perspectives of the S-Receiver-Function Method to Image Upper Mantle Discontinuities. <i>Geophysical Monograph Series</i> , 2018 , 139-154	1.1	2
94	Seismic Anisotropy Beneath the Pamir and the Hindu Kush: Evidence for Contributions From Crust, Mantle Lithosphere, and Asthenosphere. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 10,727	3.6	7
93	Lateral Moho variations and the geometry of the Main Himalayan Thrust beneath the Nepal Himalayan orogen revealed by teleseismic receiver functions. <i>Geophysical Journal International</i> , 2018 , 214, 1004-1017	2.6	13
92	Seismic structure of the lithosphere beneath NW Namibia: Impact of the Tristan da Cunha mantle plume. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 125-141	3.6	11
91	Detection of a new sub-lithospheric discontinuity in Central Europe with S-receiver functions. <i>Tectonophysics</i> , 2017 , 700-701, 19-31	3.1	14
90	Crustal structure of southern Madagascar from receiver functions and ambient noise correlation: Implications for crustal evolution. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 1179-1197	3.6	20
89	Tearing of the mantle lithosphere along the intermediate-depth seismicity zone beneath the Gibraltar Arc: The onset of lithospheric delamination. <i>Geophysical Research Letters</i> , 2017 , 44, 4027-4035	4.9	21
88	Detailed Configuration of the Underthrusting Indian Lithosphere Beneath Western Tibet Revealed by Receiver Function Images. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 8257-8269	3.6	28
87	Deep India meets deep Asia: Lithospheric indentation, delamination and break-off under Pamir and Hindu Kush (Central Asia). <i>Earth and Planetary Science Letters</i> , 2016 , 435, 171-184	5.3	107
86	Seismic anisotropy of the lithosphere and asthenosphere beneath southern Madagascar from teleseismic shear wave splitting analysis and waveform modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 6627-6643	3.6	18
85	Is the Asian lithosphere underthrusting beneath northeastern Tibetan Plateau? Insights from seismic receiver functions. <i>Earth and Planetary Science Letters</i> , 2015 , 428, 172-180	5.3	31
84	Magmatic underplating and crustal growth in the Emeishan Large Igneous Province, SW China, revealed by a passive seismic experiment. <i>Earth and Planetary Science Letters</i> , 2015 , 432, 103-114	5.3	48
83	Mapping crustal structure beneath southern Tibet: Seismic evidence for continental crustal underthrusting. <i>Gondwana Research</i> , 2015 , 27, 1487-1493	5.1	45
82	Crustal thickness and Vp/Vs ratio in NW Namibia from receiver functions: Evidence for magmatic underplating due to mantle plume-crust interaction. <i>Geophysical Research Letters</i> , 2015 , 42, 3330-3337	4.9	18
81	Depth-variant azimuthal anisotropy in Tibet revealed by surface wave tomography. <i>Geophysical Research Letters</i> , 2015 , 42, 4326-4334	4.9	37
80	Structure of the upper mantle in the north-western and central United States from USArray S-receiver functions. <i>Solid Earth</i> , 2015 , 6, 957-970	3.3	15
79	Thickness of the lithosphere beneath Turkey and surroundings from S-receiver functions. <i>Solid Earth</i> , 2015 , 6, 971-984	3.3	64
78	Anisotropic low-velocity lower crust beneath the northeastern margin of Tibetan Plateau: Evidence for crustal channel flow. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 4223-4236	3.6	27

77	Tearing of the Indian lithospheric slab beneath southern Tibet revealed by SKS-wave splitting measurements. <i>Earth and Planetary Science Letters</i> , 2015 , 413, 13-24	5.3	108
76	The Moho beneath western Tibet: Shear zones and eclogitization in the lower crust. <i>Earth and Planetary Science Letters</i> , 2014 , 408, 370-377	5.3	49
75	Shear wave splitting and shear wave splitting tomography of the southern Puna plateau. <i>Geophysical Journal International</i> , 2014 , 199, 688-699	2.6	8
74	Central Andean mantle and crustal seismicity beneath the Southern Puna plateau and the northern margin of the Chilean-Pampean flat slab. <i>Tectonics</i> , 2014 , 33, 1636-1658	4.3	33
73	A 3D shear-wave velocity model of the upper mantle beneath China and the surrounding areas. <i>Tectonophysics</i> , 2014 , 633, 193-210	3.1	32
72	Seismotectonics of the Pamir. <i>Tectonics</i> , 2014 , 33, 1501-1518	4.3	86
71	Delamination of southern Puna lithosphere revealed by body wave attenuation tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 549-566	3.6	18
70	A ubiquitous low-velocity layer at the base of the mantle transition zone. <i>Geophysical Research Letters</i> , 2014 , 41, 836-842	4.9	27
69	Structure of the crust and the lithosphere beneath the southern Puna plateau from teleseismic receiver functions. <i>Earth and Planetary Science Letters</i> , 2014 , 385, 1-11	5.3	26
68	Deep burial of Asian continental crust beneath the Pamir imaged with local earthquake tomography. <i>Earth and Planetary Science Letters</i> , 2013 , 384, 165-177	5.3	73
67	Scandinavia: A former Tibet?. <i>Geochemistry, Geophysics, Geosystems</i> , 2013 , 14, 4479-4487	3.6	22
66	Teleseismic tomography of the southern Puna plateau in Argentina and adjacent regions. <i>Tectonophysics</i> , 2013 , 586, 65-83	3.1	57
65	Normal faulting from simple shear rifting in South Tibet, using evidence from passive seismic profiling across the Yadong-Gulu Rift. <i>Tectonophysics</i> , 2013 , 606, 178-186	3.1	27
64	Geometry of the Pamir-Hindu Kush intermediate-depth earthquake zone from local seismic data. <i>Journal of Geophysical Research: Solid Earth</i> , 2013 , 118, 1438-1457	3.6	121
63	Seismic imaging of subducting continental lower crust beneath the Pamir. <i>Earth and Planetary Science Letters</i> , 2013 , 375, 101-112	5.3	124
62	Velocity structure beneath the southern Puna plateau: Evidence for delamination. <i>Geochemistry, Geophysics, Geosystems</i> , 2013 , 14, 4292-4305	3.6	18
61	Seismic evidence for stratification in composition and anisotropic fabric within the thick lithosphere of Kalahari Craton. <i>Geochemistry, Geophysics, Geosystems</i> , 2013 , 14, 5393-5412	3.6	73
60	Seismic receiver functions and the lithosphere-asthenosphere boundary. <i>Tectonophysics</i> , 2012 , 536-537, 25-43	3.1	125

59	Brief communication "Seismic and acoustic-gravity signals from the source of the 2004 Indian Ocean Tsunami". <i>Natural Hazards and Earth System Sciences</i> , 2012 , 12, 287-294	3.9	3
58	The lithosphere-asthenosphere boundary observed with USArray receiver functions. <i>Solid Earth</i> , 2012 , 3, 149-159	3.3	21
57	Locating the Tohoku-Oki 2011 tsunami source using acoustic-gravity waves. <i>Journal of Seismology</i> , 2012 , 16, 215-219	1.5	2
56	Crustal and uppermost mantle velocity structure along a profile across the Pamir and southern Tien Shan as derived from project TIPAGE wide-angle seismic data. <i>Geophysical Journal International</i> , 2012 , 188, 385-407	2.6	93
55	Tracking unilateral earthquake rupture by P-wave polarization analysis. <i>Geophysical Journal International</i> , 2012 , 188, 1141-1153	2.6	9
54	USArray Receiver Function Images of the Lithosphere-Asthenosphere Boundary. <i>Seismological Research Letters</i> , 2012 , 83, 486-491	3	55
53	The lithosphere-asthenosphere boundary observed with USArray receiver functions 2012 ,		2
52	High-resolution image of the geometry and thickness of the subducting Nazca lithosphere beneath northern Chile. <i>Journal of Geophysical Research</i> , 2011 , 116,		34
51	Details of the Doublet Moho Structure beneath Lhasa, Tibet, Obtained by Comparison of P and S Receiver Functions. <i>Bulletin of the Seismological Society of America</i> , 2011 , 101, 1259-1269	2.3	14
50	Receiver function images of the base of the lithosphere in the Alboran Sea region. <i>Geophysical Journal International</i> , 2011 , 187, 1019-1026	2.6	16
49	Response of mantle transition zone thickness to plume buoyancy flux. <i>Geophysical Journal International</i> , 2010 , 180, 49-58	2.6	5
48	Receiver function summation without deconvolution. <i>Geophysical Journal International</i> , 2010 , 180, 1223-1230	2.3	32
47	Study of the lithospheric and upper-mantle discontinuities beneath eastern Asia by SS precursors. <i>Geophysical Journal International</i> , 2010 , 183, 252-266	2.6	24
46	Geophysics. Seismic images of the biggest crash on Earth. <i>Science</i> , 2010 , 329, 1479-80	33.3	57
45	The boundary between the Indian and Asian tectonic plates below Tibet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 11229-33	11.5	252
44	Seismic signature of the collision between the east Tibetan escape flow and the Sichuan Basin. <i>Earth and Planetary Science Letters</i> , 2010 , 292, 254-264	5.3	167
43	The elusive lithosphere-asthenosphere boundary (LAB) beneath cratons. <i>Lithos</i> , 2009 , 109, 1-22	2.9	311
42	Receiver function images from the Moho and the slab beneath the Altiplano and Puna plateaus in the Central Andes. <i>Geophysical Journal International</i> , 2009 , 177, 296-308	2.6	41

41	Evidence for a missing crustal root and a thin lithosphere beneath the Central Alborz by receiver function studies. <i>Geophysical Journal International</i> , 2009 , 177, 733-742	2.6	68
40	Upper mantle and lithospheric heterogeneities in central and eastern Europe as observed by teleseismic receiver functions. <i>Geophysical Journal International</i> , 2008 , 174, 351-376	2.6	39
39	Crustal thickness estimation beneath the southern central Andes at 30°S and 36°S from Swave receiver function analysis. <i>Geophysical Journal International</i> , 2008 , 174, 249-254	2.6	37
38	More constraints to determine the seismic structure beneath the Central Andes at 21°S using teleseismic tomography analysis. <i>Journal of South American Earth Sciences</i> , 2008 , 25, 22-36	2	35
37	Seismic evidence for widespread serpentinized forearc mantle along the Mariana convergence margin. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	41
36	The M w 3.1-7 earthquakes in the southern Baltic Sea and adjacent areas in 2000, 2001 and 2004. <i>Journal of Seismology</i> , 2008 , 12, 413-429	1.5	9
35	An S receiver function analysis of the lithospheric structure in South America. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	86
34	Double seismic discontinuities at the base of the mantle transition zone near the Mariana slab. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	14
33	The rapid drift of the Indian tectonic plate. <i>Nature</i> , 2007 , 449, 894-7	50.4	316
32	The lithosphere-asthenosphere boundary beneath the western United States. <i>Geophysical Journal International</i> , 2007 , 170, 700-710	2.6	105
31	Tracing the Hawaiian Mantle Plume by Converted Seismic Waves 2007 , 49-69		1
30	Deep seismic images of the Southern Andes 2006 ,		13
29	Imaging the colliding Indian and Asian lithospheric plates beneath Tibet. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		160
28	The receiver functions: synthetics and data example. <i>Geophysical Journal International</i> , 2006 , 165, 555-566		167
27	Deep origin of the Hawaiian tilted plume conduit derived from receiver functions. <i>Geophysical Journal International</i> , 2006 , 166, 767-781	2.6	37
26	Lithospheric thickness beneath the Dabie Shan, central eastern China from receiver functions. <i>Geophysical Journal International</i> , 2006 , 166, 1363-1367	2.6	61
25	Seismological Studies of the Central and Southern Andes 2006 , 443-457		21
24	Receiver function images of the central Chugoku region in the Japanese islands using Hi-net data. <i>Earth, Planets and Space</i> , 2005 , 57, 271-280	2.9	21

23	The lithosphere–asthenosphere boundary in the North-West Atlantic region. <i>Earth and Planetary Science Letters</i> , 2005 , 236, 249-257	5.3	121
22	The lithosphere-asthenosphere boundary in the Tien Shan-Karakoram region from S receiver functions: Evidence for continental subduction. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	127
21	Moho geometry and upper mantle images of northeast India. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	34
20	Seismic monitoring of the Indian Ocean tsunami. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	33
19	Rejuvenation of the lithosphere by the Hawaiian plume. <i>Nature</i> , 2004 , 427, 827-9	50.4	205
18	Seismic Detection and Characterization of the Altiplano-Puna Magma Body, Central Andes. <i>Pure and Applied Geophysics</i> , 2003 , 160, 789-807	2.2	134
17	Receiver function study of the Hellenic subduction zone: imaging crustal thickness variations and the oceanic Moho of the descending African lithosphere. <i>Geophysical Journal International</i> , 2003 , 155, 733-748	2.6	73
16	Seismic observation of narrow plumes in the oceanic upper mantle. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	27
15	Seismic imaging of a convergent continental margin and plateau in the central Andes (Andean Continental Research Project 1996 (ANCORP96)). <i>Journal of Geophysical Research</i> , 2003 , 108,		107
14	Seismic study of upper mantle and transition zone beneath hotspots. <i>Physics of the Earth and Planetary Interiors</i> , 2003 , 136, 79-92	2.3	44
13	Receiver functions in northeast China – Implications for slab penetration into the lower mantle in northwest Pacific subduction zone. <i>Earth and Planetary Science Letters</i> , 2003 , 216, 679-691	5.3	107
12	Seismic Detection and Characterization of the Altiplano-Puna Magma Body, Central Andes 2003 , 789-807		3
11	Receiver function analysis of the North American crust and upper mantle. <i>Geophysical Journal International</i> , 2002 , 150, 91-108	2.6	48
10	Seismic images of crust and upper mantle beneath Tibet: evidence for Eurasian plate subduction. <i>Science</i> , 2002 , 298, 1219-21	33.3	497
9	Moho topography in the central Andes and its geodynamic implications. <i>Earth and Planetary Science Letters</i> , 2002 , 199, 389-402	5.3	194
8	Mapping the Hawaiian plume conduit with converted seismic waves. <i>Nature</i> , 2000 , 405, 938-41	50.4	157
7	Subduction and collision processes in the Central Andes constrained by converted seismic phases. <i>Nature</i> , 2000 , 408, 958-61	50.4	306
6	A detailed receiver function image of the upper mantle discontinuities in the Japan subduction zone. <i>Earth and Planetary Science Letters</i> , 2000 , 183, 527-541	5.3	76

- 5 Seismic Evidence for a Detached Indian Lithospheric Mantle Beneath Tibet. *Science*, **1999**, 283, 1306-1309, 33 329
- 4 Lithospheric and upper mantle structure of southern Tibet from a seismological passive source experiment. *Journal of Geophysical Research*, **1997**, 102, 27491-27500 299
- 3 Evidence from Earthquake Data for a Partially Molten Crustal Layer in Southern Tibet. *Science*, **1996**, 274, 1692-4, 33-3 203
- 2 Structure of the upper mantle in the north-western and central United States from USArray S-receiver functions 4
- 1 Thickness of the lithosphere beneath Turkey and surroundings from S-receiver functions 3