Xiaohui Yuan

List of Publications by Citations

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	Seismic images of crust and upper mantle beneath Tibet: evidence for Eurasian plate subduction. *Science*, **2002**, 298, 1219-21	33.3	497
129	Seismic Evidence for a Detached Indian Lithospheric Mantle Beneath Tibet. *Science*, **1999**, 283, 1306-1309	33.3	329
128	The rapid drift of the Indian tectonic plate. *Nature*, **2007**, 449, 894-7	50.4	316
127	The elusive lithosphere–asthenosphere boundary (LAB) beneath cratons. *Lithos*, **2009**, 109, 1-22	2.9	311
126	Subduction and collision processes in the Central Andes constrained by converted seismic phases. *Nature*, **2000**, 408, 958-61	50.4	306
125	Lithospheric and upper mantle structure of southern Tibet from a seismological passive source experiment. *Journal of Geophysical Research*, **1997**, 102, 27491-27500		299
124	The boundary between the Indian and Asian tectonic plates below Tibet. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 11229-33	11.5	252
123	Rejuvenation of the lithosphere by the Hawaiian plume. *Nature*, **2004**, 427, 827-9	50.4	205
122	Evidence from Earthquake Data for a Partially Molten Crustal Layer in Southern Tibet. *Science*, **1996**, 274, 1692-4	33.3	203
121	Moho topography in the central Andes and its geodynamic implications. *Earth and Planetary Science Letters*, **2002**, 199, 389-402	5.3	194
120	Seismic signature of the collision between the east Tibetan escape flow and the Sichuan Basin. *Earth and Planetary Science Letters*, **2010**, 292, 254-264	5.3	167
119	TheSreceiver functions: synthetics and data example. *Geophysical Journal International*, **2006**, 165, 555-564	2.6	167
118	Imaging the colliding Indian and Asian lithospheric plates beneath Tibet. *Journal of Geophysical Research*, **2006**, 111, n/a-n/a		160
117	Mapping the Hawaiian plume conduit with converted seismic waves. *Nature*, **2000**, 405, 938-41	50.4	157
116	Seismic Detection and Characterization of the Altiplano-Puna Magma Body, Central Andes. *Pure and Applied Geophysics*, **2003**, 160, 789-807	2.2	134
115	The lithosphere-asthenosphere boundary in the Tien Shan-Karakoram region from S receiver functions: Evidence for continental subduction. *Geophysical Research Letters*, **2005**, 32, n/a-n/a	4.9	127
114	Seismic receiver functions and the lithosphere–asthenosphere boundary. *Tectonophysics*, **2012**, 536-537, 25-43	3.1	125

113	Seismic imaging of subducting continental lower crust beneath the Pamir. *Earth and Planetary Science Letters*, **2013**, 375, 101-112	5.3	124
112	Geometry of the Pamir-Hindu Kush intermediate-depth earthquake zone from local seismic data. *Journal of Geophysical Research: Solid Earth*, **2013**, 118, 1438-1457	3.6	121
111	The lithosphere□asthenosphere boundary in the North-West Atlantic region. *Earth and Planetary Science Letters*, **2005**, 236, 249-257	5.3	121
110	Tearing of the Indian lithospheric slab beneath southern Tibet revealed by SKS-wave splitting measurements. *Earth and Planetary Science Letters*, **2015**, 413, 13-24	5.3	108
109	Deep India meets deep Asia: Lithospheric indentation, delamination and break-off under Pamir and Hindu Kush (Central Asia). *Earth and Planetary Science Letters*, **2016**, 435, 171-184	5.3	107
108	Seismic imaging of a convergent continental margin and plateau in the central Andes (Andean Continental Research Project 1996 (ANCORP□96)). *Journal of Geophysical Research*, **2003**, 108,		107
107	Receiver functions in northeast China □mplications for slab penetration into the lower mantle in northwest Pacific subduction zone. *Earth and Planetary Science Letters*, **2003**, 216, 679-691	5.3	107
106	The lithosphere-asthenosphere boundary beneath the western United States. *Geophysical Journal International*, **2007**, 170, 700-710	2.6	105
105	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. *Geophysical Journal International*, **2012**, 188, 385-407	2.6	93
104	Seismotectonics of the Pamir. *Tectonics*, **2014**, 33, 1501-1518	4.3	86
103	An S receiver function analysis of the lithospheric structure in South America. *Geophysical Research Letters*, **2007**, 34,	4.9	86
102	A detailed receiver function image of the upper mantle discontinuities in the Japan subduction zone. *Earth and Planetary Science Letters*, **2000**, 183, 527-541	5.3	76
101	Deep burial of Asian continental crust beneath the Pamir imaged with local earthquake tomography. *Earth and Planetary Science Letters*, **2013**, 384, 165-177	5.3	73
100	Seismic evidence for stratification in composition and anisotropic fabric within the thick lithosphere of Kalahari Craton. *Geochemistry, Geophysics, Geosystems*, **2013**, 14, 5393-5412	3.6	73
99	Receiver function study of the Hellenic subduction zone: imaging crustal thickness variations and the oceanic Moho of the descending African lithosphere. *Geophysical Journal International*, **2003**, 155, 733-748	2.6	73
98	Evidence for a missing crustal root and a thin lithosphere beneath the Central Alborz by receiver function studies. *Geophysical Journal International*, **2009**, 177, 733-742	2.6	68
97	Thickness of the lithosphere beneath Turkey and surroundings from S-receiver functions. *Solid Earth*, **2015**, 6, 971-984	3.3	64
96	Lithospheric thickness beneath the Dabie Shan, central eastern China fromSreceiver functions. *Geophysical Journal International*, **2006**, 166, 1363-1367	2.6	61

95	Teleseismic tomography of the southern Puna plateau in Argentina and adjacent regions. *Tectonophysics*, **2013**, 586, 65-83	3.1	57
94	Geophysics. Seismic images of the biggest crash on Earth. *Science*, **2010**, 329, 1479-80	33.3	57
93	USArray Receiver Function Images of the Lithosphere-Asthenosphere Boundary. *Seismological Research Letters*, **2012**, 83, 486-491	3	55
92	The Moho beneath western Tibet: Shear zones and eclogitization in the lower crust. *Earth and Planetary Science Letters*, **2014**, 408, 370-377	5.3	49
91	Magmatic underplating and crustal growth in the Emeishan Large Igneous Province, SW China, revealed by a passive seismic experiment. *Earth and Planetary Science Letters*, **2015**, 432, 103-114	5.3	48
90	Receiver function analysis of the North American crust and upper mantle. *Geophysical Journal International*, **2002**, 150, 91-108	2.6	48
89	Mapping crustal structure beneath southern Tibet: Seismic evidence for continental crustal underthrusting. *Gondwana Research*, **2015**, 27, 1487-1493	5.1	45
88	Seismic study of upper mantle and transition zone beneath hotspots. *Physics of the Earth and Planetary Interiors*, **2003**, 136, 79-92	2.3	44
87	Receiver function images from the Moho and the slab beneath the Altiplano and Puna plateaus in the Central Andes. *Geophysical Journal International*, **2009**, 177, 296-308	2.6	41
86	Seismic evidence for widespread serpentinized forearc mantle along the Mariana convergence margin. *Geophysical Research Letters*, **2008**, 35,	4.9	41
85	Upper mantle and lithospheric heterogeneities in central and eastern Europe as observed by teleseismic receiver functions. *Geophysical Journal International*, **2008**, 174, 351-376	2.6	39
84	Depth-variant azimuthal anisotropy in Tibet revealed by surface wave tomography. *Geophysical Research Letters*, **2015**, 42, 4326-4334	4.9	37
83	Crustal thickness estimation beneath the southern central Andes at 30°S and 36°S fromSwave receiver function analysis. *Geophysical Journal International*, **2008**, 174, 249-254	2.6	37
82	Deep origin of the Hawaiian tilted plume conduit derived from receiver functions. *Geophysical Journal International*, **2006**, 166, 767-781	2.6	37
81	More constraints to determine the seismic structure beneath the Central Andes at 21°S using teleseismic tomography analysis. *Journal of South American Earth Sciences*, **2008**, 25, 22-36	2	35
80	High-resolution image of the geometry and thickness of the subducting Nazca lithosphere beneath northern Chile. *Journal of Geophysical Research*, **2011**, 116,		34
79	Moho geometry and upper mantle images of northeast India. *Geophysical Research Letters*, **2005**, 32, n/a-n/a	4.9	34
78	Central Andean mantle and crustal seismicity beneath the Southern Puna plateau and the northern margin of the Chilean-Pampean flat slab. *Tectonics*, **2014**, 33, 1636-1658	4.3	33

77	Seismic monitoring of the Indian Ocean tsunami. *Geophysical Research Letters*, **2005**, 32,	4.9	33
76	A 3D shear-wave velocity model of the upper mantle beneath China and the surrounding areas. *Tectonophysics*, **2014**, 633, 193-210	3.1	32
75	Receiver function summation without deconvolution. *Geophysical Journal International*, **2010**, 180, 1223-1230	2.6	32
74	Is the Asian lithosphere underthrusting beneath northeastern Tibetan Plateau? Insights from seismic receiver functions. *Earth and Planetary Science Letters*, **2015**, 428, 172-180	5.3	31
73	Insight into the subducted Indian slab and origin of the Tengchong volcano in SE Tibet from receiver function analysis. *Earth and Planetary Science Letters*, **2018**, 482, 567-579	5.3	31
72	Detailed Configuration of the Underthrusting Indian Lithosphere Beneath Western Tibet Revealed by Receiver Function Images. *Journal of Geophysical Research: Solid Earth*, **2017**, 122, 8257-8269	3.6	28
71	Normal faulting from simple shear rifting in South Tibet, using evidence from passive seismic profiling across the Yadong-Gulu Rift. *Tectonophysics*, **2013**, 606, 178-186	3.1	27
70	Anisotropic low-velocity lower crust beneath the northeastern margin of Tibetan Plateau: Evidence for crustal channel flow. *Geochemistry, Geophysics, Geosystems*, **2015**, 16, 4223-4236	3.6	27
69	A ubiquitous low-velocity layer at the base of the mantle transition zone. *Geophysical Research Letters*, **2014**, 41, 836-842	4.9	27
68	Seismic observation of narrow plumes in the oceanic upper mantle. *Geophysical Research Letters*, **2003**, 30,	4.9	27
67	Structure of the crust and the lithosphere beneath the southern Puna plateau from teleseismic receiver functions. *Earth and Planetary Science Letters*, **2014**, 385, 1-11	5.3	26
66	Study of the lithospheric and upper-mantle discontinuities beneath eastern Asia by SS precursors. *Geophysical Journal International*, **2010**, 183, 252-266	2.6	24
65	Scandinavia: A former Tibet?. *Geochemistry, Geophysics, Geosystems*, **2013**, 14, 4479-4487	3.6	22
64	Tearing of the mantle lithosphere along the intermediate-depth seismicity zone beneath the Gibraltar Arc: The onset of lithospheric delamination. *Geophysical Research Letters*, **2017**, 44, 4027-4035	4.9	21
63	The Crust in the Pamir: Insights From Receiver Functions. *Journal of Geophysical Research: Solid Earth*, **2019**, 124, 9313-9331	3.6	21
62	The lithosphere-asthenosphere boundary observed with USArray receiver functions. *Solid Earth*, **2012**, 3, 149-159	3.3	21
61	Receiver function images of the central Chugoku region in the Japanese islands using Hi-net data. *Earth, Planets and Space*, **2005**, 57, 271-280	2.9	21
60	Seismological Studies of the Central and Southern Andes **2006**, 443-457		21

59	Crustal structure of southern Madagascar from receiver functions and ambient noise correlation: Implications for crustal evolution. *Journal of Geophysical Research: Solid Earth*, **2017**, 122, 1179-1197	3.6	20
58	Crustal thickness and Vp/Vs ratio in NW Namibia from receiver functions: Evidence for magmatic underplating due to mantle plume-crust interaction. *Geophysical Research Letters*, **2015**, 42, 3330-3337	4.9	18
57	Delamination of southern Puna lithosphere revealed by body wave attenuation tomography. *Journal of Geophysical Research: Solid Earth*, **2014**, 119, 549-566	3.6	18
56	Velocity structure beneath the southern Puna plateau: Evidence for delamination. *Geochemistry, Geophysics, Geosystems*, **2013**, 14, 4292-4305	3.6	18
55	Seismic anisotropy of the lithosphere and asthenosphere beneath southern Madagascar from teleseismic shear wave splitting analysis and waveform modeling. *Journal of Geophysical Research: Solid Earth*, **2016**, 121, 6627-6643	3.6	18
54	Continental lithospheric subduction and intermediate-depth seismicity: Constraints from S-wave velocity structures in the Pamir and Hindu Kush. *Earth and Planetary Science Letters*, **2018**, 482, 478-489	5.3	18
53	A STEP fault in Central Betics, associated with lateral lithospheric tearing at the northern edge of the Gibraltar arc subduction system. *Earth and Planetary Science Letters*, **2018**, 486, 32-40	5.3	17
52	Receiver function images of the base of the lithosphere in the Alboran Sea region. *Geophysical Journal International*, **2011**, 187, 1019-1026	2.6	16
51	Structure of the upper mantle in the north-western and central United States from USArray S-receiver functions. *Solid Earth*, **2015**, 6, 957-970	3.3	15
50	Detection of a new sub-lithospheric discontinuity in Central Europe with S-receiver functions. *Tectonophysics*, **2017**, 700-701, 19-31	3.1	14
49	Details of the Doublet Moho Structure beneath Lhasa, Tibet, Obtained by Comparison of P and S Receiver Functions. *Bulletin of the Seismological Society of America*, **2011**, 101, 1259-1269	2.3	14
48	Double seismic discontinuities at the base of the mantle transition zone near the Mariana slab. *Geophysical Research Letters*, **2007**, 34,	4.9	14
47	Deep seismic images of the Southern Andes **2006**,		13
46	Complex structure of upper mantle beneath the Yadong-Gulu rift in Tibet revealed by S-to-P converted waves. *Earth and Planetary Science Letters*, **2020**, 531, 115954	5.3	13
45	Lateral Moho variations and the geometry of the Main Himalayan Thrust beneath the Nepal Himalayan orogen revealed by teleseismic receiver functions. *Geophysical Journal International*, **2018**, 214, 1004-1017	2.6	13
44	Crustal Radial Anisotropy and Linkage to Geodynamic Processes: A Study Based on Seismic Ambient Noise in Southern Madagascar. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 5130-5146	3.6	12
43	Seismic structure of the lithosphere beneath NW Namibia: Impact of the Tristan da Cunha mantle plume. *Geochemistry, Geophysics, Geosystems*, **2017**, 18, 125-141	3.6	11
42	The Hindu Kush slab break-off as revealed by deep structure and crustal deformation. *Nature Communications*, **2021**, 12, 1685	17.4	11

41	Seismic Evidence for Lateral Asthenospheric Flow Beneath the Northeastern Tibetan Plateau Derived From S Receiver Functions. *Geochemistry, Geophysics, Geosystems*, **2019**, 20, 883-894	3.6	10
40	New insights into the structural elements of the upper mantle beneath the contiguous United States from S-to-P converted seismic waves. *Geophysical Journal International*, **2020**, 222, 646-659	2.6	10
39	Tracking unilateral earthquake rupture by P-wave polarization analysis. *Geophysical Journal International*, **2012**, 188, 1141-1153	2.6	9
38	The M w 3.1–4.7 earthquakes in the southern Baltic Sea and adjacent areas in 2000, 2001 and 2004. *Journal of Seismology*, **2008**, 12, 413-429	1.5	9
37	Connection between the Jurassic oceanic lithosphere of the Gulf of Cádiz and the Alboran slab imaged by Sp receiver functions. *Geology*, **2019**, 47, 227-230	5	9
36	Imaging the Mantle Lithosphere below the China cratons using S-to-p converted waves. *Tectonophysics*, **2019**, 754, 73-79	3.1	8
35	Shear wave splitting and shear wave splitting tomography of the southern Puna plateau. *Geophysical Journal International*, **2014**, 199, 688-699	2.6	8
34	BRAVOSEIS: Geophysical investigation of rifting and volcanism in the Bransfield strait, Antarctica. *Journal of South American Earth Sciences*, **2020**, 104, 102834	2	8
33	Observations of guided waves from the Pamir seismic zone provide additional evidence for the existence of subducted continental lower crust. *Tectonophysics*, **2019**, 762, 1-16	3.1	7
32	Detailed Moho variations under Northeast China inferred from receiver function analyses and their tectonic implications. *Physics of the Earth and Planetary Interiors*, **2020**, 300, 106448	2.3	7
31	Sharp Lateral Moho Variations Across the SE Tibetan Margin and Their Implications for Plateau Growth. *Journal of Geophysical Research: Solid Earth*, **2020**, 125, e2019JB018117	3.6	7
30	Seismic Anisotropy Beneath the Pamir and the Hindu Kush: Evidence for Contributions From Crust, Mantle Lithosphere, and Asthenosphere. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 10,727	3.6	7
29	De-noising receiver function data using the Seislet Transform. *Geophysical Journal International*, **2019**, 217, 2047-2055	2.6	6
28	Crustal Structure of Sri Lanka Derived From Joint Inversion of Surface Wave Dispersion and Receiver Functions Using a Bayesian Approach. *Journal of Geophysical Research: Solid Earth*, **2020**, 125, e2019JB018688	3.6	6
27	Response of mantle transition zone thickness to plume buoyancy flux. *Geophysical Journal International*, **2010**, 180, 49-58	2.6	5
26	Mantle Transition Zone Structure Beneath Myanmar and Its Geodynamic Implications. *Geochemistry, Geophysics, Geosystems*, **2020**, 21, e2020GC009262	3.6	5
25	Structure of the upper mantle in the north-western and central United States from USArray S-receiver functions		4
24	Brief communication "Seismic and acoustic-gravity signals from the source of the 2004 Indian Ocean Tsunami". *Natural Hazards and Earth System Sciences*, **2012**, 12, 287-294	3.9	3

23	Seismic Detection and Characterization of the Altiplano-Puna Magma Body, Central Andes **2003**, 789-807		3
22	Thickness of the lithosphere beneath Turkey and surroundings from S-receiver functions		3
21	Lithospheric Delamination Beneath the Southern Puna Plateau Resolved by Local Earthquake Tomography. *Journal of Geophysical Research: Solid Earth*, **2020**, 125, e2019JB019040	3.6	3
20	Full Waveform Inversion Beneath the Central Andes: Insight Into the Dehydration of the Nazca Slab and Delamination of the Back-Arc Lithosphere. *Journal of Geophysical Research: Solid Earth*, **2021**, 126, e2021JB021984	3.6	3
19	Geodynamic processes of the continental deep subduction: Constraints from the fine crustal structure beneath the Pamir plateau. *Science China Earth Sciences*, **2020**, 63, 649-661	4.6	2
18	Locating the Tohoku-Oki 2011 tsunami source using acoustic□gravity waves. *Journal of Seismology*, **2012**, 16, 215-219	1.5	2
17	The lithosphere-asthenosphere boundary observed with USArray receiver functions **2012**,		2
16	Moho and uppermost mantle structure in the Alpine area from S-to-P converted waves. *Solid Earth*, **2021**, 12, 2503-2521	3.3	2
15	Structure and Stress Field of the Lithosphere Between Pamir and Tarim. *Geophysical Research Letters*, **2021**, 48, e2021GL095413	4.9	2
14	Lateral growth of NE Tibetan Plateau restricted by the Asian lithosphere: Results from a dense seismic profile. *Gondwana Research*, **2020**, 87, 238-247	5.1	2
13	Perspectives of the S-Receiver-Function Method to Image Upper Mantle Discontinuities. *Geophysical Monograph Series*, **2018**, 139-154	1.1	2
12	Tracing the Hawaiian Mantle Plume by Converted Seismic Waves **2007**, 49-69		1
11	Velocity structure and radial anisotropy of the lithosphere in southern Madagascar from surface wave dispersion. *Geophysical Journal International*, **2020**, 224, 1930-1944	2.6	1
10	Back-Arc Extension of the Central Bransfield Basin Induced by Ridge□Trench Collision: Implications From Ambient Noise Tomography and Stress Field Inversion. *Geophysical Research Letters*, **2021**, 48, e2021GL095032	4.9	1
9	Seismic discontinuities in the lithospheric mantle at the Dead Sea Transform. *Geophysical Journal International*, **2020**, 223, 1948-1955	2.6	1
8	Deep Crustal Contact Between the Pamir and Tarim Basin Deduced From Receiver Functions. *Geophysical Research Letters*, **2021**, 48, e2021GL093271	4.9	1
7	Seismic structure across central Myanmar from joint inversion of receiver functions and Rayleigh wave dispersion. *Tectonophysics*, **2021**, 818, 229068	3.1	1
6	Preservation of the Iberian Tethys paleomargin beneath the eastern Betic mountain range. *Gondwana Research*, **2022**, 106, 237-246	5.1	0

5	Impact of the Juan Fernandez Ridge on the Pampean Flat Subduction Inferred From Full Waveform Inversion. *Geophysical Research Letters*, **2021**, 48, e2021GL095509	4.9	0
4	Crustal and uppermost mantle structure of the NW Namibia continental margin and the Walvis Ridge derived from ambient seismic noise. *Geophysical Journal International*, **2022**, 230, 377-391	2.6	0
3	Lateral Growth Mechanism of Proto-Tibetan Plateau in the Late Paleogene: Implications From Detailed Crustal Structures of the Hoh Xil Basin. *Geophysical Research Letters*, **2022**, 49,	4.9	0
2	Moho Doublet in Southern Tibet and Its Tectonic Implication. *Acta Geologica Sinica*, **2019**, 93, 43-44	0.7	
1	Seismic imaging of subduction of continental crust beneath the Pamir. *Acta Geologica Sinica*, **2019**, 93, 65-65	0.7	