

Xiaohui Yuan

List of Publications by Year in descending order

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132
papers

9,000
citations

50170

46
h-index

42291

92
g-index

158
all docs

158
docs citations

158
times ranked

4418
citing authors

#	ARTICLE	IF	CITATIONS
1	Seismic Images of Crust and Upper Mantle Beneath Tibet: Evidence for Eurasian Plate Subduction. <i>Science</i> , 2002, 298, 1219-1221.	6.0	570
2	The rapid drift of the Indian tectonic plate. <i>Nature</i> , 2007, 449, 894-897.	13.7	391
3	Seismic Evidence for a Detached Indian Lithospheric Mantle Beneath Tibet. <i>Science</i> , 1999, 283, 1306-1309.	6.0	371
4	The elusive lithosphere-asthenosphere boundary (LAB) beneath cratons. <i>Lithos</i> , 2009, 109, 1-22.	0.6	365
5	Lithospheric and upper mantle structure of southern Tibet from a seismological passive source experiment. <i>Journal of Geophysical Research</i> , 1997, 102, 27491-27500.	3.3	338
6	Subduction and collision processes in the Central Andes constrained by converted seismic phases. <i>Nature</i> , 2000, 408, 958-961.	13.7	337
7	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, 11229-11233.	3.3	332
8	Rejuvenation of the lithosphere by the Hawaiian plume. <i>Nature</i> , 2004, 427, 827-829.	13.7	233
9	Evidence from Earthquake Data for a Partially Molten Crustal Layer in Southern Tibet. <i>Science</i> , 1996, 274, 1692-1694.	6.0	226
10	Moho topography in the central Andes and its geodynamic implications. <i>Earth and Planetary Science Letters</i> , 2002, 199, 389-402.	1.8	222
11	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.	1.8	203
12	The Receiver functions: synthetics and data example. <i>Geophysical Journal International</i> , 2006, 165, 555-564.	1.0	191
13	Imaging the colliding Indian and Asian lithospheric plates beneath Tibet. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	186
14	Mapping the Hawaiian plume conduit with converted seismic waves. <i>Nature</i> , 2000, 405, 938-941.	13.7	174
15	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.	1.8	171
16	Seismic Detection and Characterization of the Altiplano-Puna Magma Body, Central Andes. <i>Pure and Applied Geophysics</i> , 2003, 160, 789-807.	0.8	161
17	Seismic imaging of subducting continental lower crust beneath the Pamir. <i>Earth and Planetary Science Letters</i> , 2013, 375, 101-112.	1.8	158
18	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.	1.4	156

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19	Seismic receiver functions and the lithosphere–asthenosphere boundary. <i>Tectonophysics</i> , 2012, 536-537, 25-43.	0.9	150
20	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.	1.8	148
21	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.	1.5	147
22	Seismic imaging of a convergent continental margin and plateau in the central Andes (Andean Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	3.3	128
23	The lithosphere–asthenosphere boundary in the North-West Atlantic region. <i>Earth and Planetary Science Letters</i> , 2005, 236, 249-257.	1.8	126
24	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.	1.8	120
25	The lithosphere-asthenosphere boundary beneath the western United States. <i>Geophysical Journal International</i> , 2007, 170, 700-710.	1.0	117
26	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.	1.0	113
27	Seismotectonics of the Pamir. <i>Tectonics</i> , 2014, 33, 1501-1518.	1.3	108
28	An S receiver function analysis of the lithospheric structure in South America. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	96
29	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.	1.8	91
30	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.	1.0	85
31	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.	1.0	82
32	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.	1.8	79
33	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.	1.0	79
34	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.	1.8	78
35	Teleseismic tomography of the southern Puna plateau in Argentina and adjacent regions. <i>Tectonophysics</i> , 2013, 586, 65-83.	0.9	76
36	Thickness of the lithosphere beneath Turkey and surroundings from S-receiver functions. <i>Solid Earth</i> , 2015, 6, 971-984.	1.2	72

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37	The Moho beneath western Tibet: Shear zones and eclogitization in the lower crust. <i>Earth and Planetary Science Letters</i> , 2014, 408, 370-377.	1.8	71
38	USArray Receiver Function Images of the Lithosphere-Asthenosphere Boundary. <i>Seismological Research Letters</i> , 2012, 83, 486-491.	0.8	68
39	Seismic Images of the Biggest Crash on Earth. <i>Science</i> , 2010, 329, 1479-1480.	6.0	66
40	Lithospheric thickness beneath the Dabie Shan, central eastern China from <i>S</i> -receiver functions. <i>Geophysical Journal International</i> , 2006, 166, 1363-1367.	1.0	64
41	Mapping crustal structure beneath southern Tibet: Seismic evidence for continental crustal underthrusting. <i>Gondwana Research</i> , 2015, 27, 1487-1493.	3.0	63
42	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.	1.4	54
43	Seismic study of upper mantle and transition zone beneath hotspots. <i>Physics of the Earth and Planetary Interiors</i> , 2003, 136, 79-92.	0.7	52
44	Receiver function analysis of the North American crust and upper mantle. <i>Geophysical Journal International</i> , 2002, 150, 91-108.	1.0	49
45	Crustal thickness estimation beneath the southern central Andes at 30°S and 36°S from <i>S</i> -wave receiver function analysis. <i>Geophysical Journal International</i> , 2008, 174, 249-254.	1.0	48
46	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.	1.0	48
47	Seismic evidence for widespread serpentinized forearc mantle along the Mariana convergence margin. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	47
48	Depth-variant azimuthal anisotropy in Tibet revealed by surface wave tomography. <i>Geophysical Research Letters</i> , 2015, 42, 4326-4334.	1.5	46
49	Moho geometry and upper mantle images of northeast India. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	44
50	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.	1.8	44
51	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.	1.3	42
52	The Crust in the Pamir: Insights From Receiver Functions. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 9313-9331.	1.4	42
53	Seismic monitoring of the Indian Ocean tsunami. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	41
54	Receiver function summation without deconvolution. <i>Geophysical Journal International</i> , 2010, 180, 1223-1230.	1.0	41

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55	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.	1.8	41
56	Deep origin of the Hawaiian tilted plume conduit derived from receiver functions. <i>Geophysical Journal International</i> , 2006, 166, 767-781.	1.0	40
57	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.	1.0	40
58	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.	0.6	40
59	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.	1.8	40
60	A 3D shear-wave velocity model of the upper mantle beneath China and the surrounding areas. <i>Tectonophysics</i> , 2014, 633, 193-210.	0.9	40
61	The Hindu Kush slab break-off as revealed by deep structure and crustal deformation. <i>Nature Communications</i> , 2021, 12, 1685.	5.8	39
62	High-resolution image of the geometry and thickness of the subducting Nazca lithosphere beneath northern Chile. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	38
63	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.	1.8	37
64	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.	1.0	35
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.	0.9	34
66	A ubiquitous low-velocity layer at the base of the mantle transition zone. <i>Geophysical Research Letters</i> , 2014, 41, 836-842.	1.5	32
67	Seismic observation of narrow plumes in the oceanic upper mantle. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	30
68	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.	1.8	29
69	Crustal thickness and V_p/V_s 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.	1.5	27
70	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.	1.4	27
71	Intracontinental deformation of the Tianshan Orogen in response to India-Asia collision. <i>Nature Communications</i> , 2022, 13, .	5.8	27
72	The lithosphere-asthenosphere boundary observed with USArray receiver functions. <i>Solid Earth</i> , 2012, 3, 149-159.	1.2	26

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73	Study of the lithospheric and upper-mantle discontinuities beneath eastern Asia by SS precursors. <i>Geophysical Journal International</i> , 2010, 183, 252-266.	1.0	25
74	Scandinavia: A former Tibet?. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 4479-4487.	1.0	25
75	Velocity structure beneath the southern Puna plateau: Evidence for delamination. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 4292-4305.	1.0	25
76	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.	1.5	25
77	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.	0.9	24
78	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.	1.4	24
79	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.	0.7	24
80	New insights into the structural elements of the upper mantle beneath the contiguous United States from <i>S</i> -to- <i>P</i> -converted seismic waves. <i>Geophysical Journal International</i> , 2020, 222, 646-659.	1.0	24
81	Seismological Studies of the Central and Southern Andes. , 2006, , 443-457.		24
82	Delamination of southern Puna lithosphere revealed by body wave attenuation tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 549-566.	1.4	23
83	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.	1.4	22
84	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.	1.8	22
85	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.	1.0	22
86	Detection of a new sub-lithospheric discontinuity in Central Europe with S-receiver functions. <i>Tectonophysics</i> , 2017, 700-701, 19-31.	0.9	21
87	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.	1.4	21
88	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.	1.2	20
89	Deep seismic images of the Southern Andes. , 2006, , .		18
90	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.	1.1	18

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91	Receiver function images of the base of the lithosphere in the Alboran Sea region. <i>Geophysical Journal International</i> , 2011, 187, 1019-1026.	1.0	18
92	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.	1.0	18
93	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.	1.4	17
94	Mantle Transition Zone Structure Beneath Myanmar and Its Geodynamic Implications. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009262.	1.0	17
95	Double seismic discontinuities at the base of the mantle transition zone near the Mariana slab. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	16
96	Imaging the Mantle Lithosphere below the China cratons using S-to-p converted waves. <i>Tectonophysics</i> , 2019, 754, 73-79.	0.9	16
97	BRAVOSEIS: Geophysical investigation of rifting and volcanism in the Bransfield strait, Antarctica. <i>Journal of South American Earth Sciences</i> , 2020, 104, 102834.	0.6	16
98	Structure and Stress Field of the Lithosphere Between Pamir and Tarim. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095413.	1.5	15
99	Seismic structure of the lithosphere beneath NW Amibia: Impact of the Tistan da C-unha mantle plume. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 125-141.	1.0	14
100	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.	1.4	13
101	De-noising receiver function data using the Seislet Transform. <i>Geophysical Journal International</i> , 2019, 217, 2047-2055.	1.0	13
102	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.	3.0	12
103	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.	1.4	12
104	The M w 3.1–4.7 earthquakes in the southern Baltic Sea and adjacent areas in 2000, 2001 and 2004. <i>Journal of Seismology</i> , 2008, 12, 413-429.	0.6	11
105	Tracking unilateral earthquake rupture by P-wave polarization analysis. <i>Geophysical Journal International</i> , 2012, 188, 1141-1153.	1.0	11
106	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.	2.0	11
107	Shear wave splitting and shear wave splitting tomography of the southern Puna plateau. <i>Geophysical Journal International</i> , 2014, 199, 688-699.	1.0	10
108	Lithospheric Delamination Beneath the Southern Puna Plateau Resolved by Local Earthquake Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB019040.	1.4	9

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109	Deep Crustal Contact Between the Pamir and Tarim Basin Deduced From Receiver Functions. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093271.	1.5	9
110	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.	0.9	8
111	Impact of the Juan Fernandez Ridge on the Pampean Flat Subduction Inferred From Full Waveform Inversion. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095509.	1.5	7
112	Moho and uppermost mantle structure in the Alpine area from S-to-P converted waves. <i>Solid Earth</i> , 2021, 12, 2503-2521.	1.2	7
113	Response of mantle transition zone thickness to plume buoyancy flux. <i>Geophysical Journal International</i> , 2010, 180, 49-58.	1.0	6
114	Backâ€Arc Extension of the Central Bransfield Basin Induced by Ridgeâ€Trench Collision: Implications From Ambient Noise Tomography and Stress Field Inversion. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095032.	1.5	6
115	Seismic Detection and Characterization of the Altiplano-Puna Magma Body, Central Andes. , 2003, , 789-807.		5
116	Tracing the Hawaiian Mantle Plume by Converted Seismic Waves. , 2007, , 49-69.		5
117	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.	2.3	5
118	Seismic structure across central Myanmar from joint inversion of receiver functions and Rayleigh wave dispersion. <i>Tectonophysics</i> , 2021, 818, 229068.	0.9	5
119	Eastward Dipping Style of the Underthrusting Indian Lithosphere Beneath the Tethyan Himalaya Illuminated by P and S Receiver Functions. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, .	1.4	4
120	Lateral Growth Mechanism of Protoâ€Tibetan Plateau in the Late Paleogene: Implications From Detailed Crustal Structures of the Hoh Xil Basin. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	4
121	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.	1.5	3
122	Locating the Tohoku-Oki 2011 tsunami source using acousticâ€gravity waves. <i>Journal of Seismology</i> , 2012, 16, 215-219.	0.6	3
123	Preservation of the Iberian Tethys paleomargin beneath the eastern Betic mountain range. <i>Gondwana Research</i> , 2022, 106, 237-246.	3.0	3
124	Seismic, Receiver Function Technique. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 1258-1269.	0.1	2
125	Velocity structure and radial anisotropy of the lithosphere in southern Madagascar from surface wave dispersion. <i>Geophysical Journal International</i> , 2020, 224, 1930-1944.	1.0	2
126	Seismic discontinuities in the lithospheric mantle at the Dead Sea Transform. <i>Geophysical Journal International</i> , 2020, 223, 1948-1955.	1.0	1

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127	Seismic, Receiver Function Technique. Encyclopedia of Earth Sciences Series, 2021, , 1580-1592.	0.1	1
128	Receiver Functions with S Waves. , 2016, , 1-16.		1
129	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.	1.0	1
130	Moho Doublet in Southern Tibet and Its Tectonic Implication. Acta Geologica Sinica, 2019, 93, 43-44.	0.8	0
131	Seismic imaging of subduction of continental crust beneath the Pamir. Acta Geologica Sinica, 2019, 93, 65-65.	0.8	0
132	Seismic, Receiver Function Technique. Encyclopedia of Earth Sciences Series, 2019, , 1-13.	0.1	0