

Ivan Koulakov

List of Publications by Year in descending order

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46
papers

1,656
citations

257450

24
h-index

302126

39
g-index

47
all docs

47
docs citations

47
times ranked

1325
citing authors

#	ARTICLE	IF	CITATIONS
1	High-frequency P and S velocity anomalies in the upper mantle beneath Asia from inversion of worldwide traveltimes. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	115
2	Rapid changes in magma storage beneath the Klyuchevskoy group of volcanoes inferred from time-dependent seismic tomography. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 263, 75-91.	2.1	100
3	Seismic tomographic imaging of P - and S -waves velocity perturbations in the upper mantle beneath Iran. <i>Geophysical Journal International</i> , 2007, 169, 1089-1102.	2.4	80
4	Moho depth and three-dimensional P and S structure of the crust and uppermost mantle in the Eastern Mediterranean and Middle East derived from tomographic inversion of local ISC data. <i>Geophysical Journal International</i> , 2006, 164, 218-235.	2.4	77
5	4D Arctic: A Glimpse into the Structure and Evolution of the Arctic in the Light of New Geophysical Maps, Plate Tectonics and Tomographic Models. <i>Surveys in Geophysics</i> , 2014, 35, 1095-1122.	4.6	70
6	Velocity structure around the Baikal rift zone from teleseismic and local earthquake traveltimes and geodynamic implications. <i>Tectonophysics</i> , 1998, 296, 125-144.	2.2	64
7	P , S velocity and $V_{P/S}$ ratio beneath the Toba caldera complex (Northern Sumatra) from local earthquake tomography. <i>Geophysical Journal International</i> , 2009, 177, 1121-1139.	2.4	63
8	Feeding volcanoes of the Klyuchevskoy group from the results of local earthquake tomography. <i>Geophysical Research Letters</i> , 2011, 38, .	4.0	63
9	P - and S -velocity images of the lithosphere-asthenosphere system in the Central Andes from local-source tomographic inversion. <i>Geophysical Journal International</i> , 2006, 167, 106-126.	2.4	62
10	Anisotropic structure beneath central Java from local earthquake tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	61
11	Delamination or slab detachment beneath Vrancea? New arguments from local earthquake tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	55
12	Three different types of plumbing system beneath the neighboring active volcanoes of Tolbachik, Bezymianny, and Klyuchevskoy in Kamchatka. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 3852-3874.	3.4	53
13	Mechanism of the Andean Orogeny: Insight from Numerical Modeling. , 2006, , 513-535.		50
14	Breathing of the Nevado del Ruiz volcano reservoir, Colombia, inferred from repeated seismic tomography. <i>Scientific Reports</i> , 2017, 7, 46094.	3.3	49
15	Structure and dynamics of the upper mantle beneath the Alpine-Himalayan orogenic belt, from teleseismic tomography. <i>Tectonophysics</i> , 2002, 358, 77-96.	2.2	48
16	The feeder system of the Toba supervolcano from the slab to the shallow reservoir. <i>Nature Communications</i> , 2016, 7, 12228.	12.8	47
17	Fluid ascent during the 2004-2005 unrest at Mt. Spurr inferred from seismic tomography. <i>Geophysical Research Letters</i> , 2013, 40, 4579-4582.	4.0	45
18	Upper mantle structure beneath the Siberian craton and surrounding areas based on regional tomographic inversion of P and PP travel times. <i>Tectonophysics</i> , 2010, 486, 81-100.	2.2	44

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19	Evidence for high fluid/melt content beneath Krakatau volcano (Indonesia) from local earthquake tomography. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 206, 96-105.	2.1	38
20	Seismic structure changes beneath Redoubt Volcano during the 2009 eruption inferred from local earthquake tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 4938-4954.	3.4	36
21	Fluid ascent and magma storage beneath Gunung Merapi revealed by multi-scale seismic imaging. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 261, 7-19.	2.1	34
22	Structural cause of a missed eruption in the Harrat Lunayyir basaltic field (Saudi Arabia) in 2009. <i>Geology</i> , 2015, 43, 395-398.	4.4	30
23	Evidence for anomalous mantle upwelling beneath the Arabian Platform from travel time tomography inversion. <i>Tectonophysics</i> , 2016, 667, 176-188.	2.2	29
24	Mantle and Crustal Sources of Magmatic Activity of Klyuchevskoy and Surrounding Volcanoes in Kamchatka Inferred From Earthquake Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020097.	3.4	29
25	Anisotropic tomography of Hokkaido reveals delamination-induced flow above a subducting slab. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 3219-3239.	3.4	27
26	Structure of Volatile Conduits beneath Gorely Volcano (Kamchatka) Revealed by Local Earthquake Tomography. <i>Geosciences (Switzerland)</i> , 2017, 7, 111.	2.2	25
27	Magmatic and Sedimentary Structure beneath the Klyuchevskoy Volcanic Group, Kamchatka, From Ambient Noise Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018900.	3.4	23
28	Three-dimensional seismic structure of the upper mantle beneath the central part of the Eurasian continent. <i>Geophysical Journal International</i> , 1998, 133, 467-489.	2.4	22
29	Studying deep sources of volcanism using multiscale seismic tomography. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 257, 205-226.	2.1	21
30	Unrest of the Udina volcano in Kamchatka inferred from the analysis of seismicity and seismic tomography. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 379, 45-59.	2.1	21
31	Teleseismic tomography reveals no signature of the Dead Sea Transform in the upper mantle structure. <i>Earth and Planetary Science Letters</i> , 2006, 252, 189-200.	4.4	20
32	Anatomy of the Bezymianny volcano merely before an explosive eruption on 20.12.2017. <i>Scientific Reports</i> , 2021, 11, 1758.	3.3	19
33	Creating realistic models based on combined forward modeling and tomographic inversion of seismic profiling data. <i>Geophysics</i> , 2010, 75, B115-B136.	2.6	18
34	Focused magmatism beneath Uturuncu volcano, Bolivia: Insights from seismic tomography and deformation modeling. <i>Journal of Geophysical Research</i> , 2017, 122, 1855-1866.		17
35	Seismic structure beneath the Gulf of Aqaba and adjacent areas based on the tomographic inversion of regional earthquake data. <i>Solid Earth</i> , 2016, 7, 965-978.	2.8	16
36	Evolution of the Magma Conduit Beneath the Galeras Volcano Inferred From Repeated Seismic Tomography. <i>Geophysical Research Letters</i> , 2018, 45, 7514-7522.	4.0	16

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37	Three-dimensional seismic anisotropy in the crust and uppermost mantle beneath the Taiwan area revealed by passive source tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 7814-7829.	3.4	14
38	Application of repeated passive source travel time tomography to reveal weak velocity changes related to the 2011 Tohoku M_w 9.0 earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 4408-4426.	3.4	9
39	Ongoing formation of felsic lower crustal channel by relamination in Zagros collision zone revealed from regional tomography. <i>Scientific Reports</i> , 2020, 10, 8224.	3.3	9
40	Seismic Tomography of Volcanoes. , 2021, , 1-18.		8
41	Seismic Tomography of Volcanoes. , 2015, , 3117-3134.		6
42	Pathways of volatile migration in the crust beneath Harrat Lunayyir (Saudi Arabia) during the unrest in 2009 revealed by attenuation tomography. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 330, 1-13.	2.1	5
43	Numerical modelling of seismic waves from earthquakes recorded by a network on ice floes. <i>Geophysical Journal International</i> , 2019, 218, 74-87.	2.4	5
44	Multiscale Seismic Tomography Imaging of Volcanic Complexes. , 2012, , .		4
45	Sources of the eruption of Kambalny volcano (Southern Kamchatka) in March 2017 inferred from local earthquake tomography. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 420, 107392.	2.1	4
46	Finding a realistic velocity distribution based on iterating forward modelling and tomographic inversion. <i>Geophysical Journal International</i> , 2011, 186, 349-358.	2.4	3