

I Yu Koulakov

List of Publications by Year in descending order

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papers

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citations

147786

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117
times ranked

2291
citing authors

#	ARTICLE	IF	CITATIONS
1	Seismic tremor reveals active trans-crustal magmatic system beneath Kamchatka volcanoes. <i>Science Advances</i> , 2022, 8, eabj1571.	10.3	13
2	Research of the seismic velocity variation under the Redoubt volcano. <i>Russian Journal of Geophysical Technologies</i> , 2022, , 36-46.	0.1	0
3	Low-degree mantle melting controls the deep seismicity and explosive volcanism of the Gakkel Ridge. <i>Nature Communications</i> , 2022, 13, .	12.8	8
4	Lithosphere structure in the collision zone of the NW Himalayas revealed by alocal earthquake tomography. <i>Journal of Geodynamics</i> , 2022, 152, 101922.	1.6	0
5	Structure of the magma plumbing system beneath Semisopochnoi Island (Aleutian Arc) inferred from seismic tomography. <i>Scientific Reports</i> , 2022, 12, .	3.3	8
6	Anatomy of the Bezymianny volcano merely before an explosive eruption on 20.12.2017. <i>Scientific Reports</i> , 2021, 11, 1758.	3.3	19
7	Crustal Structure of the Eastern Anatolia Region (Turkey) Based on Seismic Tomography. <i>Geosciences (Switzerland)</i> , 2021, 11, 91.	2.2	12
8	Research of the microseismicity location algorithm. <i>Russian Journal of Geophysical Technologies</i> , 2021, , 32-41.	0.1	0
9	Transition from continental rifting to oceanic spreading in the northern Red Sea area. <i>Scientific Reports</i> , 2021, 11, 5594.	3.3	11
10	Magma-Fluid Interactions Beneath Akutan Volcano in the Aleutian Arc Based on the Results of Local Earthquake Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021192.	3.4	10
11	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
12	The Structure of the Upper Crust beneath the Kambalny Volcano (South Kamchatka) Revealed from Ambient Noise Tomography. <i>Doklady Earth Sciences</i> , 2021, 501, 933-937.	0.7	0
13	Inflating Shallow Plumbing System of Bezymianny Volcano, Kamchatka, Studied by InSAR and Seismicity Data Prior to the 20 December 2017 Eruption. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	3
14	Directions of lithosphere interactions in the Pamir – Hindu Kush junction inferred from anisotropic tomography. <i>Canadian Journal of Earth Sciences</i> , 2020, 57, 601-616.	1.3	4
15	The Magma Feeding System of the Klyuchevskaya Group of Volcanoes (Kamchatka). <i>Doklady Earth Sciences</i> , 2020, 493, 627-631.	0.7	3
16	Peculiarities of Subduction in the Junction of the Kuril – Kamchatka and Aleutian Island Arcs. <i>Doklady Earth Sciences</i> , 2020, 494, 790-794.	0.7	2
17	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
18	Magma Chambers and Meteoric Fluid Flows Beneath the Atka Volcanic Complex (Aleutian Islands) Inferred from Local Earthquake Tomography. <i>Geosciences (Switzerland)</i> , 2020, 10, 214.	2.2	14

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19	Clustering of Long-Period Earthquakes Beneath Gorely Volcano (Kamchatka) during a Degassing Episode in 2013. <i>Geosciences (Switzerland)</i> , 2020, 10, 230.	2.2	5
20	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
21	BASIC TOMO: an educational tool for investigating the role of controlling parameters and observation geometry in tomography problems. <i>Russian Journal of Geophysical Technologies</i> , 2020, , 40-54.	0.1	3
22	Quantitative evaluation of spatial resolution in seismic tomography. <i>Russian Journal of Geophysical Technologies</i> , 2020, , 4-17.	0.1	0
23	Identification of changes in the activity of Kambalny volcano (South Kamchatka) based on correlation of seismic noise. <i>Russian Journal of Geophysical Technologies</i> , 2020, , 30-40.	0.1	0
24	Fault-Associated Magma Conduits Beneath Volc�n de Colima Revealed by Seismic Velocity and Attenuation Tomography Studies. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 8908-8923.	3.4	18
25	Tomographic Images of Magma Chambers Beneath the Avacha and Koryaksky Volcanoes in Kamchatka. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 9694-9713.	3.4	29
26	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
27	The 3� Velocity Models and Seismicity Highlight Forearc Deformation Due to Subducting Features (Central Vanuatu). <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 5754-5769.	3.4	2
28	Seismic velocity structure and intraplate seismicity beneath the Deccan Volcanic Province of western India. <i>Physics of the Earth and Planetary Interiors</i> , 2019, 287, 21-36.	1.9	12
29	Local Earthquake Tomography of the Nevado del Huila Volcanic Complex (Colombia): Magmatic and Tectonic Interactions in a Volcanic�Glacier Complex System. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 1688-1699.	3.4	11
30	Relationship Between Earthquake b -Values and Crustal Stresses in a Young Orogenic Belt. <i>Geophysical Research Letters</i> , 2018, 45, 1832-1837.	4.0	39
31	Collisional Processes in the Crust of the Northern Tien Shan Inferred From Velocity and Attenuation Tomography Studies. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 1752-1769.	3.4	25
32	Causes of volcanic unrest at Mt. Spurr in 2004�2005 inferred from repeated tomography. <i>Scientific Reports</i> , 2018, 8, 17482.	3.3	22
33	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
34	Growth of mountain belts in central Asia triggers a new collision zone in central India. <i>Scientific Reports</i> , 2018, 8, 10710.	3.3	20
35	Slab narrowing in the Central Mediterranean: the Calabro-Ionian subduction zone as imaged by high resolution seismic tomography. <i>Scientific Reports</i> , 2018, 8, 5178.	3.3	45
36	Magma plumbing system and seismicity of an active mid-ocean ridge volcano. <i>Scientific Reports</i> , 2017, 7, 42949.	3.3	18

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37	Breathing of the Nevado del Ruiz volcano reservoir, Colombia, inferred from repeated seismic tomography. <i>Scientific Reports</i> , 2017, 7, 46094.	3.3	49
38	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
39	3D seismic tomography of the lithosphere and its geodynamic implications beneath the northeast India region. <i>Tectonics</i> , 2017, 36, 962-980.	2.8	44
40	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
41	Full Aftershock Sequence of the M w 6.9 2003 Boumerdes Earthquake, Algeria: Space-Time Distribution, Local Tomography and Seismotectonic Implications. <i>Pure and Applied Geophysics</i> , 2017, 174, 2495-2521.	1.9	14
42	Possible sources of hydrothermal activity and mud volcanism in southern Sakhalin inferred from local earthquake seismic tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 1943-1958.	2.5	6
43	Structure of Volatile Conduits beneath Gorely Volcano (Kamchatka) Revealed by Local Earthquake Tomography. <i>Geosciences (Switzerland)</i> , 2017, 7, 111.	2.2	25
44	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
45	Application of repeated passive source travel time tomography to reveal weak velocity changes related to the 2011 Tohoku Mw 9.0 earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 4408-4426.	3.4	9
46	Structure of magma reservoirs beneath Merapi and surrounding volcanic centers of Central Java modeled from ambient noise tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4195-4211.	2.5	21
47	New structural and seismological evidence and interpretation of a lithospheric-scale shear zone at the southern edge of the Ionian subduction system (central-eastern Sicily, Italy). <i>Tectonics</i> , 2016, 35, 1489-1505.	2.8	35
48	Investigating P- and S-wave velocity structure beneath the Marmara region (Turkey) and the surrounding area from local earthquake tomography. <i>Earth, Planets and Space</i> , 2016, 68, .	2.5	13
49	The feeder system of the Toba supervolcano from the slab to the shallow reservoir. <i>Nature Communications</i> , 2016, 7, 12228.	12.8	47
50	Evidence for anomalous mantle upwelling beneath the Arabian Platform from travel time tomography inversion. <i>Tectonophysics</i> , 2016, 667, 176-188.	2.2	29
51	Crustal and uppermost mantle structure beneath the continental rifting area of the Gulf of Suez from earthquake tomography. <i>Tectonophysics</i> , 2016, 668-669, 92-104.	2.2	15
52	Seismic structure of the crust and uppermost mantle beneath Caucasus based on regional earthquake tomography. <i>Journal of Asian Earth Sciences</i> , 2016, 119, 87-99.	2.3	21
53	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
54	Subduction or delamination beneath the Apennines? Evidence from regional tomography. <i>Solid Earth</i> , 2015, 6, 669-679.	2.8	8

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55	Variations of the crustal thickness in Nepal Himalayas based on tomographic inversion of regional earthquake data. <i>Solid Earth</i> , 2015, 6, 207-216.	2.8	27
56	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
57	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
58	Probing the underbelly of a supervolcano. <i>Science</i> , 2015, 348, 758-759.	12.6	11
59	Experimental estimate of the actual infiltration (migration) of volatilities (H ₂ O + CO ₂) in rocks of the mantle wedge. <i>Doklady Earth Sciences</i> , 2015, 464, 932-935.	0.7	3
60	P and S waves tomographic analysis of the area of El Asnam's 1980 ms 7.3 earthquake (Algeria) from its aftershock sequence. <i>Journal of Seismology</i> , 2015, 19, 253-264.	1.3	7
61	Evidence of magma activation beneath the Harrat Lunayyir basaltic field (Saudi Arabia) from attenuation tomography. <i>Solid Earth</i> , 2014, 5, 873-882.	2.8	26
62	Seismic tomography of the area of the 2010 Beni-Illmane earthquake sequence, north-central Algeria. <i>SpringerPlus</i> , 2014, 3, 650.	1.2	7
63	Slab interactions in the Taiwan region based on the P- and S-velocity distributions in the upper mantle. <i>Journal of Asian Earth Sciences</i> , 2014, 79, 53-64.	2.3	22
64	The three-dimensional structure beneath the Popocatepetl volcano (Mexico) based on local earthquake seismic tomography. <i>Journal of Volcanology and Geothermal Research</i> , 2014, 276, 10-21.	2.1	24
65	A large magmatic sill complex beneath the Toba caldera. <i>Science</i> , 2014, 346, 617-619.	12.6	162
66	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
67	Asymmetric caldera-related structures in the area of the Avacha group of volcanoes in Kamchatka as revealed by ambient noise tomography and deep seismic sounding. <i>Journal of Volcanology and Geothermal Research</i> , 2014, 285, 36-46.	2.1	33
68	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
69	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
70	Studying deep sources of volcanism using multiscale seismic tomography. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 257, 205-226.	2.1	21
71	The distribution of Moho depths beneath the Arabian plate and margins. <i>Tectonophysics</i> , 2013, 609, 234-249.	2.2	35
72	Segmentation of the Izu-Bonin and Mariana slabs based on the analysis of the Benioff seismicity distribution and regional tomography results. <i>Solid Earth</i> , 2013, 4, 59-73.	2.8	28

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73	Seismic images of magmatic rifting beneath the western branch of the East African rift. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 4906-4920.	2.5	14
74	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
75	Nature of orogenesis and volcanism in the Caucasus region based on results of regional tomography. <i>Solid Earth</i> , 2012, 3, 327-337.	2.8	62
76	High resolution 3D P wave velocity structure beneath Tenerife Island (Canary Islands, Spain) based on tomographic inversion of active–source data. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	35
77	Arc–parallel shear deformation and escape flow in the mantle wedge of the Central America subduction zone: Evidence from P -wave anisotropy. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, .	2.5	19
78	High-frequency P - and S -velocity anomalies in the upper mantle beneath Asia from inversion of worldwide travelttime data. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	115
79	Feeding volcanoes of the Kluchevskoy group from the results of local earthquake tomography. <i>Geophysical Research Letters</i> , 2011, 38, .	4.0	63
80	Crustal Seismic Velocities of the Rwenzori Region, East African Rift, from Local Travel-Time Tomography: Evidence for Low-Velocity Anomalies beneath the Mountain Range. <i>Bulletin of the Seismological Society of America</i> , 2011, 101, 848-858.	2.3	12
81	Distribution of Seismic Velocities and Attenuation in the Crust beneath the North Anatolian Fault (Turkey) from Local Earthquake Tomography. <i>Bulletin of the Seismological Society of America</i> , 2010, 100, 207-224.	2.3	67
82	Delamination or slab detachment beneath Vrancea? New arguments from local earthquake tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	55
83	LOTOS Code for Local Earthquake Tomographic Inversion: Benchmarks for Testing Tomographic Algorithms. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 194-214.	2.3	186
84	P - and S -velocity and V_{P}/V_{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
85	P - and S -velocity anomalies in the upper mantle beneath Europe from tomographic inversion of ISC data. <i>Geophysical Journal International</i> , 2009, 179, 345-366.	2.4	163
86	Anisotropic structure beneath central Java from local earthquake tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	61
87	Anatomy of the Dead Sea Transform from lithospheric to microscopic scale. <i>Reviews of Geophysics</i> , 2009, 47, .	23.0	56
88	Out-of-Network Events Can Be of Great Importance for Improving Results of Local Earthquake Tomography. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 2556-2563.	2.3	47
89	P - and S -velocity structure of the crust and the upper mantle beneath central Java from local tomography inversion. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	107
90	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

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91	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
92	A tomographic image of Indian lithosphere break-off beneath the Pamir-Hindukush region. <i>Geophysical Journal International</i> , 2006, 164, 425-440.	2.4	132
93	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
94	Crustal structure and dynamics of the Tien Shan. <i>Geophysical Research Letters</i> , 2002, 29, 4-1-4-4.	4.0	34
95	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