

Irina Artemieva

List of Publications by Year in descending order

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73
papers

4,070
citations

172207

29
h-index

123241

61
g-index

103
all docs

103
docs citations

103
times ranked

2780
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal thickness and evolution of Precambrian lithosphere: A global study. <i>Journal of Geophysical Research</i> , 2001, 106, 16387-16414.	3.3	729
2	Global 1 st -1 st thermal model TC1 for the continental lithosphere: Implications for lithosphere secular evolution. <i>Tectonophysics</i> , 2006, 416, 245-277.	0.9	428
3	Moho and magmatic underplating in continental lithosphere. <i>Tectonophysics</i> , 2013, 609, 605-619.	0.9	303
4	The continental lithosphere: Reconciling thermal, seismic, and petrologic data. <i>Lithos</i> , 2009, 109, 23-46.	0.6	253
5	Density of the continental roots: compositional and thermal contributions. <i>Earth and Planetary Science Letters</i> , 2003, 209, 53-69.	1.8	161
6	TOPO-EUROPE: The geoscience of coupled deep Earth-surface processes. <i>Global and Planetary Change</i> , 2007, 58, 1-118.	1.6	137
7	EUNaseis: A seismic model for Moho and crustal structure in Europe, Greenland, and the North Atlantic region. <i>Tectonophysics</i> , 2013, 609, 97-153.	0.9	132
8	Cenozoic uplift and subsidence in the North Atlantic region: Geological evidence revisited. <i>Tectonophysics</i> , 2009, 474, 78-105.	0.9	129
9	Crustal structure of the Siberian craton and the West Siberian basin: An appraisal of existing seismic data. <i>Tectonophysics</i> , 2013, 609, 154-183.	0.9	98
10	Crustal structure and tectonic model of the Arctic region. <i>Earth-Science Reviews</i> , 2016, 154, 29-71.	4.0	97
11	Caveats on tomographic images. <i>Terra Nova</i> , 2013, 25, 259-281.	0.9	94
12	Seismic anisotropy and mantle creep in young orogens. <i>Geophysical Journal International</i> , 2002, 149, 1-14.	1.0	91
13	Lithospheric structure, composition, and thermal regime of the East European Craton: implications for the subsidence of the Russian platform. <i>Earth and Planetary Science Letters</i> , 2003, 213, 431-446.	1.8	83
14	On the relations between cratonic lithosphere thickness, plate motions, and basal drag. <i>Tectonophysics</i> , 2002, 358, 211-231.	0.9	82
15	Shear wave velocity, seismic attenuation, and thermal structure of the continental upper mantle. <i>Geophysical Journal International</i> , 2004, 157, 607-628.	1.0	79
16	Moho depth and crustal composition in Southern Africa. <i>Tectonophysics</i> , 2013, 609, 267-287.	0.9	77
17	Heat production in granitic rocks: Global analysis based on a new data compilation GRANITE2017. <i>Earth-Science Reviews</i> , 2017, 172, 1-26.	4.0	77
18	Deep Europe today: geophysical synthesis of the upper mantle structure and lithospheric processes over 3.5 Ga. <i>Geological Society Memoir</i> , 2006, 32, 11-41.	0.9	68

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19	Dynamic topography of the East European craton: Shedding light upon lithospheric structure, composition and mantle dynamics. <i>Global and Planetary Change</i> , 2007, 58, 411-434.	1.6	56
20	The deep structure of the Scandes and its relation to tectonic history and present-day topography. <i>Tectonophysics</i> , 2013, 602, 15-37.	0.9	54
21	Crustal thickness controlled by plate tectonics: A review of crust-mantle interaction processes illustrated by European examples. <i>Tectonophysics</i> , 2012, 530-531, 18-49.	0.9	53
22	Seismic velocity model of the crust and upper mantle along profile PANCAKE across the Carpathians between the Pannonian Basin and the East European Craton. <i>Tectonophysics</i> , 2013, 608, 1049-1072.	0.9	51
23	Lithosphere structure in Europe from thermal isostasy. <i>Earth-Science Reviews</i> , 2019, 188, 454-468.	4.0	43
24	100 years of seismic research on the Moho. <i>Tectonophysics</i> , 2013, 609, 9-44.	0.9	40
25	Seismic model of the crust and upper mantle in the Scythian Platform: the DOBRE-5 profile across the north western Black Sea and the Crimean Peninsula. <i>Geophysical Journal International</i> , 2015, 201, 406-428.	1.0	39
26	Seismic crustal structure of the North China Craton and surrounding area: Synthesis and analysis. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 5181-5207.	1.4	35
27	Upper mantle structure beneath southern African cratons from seismic finite-frequency P- and S-body wave tomography. <i>Earth and Planetary Science Letters</i> , 2015, 420, 174-186.	1.8	34
28	Deep Norden: Highlights of the lithospheric structure of Northern Europe, Iceland, and Greenland. <i>Episodes</i> , 2008, 31, 98-106.	0.8	34
29	Density heterogeneity of the cratonic lithosphere: A case study of the Siberian Craton. <i>Gondwana Research</i> , 2015, 28, 1344-1360.	3.0	32
30	Sensitivity analysis of crustal correction for calculation of lithospheric mantle density from gravity data. <i>Geophysical Journal International</i> , 2016, 204, 687-696.	1.0	29
31	Crustal structure of the Mendeleev Rise and the Chukchi Plateau (Arctic Ocean) along the Russian wide-angle and multichannel seismic reflection experiment "Arctic-2012". <i>Journal of Geodynamics</i> , 2018, 119, 107-122.	0.7	26
32	Geodynamics of Anatolia: Lithosphere Thermal Structure and Thickness. <i>Tectonics</i> , 2019, 38, 4465-4487.	1.3	26
33	Lithosphere thermal thickness and geothermal heat flux in Greenland from a new thermal isostasy method. <i>Earth-Science Reviews</i> , 2019, 188, 469-481.	4.0	24
34	Density structure of the cratonic mantle in southern Africa: 1. Implications for dynamic topography. <i>Gondwana Research</i> , 2016, 39, 204-216.	3.0	22
35	Making and altering the crust: A global perspective on crustal structure and evolution. <i>Earth and Planetary Science Letters</i> , 2019, 512, 8-16.	1.8	21
36	Isopycnicity of cratonic mantle restricted to kimberlite provinces. <i>Earth and Planetary Science Letters</i> , 2019, 505, 13-19.	1.8	20

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37	No mafic layer in 80 km thick Tibetan crust. <i>Nature Communications</i> , 2021, 12, 1069.	5.8	19
38	Moho. <i>Tectonophysics</i> , 2013, 609, 1-8.	0.9	17
39	Processes of lithosphere evolution: new evidence on the structure of the continental crust and uppermost mantle. <i>Tectonophysics</i> , 2002, 358, 1-15.	0.9	16
40	Lithosphere Mantle Density of the North China Craton. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020296.	1.4	16
41	Control on off-rift magmatism: A case study of the Baikal Rift Zone. <i>Earth and Planetary Science Letters</i> , 2018, 482, 501-509.	1.8	15
42	DOBRE-2 WARR profile: the Earth's upper crust across Crimea between the Azov Massif and the northeastern Black Sea. <i>Geological Society Special Publication</i> , 2017, 428, 199-220.	0.8	13
43	Thermochemical Heterogeneity and Density of Continental and Oceanic Upper Mantle in the European-North Atlantic Region. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 9280-9312.	1.4	13
44	Crustal density structure of the northwestern Iranian Plateau. <i>Canadian Journal of Earth Sciences</i> , 2019, 56, 1347-1365.	0.6	13
45	Density structure of the cratonic mantle in Southern Africa: 2. Correlations with kimberlite distribution, seismic velocities, and Moho sharpness. <i>Gondwana Research</i> , 2016, 36, 14-27.	3.0	11
46	Is the Proterozoic Ladoga Rift (SE Baltic Shield) a rift?. <i>Precambrian Research</i> , 2015, 259, 34-42.	1.2	10
47	Geophysical constraints on geodynamic processes at convergent margins: A global perspective. <i>Gondwana Research</i> , 2016, 33, 4-23.	3.0	9
48	Continent size revisited: Geophysical evidence for West Antarctica as a back-arc system. <i>Earth-Science Reviews</i> , 2020, 202, 103106.	4.0	9
49	ScanArray – A Broadband Seismological Experiment in the Baltic Shield. <i>Seismological Research Letters</i> , 2021, 92, 2811-2823.	0.8	9
50	Southern Africa crustal anisotropy reveals coupled crust-mantle evolution for over 2 billion years. <i>Nature Communications</i> , 2019, 10, 5445.	5.8	8
51	What Lies Deep in the Mantle Below?. <i>Eos</i> , 2015, 96, .	0.1	8
52	A new tectonic map of the Iranian plateau based on aeromagnetic identification of magmatic arcs and ophiolite belts. <i>Tectonophysics</i> , 2020, 792, 228588.	0.9	7
53	Incipient ocean spreading beneath the Arabian shield. <i>Earth-Science Reviews</i> , 2022, 226, 103955.	4.0	7
54	Thermal characteristics of anisotropic media with inclusions. <i>Geophysical Journal International</i> , 1991, 107, 557-562.	1.0	5

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55	Long-lived Paleoproterozoic eclogitic lower crust. Nature Communications, 2021, 12, 6553.	5.8	5
56	Antarctica ice sheet basal melting enhanced by high mantle heat. Earth-Science Reviews, 2022, 226, 103954.	4.0	5
57	The dependence of transport properties of in situ rocks on pore fluid composition and temperature. Surveys in Geophysics, 1996, 17, 289-306.	2.1	4
58	Samovar: a thermomechanical code for modeling of geodynamic processes in the lithosphere – application to basin evolution. Arabian Journal of Geosciences, 2010, 3, 477-497.	0.6	2
59	Flexure and rheology. , 2011, , 505-606.		1
60	What is the lithosphere?. , 0, , 1-14.		1
61	A lithospheric perspective on structure and evolution of Precambrian cratons. , 2012, , 94-111.		1
62	Thetys subduction and continental collision imaged by magnetic and gravity modelling. Acta Geologica Sinica, 2019, 93, 61-62.	0.8	1
63	Electrical structure of the lithosphere. , 0, , 425-504.		0
64	Age of the lithosphere. , 0, , 15-46.		0
65	Evolution of the lithosphere. , 0, , 607-669.		0
66	Thermal regime of the lithosphere from heat flow data. , 0, , 220-316.		0
67	CBL and lithospheric density from petrologic and geophysical data. , 0, , 374-424.		0
68	Thermal state of the lithosphere from non-thermal data. , 0, , 317-373.		0
69	Summary of lithospheric properties. , 0, , 670-677.		0
70	Seismic structure of the lithosphere. , 0, , 47-219.		0
71	Trans-European Suture Zone. Encyclopedia of Earth Sciences Series, 2021, , 1819-1827.	0.1	0
72	14. In Situ Transport and Seismic Properties of Reservoir and Hot Dry Rocks. , 2001, , 217-238.		0

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73	Trans-European Suture Zone. Encyclopedia of Earth Sciences Series, 2020, , 1-11.	0.1	0