

# Irina Artemieva

## List of Publications by Citations

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72  
papers

3,110  
citations

26  
h-index

55  
g-index

103  
ext. papers

3,609  
ext. citations

4.9  
avg, IF

5.9  
L-index

#	Paper	IF	Citations
72	Thermal thickness and evolution of Precambrian lithosphere: A global study. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 16387-16414		602
71	Global 1D thermal model TC1 for the continental lithosphere: Implications for lithosphere secular evolution. <i>Tectonophysics</i> , <b>2006</b> , 416, 245-277	3.1	353
70	Moho and magmatic underplating in continental lithosphere. <i>Tectonophysics</i> , <b>2013</b> , 609, 605-619	3.1	230
69	The continental lithosphere: Reconciling thermal, seismic, and petrologic data. <i>Lithos</i> , <b>2009</b> , 109, 23-46	2.9	206
68	Density of the continental roots: compositional and thermal contributions. <i>Earth and Planetary Science Letters</i> , <b>2003</b> , 209, 53-69	5.3	135
67	Cenozoic uplift and subsidence in the North Atlantic region: Geological evidence revisited. <i>Tectonophysics</i> , <b>2009</b> , 474, 78-105	3.1	104
66	EUNaseis: A seismic model for Moho and crustal structure in Europe, Greenland, and the North Atlantic region. <i>Tectonophysics</i> , <b>2013</b> , 609, 97-153	3.1	103
65	TOPO-EUROPE: The geoscience of coupled deep Earth-surface processes. <i>Global and Planetary Change</i> , <b>2007</b> , 58, 1-118	4.2	102
64	Seismic anisotropy and mantle creep in young orogens. <i>Geophysical Journal International</i> , <b>2002</b> , 149, 1-14	2.6	81
63	On the relations between cratonic lithosphere thickness, plate motions, and basal drag. <i>Tectonophysics</i> , <b>2002</b> , 358, 211-231	3.1	73
62	Caveats on tomographic images. <i>Terra Nova</i> , <b>2013</b> , 25, 259-281	3	72
61	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> , <b>2003</b> , 213, 431-446	5.3	71
60	Crustal structure and tectonic model of the Arctic region. <i>Earth-Science Reviews</i> , <b>2016</b> , 154, 29-71	10.2	66
59	Crustal structure of the Siberian craton and the West Siberian basin: An appraisal of existing seismic data. <i>Tectonophysics</i> , <b>2013</b> , 609, 154-183	3.1	66
58	The Lithosphere: An Interdisciplinary Approach <b>2011</b> ,		65
57	Shear wave velocity, seismic attenuation, and thermal structure of the continental upper mantle. <i>Geophysical Journal International</i> , <b>2004</b> , 157, 607-628	2.6	65
56	Moho depth and crustal composition in Southern Africa. <i>Tectonophysics</i> , <b>2013</b> , 609, 267-287	3.1	62

55	Dynamic topography of the East European craton: Shedding light upon lithospheric structure, composition and mantle dynamics. <i>Global and Planetary Change</i> , <b>2007</b> , 58, 411-434	4.2	51
54	The deep structure of the Scandes and its relation to tectonic history and present-day topography. <i>Tectonophysics</i> , <b>2013</b> , 602, 15-37	3.1	49
53	Deep Europe today: geophysical synthesis of the upper mantle structure and lithospheric processes over 3.5 Ga. <i>Geological Society Memoir</i> , <b>2006</b> , 32, 11-41	0.4	48
52	Crustal thickness controlled by plate tectonics: A review of crust-mantle interaction processes illustrated by European examples. <i>Tectonophysics</i> , <b>2012</b> , 530-531, 18-49	3.1	40
51	Heat production in granitic rocks: Global analysis based on a new data compilation GRANITE2017. <i>Earth-Science Reviews</i> , <b>2017</b> , 172, 1-26	10.2	38
50	Deep Norden: Highlights of the lithospheric structure of Northern Europe, Iceland, and Greenland. <i>Episodes</i> , <b>2008</b> , 31, 98-106	1.6	32
49	100years of seismic research on the Moho. <i>Tectonophysics</i> , <b>2013</b> , 609, 9-44	3.1	30
48	Upper mantle structure beneath southern African cratons from seismic finite-frequency P- and S-body wave tomography. <i>Earth and Planetary Science Letters</i> , <b>2015</b> , 420, 174-186	5.3	27
47	Lithosphere structure in Europe from thermal isostasy. <i>Earth-Science Reviews</i> , <b>2019</b> , 188, 454-468	10.2	26
46	Density heterogeneity of the cratonic lithosphere: A case study of the Siberian Craton. <i>Gondwana Research</i> , <b>2015</b> , 28, 1344-1360	5.1	24
45	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> , <b>2013</b> , 608, 1049-1072	3.1	23
44	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> , <b>2015</b> , 201, 406-428	2.6	22
43	Seismic crustal structure of the North China Craton and surrounding area: Synthesis and analysis. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2017</b> , 122, 5181-5207	3.6	21
42	Sensitivity analysis of crustal correction for calculation of lithospheric mantle density from gravity data. <i>Geophysical Journal International</i> , <b>2016</b> , 204, 687-696	2.6	20
41	Density structure of the cratonic mantle in southern Africa: 1. Implications for dynamic topography. <i>Gondwana Research</i> , <b>2016</b> , 39, 204-216	5.1	18
40	Lithosphere thermal thickness and geothermal heat flux in Greenland from a new thermal isostasy method. <i>Earth-Science Reviews</i> , <b>2019</b> , 188, 469-481	10.2	17
39	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> , <b>2018</b> , 119, 107-122	2.2	15
38	Geodynamics of Anatolia: Lithosphere Thermal Structure and Thickness. <i>Tectonics</i> , <b>2019</b> , 38, 4465-4487	4.3	15

37	Processes of lithosphere evolution: new evidence on the structure of the continental crust and uppermost mantle. <i>Tectonophysics</i> , <b>2002</b> , 358, 1-15	3.1	13
36	Moho.: <i>Tectonophysics</i> , <b>2013</b> , 609, 1-8	3.1	12
35	Isopycnicity of cratonic mantle restricted to kimberlite provinces. <i>Earth and Planetary Science Letters</i> , <b>2019</b> , 505, 13-19	5.3	12
34	Crustal density structure of the northwestern Iranian Plateau. <i>Canadian Journal of Earth Sciences</i> , <b>2019</b> , 56, 1347-1365	1.5	9
33	Lithosphere Mantle Density of the North China Craton. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2020</b> , 125, e2020JB020296	3.6	8
32	Density structure of the cratonic mantle in Southern Africa: 2. Correlations with kimberlite distribution, seismic velocities, and Moho sharpness. <i>Gondwana Research</i> , <b>2016</b> , 36, 14-27	5.1	8
31	Making and altering the crust: A global perspective on crustal structure and evolution. <i>Earth and Planetary Science Letters</i> , <b>2019</b> , 512, 8-16	5.3	8
30	Control on off-rift magmatism: A case study of the Baikal Rift Zone. <i>Earth and Planetary Science Letters</i> , <b>2018</b> , 482, 501-509	5.3	8
29	Geophysical constraints on geodynamic processes at convergent margins: A global perspective. <i>Gondwana Research</i> , <b>2016</b> , 33, 4-23	5.1	7
28	What Lies Deep in the Mantle Below?. <i>Eos</i> , <b>2015</b> , 96,	1.5	7
27	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> , <b>2017</b> , 428, 199-220	1.7	6
26	No mafic layer in 80 km thick Tibetan crust. <i>Nature Communications</i> , <b>2021</b> , 12, 1069	17.4	6
25	Continent size revisited: Geophysical evidence for West Antarctica as a back-arc system. <i>Earth-Science Reviews</i> , <b>2020</b> , 202, 103106	10.2	4
24	Is the Proterozoic Ladoga Rift (SE Baltic Shield) a rift?. <i>Precambrian Research</i> , <b>2015</b> , 259, 34-42	3.9	4
23	Thermochemical Heterogeneity and Density of Continental and Oceanic Upper Mantle in the European-North Atlantic Region. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2019</b> , 124, 9280-9312	3.6	3
22	Thermal characteristics of anisotropic media with inclusions. <i>Geophysical Journal International</i> , <b>1991</b> , 107, 557-562	2.6	3
21	ScanArray Broadband Seismological Experiment in the Baltic Shield. <i>Seismological Research Letters</i> , <b>2021</b> , 92, 2811-2823	3	3
20	Southern Africa crustal anisotropy reveals coupled crust-mantle evolution for over 2 billion years. <i>Nature Communications</i> , <b>2019</b> , 10, 5445	17.4	3

19	Samovar: a thermomechanical code for modeling of geodynamic processes in the lithosphere—Application to basin evolution. <i>Arabian Journal of Geosciences</i> , <b>2010</b> , 3, 477-497	1.8	2
18	The dependence of transport properties of in situ rocks on pore fluid composition and temperature. <i>Surveys in Geophysics</i> , <b>1996</b> , 17, 289-306	7.6	2
17	Antarctica ice sheet basal melting enhanced by high mantle heat. <i>Earth-Science Reviews</i> , <b>2022</b> , 226, 103954	5.2	2
16	Thetys subduction and continental collision imaged by magnetic and gravity modelling. <i>Acta Geologica Sinica</i> , <b>2019</b> , 93, 61-62	0.7	1
15	A lithospheric perspective on structure and evolution of Precambrian cratons <b>2012</b> , 94-111		1
14	Flexure and rheology 505-606		1
13	What is the lithosphere? 1-14		1
12	Long-lived Paleoproterozoic eclogitic lower crust. <i>Nature Communications</i> , <b>2021</b> , 12, 6553	17.4	1
11	Incipient ocean spreading beneath the Arabian shield. <i>Earth-Science Reviews</i> , <b>2022</b> , 226, 103955	10.2	0
10	A new tectonic map of the Iranian plateau based on aeromagnetic identification of magmatic arcs and ophiolite belts. <i>Tectonophysics</i> , <b>2020</b> , 792, 228588	3.1	0
9	Electrical structure of the lithosphere 425-504		
8	Age of the lithosphere 15-46		
7	Evolution of the lithosphere 607-669		
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1 14. In Situ Transport and Seismic Properties of Reservoir and Hot Dry Rocks **2001**, 217-238