

Mikhail K Kaban

List of Publications by Year in descending order

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84
papers

3,069
citations

126907

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175258

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101
all docs

101
docs citations

101
times ranked

2183
citing authors

#	ARTICLE	IF	CITATIONS
1	A Thermo-Compositional Model of the African Cratonic Lithosphere. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	2.5	4
2	Regional Geophysics of the Caribbean and Northern South America: Implications for Tectonics. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	2.5	8
3	Giant Quasi-Ring Mantle Structure in the African-Arabian Junction: Results Derived from the Geological-Geophysical Data Integration. <i>Geotectonics</i> , 2021, 55, 58-82.	0.9	11
4	Gravity Anomalies, Interpretation. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 585-591.	0.1	0
5	A Thermo-Compositional Model of the Cratonic Lithosphere of South America. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009307.	2.5	7
6	3D Density Structure of the Lunar Mascon Basins Revealed by a High-Efficient Gravity Inversion of the GRAIL Data. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006841.	3.6	16
7	Thickness of sediments in the Congo basin based on the analysis of decompensative gravity anomalies. <i>Journal of African Earth Sciences</i> , 2021, 179, 104201.	2.0	3
8	The Congo Basin: Subsurface structure interpreted using potential field data and constrained by seismic data. <i>Global and Planetary Change</i> , 2021, 205, 103611.	3.5	4
9	Structure and Density of Sedimentary Basins in the Southern Part of the East-European Platform and Surrounding Area. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 512.	2.5	6
10	Sedimentary basins of the eastern Asia Arctic zone: new details on their structure revealed by decompensative gravity anomalies. <i>Solid Earth</i> , 2021, 12, 2773-2788.	2.8	4
11	Thermal and Compositional Anomalies of the Australian Upper Mantle From Seismic and Gravity Data. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009305.	2.5	14
12	Strength variations of the Australian continent: Effects of temperature, strain rate, and rheological changes. <i>Global and Planetary Change</i> , 2020, 195, 103322.	3.5	6
13	Geodynamics, seismicity, and seismic hazards of the Caucasus. <i>Earth-Science Reviews</i> , 2020, 207, 103222.	9.1	45
14	Mantle Convection Patterns Reveal the Mechanism of the Red Sea Rifting. <i>Tectonics</i> , 2020, 39, e2019TC005829.	2.8	13
15	Moho Beneath Tibet Based on a Joint Analysis of Gravity and Seismic Data. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008849.	2.5	22
16	Upper-mantle density structure in the Philippine Sea and adjacent region and its relation to tectonics. <i>Geophysical Journal International</i> , 2019, 219, 945-957.	2.4	12
17	Decompensative Gravity Anomalies Reveal the Structure of the Upper Crust of Antarctica. <i>Pure and Applied Geophysics</i> , 2019, 176, 4401-4414.	1.9	10
18	Downscaling GRACE Predictions of the Crustal Response to the Present-Day Mass Changes in Greenland. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 5134-5152.	3.4	7

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19	Efficient 3D Large-Scale Forward Modeling and Inversion of Gravitational Fields in Spherical Coordinates With Application to Lunar Mascons. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 4157-4173.	3.4	22
20	3D Density, Thermal, and Compositional Model of the Antarctic Lithosphere and Implications for Its Evolution. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 688-707.	2.5	30
21	The Challenge of Spatial Resolutions for GRACE-Based Estimates Volume Changes of Larger Man-Made Lake: The Case of China's Three Gorges Reservoir in the Yangtze River. <i>Remote Sensing</i> , 2019, 11, 99.	4.0	14
22	The integrative density model of the crust and upper mantle of Eurasia: representation in GIS environment. <i>Russian Journal of Earth Sciences</i> , 2019, 19, 1-15.	0.7	0
23	Increased water storage of Lake Qinghai during 2004–2012 from GRACE data, hydrological models, radar altimetry and in situ measurements. <i>Geophysical Journal International</i> , 2018, 212, 679-693.	2.4	15
24	Strength and elastic thickness variations in the Arabian Plate: A combination of temperature, composition and strain rates of the lithosphere. <i>Tectonophysics</i> , 2018, 746, 398-411.	2.2	13
25	Variations of the effective elastic thickness reveal tectonic fragmentation of the Antarctic lithosphere. <i>Tectonophysics</i> , 2018, 746, 412-424.	2.2	27
26	Density structure and isostasy of the lithosphere in Egypt and their relation to seismicity. <i>Solid Earth</i> , 2018, 9, 833-846.	2.8	9
27	Reconsidering Effective Elastic Thickness Estimates by Incorporating the Effect of Sediments: A Case Study for Europe. <i>Geophysical Research Letters</i> , 2018, 45, 9523-9532.	4.0	23
28	Diverse Continental Subduction Scenarios Along the Arabia–Eurasia Collision Zone. <i>Geophysical Research Letters</i> , 2018, 45, 6898-6906.	4.0	17
29	Importance of the Decompensative Correction of the Gravity Field for Study of the Upper Crust: Application to the Arabian Plate and Surroundings. <i>Pure and Applied Geophysics</i> , 2017, 174, 349-358.	1.9	11
30	Melting at the base of the Greenland ice sheet explained by Iceland hotspot history. <i>Nature Geoscience</i> , 2016, 9, 366-369.	12.9	91
31	Isostatic Model and Isostatic Gravity Anomalies of the Arabian Plate and Surroundings. <i>Pure and Applied Geophysics</i> , 2016, 173, 1211-1221.	1.9	33
32	Three-dimensional density model of the upper mantle in the Middle East: Interaction of diverse tectonic processes. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 5349-5364.	3.4	38
33	3D density model of the upper mantle of Asia based on inversion of gravity and seismic tomography data. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4457-4477.	2.5	43
34	Variations of the lithospheric strength and elastic thickness in North America. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 2197-2220.	2.5	48
35	Effects of the postperovskite phase change on the observed geoid. <i>Geophysical Research Letters</i> , 2015, 42, 44-52.	4.0	3
36	Effective elastic thickness of the Arabian plate: Weak shield versus strong platform. <i>Geophysical Research Letters</i> , 2015, 42, 3298-3304.	4.0	38

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37	Cratonic root beneath North America shifted by basal drag from the convecting mantle. <i>Nature Geoscience</i> , 2015, 8, 797-800.	12.9	47
38	The use of the A10-022 absolute gravimeter to construct the relative gravimeter calibration baselines in China. <i>Metrologia</i> , 2014, 51, 203-211.	1.2	1
39	Density Structure, Isostatic Balance and Tectonic Models of the Central Tien Shan. <i>Surveys in Geophysics</i> , 2014, 35, 1375-1391.	4.6	13
40	Density, temperature, and composition of the North American lithosphere—New insights from a joint analysis of seismic, gravity, and mineral physics data: 1. Density structure of the crust and upper mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 4781-4807.	2.5	50
41	Elastic thickness, mechanical anisotropy and deformation of the southeastern Tibetan Plateau. <i>Tectonophysics</i> , 2014, 637, 45-56.	2.2	18
42	Effect of Decoupling of Lithospheric Plates on the Observed Geoid. <i>Surveys in Geophysics</i> , 2014, 35, 1361-1373.	4.6	18
43	NACr14: A 3D model for the crustal structure of the North American Continent. <i>Tectonophysics</i> , 2014, 631, 65-86.	2.2	42
44	Density, temperature, and composition of the North American lithosphere—New insights from a joint analysis of seismic, gravity, and mineral physics data: 2. Thermal and compositional model of the upper mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 4808-4830.	2.5	45
45	Heat flux variations beneath central Greenland's ice due to anomalously thin lithosphere. <i>Nature Geoscience</i> , 2013, 6, 746-750.	12.9	43
46	Contrasts of seismic velocity, density and strength across the Moho. <i>Tectonophysics</i> , 2013, 609, 437-455.	2.2	39
47	Global model for the lithospheric strength and effective elastic thickness. <i>Tectonophysics</i> , 2013, 602, 78-86.	2.2	51
48	Variations of the effective elastic thickness over China and surroundings and their relation to the lithosphere dynamics. <i>Earth and Planetary Science Letters</i> , 2013, 363, 61-72.	4.4	55
49	High resolution regional crustal models from irregularly distributed data: Application to Asia and adjacent areas. <i>Tectonophysics</i> , 2013, 602, 55-68.	2.2	77
50	Revising the spectral method as applied to modeling mantle dynamics. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3691-3702.	2.5	12
51	Density structure of the mantle transition zone and the dynamic geoid. <i>Journal of Geodynamics</i> , 2012, 59-60, 183-192.	1.6	14
52	Global strength and elastic thickness of the lithosphere. <i>Global and Planetary Change</i> , 2012, 90-91, 51-57.	3.5	66
53	The effective elastic thickness of the continental lithosphere: Comparison between rheological and inverse approaches. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	62
54	Ductile crustal flow in Europe's lithosphere. <i>Earth and Planetary Science Letters</i> , 2011, 312, 254-265.	4.4	14

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55	The North American upper mantle: Density, composition, and evolution. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	123
56	An integrated gravity model for Europe's crust and upper mantle. <i>Earth and Planetary Science Letters</i> , 2010, 296, 195-209.	4.4	53
57	10.1007/s11486-008-1003-4. , 2010, 44, 18.		0
58	<i>P</i> - and <i>S</i> -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
59	A new thermal and rheological model of the European lithosphere. <i>Tectonophysics</i> , 2009, 476, 478-495.	2.2	105
60	Thermal and Rheological Model of the European Lithosphere. , 2009, , 71-101.		5
61	How rigid is Europe's lithosphere?. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	47
62	3D Crustal Model of Western and Central Europe as a Basis for Modelling Mantle Structure. , 2009, , 39-69.		3
63	EuCRUST07: A new reference model for the European crust. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	213
64	On a spectral method of solving the Stokes equation. <i>Izvestiya, Physics of the Solid Earth</i> , 2008, 44, 18-25.	0.9	2
65	Mechanical and thermal effects of floating continents on the global mantle convection. <i>Physics of the Earth and Planetary Interiors</i> , 2008, 171, 313-322.	1.9	20
66	3D strength and gravity anomalies of the European lithosphere. <i>Earth and Planetary Science Letters</i> , 2007, 263, 56-73.	4.4	41
67	Importance of lateral viscosity variations in the whole mantle for modelling of the dynamic geoid and surface velocities. <i>Journal of Geodynamics</i> , 2007, 43, 262-273.	1.6	12
68	Simulation of active tectonic processes for a convecting mantle with moving continents. <i>Geophysical Journal International</i> , 2006, 164, 611-623.	2.4	12
69	Crust and mantle of the Tien Shan from data of the receiver function tomography. <i>Izvestiya, Physics of the Solid Earth</i> , 2006, 42, 639-651.	0.9	51
70	Factors responsible for the high position of the Siberian platform. <i>Izvestiya, Physics of the Solid Earth</i> , 2006, 42, 987-998.	0.9	9
71	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.	1.7	68
72	Dynamic Topography as Reflected in the Global Gravity Field. , 2005, , 199-204.		0

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73	A new isostatic model of the lithosphere and gravity field. <i>Journal of Geodesy</i> , 2004, 78, 368-385.	3.6	110
74	Receiver function tomography of the central Tien Shan. <i>Earth and Planetary Science Letters</i> , 2004, 225, 131-146.	4.4	159
75	Density of the continental roots: compositional and thermal contributions. <i>Earth and Planetary Science Letters</i> , 2003, 209, 53-69.	4.4	161
76	Insights into the architecture and evolution of the Southern and Middle Urals from gravity and magnetic data. <i>Geophysical Monograph Series</i> , 2002, , 49-65.	0.1	9
77	Nature of the crust-mantle transition zone and the thermal state of the upper mantle beneath Iceland from gravity modelling. <i>Geophysical Journal International</i> , 2002, 149, 281-299.	2.4	99
78	A gravity model of the north Eurasia crust and upper mantle: 2. The Alpine-Mediterranean foldbelt and adjacent structures of the southern former USSR. <i>Russian Journal of Earth Sciences</i> , 2002, 4, 19-33.	0.7	16
79	Density structure of the lithosphere in the southwestern United States and its tectonic significance. <i>Journal of Geophysical Research</i> , 2001, 106, 721-739.	3.3	40
80	Oceanic upper mantle structure from experimental scaling of VS and density at different depths. <i>Geophysical Journal International</i> , 2001, 147, 199-214.	2.4	34
81	A gravity model of the North Eurasia crust and upper mantle: 1. Mantle and isostatic residual gravity anomalies. <i>Russian Journal of Earth Sciences</i> , 2001, 3, 125-144.	0.7	33
82	A global isostatic gravity model of the Earth. <i>Geophysical Journal International</i> , 1999, 136, 519-536.	2.4	92
83	Density inhomogeneities, isostasy and flexural rigidity of the lithosphere in the Transcaspian region. <i>Tectonophysics</i> , 1994, 240, 281-297.	2.2	36
84	A New Moho Map for North-Eastern Eurasia Based on the Analysis of Various Geophysical Data. <i>Pure and Applied Geophysics</i> , 0, , 1.	1.9	8