

Dmitri A Ionov

List of Publications by Year in descending order

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111
papers

7,946
citations

30070

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88
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115
all docs

115
docs citations

115
times ranked

3518
citing authors

#	ARTICLE	IF	CITATIONS
1	Nb—Ta-rich mantle amphiboles and micas: Implications for subduction-related metasomatic trace element fractionations. <i>Earth and Planetary Science Letters</i> , 1995, 131, 341-356.	4.4	367
2	Carbonated peridotite xenoliths from Spitsbergen: implications for trace element signature of mantle carbonate metasomatism. <i>Earth and Planetary Science Letters</i> , 1993, 119, 283-297.	4.4	344
3	Volatile-bearing minerals and lithophile trace elements in the upper mantle. <i>Chemical Geology</i> , 1997, 141, 153-184.	3.3	307
4	Mechanisms and Sources of Mantle Metasomatism: Major and Trace Element Compositions of Peridotite Xenoliths from Spitsbergen in the Context of Numerical Modelling. <i>Journal of Petrology</i> , 2002, 43, 2219-2259.	2.8	301
5	Re—Os isotope systematics and platinum group element fractionation during mantle melt extraction: a study of massif and xenolith peridotite suites. <i>Chemical Geology</i> , 2004, 208, 29-59.	3.3	290
6	Partial melting and melt percolation in the mantle: The message from Fe isotopes. <i>Earth and Planetary Science Letters</i> , 2007, 259, 119-133.	4.4	257
7	Variations of Li and Mg isotope ratios in bulk chondrites and mantle xenoliths. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5247-5268.	3.9	252
8	Li isotope fractionation in peridotites and mafic melts. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 202-218.	3.9	236
9	Composition of the Lithospheric Mantle in the Siberian Craton: New Constraints from Fresh Peridotites in the Udachnaya-East Kimberlite. <i>Journal of Petrology</i> , 2010, 51, 2177-2210.	2.8	177
10	Metasomatism-induced Melting in Mantle Xenoliths from Mongolia. <i>Journal of Petrology</i> , 1994, 35, 753-785.	2.8	163
11	Deformation and Fluid-Rock Interaction in the Supra-subduction Mantle: Microstructures and Water Contents in Peridotite Xenoliths from the Avacha Volcano, Kamchatka. <i>Journal of Petrology</i> , 2010, 51, 363-394.	2.8	150
12	Lithium elemental and isotopic disequilibrium in minerals from peridotite xenoliths from far-east Russia: Product of recent melt/fluid—rock reaction. <i>Earth and Planetary Science Letters</i> , 2007, 256, 278-293.	4.4	141
13	Metasomatism in lithospheric mantle roots: Constraints from whole-rock and mineral chemical composition of deformed peridotite xenoliths from kimberlite pipe Udachnaya. <i>Lithos</i> , 2013, 160-161, 201-215.	1.4	138
14	Garnet Peridotite Xenoliths from the Vitim Volcanic Field, Baikal Region: the Nature of the Garnet—Spinel Peridotite Transition Zone in the Continental Mantle. <i>Journal of Petrology</i> , 1993, 34, 1141-1175.	2.8	136
15	Petrology of Mantle Wedge Lithosphere: New Data on Supra-Subduction Zone Peridotite Xenoliths from the Andesitic Avacha Volcano, Kamchatka. <i>Journal of Petrology</i> , 2010, 51, 327-361.	2.8	133
16	High water contents in the Siberian cratonic mantle linked to metasomatism: An FTIR study of Udachnaya peridotite xenoliths. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 137, 159-187.	3.9	126
17	Carbonate-bearing mantle peridotite xenoliths from Spitsbergen: phase relationships, mineral compositions and trace-element residence. <i>Contributions To Mineralogy and Petrology</i> , 1996, 125, 375-392.	3.1	124
18	HFSE residence and Nb/Ta ratios in metasomatised, rutile-bearing mantle peridotites. <i>Earth and Planetary Science Letters</i> , 2002, 199, 49-65.	4.4	120

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19	Origin of Fe-rich lherzolites and wehrlites from Tok, SE Siberia by reactive melt percolation in refractory mantle peridotites. Contributions To Mineralogy and Petrology, 2005, 150, 335-353.	3.1	120
20	Spinel peridotite xenoliths from the Atsagin-Dush volcano, Dariganga lava plateau, Mongolia: a record of partial melting and cryptic metasomatism in the upper mantle. Contributions To Mineralogy and Petrology, 1997, 126, 345-364.	3.1	109
21	The oxidation state of subcontinental mantle: oxygen thermobarometry of mantle xenoliths from central Asia. Contributions To Mineralogy and Petrology, 1992, 111, 179-193.	3.1	104
22	Deformation, static recrystallization, and reactive melt transport in shallow subcontinental mantle xenoliths (Tok Cenozoic volcanic field, SE Siberia). Earth and Planetary Science Letters, 2008, 272, 65-77.	4.4	104
23	Trace element distribution in calcite-dolomite carbonatites from Spitskop: inferences for differentiation of carbonatite magmas and the origin of carbonates in mantle xenoliths. Earth and Planetary Science Letters, 2002, 198, 495-510.	4.4	103
24	Content and isotopic composition of sulphur in ultramafic xenoliths from central Asia. Earth and Planetary Science Letters, 1992, 111, 269-286.	4.4	99
25	Calcium isotopic fractionation in mantle peridotites by melting and metasomatism and Ca isotope composition of the Bulk Silicate Earth. Earth and Planetary Science Letters, 2017, 474, 128-137.	4.4	98
26	Thermal state, oxygen fugacity and C ₁ -O ₂ -H fluid speciation in cratonic lithospheric mantle: New data on peridotite xenoliths from the Udachnaya kimberlite, Siberia. Earth and Planetary Science Letters, 2012, 357-358, 99-110.	4.4	97
27	The provenance of fertile off-craton lithospheric mantle: Sr-Nd isotope and chemical composition of garnet and spinel peridotite xenoliths from Vitim, Siberia. Chemical Geology, 2005, 217, 41-75.	3.3	96
28	Lithium abundances and isotopic compositions in mantle xenoliths from subduction and intra-plate settings: Mantle sources vs. eruption histories. Earth and Planetary Science Letters, 2008, 266, 316-331.	4.4	96
29	The origin of coarse garnet peridotites in cratonic lithosphere: new data on xenoliths from the Udachnaya kimberlite, central Siberia. Contributions To Mineralogy and Petrology, 2013, 165, 1225-1242.	3.1	91
30	Oxidising agents in sub-arc mantle melts link slab devolatilisation and arc magmas. Nature Communications, 2018, 9, 3500.	12.8	91
31	Petrology and geochemistry of xenoliths from the Northern Baltic shield: evidence for partial melting and metasomatism in the lower crust beneath an Archaean terrane. Lithos, 1995, 36, 157-184.	1.4	82
32	Peridotite xenoliths in alkali basalts from the Sikhote-Alin, southeastern Siberia, Russia: trace-element signatures of mantle beneath a convergent continental margin. Chemical Geology, 1995, 120, 275-294.	3.3	79
33	Feldspar-Ti-oxide metasomatism in off-cratonic continental and oceanic upper mantle. Earth and Planetary Science Letters, 1999, 165, 37-44.	4.4	79
34	Chemical Variations in Peridotite Xenoliths from Vitim, Siberia: Inferences for REE and Hf Behaviour in the Garnet-Facies Upper Mantle. Journal of Petrology, 2004, 45, 343-367.	2.8	78
35	Nickel and helium evidence for melt above the core-mantle boundary. Nature, 2013, 493, 393-397.	27.8	77
36	New Olivine Reference Material for <i>In Situ</i> Microanalysis. Geostandards and Geoanalytical Research, 2019, 43, 453-473.	3.1	77

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37	Mantle structure and rifting processes in the Baikal-Mongolia region: geophysical data and evidence from xenoliths in volcanic rocks. <i>Tectonophysics</i> , 2002, 351, 41-60.	2.2	74
38	Zn isotopic heterogeneity in the mantle: A melting control?. <i>Earth and Planetary Science Letters</i> , 2016, 451, 232-240.	4.4	73
39	Eight good reasons why the uppermost mantle could be magnetic. <i>Tectonophysics</i> , 2014, 624-625, 3-14.	2.2	72
40	Trace element distribution in peridotite xenoliths from Tok, SE Siberian craton: A record of pervasive, multi-stage metasomatism in shallow refractory mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1231-1260.	3.9	71
41	Depth of formation of subcontinental off-craton peridotites. <i>Earth and Planetary Science Letters</i> , 2007, 261, 620-634.	4.4	71
42	Depth, degrees and tectonic settings of mantle melting during craton formation: inferences from major and trace element compositions of spinel harzburgite xenoliths from the Udachnaya kimberlite, central Siberia. <i>Earth and Planetary Science Letters</i> , 2012, 359-360, 206-218.	4.4	70
43	The stable vanadium isotope composition of the mantle and mafic lavas. <i>Earth and Planetary Science Letters</i> , 2013, 365, 177-189.	4.4	68
44	Feldspar-bearing lherzolite xenoliths in alkali basalts from Hamar-Daban, southern Baikal region, Russia. <i>Contributions To Mineralogy and Petrology</i> , 1995, 122, 174-190.	3.1	65
45	Sr-Nd-Pb Isotopic Compositions of Peridotite Xenoliths from Spitsbergen: Numerical Modelling Indicates Sr-Nd Decoupling in the Mantle by Melt Percolation Metasomatism. <i>Journal of Petrology</i> , 2002, 43, 2261-2278.	2.8	65
46	Hf isotope compositions and HREE variations in off-craton garnet and spinel peridotite xenoliths from central Asia. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 2399-2418.	3.9	63
47	Os-Hf-Sr-Nd isotope and PGE systematics of spinel peridotite xenoliths from Tok, SE Siberian craton: Effects of pervasive metasomatism in shallow refractory mantle. <i>Earth and Planetary Science Letters</i> , 2006, 241, 47-64.	4.4	62
48	Post-Archean formation of the lithospheric mantle in the central Siberian craton: Re-Os and PGE study of peridotite xenoliths from the Udachnaya kimberlite. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 165, 466-483.	3.9	62
49	Compositional variations and heterogeneity in fertile lithospheric mantle: peridotite xenoliths in basalts from Tariat, Mongolia. <i>Contributions To Mineralogy and Petrology</i> , 2007, 154, 455-477.	3.1	59
50	Lower crustal xenoliths from Mongolia and their bearing on the nature of the deep crust beneath central Asia. <i>Lithos</i> , 1995, 36, 227-242.	1.4	58
51	Links between mantle metasomatism and lithium isotopes: Evidence from glass-bearing and cryptically metasomatized xenoliths from Mongolia. <i>Earth and Planetary Science Letters</i> , 2008, 276, 214-222.	4.4	58
52	Reworking of Archean mantle in the NE Siberian craton by carbonatite and silicate melt metasomatism: Evidence from a carbonate-bearing, dunite-to-websterite xenolith suite from the Obnazhennaya kimberlite. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 224, 132-153.	3.9	58
53	Calcium isotopic signatures of carbonatite and silicate metasomatism, melt percolation and crustal recycling in the lithospheric mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 248, 1-13.	3.9	57
54	The magnetism of mantle xenoliths and potential implications for sub-Moho magnetic sources. <i>Geophysical Research Letters</i> , 2013, 40, 105-110.	4.0	56

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55	The age and history of the lithospheric mantle of the Siberian craton: Re-Os and PGE study of peridotite xenoliths from the Obnazhennaya kimberlite. <i>Earth and Planetary Science Letters</i> , 2015, 428, 108-119.	4.4	54
56	Chromium isotope heterogeneity in the mantle. <i>Earth and Planetary Science Letters</i> , 2017, 464, 103-115.	4.4	54
57	Evolution of the upper mantle beneath the southern Baikal rift zone: an Sr-Nd isotope study of xenoliths from the Bartoy volcanoes. <i>Contributions To Mineralogy and Petrology</i> , 1992, 111, 235-247.	3.1	53
58	Lithospheric mantle beneath the south-eastern Siberian craton: petrology of peridotite xenoliths in basalts from the Tokinsky Stanovik. <i>Contributions To Mineralogy and Petrology</i> , 2005, 149, 647-665.	3.1	53
59	Paleoproterozoic rejuvenation and replacement of Archaean lithosphere: Evidence from zircon U-Pb dating and Hf isotopes in crustal xenoliths at Udachnaya, Siberian craton. <i>Earth and Planetary Science Letters</i> , 2017, 457, 149-159.	4.4	51
60	Oxygen isotope composition of garnet and spinel peridotites in the continental mantle: Evidence from the Vitim xenolith suite, southern Siberia. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 1463-1470.	3.9	48
61	Melt-Rock Interaction in Supra-Subduction Lithospheric Mantle: Evidence from Andesite-hosted Veined Peridotite Xenoliths. <i>Journal of Petrology</i> , 2013, 54, 2339-2378.	2.8	47
62	A geotherm and lithospheric section for central Mongolia (Tariat region). <i>Geodynamic Series</i> , 1998, , 127-153.	0.1	42
63	Silica-enriched mantle sources of subalkaline picrite-boninite-andesite island arc magmas. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 199, 287-303.	3.9	42
64	Paleoproterozoic formation age for the Siberian cratonic mantle: Hf and Nd isotope data on refractory peridotite xenoliths from the Udachnaya kimberlite. <i>Chemical Geology</i> , 2015, 391, 42-55.	3.3	41
65	The development of lithospheric keels beneath the earliest continents: time constraints using PGE and Re-Os isotope systematics. <i>Geological Society Special Publication</i> , 2002, 199, 65-90.	1.3	38
66	Melt evolution in subarc mantle: evidence from heating experiments on spinel-hosted melt inclusions in peridotite xenoliths from the andesitic Avacha volcano (Kamchatka, Russia). <i>Contributions To Mineralogy and Petrology</i> , 2011, 162, 1159-1174.	3.1	37
67	Seismic velocities, anisotropy and deformation in Siberian cratonic mantle: EBSD data on xenoliths from the Udachnaya kimberlite. <i>Earth and Planetary Science Letters</i> , 2011, 304, 71-84.	4.4	36
68	Co-magmatic sulfides and sulfates in the Udachnaya-East pipe (Siberia): A record of the redox state and isotopic composition of sulfur in kimberlites and their mantle sources. <i>Chemical Geology</i> , 2017, 455, 315-330.	3.3	35
69	Discovery of whitlockite in mantle xenoliths: Inferences for water- and halogen-poor fluids and trace element residence in the terrestrial upper mantle. <i>Earth and Planetary Science Letters</i> , 2006, 244, 201-217.	4.4	34
70	Along-arc variations in lithospheric mantle compositions in Kamchatka, Russia: First trace element data on mantle xenoliths from the Klyuchevskoy Group volcanoes. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 263, 122-131.	2.1	34
71	Chlorine and fluorine partition coefficients and abundances in sub-arc mantle xenoliths (Kamchatka). <i>Geochimica Et Cosmochimica Acta</i> , 2017, 199, 324-350.	3.9	33
72	The non-chondritic Ni isotope composition of Earth's mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 268, 405-421.	3.9	32

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73	Magnesium isotopic composition of metasomatized upper sub-arc mantle and its implications to Mg cycling in subduction zones. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 278, 219-234.	3.9	31
74	Calcium isotope sources and fractionation during melt-rock interaction in the lithospheric mantle: Evidence from pyroxenites, wehrlites, and eclogites. <i>Chemical Geology</i> , 2019, 524, 272-282.	3.3	30
75	Compositional characteristics of the MORB mantle and bulk silicate earth based on spinel peridotites from the Tariat Region, Mongolia. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 257, 206-223.	3.9	30
76	$^{18}\text{O}/^{16}\text{O}$ ratios in anhydrous spinel lherzolite xenoliths from the Shavaryn-Tsaram volcano, Mongolia. <i>Earth and Planetary Science Letters</i> , 1987, 81, 193-202.	4.4	29
77	Tracing partial melting and subduction-related metasomatism in the Kamchatkan mantle wedge using noble gas compositions. <i>Earth and Planetary Science Letters</i> , 2011, 302, 121-131.	4.4	29
78	Olivine inclusions in Siberian diamonds and mantle xenoliths: Contrasting water and trace-element contents. <i>Lithos</i> , 2016, 265, 31-41.	1.4	26
79	Links between deformation, chemical enrichments and Li-isotope compositions in the lithospheric mantle of the central Siberian craton. <i>Chemical Geology</i> , 2017, 475, 105-121.	3.3	26
80	Age, provenance and Precambrian evolution of the Anabar shield from U-Pb and Lu-Hf isotope data on detrital zircons, and the history of the northern and central Siberian craton. <i>Precambrian Research</i> , 2017, 301, 134-144.	2.7	25
81	A new petrogenetic model for low-Ca boninites: Evidence from veined sub-arc xenoliths on melt-mantle interaction and melt fractionation. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	24
82	Redox state of deep off-craton lithospheric mantle: new data from garnet and spinel peridotites from Vitim, southern Siberia. <i>Contributions To Mineralogy and Petrology</i> , 2012, 164, 731-745.	3.1	23
83	Primary Silica-rich Picrite and High-Ca Boninite Melt Inclusions in Pyroxenite Veins from the Kamchatka Sub-arc Mantle. <i>Journal of Petrology</i> , 2016, 57, 1955-1982.	2.8	23
84	The age and origin of cratonic lithospheric mantle: Archean dunites vs. Paleoproterozoic harzburgites from the Udachnaya kimberlite, Siberian craton. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 281, 67-90.	3.9	22
85	Archean lithospheric differentiation: Insights from Fe and Zn isotopes. <i>Geology</i> , 2020, 48, 1028-1032.	4.4	22
86	Precise and accurate determination of boron concentration in silicate rocks by direct isotope dilution ICP-MS: Insights into the B budget of the mantle and B behavior in magmatic systems. <i>Chemical Geology</i> , 2013, 354, 139-149.	3.3	19
87	Thermal and compositional anomalies in a detailed xenolith-based lithospheric mantle profile of the Siberian craton and the origin of seismic midlithosphere discontinuities. <i>Geology</i> , 2022, 50, 891-896.	4.4	18
88	Fe ³⁺ partitioning systematics between orthopyroxene and garnet in mantle peridotite xenoliths and implications for thermobarometry of oxidized and reduced mantle rocks. <i>Contributions To Mineralogy and Petrology</i> , 2015, 169, 1.	3.1	16
89	Fluidized CO ₂ -sulphide-silicate media as agents of mantle metasomatism and megacrysts formation: evidence from a large druse in a spinel-lherzolite xenolith. <i>Physics of the Earth and Planetary Interiors</i> , 1987, 45, 280-293.	1.9	14
90	Microstructures, Water Contents, and Seismic Properties of the Mantle Lithosphere Beneath the Northern Limit of the Hangay Dome, Mongolia. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 183-207.	2.5	14

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91	Ultramafic to mafic granulites from the Larsemann Hills, East Antarctica: Geochemistry and tectonic implications. <i>Journal of Asian Earth Sciences</i> , 2017, 145, 679-690.	2.3	13
92	Vanadium isotope composition of the Bulk Silicate Earth: Constraints from peridotites and komatiites. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 259, 288-301.	3.9	13
93	Potassium distribution and isotope composition in the lithospheric mantle in relation to global Earth's reservoirs. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 309, 151-170.	3.9	13
94	The Provenance of the Lithospheric Mantle in Continental Collision Zones: Petrology and Geochemistry of Peridotites in the Ultena "Nonsberg Zone (Eastern Alps). <i>Journal of Petrology</i> , 2017, 58, 1451-1472.	2.8	12
95	Rapid Determination of Trace Element Compositions in Peridotites by LA-ICP-MS Using an Albite Fusion Method. <i>Geostandards and Geoanalytical Research</i> , 2019, 43, 93-111.	3.1	12
96	Mantle and Recycled Oceanic Crustal Components in Mantle Xenoliths From Northeastern China and their Mantle Sources. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018232.	3.4	12
97	Ca-Sr isotope and chemical evidence for distinct sources of carbonatite and silicate mantle metasomatism. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 312, 158-179.	3.9	10
98	Content of sulphur in different mantle reservoirs: Reply to comment on the paper "Content and isotopic composition of sulphur in ultramafic xenoliths from central Asia". <i>Earth and Planetary Science Letters</i> , 1993, 119, 635-640.	4.4	9
99	Three-Dimensional Imaging of Sulfides in Silicate Rocks at Submicron Resolution with Multiphoton Microscopy. <i>Microscopy and Microanalysis</i> , 2011, 17, 937-943.	0.4	8
100	Paleoproterozoic melt-depleted lithospheric mantle in the Khanka block, far eastern Russia: Inferences for mobile belts bordering the North China and Siberian cratons. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 270, 95-111.	3.9	8
101	Effects of Oxygen Fugacity on Hydroxyl Incorporation in Garnet at 3 GPa and 800-1000°C and Implications for Water Storage in the Mantle. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	8
102	Carbonated Big Mantle Wedge Extending to the NE Edge of the Stagnant Pacific Slab: Constraints from Late Mesozoic-Cenozoic Basalts from Far Eastern Russia. <i>Journal of Earth Science (Wuhan, China)</i> , 2022, 33, 121-132.	3.2	7
103	A mantle origin for sulfates in the unusual "Udachnaya-East kimberlite from sulfur abundances, speciation and their relationship with groundmass carbonates. <i>Bulletin - Societe Geologique De France</i> , 2017, 188, 6.	2.2	6
104	Oxygen isotope ($\delta^{18}O$, $\delta^{17}O$) insights into continental mantle evolution since the Archean. <i>Nature Communications</i> , 2022, 13, .	12.8	6
105	Kyanite-bearing eclogite xenoliths from the Udachnaya kimberlite, Siberian craton, Russia. <i>Bulletin - Societe Geologique De France</i> , 2017, 188, 7.	2.2	4
106	Decoupled water and iron enrichments in the cratonic mantle: A study on peridotite xenoliths from Tok, SE Siberian Craton. <i>American Mineralogist</i> , 2020, 105, 803-819.	1.9	4
107	Determination of Nb, Ta, Zr and Hf in Micro-Phases at Low Concentrations by EPMA. <i>Mikrochimica Acta</i> , 2002, 139, 83-91.	5.0	3
108	Metasomatism-controlled hydrogen distribution in the Spitsbergen upper mantle. <i>American Mineralogist</i> , 2020, 105, 1326-1341.	1.9	3

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109	XENOLITHS OF BIOTITE-GARNET-ORTHOPYROXENE ROCKS FROM A DIKE-LIKE DIATREME ON YELOVYY ISLAND, WHITE SEA. <i>International Geology Review</i> , 1990, 32, 905-915.	2.1	2
110	Lost in interpretation: Facts and misconceptions about the mantle of the Siberian craton. A comment on: "Composition of the lithospheric mantle in the northern part of Siberian craton: Constraints from peridotites in the Obnazhennaya kimberlite" by. <i>Lithos</i> , 2018, 314-315, 683-687.	1.4	2
111	An introduction to the special issue of the BSGF. <i>Bulletin - Societe Geologique De France</i> , 2017, 188, E1.	2.2	2