Alexander Golovin

List of Publications by Year
in descending order

71	2,680	147801	189892
papers	citations	31 h-index	50 g-index

71	71	71	1132
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermal and compositional anomalies in a detailed xenolith-based lithospheric mantle profile of the Siberian craton and the origin of seismic midlithosphere discontinuities. Geology, 2022, 50, 891-896.	4.4	18
2	Olivine in Kimberlites: Magma Evolution from Deep Mantle to Eruption. Journal of Petrology, 2022, 63, .	2.8	11
3	Origin of Graphiteâ€“Diamond-Bearing Eclogites from Udachnaya Kimberlite Pipe. Journal of Petrology, 2021, 62, .	2.8	8
4	Origin of Epigenetic Iron-Rich Olivine in Lherzolite Xenolith from the Udachnaya Kimberlite Pipe (Siberian Craton). Doklady Earth Sciences, 2021, 499, 619-622.	0.7	2
5	Geochemical evidence for carbon and chlorine enrichments in the mantle source of kimberlites (Udachnaya pipe, Siberian craton). Geochimica Et Cosmochimica Acta, 2021, 315, 295-316.	3.9	6
6	Dissolution of mantle orthopyroxene in kimberlitic melts: Petrographic, geochemical and melt inclusion constraints from an orthopyroxenite xenolith from the Udachnaya-East kimberlite (Siberian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	4	
7	Relics of Deep Alkaliâ€“Carbonate Melt in the Mantle Xenolith from the Komsomolskayaâ€“Magnitnaya Kimberlite Pipe (Upper Muna Field, Yakutia). Doklady Earth Sciences, 2021, 500, 842-847.	0.7	8
8	Can primitive kimberlite melts be alkaliâ€carbonate liquids: Composition of the melt snapshots preserved in deepest mantle xenoliths. Journal of Raman Spectroscopy, 2020, 51, 1849-1867.	2.5	34
9	Molecular hydrogen in minerals as a clue to interpret âˆ‚D variations in the mantle. Nature Communications, 2020, 11, 3604.	12.8	30
10	Metasomatic Evolution of Coesite-Bearing Diamondiferous Eclogite from the Udachnaya Kimberlite. Minerals (Basel, Switzerland), 2020, 10, 383.	2.0	14
11	The age and origin of cratonic lithospheric mantle: Archean dunites vs. Paleoproterozoic harzburgites from the Udachnaya kimberlite, Siberian craton. Geochimica Et Cosmochimica Acta, 2020, 281, 67-90.	3.9	22
12	A Plethora of Epigenetic Minerals Reveals a Multistage Metasomatic Overprint of a Mantle Orthopyroxenite from the Udachnaya Kimberlite. Minerals (Basel, Switzerland), 2020, 10, 264.	2.0	9
13	A Find of Coesite in Diamond-Bearing Kyanite Eclogite from the Udachnaya Kimberlite Pipe, Siberian Craton. Doklady Earth Sciences, 2019, 487, 925-928.	0.7	0
14	A Reply to the Comment by Kostrovitsky, S. and Yakovlev, D. on â€˜Was Crustal Contamination Involved in the Formation of the Serpentine-free Udachnaya-East Kimberlite? New Insights into Parental Melts, Liquidus Assemblage and Effects of Alterationâ€™ by Abersteiner et al. (J. Petrology, 59, 1467â€“1492, 2018). Journal of Petrology, 2019, 60, 1841-1847.	2.8	1
15	A new occurrence of yimengite-hawthorneite and crichtonite-group minerals in an orthopyroxenite from kimberlite: Implications for mantle metasomatism. American Mineralogist, 2019, 104, 761-774.	1.9	8
16	Polymineralic inclusions in kimberlite-hosted megacrysts: Implications for kimberlite melt evolution. Lithos, 2019, 336-337, 310-325.	1.4	25
17	Calcium isotopic signatures of carbonatite and silicate metasomatism, melt percolation and crustal recycling in the lithospheric mantle. Geochimica Et Cosmochimica Acta, 2019, 248, 1-13.	3.9	57
18	Djerfisherite in kimberlites and their xenoliths: implications for kimberlite melt evolution. Contributions To Mineralogy and Petrology, 2019, 174, 1.	3.1	16

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19	Interaction of peridotite with Ca-rich carbonatite melt at 3.1 and 6.5ÂGPa: Implication for merwinite formation in upper mantle, and for the metasomatic origin of sublithospheric diamonds with Ca-rich suite of inclusions. Contributions To Mineralogy and Petrology, 2018, 173, 1.	3.1	16
20	Alkali-carbonate melts from the base of cratonic lithospheric mantle: Links to kimberlites. Chemical Geology, 2018, 483, 261-274.	3.3	73
21	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. Geochimica Et Cosmochimica Acta, 2018, 224, 132-153.	3.9	58
22	Kuliginite, a new hydroxychloride mineral from the Udachnaya kimberlite pipe, Yakutia: Implications for low-temperature hydrothermal alteration of the kimberlites. American Mineralogist, 2018, 103, 1435-1444.	1.9	5
23	Raman spectra of shortite Na₂Ca₂(CO₃)₃ compressed up to 8â€...GPa. High Pressure Research, 2018, 38, 293-302.	1.2	10
24	Was Crustal Contamination Involved in the Formation of the Serpentine-Free Udachnaya-East Kimberlite? New Insights into Parental Melts, Liquidus Assemblage and Effects of Alteration. Journal of Petrology, 2018, 59, 1467-1492.	2.8	38
25	Incommensurately modulated twin structure of nyerereite Na_{1.64}K_{0.36}Ca(CO₃)₂. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2017, 73, 276-284.	1.1	11
26	Raman spectra of nyerereite, gregoryite, and synthetic pure <scp>N</scp>a₂<scp>C</scp>a(<scp>CO</scp>₃)₂: diversity and application for the study micro inclusions. Journal of Raman Spectroscopy, 2017, 48, 1559-1565.	2.5	20
27	Highâ€pressure Raman study of nyerereite from Oldoinyo Lengai. Journal of Raman Spectroscopy, 2017, 48, 1438-1442.	2.5	13
28	A mantle origin for sulfates in the unusual â€œsaltyâ€•Udachnaya-East kimberlite from sulfur abundances, speciation and their relationship with groundmass carbonates. Bulletin - Societie Geologique De France, 2017, 188, 6.	2.2	6
29	The application of Raman spectroscopy to djerfisherite identification. Journal of Raman Spectroscopy, 2017, 48, 1574-1582.	2.5	17
30	Links between deformation, chemical enrichments and Li-isotope compositions in the lithospheric mantle of the central Siberian craton. Chemical Geology, 2017, 475, 105-121.	3.3	26
31	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. Chemical Geology, 2017, 455, 315-330.	3.3	35
32	Origin of alkaline carbonates in kimberlites of the Siberian craton: Evidence from melt inclusions in mantle olivine of the Udachnaya-East pipe. Chemical Geology, 2017, 455, 357-375.	3.3	46
33	Experimental constraints on orthopyroxene dissolution in alkali-carbonate melts in the lithospheric mantle: Implications for kimberlite melt composition and magma ascent. Chemical Geology, 2017, 455, 44-56.	3.3	37
34	Sr and Nd isotope composition of deformed peridotite xenoliths from Udachnaya kimberlite pipe. Doklady Earth Sciences, 2016, 471, 1204-1207.	0.7	4
35	Tychite in mantle xenoliths from kimberlites: The first find and a new genetic type. Doklady Earth Sciences, 2016, 467, 270-274.	0.7	8
36	The first finding of graphite inclusion in diamond from mantle rocks: The result of the study of eclogite xenolith from Udachnaya pipe (Siberian craton). Doklady Earth Sciences, 2016, 469, 870-873.	0.7	2

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37	Graphite-diamond relations in mantle rocks: Evidence from an eclogitic xenolith from the Udachnaya kimberlite (Siberian Craton). American Mineralogist, 2016, 101, 2155-2167.	1.9	14
38	Zn isotopic heterogeneity in the mantle: A melting control?. Earth and Planetary Science Letters, 2016, 451, 232-240.	4.4	73
39	Hydrothermal Synthesis and Structure Solution of Na₂Ca(CO₃)₂: â€œSynthetic Analogueâ€•of Mineral Nyerereite. Crystal Growth and Design, 2016, 16, 1893-1902.	3.0	36
40	In situ ambient and highâ€temperature Raman spectroscopic studies of nyerereite (Na,K)₂Ca(CO₃)₂: can hexagonal zemkorite be stable at earthâ€surface conditions?. Journal of Raman Spectroscopy, 2015, 46, 904-912.	2.5	13
41	Paleoproterozoic formation age for the Siberian cratonic mantle: Hf and Nd isotope data on refractory peridotite xenoliths from the Udachnaya kimberlite. Chemical Geology, 2015, 391, 42-55.	3.3	41
42	Post-Archean formation of the lithospheric mantle in the central Siberian craton: Reâ€“Os and PGE study of peridotite xenoliths from the Udachnaya kimberlite. Geochimica Et Cosmochimica Acta, 2015, 165, 466-483.	3.9	62
43	Melting phase relations of the Udachnaya-East Group-I kimberlite at 3.0â€“6.5 GPa: Experimental evidence for alkali-carbonatite composition of primary kimberlite melts and implications for mantle plumes. Gondwana Research, 2015, 28, 1391-1414.	6.0	62
44	Eitelite in sheared peridotite xenoliths from Udachnaya-East kimberlite pipe (Russia) ? a new locality and host rock type. European Journal of Mineralogy, 2014, 25, 825-834.	1.3	35
45	High water contents in the Siberian cratonic mantle linked to metasomatism: An FTIR study of Udachnaya peridotite xenoliths. Geochimica Et Cosmochimica Acta, 2014, 137, 159-187.	3.9	126
46	Towards a new model for kimberlite petrogenesis: Evidence from unaltered kimberlites and mantle minerals. Earth-Science Reviews, 2014, 139, 145-167.	9.1	126
47	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
48	Melting of kimberlite of the Udachnaya-East pipe: Experimental study at 3â€“6.5 GPa and 900â€“1500Â°C. Doklady Earth Sciences, 2013, 448, 200-205.	0.7	18
49	Trace-element partitioning in perovskite: Implications for the geochemistry of kimberlites and other mantle-derived undersaturated rocks. Chemical Geology, 2013, 353, 112-131.	3.3	58
50	Metasomatism in lithospheric mantle roots: Constraints from whole-rock and mineral chemical composition of deformed peridotite xenoliths from kimberlite pipe Udachnaya. Lithos, 2013, 160-161, 201-215.	1.4	138
51	Djerfisherite in xenoliths of sheared peridotite in the Udachnaya-East pipe (Yakutia): origin and relationship with kimberlitic magmatism. Russian Geology and Geophysics, 2012, 53, 247-261.	0.7	32
52	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. Earth and Planetary Science Letters, 2012, 359-360, 206-218.	4.4	70
53	Ultrafresh salty kimberlite of the Udachnayaâ€“East pipe (Yakutia, Russia): A petrological oddity or fortuitous discovery?. Lithos, 2012, 152, 173-186.	1.4	92
54	An oxygen fugacity profile through the Siberian Craton â€” Fe K-edge XANES determinations of Fe3+/â^‘Fe in garnets in peridotite xenoliths from the Udachnaya East kimberlite. Lithos, 2012, 140-141, 142-151.	1.4	98

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55	Seismic velocities, anisotropy and deformation in Siberian cratonic mantle: EBSD data on xenoliths from the Udachnaya kimberlite. Earth and Planetary Science Letters, 2011, 304, 71-84.	4.4	36
56	Djerfisherite in Kimberlites of the Kuoikskoe field as an indicator of enrichment of Kimberlite melts in chlorine. Doklady Earth Sciences, 2011, 436, 301-307.	0.7	15
57	Fluid inclusions in rock-forming minerals of ultrahigh-pressure metamorphic rocks (Kokchetav) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.7	5
58	Accessory minerals of mantle xenoliths: First finds of Cl-free K-Fe sulfides. Doklady Earth Sciences, 2011, 440, 1404-1409.	0.7	6
59	Geochemical evolution of rocks at the base of the lithospheric mantle: Evidence from study of xenoliths of deformed peridotites from kimberlite of the Udachnaya pipe. Doklady Earth Sciences, 2010, 432, 746-749.	0.7	14
60	Can pyroxenes be liquidus minerals in the kimberlite magma?. Lithos, 2009, 112, 213-222.	1.4	71
61	First finding of burkeite in melt inclusions in olivine from sheared lherzolite xenoliths. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 73, 424-427.	3.9	26
62	Chlorine from the mantle: Magmatic halides in the Udachnaya-East kimberlite, Siberia. Earth and Planetary Science Letters, 2009, 285, 96-104.	4.4	70
63	Olivine in the Udachnaya-East Kimberlite (Yakutia, Russia): Types, Compositions and Origins. Journal of Petrology, 2008, 49, 823-839.	2.8	205
64	Djerfisherite in the Udachnaya-East pipe kimberlites (Sakha-Yakutia, Russia): paragenesis, composition and origin. European Journal of Mineralogy, 2007, 19, 51-63.	1.3	50
65	Petrogenetic analysis of fluid and melt inclusions in minerals from mantle xenoliths from the Bele pipe basanites (North Minusa depression). Russian Geology and Geophysics, 2007, 48, 811-824.	0.7	18
66	Chloride and carbonate immiscible liquids at the closure of the kimberlite magma evolution (Udachnaya-East kimberlite, Siberia). Chemical Geology, 2007, 237, 384-400.	3.3	88
67	Carbonate-chloride enrichment in fresh kimberlites of the Udachnaya-East pipe, Siberia: A clue to physical properties of kimberlite magmas?. Geophysical Research Letters, 2007, 34, .	4.0	58
68	Melt inclusions in olivine phenocrysts in unaltered kimberlites from the Udachnaya-East pipe, Yakutia: Some aspects of kimberlite magma evolution during late crystallization stages. Petrology, 2007, 15, 168-183.	0.9	80
69	Melt evolution during the crystallization of basanites of the Tergesh pipe, northern Minusinsk Depression. Geochemistry International, 2006, 44, 752-770.	0.7	14
70	Chloride-carbonate nodules in kimberlites from the Udachnaya pipe: Alternative approach to the evolution of kimberlite magmas. Geochemistry International, 2006, 44, 935-940.	0.7	25
71	Confocal Raman spectroscopic study of melt inclusions in olivine of mantle xenoliths from the Bultfontein kimberlite pipe (Kimberley cluster, South Africa): Evidence for alkaliâ€rich carbonate melt in the mantle beneath Kaapvaal Craton. Journal of Raman Spectroscopy, 0, , .	2.5	16