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	Olivine in the Udachnaya-East Kimberlite (Yakutia, Russia): Types, Compositions and Origins. Journal of Petrology, 2008, 49, 823-839.	2.8	205
2	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
3	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
4	Towards a new model for kimberlite petrogenesis: Evidence from unaltered kimberlites and mantle minerals. Earth-Science Reviews, 2014, 139, 145-167.	9.1	126
5	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
6	Ultrafresh salty kimberlite of the Udachnayaâ€"East pipe (Yakutia, Russia): A petrological oddity or fortuitous discovery?. Lithos, 2012, 152, 173-186.	1.4	92
7	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
8	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
9	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
10	Zn isotopic heterogeneity in the mantle: A melting control?. Earth and Planetary Science Letters, 2016, 451, 232-240.	4.4	73
11	Alkali-carbonate melts from the base of cratonic lithospheric mantle: Links to kimberlites. Chemical Geology, 2018, 483, 261-274.	3.3	73
12	Can pyroxenes be liquidus minerals in the kimberlite magma?. Lithos, 2009, 112, 213-222.	1.4	71
13	Chlorine from the mantle: Magmatic halides in the Udachnaya-East kimberlite, Siberia. Earth and Planetary Science Letters, 2009, 285, 96-104.	4.4	70
14	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
15	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
16	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
17	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
18	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

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19	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
20	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
21	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
22	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
23	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
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	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
26	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
27	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
28	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
29	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
30	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
31	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
32	Molecular hydrogen in minerals as a clue to interpret âˆ‚D variations in the mantle. Nature Communications, 2020, 11, 3604.	12.8	30
33	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
34	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
35	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
36	Polymineralic inclusions in kimberlite-hosted megacrysts: Implications for kimberlite melt evolution. Lithos, 2019, 336-337, 310-325.	1.4	25

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37	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
38	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
39	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
40	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
41	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
42	The application of Raman spectroscopy to djerfisherite identification. Journal of Raman Spectroscopy, 2017, 48, 1574-1582.	2.5	17
43	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
44	Djerfisherite in kimberlites and their xenoliths: implications for kimberlite melt evolution. Contributions To Mineralogy and Petrology, 2019, 174, 1.	3.1	16
45	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
46	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
47	Melt evolution during the crystallization of basanites of the Tergesh pipe, northern Minusinsk Depression. Geochemistry International, 2006, 44, 752-770.	0.7	14
48	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
49	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
50	Metasomatic Evolution of Coesite-Bearing Diamondiferous Eclogite from the Udachnaya Kimberlite. Minerals (Basel, Switzerland), 2020, 10, 383.	2.0	14
51	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
52	Highâ€pressure Raman study of nyerereite from Oldoinyo Lengai. Journal of Raman Spectroscopy, 2017, 48, 1438-1442.	2.5	13
53	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
54	Olivine in Kimberlites: Magma Evolution from Deep Mantle to Eruption. Journal of Petrology, 2022, 63, .	2.8	11

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55	Raman spectra of shortite Na₂Ca₂(CO₃)₃ compressed up to 8â€…GPa. High Pressure Research, 2018, 38, 293-302.	1.2	10
56	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
57	Tychite in mantle xenoliths from kimberlites: The first find and a new genetic type. Doklady Earth Sciences, 2016, 467, 270-274.	0.7	8
58	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
59	Origin of Graphiteâ€“Diamond-Bearing Eclogites from Udachnaya Kimberlite Pipe. Journal of Petrology, 2021, 62, .	2.8	8
60	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
61	Accessory minerals of mantle xenoliths: First finds of Cl-free K-Fe sulfides. Doklady Earth Sciences, 2011, 440, 1404-1409.	0.7	6
62	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
63	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
64	Fluid inclusions in rock-forming minerals of ultrahigh-pressure metamorphic rocks (Kokchetav) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	0.7	5
65	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
66	Sr and Nd isotope composition of deformed peridotite xenoliths from Udachnaya kimberlite pipe. Doklady Earth Sciences, 2016, 471, 1204-1207.	0.7	4
67	Dissolution of mantle orthopyroxene in kimberlitic melts: Petrographic, geochemical and melt inclusion constraints from an orthopyroxenite xenolith from the Udachnaya-East kimberlite (Siberian) Tj ETQq1 1 0.784314 rgBT /Ove	1.8	4
68	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
69	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
70	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
71	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