

# Andrei Girnis

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/407205/publications.pdf>

Version: 2024-02-01

41  
papers

1,068  
citations

471509

17  
h-index

395702

33  
g-index

41  
all docs

41  
docs citations

41  
times ranked

825  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Melting of Carbonated Peridotite at 6-10 GPa. <i>Journal of Petrology</i> , 2007, 49, 797-821.	2.8	247
2	Influence of water and fluorine on melting of carbonated peridotite at 6 and 10 GPa. <i>Lithos</i> , 2009, 112, 249-259.	1.4	85
3	Melting of K-rich carbonated peridotite at 6-10 GPa and the stability of K-phases in the upper mantle. <i>Chemical Geology</i> , 2011, 281, 333-342.	3.3	81
4	Ferropericlasite as a lower mantle phase in the upper mantle. <i>Lithos</i> , 2004, 77, 655-663.	1.4	63
5	Geobarometry for Peridotites: Experiments in Simple and Natural Systems from 6 to 10 GPa. <i>Journal of Petrology</i> , 2007, 49, 3-24.	2.8	63
6	Average compositions of igneous melts from main geodynamic settings according to the investigation of melt inclusions in minerals and quenched glasses of rocks. <i>Geochemistry International</i> , 2010, 48, 1185-1207.	0.7	40
7	Garnet-spinel-olivine-orthopyroxene equilibria in the FeO-MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -Cr <sub>2</sub> O <sub>3</sub> system: II. Thermodynamic analysis. <i>European Journal of Mineralogy</i> , 1999, 11, 619-636.	1.3	40
8	Compositions of magmas and carbonate-silicate liquid immiscibility in the Vulture alkaline igneous complex, Italy. <i>Lithos</i> , 2005, 85, 113-128.	1.4	38
9	Carbonated sediment-peridotite interaction and melting at 7.5-12 GPa. <i>Lithos</i> , 2014, 200-201, 368-385.	1.4	36
10	Reduced sediment melting at 7.5-12 GPa: phase relations, geochemical signals and diamond nucleation. <i>Contributions To Mineralogy and Petrology</i> , 2015, 170, 1.	3.1	34
11	The system MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -Cr <sub>2</sub> O <sub>3</sub> revisited: reanalysis of Doroshev et al.'s (1997) experiments and new experiments. <i>European Journal of Mineralogy</i> , 2004, 15, 953-964.	1.3	32
12	Estimation of the average contents of H <sub>2</sub> O, Cl, F, and S in the depleted mantle on the basis of the compositions of melt inclusions and quenched glasses of mid-ocean ridge basalts. <i>Geochemistry International</i> , 2006, 44, 209-231.	0.7	28
13	Average composition of basic magmas and mantle sources of island arcs and active continental margins estimated from the data on melt inclusions and quenched glasses of rocks. <i>Petrology</i> , 2010, 18, 1-26.	0.9	25
14	Experimental melting of a modally heterogeneous mantle. <i>Mineralogy and Petrology</i> , 2002, 75, 131-152.	1.1	22
15	Partitioning of trace elements between carbonate-silicate melts and mantle minerals: Experiment and petrological consequences. <i>Petrology</i> , 2006, 14, 492-514.	0.9	21
16	Subduction factory in an ampoule: Experiments on sediment-peridotite interaction under temperature gradient conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 223, 319-349.	3.9	20
17	Average compositions of magmas and mantle sources of mid-ocean ridges and intraplate oceanic and continental settings estimated from the data on melt inclusions and quenched glasses of basalts. <i>Petrology</i> , 2007, 15, 335-368.	0.9	19
18	Mechanisms of formation of barium-rich phlogopite and strontium-rich apatite during the final stages of alkaline magma evolution. <i>Geochemistry International</i> , 2009, 47, 578-591.	0.7	17

#	ARTICLE	IF	CITATIONS
19	Composition and chemical structure of oceanic mantle plumes. <i>Petrology</i> , 2006, 14, 452-476.	0.9	14
20	Volatiles in basaltic magmas of ocean islands and their mantle sources: I. Melt compositions deduced from melt inclusions and glasses in the rocks. <i>Geochemistry International</i> , 2007, 45, 105-122.	0.7	13
21	Fluoride and chloride melts included in phenocrysts of apgaitic acid volcanic rocks from Pantelleria Island. <i>Doklady Earth Sciences</i> , 2010, 433, 978-981.	0.7	13
22	Comparison of major, volatile, and trace element contents in the melts of mid-ocean ridges on the basis of data on inclusions in minerals and quenched glasses of rocks. <i>Geochemistry International</i> , 2014, 52, 347-364.	0.7	11
23	Reduced magmatic fluids in basalt from the island of Disko, central West Greenland. <i>Chemical Geology</i> , 2002, 183, 365-371.	3.3	10
24	Silicate-carbonate liquid immiscibility and crystallization of carbonate and K-rich basaltic magma: insights from melt and fluid inclusions. <i>Mineralogical Magazine</i> , 2012, 76, 411-439.	1.4	10
25	Ferropericase crystallization under upper mantle conditions. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	3.1	10
26	Origin of carbonatite magma during the evolution of ultrapotassic basite magma. <i>Petrology</i> , 2008, 16, 376-394.	0.9	9
27	Mean concentrations of volatile components, major and trace elements in magmatic melts in major geodynamic environments on Earth. I. Mafic melts. <i>Geochemistry International</i> , 2017, 55, 629-653.	0.7	9
28	High-temperature carbonatite melt and its interrelations with alkaline magmas of the Dunkelâ€™dyk Complex, southeastern Pamirs. <i>Doklady Earth Sciences</i> , 2006, 410, 1148-1151.	0.7	8
29	Peralkaline silicic melts of island arcs, active continental margins, and intraplate continental settings: Evidence from the investigation of melt inclusions in minerals and quenched glasses of rocks. <i>Petrology</i> , 2009, 17, 410-428.	0.9	8
30	Canonical ratios of trace element in basic magmas of various geodynamic settings: Estimation from compositions of melt inclusions and rock glasses. <i>Doklady Earth Sciences</i> , 2009, 426, 611-614.	0.7	8
31	Volatiles in basaltic magmas of ocean islands and their mantle sources: II. Estimation of contents in mantle reservoirs. <i>Geochemistry International</i> , 2007, 45, 313-326.	0.7	7
32	Melt inclusions in olivine from the boninites of New Caledonia: Postentrapment melt modification and estimation of primary magma compositions. <i>Petrology</i> , 2012, 20, 529-544.	0.9	7
33	Concentration of ore elements in magmatic melts and natural fluids as deduced from data on inclusions in minerals. <i>Geology of Ore Deposits</i> , 2016, 58, 327-343.	0.7	7
34	Volatile, Trace, and Ore Elements in Magmatic Melts and Natural Fluids: Evidence from Mineral-Hosted Inclusions. I. Mean Concentrations of 45 Elements in the Main Geodynamic Settings of the Earth. <i>Geochemistry International</i> , 2022, 60, 325-344.	0.7	4
35	Mean Concentrations of Volatile Components and of Major and Trace Elements in Magmatic Melts of the Dominant Geodynamic Settings of the Earth. II. Silicic Melts. <i>Geochemistry International</i> , 2019, 57, 407-423.	0.7	3
36	Volatile and trace elements in alkaline and subalkaline melts of ocean islands: Evidence from inclusions in minerals and quenched glasses of rocks. <i>Geochemistry International</i> , 2016, 54, 543-558.	0.7	2

#	ARTICLE	IF	CITATIONS
37	Composition and Geochemical Specifics of Magmatic Melts in Kamchatka: Evidence from Melt Inclusions and Quenched Glasses of Rocks. <i>Geochemistry International</i> , 2020, 58, 271-290.	0.7	2
38	Redox Freezing and Melting during Peridotite Interaction with Carbonated Metasediments and Metabasics: Experiments at 10 GPa. <i>Geochemistry International</i> , 2022, 60, 609-625.	0.7	2
39	CRYSTALLIZATION CONDITIONS OF THE GABBRO-NORITE OF THE YELAN' NICKEL-BEARING PLUTON. <i>International Geology Review</i> , 1989, 31, 502-505.	2.1	0
40	Average contents of incompatible and volatile components in depleted, oceanic plume, and within-plate continental mantle types. <i>Doklady Earth Sciences</i> , 2007, 415, 880-884.	0.7	0
41	Volatile, Trace, and Ore Elements in Magmatic Melts and Natural Fluids: Evidence from Mineral-Hosted Inclusions. II. Effect of Crystallization Differentiation on the Concentrations of Ore Elements. <i>Geochemistry International</i> , 2022, 60, 537-550.	0.7	0