

Anton V Arefiev

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Revision of the CaCO ₃ -MgCO ₃ phase diagram at 3 and 6 GPa. <i>American Mineralogist</i> , 2018, 103, 441-452.	0.9	53
2	Origin of K-rich diamond-forming immiscible melts and CO ₂ fluid via partial melting of carbonated pelites at a depth of 180-200 km. <i>Gondwana Research</i> , 2019, 75, 154-171.	3.0	33
3	The system K ₂ CO ₃ -CaCO ₃ at 3 GPa: link between phase relations and variety of K-Ca double carbonates at 0.1 and 6 GPa. <i>Physics and Chemistry of Minerals</i> , 2019, 46, 229-244.	0.3	27
4	Effect of alkalis on the reaction of clinopyroxene with Mg-carbonate at 6 GPa: Implications for partial melting of carbonated lherzolite. <i>American Mineralogist</i> , 2017, 102, 1934-1946.	0.9	25
5	The System K ₂ CO ₃ -CaCO ₃ -MgCO ₃ at 3 GPa: Implications for Carbonatite Melt Compositions in the Shallow Continental Lithosphere. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 296.	0.8	20
6	New data on the system Na ₂ CO ₃ -CaCO ₃ -MgCO ₃ at 6 GPa with implications to the composition and stability of carbonatite melts at the base of continental lithosphere. <i>Chemical Geology</i> , 2019, 515, 50-60.	1.4	20
7	Melting and subsolidus phase relations in the system K ₂ CO ₃ -MgCO ₃ at 3-6 GPa. <i>High Pressure Research</i> , 2018, 38, 422-439.	0.4	19
8	The system Na ₂ CO ₃ -CaCO ₃ at 3 GPa. <i>Physics and Chemistry of Minerals</i> , 2018, 45, 773-787.	0.3	19
9	Phase relations in the system Na ₂ CO ₃ -CaCO ₃ -MgCO ₃ at 3 GPa with implications for carbonatite genesis and evolution. <i>Lithos</i> , 2019, 330-331, 74-89.	0.6	17
10	Pyroxene-carbonate reactions in the CaMgSi ₂ O ₆ -NaAlSi ₂ O ₆ -MgCO ₃ -Na ₂ CO ₃ -K ₂ CO ₃ system: Implications for partial melting of carbonated peridotite. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	1.2	17
11	Solidus and melting of carbonated phlogopite peridotite at 3-6.5 GPa: Implications for mantle metasomatism. <i>Gondwana Research</i> , 2022, 101, 156-174.	3.0	17
12	The K ₂ CO ₃ -CaCO ₃ -MgCO ₃ System at 6 GPa: Implications for Diamond Forming Carbonatitic Melts. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 558.	0.8	14
13	Na ₄ Ca ₃ (CO ₃) ₃ : a novel carbonate analog of borate optical materials. <i>CrystEngComm</i> , 2018, 20, 5228-5232.	1.3	13
14	Carbonate melt interaction with natural eclogite at 6 GPa and 1100-1200°C: Implications for metasomatic melt composition in subcontinental lithospheric mantle. <i>Chemical Geology</i> , 2020, 558, 119915.	1.4	13
15	Synthesis and Raman Spectra of K-Ca Double Carbonates: K ₂ Ca(CO ₃) ₂ Böhmschliite, Fairchildite, and K ₂ Ca ₂ (CO ₃) ₃ at 1 Atm. <i>Geochemistry International</i> , 2019, 57, 981-987.	0.2	11
16	Liquid immiscibility and phase relations in the system KAlSi ₃ O ₈ -CaMg(CO ₃) ₂ -NaAlSi ₂ O ₆ -Na ₂ CO ₃ at 6 GPa: Implications for diamond-forming melts. <i>Chemical Geology</i> , 2020, 550, 119701.	1.4	11
17	Effect of water on carbonate-silicate liquid immiscibility in the system KAlSi ₃ O ₈ -CaMgSi ₂ O ₆ -NaAlSi ₂ O ₆ -CaMg(CO ₃) ₂ at 6 GPa: Implications for diamond-forming melts. <i>American Mineralogist</i> , 2021, 106, 165-173.	0.9	11
18	Phase relations in carbonate component of carbonatized eclogite and peridotite along subduction and continental geotherms. <i>Gondwana Research</i> , 2021, 94, 186-200.	3.0	11

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19	Metasomatic interaction of the eutectic Na- and K-bearing carbonate melts with natural garnet lherzolite at 6 GPa and 1100–1200°C: Toward carbonatite melt composition in SCLM. <i>Lithos</i> , 2020, 374-375, 105725.	0.6	10
20	The system $\text{Na}_2\text{CO}_3\text{-MgCO}_3$ at 3–6 GPa. <i>High Pressure Research</i> , 2018, 38, 281-292.	0.4	9
21	Towards composition of carbonatite melts in peridotitic mantle. <i>Earth and Planetary Science Letters</i> , 2022, 581, 117395.	1.8	8
22	Solidus of carbonated phlogopite eclogite at 3–6 GPa: Implications for mantle metasomatism and ultra-high pressure metamorphism. <i>Gondwana Research</i> , 2022, 103, 188-204.	3.0	6
23	High-pressure synthesis and crystal structure of non-centrosymmetric $\text{K}_2\text{Ca}_3(\text{CO}_3)_4$. <i>CrystEngComm</i> , 2021, 23, 6675-6681.	1.3	4
24	Genetic link between saline and carbonatitic mantle fluids: The system $\text{NaCl-CaCO}_3\text{-MgCO}_3\text{-H}_2\text{O-FeO}$ at 6 GPa. <i>Geoscience Frontiers</i> , 2022, 13, 101431.	4.3	4
25	The system $\text{KCl-CaCO}_3\text{-MgCO}_3$ at 6 GPa: A link between saline and carbonatitic diamond-forming fluids. <i>Chemical Geology</i> , 2022, 604, 120931.	1.4	3