

Svyatoslav S Shcheka

List of Publications by Year in descending order

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18
papers

848
citations

567281

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all docs

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docs citations

18
times ranked

1063
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon solubility in olivine and the mode of carbon storage in the Earth's mantle. <i>Nature</i> , 2003, 424, 414-416.	27.8	173
2	Carbon solubility in mantle minerals. <i>Earth and Planetary Science Letters</i> , 2006, 245, 730-742.	4.4	160
3	Nitrogen solubility in upper mantle minerals. <i>Earth and Planetary Science Letters</i> , 2013, 377-378, 311-323.	4.4	95
4	High silicon self-diffusion coefficient in dry forsterite. <i>Earth and Planetary Science Letters</i> , 2012, 345-348, 95-103.	4.4	67
5	The origin of the terrestrial noble-gas signature. <i>Nature</i> , 2012, 490, 531-534.	27.8	59
6	Nitrogen solubility in the deep mantle and the origin of Earth's primordial nitrogen budget. <i>Earth and Planetary Science Letters</i> , 2018, 488, 134-143.	4.4	41
7	Phase Relations in the System $\text{MgSiO}_3\text{-Al}_2\text{O}_3\text{-O}_3$ up to 2300 K at Lower Mantle Pressures. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 7775-7788.	3.4	40
8	Subsolidus hydrogen partitioning between nominally anhydrous minerals in garnet-bearing peridotite. <i>American Mineralogist</i> , 2017, 102, 1822-1831.	1.9	35
9	Experimental constraints on the fate of H and C during planetary core-mantle differentiation. Implications for the Earth. <i>Icarus</i> , 2019, 321, 473-485.	2.5	35
10	The speciation of carbon monoxide in silicate melts and glasses. <i>American Mineralogist</i> , 2015, 100, 1641-1644.	1.9	23
11	Zircon survival in shallow asthenosphere and deep lithosphere. <i>American Mineralogist</i> , 2020, 105, 1662-1671.	1.9	23
12	Carbon solubility in silicate melts in equilibrium with a CO-CO ₂ gas phase and graphite. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 259, 129-143.	3.9	22
13	A petrologic study on the effect of mantle overturn: Implications for evolution of the lunar interior. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 250, 238-250.	3.9	21
14	In Situ Doping of Black Phosphorus by High-Pressure Synthesis. <i>Inorganic Chemistry</i> , 2019, 58, 10227-10238.	4.0	20
15	Recreating Giants Impacts in the Laboratory: Shock Compression of Bridgmanite to 14 Mbar. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085476.	4.0	19
16	Hydrated Peridotite – Basaltic Melt Interaction Part I: Planetary Felsic Crust Formation at Shallow Depth. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	7
17	Hydrated Peridotite – Basaltic Melt Interaction Part II: Fast Assimilation of Serpentinized Mantle by Basaltic Magma. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	6
18	Utilizing Rare-Earth-Elements Luminescence and Vibrational-Spectroscopies to Follow High Pressure Densification of Soda – Lime Glass. <i>Materials</i> , 2021, 14, 1831.	2.9	2