Sujoy Ghosh

List of Publications by Year
in descending order

25 papers	665 citations	686830 13 h-index	610482 24 g-index
28 all docs	28 docs citations	28 times ranked	714 citing authors

#	Article	IF	Citations
1	Solidus of carbonated peridotite from 10 to 20ÂGPa and origin of magnesiocarbonatite melt in the Earth's deep mantle. Chemical Geology, 2009, 262, 17-28.	1.4	125
2	Phase relations and melting of carbonated peridotite between 10 and 20ÂGPa: a proxy for alkali- and CO2-rich silicate melts in the deep mantle. Contributions To Mineralogy and Petrology, 2014, 167, 1.	1.2	66
3	The stability of Feâ€“Ni carbides in the Earth's mantle: Evidence for a low Feâ€“Niâ€“C melt fraction in the deep mantle. Earth and Planetary Science Letters, 2014, 388, 211-221.	1.8	62
4	Effect of water in depleted mantle on post-spinel transition and implication for 660 km seismic discontinuity. Earth and Planetary Science Letters, 2013, 371-372, 103-111.	1.8	60
5	Stability of carbonated magmas at the base of the Earth's upper mantle. Geophysical Research Letters, 2007, 34, .	1.5	55
6	Melting of phase D in the lower mantle and implications for recycling and storage of H 2 O in the deep mantle. Geochimica Et Cosmochimica Acta, 2014, 145, 72-88.	1.6	45
7	Temperature dependence and mechanism of hydrogen incorporation in olivine at 12.5â€“14.0 GPa. Geophysical Research Letters, 2007, 34, .	1.5	42
8	Sound velocities of ferromagnesian carbonates and the seismic detection of carbonates in eclogites and the mantle. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	40
9	Thermal equation of state of superhydrous phase B to 27GPa and 1373K. Physics of the Earth and Planetary Interiors, 2007, 164, 142-160.	0.7	30
10	Elasticity of phase D and implication for the degree of hydration of deep subducted slabs. Geophysical Research Letters, 2012, 39, .	1.5	27
11	Singleâ€crystal equation of state of phase D to lower mantle pressures and the effect of hydration on the buoyancy of deep subducted slabs. Journal of Geophysical Research: Solid Earth, 2013, 118, 6124-6133.	1.4	17
12	In situmonitoring of phase transformation microstructures at Earth's mantle pressure and temperature using multi-grain XRD. Journal of Applied Crystallography, 2015, 48, 1346-1354.	1.9	15
13	Evolution of grain sizes and orientations during phase transitions in hydrous Mg₂SiO₄. Journal of Geophysical Research: Solid Earth, 2016, 121, 7161-7176.	1.4	14
14	CO2-Rich Melts in Earth. , 2019, , 129-162.		10
15	Firstâ€principles prediction of Siâ€doped Fe carbide as one of the possible constituents of Earth's inner core. Geophysical Research Letters, 2017, 44, 8776-8784.	1.5	9
16	Natural Fe-bearing aluminous bridgmanite in the Katol L6 chondrite. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	8
17	Petrogenesis of coeval lamproites and kimberlites from the Wajrakarur field, Southern India: New insights from olivine compositions. Lithos, 2021, 406-407, 106524.	0.6	8
18	Ni Doping: A Viable Route to Make Body-Centered-Cubic Fe Stable at Earthâ€™s Inner Core. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overloc	0.8	7

#	Article	IF	Citations
19	Corrigendum to â€œEffect of water in depleted mantle on post-spinel transition and implication for 660 km seismic discontinuityâ€•[Earth Planet. Sci. Lett. 371â€“372 (2013) 103â€“111]. Earth and Planetary Science Letters, 2013, 382, 85-86.	1.8	4
20	Quantifying the effect of solid phase composition and structure on solidâ€“liquid partitioning of siderophile and chalcophile elements in the ironâ€“sulfur system. Chemical Geology, 2013, 357, 85-94.	1.4	4
21	Plume activity and carbonated silicate melt metasomatism in Dharwar cratonic lithosphere: Evidence from peridotite xenoliths in Wajrakarur kimberlites. Lithos, 2020, 376-377, 105726.	0.6	4
22	Shockâ€Induced Incongruent Melting of Olivine in Kamargaon L6 Chondrite. Geophysical Research Letters, 2021, 48, e2021GL093592.	1.5	4
23	Influence of Water on Olivine-Wadsleyite Phase Transformation and Water Partitioning near 410-km Seismic Discontinuity. AIP Conference Proceedings, 2006, , .	0.3	3
24	Low hydrogen concentrations in Dharwar cratonic lithosphere inferred from peridotites, Wajrakarur kimberlites field: Implications for mantle viscosity and carbonated silicate melt metasomatism. Precambrian Research, 2021, 352, 105982.	1.2	3
25	2nd International Workshop on Water Dynamics. Gondwana Research, 2005, 8, 291-292.	3.0	0