

David Headley Green

List of Publications by Year in descending order

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38
papers

4,802
citations

159585

30
h-index

345221

36
g-index

39
all docs

39
docs citations

39
times ranked

2363
citing authors

#	ARTICLE	IF	CITATIONS
1	The mineralogy, geochemistry and origin of lherzolite inclusions in Victorian basanites. <i>Geochimica Et Cosmochimica Acta</i> , 1974, 38, 1023-1059.	3.9	655
2	Evidence for carbonatite metasomatism in spinel peridotite xenoliths from western Victoria, Australia. <i>Earth and Planetary Science Letters</i> , 1991, 107, 305-317.	4.4	450
3	Experimental determination of the temperature and pressure dependence of the Fe-Mg partition coefficient for coexisting garnet and clinopyroxene. <i>Contributions To Mineralogy and Petrology</i> , 1974, 48, 179-203.	3.1	302
4	Water and its influence on the lithosphere–asthenosphere boundary. <i>Nature</i> , 2010, 467, 448-451.	27.8	293
5	Stability and chemical composition of pargasitic amphibole in MORB pyrolite under upper mantle conditions. <i>Contributions To Mineralogy and Petrology</i> , 1999, 135, 18-40.	3.1	270
6	Experimental constraints on high pressure melting in subducted crust. <i>Earth and Planetary Science Letters</i> , 2001, 188, 149-168.	4.4	242
7	Internally consistent gahnitic spinel-cordierite-garnet equilibria in the FMASHZn system: geothermobarometry and applications. <i>Contributions To Mineralogy and Petrology</i> , 1992, 111, 362-377.	3.1	198
8	The solidus of carbonated, fertile peridotite. <i>Earth and Planetary Science Letters</i> , 1989, 94, 364-370.	4.4	179
9	Experimental demonstration of refractory carbonate-bearing eclogite and siliceous melt in the subduction regime. <i>Earth and Planetary Science Letters</i> , 1994, 128, 313-325.	4.4	160
10	Phase equilibria and elastic properties of a pyrolite model for the oceanic upper mantle. <i>Tectonophysics</i> , 1976, 32, 61-92.	2.2	144
11	Primary magmas and mantle temperatures. <i>European Journal of Mineralogy</i> , 2001, 13, 437-451.	1.3	144
12	The role of CO ₂ in the genesis of olivine melilitite. <i>Contributions To Mineralogy and Petrology</i> , 1975, 49, 93-103.	3.1	135
13	Solidus of carbonated fertile peridotite under fluid-saturated conditions. <i>Geology</i> , 1990, 18, 195.	4.4	121
14	Calcic melt inclusions in primitive olivine at 43Å°N MAR: evidence for melt–rock reaction/melting involving clinopyroxene-rich lithologies during MORB generation. <i>Earth and Planetary Science Letters</i> , 1998, 160, 115-132.	4.4	113
15	The stability of sapphirine-quartz and hypersthene-sillimanite-quartz assemblages: an experimental investigation in the system FeO–MgO–Al ₂ O ₃ –SiO ₂ under H ₂ O and CO ₂ conditions. <i>Contributions To Mineralogy and Petrology</i> , 1991, 108, 55-71.	3.1	109
16	Solubility of CO ₂ in olivine melilitite at high pressures and role of CO ₂ in the earth's upper mantle. <i>Contributions To Mineralogy and Petrology</i> , 1976, 55, 217-230.	3.1	106
17	Pyroxenes in the system Mg ₂ Si ₂ O ₆ –CaMgSi ₂ O ₆ at high pressure. <i>Earth and Planetary Science Letters</i> , 1975, 26, 277-286.	4.4	103
18	Determination of the P,T paths of natural eclogites during metamorphism—record of subduction. <i>Lithos</i> , 1976, 9, 161-164.	1.4	85

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19	A close look at dihedral angles and melt geometry in olivine-basalt aggregates: a TEM study. <i>Contributions To Mineralogy and Petrology</i> , 1998, 130, 336-345.	3.1	84
20	An Experimental Study of Water in Nominally Anhydrous Minerals in the Upper Mantle near the Water-saturated Solidus. <i>Journal of Petrology</i> , 2012, 53, 2067-2093.	2.8	84
21	The role of fluorine and oxygen fugacity in the genesis of the ultrapotassic rocks. <i>Contributions To Mineralogy and Petrology</i> , 1986, 94, 183-192.	3.1	83
22	The effect of fluorine on phase relationships in the system $KAlSiO_4$ - Mg_2SiO_4 - SiO_2 at 28 kbar and the solution mechanism of fluorine in silicate melts. <i>Contributions To Mineralogy and Petrology</i> , 1986, 93, 46-55.	3.1	83
23	The Composition of Near-solidus Partial Melts of Fertile Peridotite at 1 and 1.5 GPa: Implications for the Petrogenesis of MORB. <i>Journal of Petrology</i> , 2008, 49, 591-613.	2.8	78
24	The application of olivine geothermometry to infer crystallization temperatures of parental liquids: Implications for the temperature of MORB magmas. <i>Chemical Geology</i> , 2007, 241, 207-233.	3.3	77
25	Experimental phase and melting relations of metapelite in the upper mantle: implications for the petrogenesis of intraplate magmas. <i>Contributions To Mineralogy and Petrology</i> , 2010, 160, 569-589.	3.1	76
26	P,T paths of natural eclogites during metamorphism – a record of subduction. <i>Lithos</i> , 1975, 8, 317-328.	1.4	65
27	Continuous eclogite melting and variable refertilisation in upwelling heterogeneous mantle. <i>Scientific Reports</i> , 2014, 4, 6099.	3.3	61
28	Glass inclusions in magnesian olivine phenocrysts from Tonga: evidence for highly refractory parental magmas in the Tongan arc. <i>Earth and Planetary Science Letters</i> , 1986, 81, 95-103.	4.4	49
29	Phase Relationships of Hydrous Alkalic Magmas at High Pressures: Production of Nepheline Hawaiitic to Mugearitic Liquids by Amphibole-Dominated Fractional Crystallization Within the Lithospheric Mantle. <i>Journal of Petrology</i> , 2008, 49, 741-756.	2.8	43
30	Closed-system geochemical recycling of crustal materials in alpine-type peridotite. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 303-310.	3.9	36
31	Primary magmas at mid-ocean ridges, “hotspots,” and other intraplate settings: Constraints on mantle potential temperature. , 2005, , .		36
32	Genetic relationship between eclogite and hornblende + plagioclase pegmatite in western Norway. <i>Lithos</i> , 1972, 5, 147-161.	1.4	28
33	Melting of plagioclase+spinel lherzolite at low pressures (0.5GPa): An experimental approach to the evolution of basaltic melt during mantle refertilisation at shallow depths. <i>Lithos</i> , 2013, 172-173, 61-80.	1.4	20
34	Discussion on SHRIMP “Pb zircon dating of the exhumation of the Lizard Peridotite and its emplacement over crustal rocks: constraints for tectonic models. <i>Journal of the Geological Society</i> , 2003, 160, 331-335.	2.1	17
35	The role of CO ₂ in the genesis of olivine melilitite: Discussion. <i>Contributions To Mineralogy and Petrology</i> , 1976, 55, 231-239.	3.1	16
36	On the shallow origin of hotspots and the westward drift of the lithosphere. , 2005, , .		15

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37	Crystallization temperatures of tholeiite parental liquids: Implications for the existence of thermally driven mantle plumes. , 2007, , 235-260.		14
38	Comment on "The beginnings of hydrous mantle wedge melting", CB Till, TL Grove, AC Withers, Contributions to Mineralogy and Petrology, DOI 10.1007/s00410-011-0692-6. Contributions To Mineralogy and Petrology, 2012, 164, 1077-1081.	3.1	13