

Patrick J O'brien

List of Publications by Year in descending order

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63
papers

5,598
citations

66343

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2360
citing authors

#	ARTICLE	IF	CITATIONS
1	High-pressure granulites: formation, recovery of peak conditions and implications for tectonics. <i>Journal of Metamorphic Geology</i> , 2003, 21, 3-20.	3.4	509
2	Zircon geochronology and metamorphic evolution of mafic dykes in the Hengshan Complex of northern China: Evidence for late Palaeoproterozoic extension and subsequent high-pressure metamorphism in the North China Craton. <i>Precambrian Research</i> , 2006, 146, 45-67.	2.7	402
3	High-pressure granulites in the Sanggan area, North China craton: metamorphic evolution, P-T paths and geotectonic significance. <i>Journal of Metamorphic Geology</i> , 2002, 20, 741-756.	3.4	356
4	Thermobarometry of phengite-bearing eclogites in the Dabie Mountains of central China. <i>Journal of Metamorphic Geology</i> , 1997, 15, 239-252.	3.4	246
5	Coesite in Himalayan eclogite and implications for models of India-Asia collision. <i>Geology</i> , 2001, 29, 435.	4.4	243
6	Thermobarometry and Geotectonic Significance of High-Pressure Granulites: Examples from the Moldanubian Zone of the Bohemian Massif in Lower Austria. <i>Journal of Petrology</i> , 1993, 34, 427-459.	2.8	208
7	Linking growth episodes of zircon and metamorphic textures to zircon chemistry: an example from the ultrahigh-temperature granulites of Rogaland (SW Norway). <i>Geological Society Special Publication</i> , 2003, 220, 65-81.	1.3	181
8	Zircon ages for high pressure granulites from South Bohemia, Czech Republic, and their connection to Carboniferous high temperature processes. <i>Contributions To Mineralogy and Petrology</i> , 2000, 138, 127-142.	3.1	174
9	Polyphase zircon in ultrahigh-temperature granulites (Rogaland, SW Norway): constraints for Pb diffusion in zircon. <i>Journal of Metamorphic Geology</i> , 2002, 20, 727-740.	3.4	156
10	Garnet growth at high- and ultra-high pressure conditions and the effect of element fractionation on mineral modes and composition. <i>Lithos</i> , 2008, 103, 309-332.	1.4	139
11	Garnet zoning and reaction textures in overprinted eclogites, Bohemian Massif, European variscides: a record of their thermal history during exhumation. <i>Lithos</i> , 1997, 41, 119-133.	1.4	134
12	Diamond and coesite discovered in Saxony-type granulite: Solution to the Variscan garnet peridotite enigma. <i>Geology</i> , 2011, 39, 667-670.	4.4	127
13	The petrology of two distinct granulite types in the Hengshan Mts, China, and tectonic implications. <i>Journal of Asian Earth Sciences</i> , 2005, 24, 615-627.	2.3	122
14	Combined thermodynamic and rare earth element modelling of garnet growth during subduction: Examples from ultrahigh-pressure eclogite of the Western Gneiss Region, Norway. <i>Earth and Planetary Science Letters</i> , 2008, 272, 488-498.	4.4	117
15	The timing of stabilisation and the exhumation rate for ultra-high pressure rocks in the Western Gneiss Region of Norway. <i>Journal of Metamorphic Geology</i> , 2003, 21, 601-612.	3.4	110
16	Tectonometamorphic evolution of the Bohemian Massif: evidence from high pressure metamorphic rocks. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1993, 82, 531-555.	1.3	99
17	Petrological and Isotopic Studies on Palaeozoic High-pressure Granulites, Gory Sowie Mts, Polish Sudetes. <i>Journal of Petrology</i> , 1997, 38, 433-456.	2.8	97
18	Subduction followed by collision: Alpine and Himalayan examples. <i>Physics of the Earth and Planetary Interiors</i> , 2001, 127, 277-291.	1.9	97

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19	Exhumation of early Tertiary, coesite-bearing eclogites from the Pakistan Himalaya. <i>Journal of the Geological Society</i> , 2003, 160, 367-376.	2.1	97
20	Quantification of electron microprobe compositional maps of rock thin sections: an optimized method and examples. <i>Journal of Metamorphic Geology</i> , 2006, 24, 655-668.	3.4	89
21	Coesite micro-inclusions and the U/Pb age of zircons from the Hareidland Eclogite in the Western Gneiss Region of Norway. <i>Lithos</i> , 2003, 67, 181-190.	1.4	87
22	Eclogites with a short-lived granulite facies overprint in the Moldanubian Zone, Czech Republic: petrology, geochemistry and diffusion modelling of garnet zoning. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1995, 84, 473.	1.3	85
23	Fluid Migration above a Subducted Slab—Constraints on Amount, Pathways and Major Element Mobility from Partially Overprinted Eclogite-facies Rocks (Sesia Zone, Western Alps). <i>Journal of Petrology</i> , 2011, 52, 457-486.	2.8	84
24	The multistage exhumation history of the Kaghan Valley UHP series, NW Himalaya, Pakistan from U-Pb and $^{40}\text{Ar}/^{39}\text{Ar}$ ages. <i>European Journal of Mineralogy</i> , 2010, 22, 703-719.	1.3	81
25	The fundamental Variscan problem: high-temperature metamorphism at different depths and high-pressure metamorphism at different temperatures. <i>Geological Society Special Publication</i> , 2000, 179, 369-386.	1.3	79
26	Challenges in high-pressure granulite metamorphism in the era of pseudosections: reaction textures, compositional zoning and tectonic interpretation with examples from the Bohemian Massif. <i>Journal of Metamorphic Geology</i> , 2008, 26, 235-251.	3.4	79
27	Asymmetric zoning profiles in garnet from HP-HT granulite and implications for volume and grain-boundary diffusion. <i>Mineralogical Magazine</i> , 1999, 63, 227-238.	1.4	76
28	Garnet zoning and the identification of equilibrium mineral compositions in high-pressure-temperature granulites from the Moldanubian Zone, Austria. <i>Journal of Metamorphic Geology</i> , 2000, 18, 551-569.	3.4	76
29	Preserved near ultrahigh-pressure melt from continental crust subducted to mantle depths. <i>Geology</i> , 2015, 43, 447-450.	4.4	73
30	Resolving the relationship between high P–T rocks and gneisses in collisional terranes: an example from the Gföhl gneiss–granulite association in the Moldanubian Zone, Austria. <i>Lithos</i> , 2001, 58, 33-54.	1.4	72
31	Thermodynamic modelling of diffusion-controlled garnet growth. <i>Contributions To Mineralogy and Petrology</i> , 2005, 149, 181-195.	3.1	68
32	Partially retrograded eclogites of the Münchberg Massif, Germany: records of a multi-stage Variscan uplift history in the Bohemian Massif. <i>Journal of Metamorphic Geology</i> , 1993, 11, 241-260.	3.4	63
33	The Physico-Chemical Properties of a Subducted Slab from Garnet Zonation Patterns (Sesia Zone,) <i>Tj ETQq1 1 0.784314 rgBT /Overlook</i>	2.8	60
34	Compositional re-equilibration of garnet: the importance of sub-grain boundaries. <i>European Journal of Mineralogy</i> , 2007, 19, 431-438.	1.3	53
35	Eclogite facies relics and a multistage breakdown in metabasites of the KTB pilot hole, NE Bavaria: implications for the Variscan tectonometamorphic evolution of the NW Bohemian Massif. <i>Contributions To Mineralogy and Petrology</i> , 1992, 112, 261-278.	3.1	51
36	The time of eclogite formation in the ultrahigh pressure rocks of the Sulu terrane. <i>Lithos</i> , 2011, 125, 743-756.	1.4	50

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37	Crustal evolution of the KTB drill site: From oldest relics to the Late Hercynian granites. <i>Journal of Geophysical Research</i> , 1997, 102, 18203-18220.	3.3	49
38	Metamorphic evolution and fluid composition of garnet-clinopyroxene amphibolites from the Tatra Mountains, Western Carpathians. <i>Lithos</i> , 1996, 39, 57-79.	1.4	48
39	The petrology of retrograded eclogites of the Oberpfalz Forest, northeastern Bavaria, West Germany. <i>Tectonophysics</i> , 1989, 157, 195-212.	2.2	45
40	Eclogites at the north-western margin of the Bohemian Massif: A review. <i>European Journal of Mineralogy</i> , 1991, 3, 707-730.	1.3	45
41	Multi-stage reaction history in different eclogite types from the Pakistan Himalaya and implications for exhumation processes. <i>Lithos</i> , 2010, 114, 70-85.	1.4	44
42	Source and mode of the Permian Panjal Trap magmatism: Evidence from zircon U-Pb and Hf isotopes and trace element data from the Himalayan ultrahigh-pressure rocks. <i>Lithos</i> , 2016, 260, 286-299.	1.4	44
43	Carbonatitic and granitic melts produced under conditions of primary immiscibility during anatexis in the lower crust. <i>Earth and Planetary Science Letters</i> , 2016, 454, 121-131.	4.4	43
44	Eclogites and other high-pressure rocks in the Himalaya: a review. <i>Geological Society Special Publication</i> , 2019, 483, 183-213.	1.3	43
45	Dehydration melting and devolatilization during exhumation of high-grade metapelites: the Tatra Mountains, Western Carpathians. <i>Journal of Metamorphic Geology</i> , 1999, 17, 379-395.	3.4	41
46	Subduction, peak and multi-stage exhumation metamorphism: Traces from one coesite-bearing eclogite, Tso Moriri, western Himalaya. <i>Lithos</i> , 2015, 231, 77-91.	1.4	38
47	Origin of sapphirine-plagioclase symplectites in metabasites from Mitterbachgraben, Dunkelsteinerwald granulite complex, Lower Austria. <i>European Journal of Mineralogy</i> , 1989, 1, 455-466.	1.3	35
48	Type-locality granulites: high-pressure rocks formed at eclogite-facies conditions. <i>Mineralogy and Petrology</i> , 2006, 86, 161-175.	1.1	32
49	Preservation of coesite in exhumed eclogite: insights from Raman mapping. <i>European Journal of Mineralogy</i> , 2008, 20, 827-834.	1.3	32
50	Fluid migration above a subducted slab – Thermodynamic and trace element modelling of fluid-rock interaction in partially overprinted eclogite-facies rocks (Sesia Zone, Western Alps). <i>Earth and Planetary Science Letters</i> , 2011, 311, 287-298.	4.4	28
51	Continental Crust at Mantle Depths: Key Minerals and Microstructures. <i>Elements</i> , 2013, 9, 261-266.	0.5	27
52	Cryptic metasomatic agent measured in situ in Variscan mantle rocks: Melt inclusions in garnet of eclogite, Granulitgebirge, Germany. <i>Journal of Metamorphic Geology</i> , 2020, 38, 207-234.	3.4	25
53	High-T, Low-P Formation of Rare Olivine-bearing Symplectites in Variscan Eclogite. <i>Journal of Petrology</i> , 2013, 54, 1375-1398.	2.8	23
54	Apatite fission track and (U-Th)/He ages from the Higher Himalayan Crystallines, Kaghan Valley, Pakistan: Implications for an Eocene Plateau and Oligocene to Pliocene exhumation. <i>Journal of Asian Earth Sciences</i> , 2012, 59, 14-23.	2.3	19

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55	A treasure chest full of nanogranitoids: an archive to investigate crustal melting in the Bohemian Massif. Geological Society Special Publication, 2019, 478, 13-38.	1.3	16
56	Embryos of TTGs in Gore Mountain garnet megacrysts from water-fluxed melting of the lower crust. Earth and Planetary Science Letters, 2021, 569, 117058.	4.4	15
57	The age of deep, steep continental subduction in the NW Himalaya: Relating zircon growth to metamorphic history. Comment on: "The onset of India-Asia continental collision: Early, steep subduction required by the timing of UHP metamorphism in the western Himalaya" by Mary L. Leech, S. Singh, A.K. Jain, Simon L. Klemperer and R.M. Manickavasagam, Earth and Planetary Science Letters 234 (2005) 83-97. Earth and Planetary Science Letters, 2006, 245, 814-816.	4.4	14
58	Oxygen isotopes in Indian Plate eclogites (Kaghan Valley, Pakistan): Negative $\delta^{18}O$ values from a high latitude protolith reset by Himalayan metamorphism. Lithos, 2014, 208-209, 471-483.	1.4	12
59	Tso Moriri coesite eclogite: pseudosection predictions v. the preserved record and implications for tectonometamorphic models. Geological Society Special Publication, 2019, 474, 5-24.	1.3	11
60	Metamorphic and geochronological evolution of Paleoproterozoic high-pressure ultra-high-temperature pelitic granulite, Chicheng, northern Trans-North China Orogen. Precambrian Research, 2021, 361, 106237.	2.7	11
61	A study of retrogression in eclogites of the Oberpfalz Forest, north-east Bavaria, West Germany, and their significance in the tectonic evolution of the Bohemian Massif. Geological Society Special Publication, 1989, 43, 507-512.	1.3	8
62	Granitoid melt inclusions in orogenic peridotite and the origin of garnet clinopyroxenite. Geology, 0, ,.	4.4	7
63	An enigmatic report of unmixing of calcic plagioclase to oligoclase and anorthite finally resolved. European Journal of Mineralogy, 1999, 11, 915-918.	1.3	3