

Richard W White

List of Publications by Year in descending order

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87
papers

10,708
citations

57681

46
h-index

66518

82
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88
all docs

88
docs citations

88
times ranked

3093
citing authors

#	ARTICLE	IF	CITATIONS
1	Combined phase diagram modelling and quartz-garnet barometry of <i>HP</i> metapelites from the Kamieniec Metamorphic Belt (NE Bohemian Massif). <i>Journal of Metamorphic Geology</i> , 2022, 40, 3-37.	1.6	5
2	The gabbro to amphibolite transition along a hydration front. <i>Journal of Metamorphic Geology</i> , 2021, 39, 417-442.	1.6	7
3	Phase Diagram Calculations Using Internally-Consistent Thermodynamic Datasets (THERMOCALC). , 2021, , 433-438.		0
4	Plume - Lid interactions during the Archean and implications for the generation of early continental terranes. <i>Gondwana Research</i> , 2020, 88, 150-168.	3.0	21
5	Insights into the Compositional Evolution of Crustal Magmatic Systems from Coupled Petrological-Geodynamical Models. <i>Journal of Petrology</i> , 2020, 61, .	1.1	13
6	The Fate of Accessory Minerals and Key Trace Elements During Anatexis and Magma Extraction. <i>Journal of Petrology</i> , 2020, 61, .	1.1	12
7	Into the melting pot: A celebration of the career of Michael Brown. <i>Journal of Metamorphic Geology</i> , 2019, 37, 889-897.	1.6	0
8	The truth and beauty of chemical potentials. <i>Journal of Metamorphic Geology</i> , 2019, 37, 1007-1019.	1.6	17
9	Phase equilibrium modelling of the amphibolite to granulite facies transition in metabasic rocks (Ivrea) <i>Tj ETQq1 1 0,784314 r, BT /Ov</i>	1.6	28
10	Generation of Earth's Early Continents From a Relatively Cool Archean Mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 1679-1697.	1.0	31
11	New constraints on granulite facies metamorphism and melt production in the Lewisian Complex, northwest Scotland. <i>Journal of Metamorphic Geology</i> , 2018, 36, 799-819.	1.6	26
12	Coupled petrological-geodynamical modeling of a compositionally heterogeneous mantle plume. <i>Tectonophysics</i> , 2018, 723, 242-260.	0.9	8
13	On equilibrium in non-hydrostatic metamorphic systems. <i>Journal of Metamorphic Geology</i> , 2018, 36, 419-438.	1.6	28
14	Origin, age, and significance of deep-seated granulite-facies migmatites in the Barrow zones of Scotland, Cairn Leuchan, Glen Muick area. <i>Journal of Metamorphic Geology</i> , 2018, 36, 1071-1096.	1.6	8
15	Phase Relations, Reaction Sequences and Petrochronology. <i>Reviews in Mineralogy and Geochemistry</i> , 2017, 83, 13-53.	2.2	85
16	Subduction metamorphism in the Himalayan ultrahigh-pressure Tso Moriri massif: An integrated geodynamic and petrological modelling approach. <i>Earth and Planetary Science Letters</i> , 2017, 467, 108-119.	1.8	52
17	2. Phase Relations, Reaction Sequences and Petrochronology. , 2017, , 13-54.		7
18	High-grade metamorphism and partial melting in Archean composite grey gneiss complexes. <i>Journal of Metamorphic Geology</i> , 2017, 35, 181-195.	1.6	57

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19	Nonlithostatic pressure during subduction and collision and the formation of (ultra)high-pressure rocks. <i>Geology</i> , 2016, 44, 343-346.	2.0	45
20	Subduction or sagduction? Ambiguity in constraining the origin of ultramafic mafic bodies in the Archean crust of NW Scotland. <i>Precambrian Research</i> , 2016, 283, 89-105.	1.2	42
21	High-grade metamorphism and partial melting of basic and intermediate rocks. <i>Journal of Metamorphic Geology</i> , 2016, 34, 871-892.	1.6	174
22	Activity-composition relations for the calculation of partial melting equilibria in metabasic rocks. <i>Journal of Metamorphic Geology</i> , 2016, 34, 845-869.	1.6	581
23	Partial melting of metabasic rocks and the generation of tonalitic-trondhjemitic-granodioritic (TTC) crust in the Archaean: Constraints from phase equilibrium modelling. <i>Precambrian Research</i> , 2016, 287, 73-90.	1.2	141
24	Emergence of blueschists on Earth linked to secular changes in oceanic crust composition. <i>Nature Geoscience</i> , 2016, 9, 60-64.	5.4	112
25	Using calculated chemical potential relationships to account for replacement of kyanite by symplectite in high pressure granulites. <i>Journal of Metamorphic Geology</i> , 2015, 33, 311-330.	1.6	44
26	Partial melting of metabasic rocks in Val Strona di Omegna, Ivrea Zone, northern Italy. <i>Lithos</i> , 2014, 190-191, 1-12.	0.6	26
27	Melt production, redistribution and accumulation in mid-crustal source rocks, with implications for crustal-scale melt transfer. <i>Lithos</i> , 2014, 200-201, 212-225.	0.6	28
28	Metamorphism and melting of picritic crust in the early Earth. <i>Lithos</i> , 2014, 189, 173-184.	0.6	30
29	On parameterizing thermodynamic descriptions of minerals for petrological calculations. <i>Journal of Metamorphic Geology</i> , 2014, 32, 245-260.	1.6	61
30	New mineral activity-composition relations for thermodynamic calculations in metapelitic systems. <i>Journal of Metamorphic Geology</i> , 2014, 32, 261-286.	1.6	821
31	Thermobarometric constraints on pressure variations across the Plattengneiss shear zone of the Eastern Alps: implications for exhumation models during Eoalpine subduction. <i>Journal of Metamorphic Geology</i> , 2014, 32, 227-244.	1.6	5
32	The effect of Mn on mineral stability in metapelites revisited: new a_{MnO} relations for manganese-bearing minerals. <i>Journal of Metamorphic Geology</i> , 2014, 32, 809-828.	1.6	357
33	Field and petrographic evidence for partial melting of TTC gneisses from the central region of the mainland Lewisian complex, NW Scotland. <i>Journal of the Geological Society</i> , 2013, 170, 319-326.	0.9	35
34	Migmatites in the Ivrea Zone (NW Italy): Constraints on partial melting and melt loss in metasedimentary rocks from Val Strona di Omegna. <i>Lithos</i> , 2013, 175-176, 40-53.	0.6	35
35	Clockwise, low- metamorphism of the Aus granulite terrain, southern Namibia, during the Mesoproterozoic Namaqua Orogeny. <i>Precambrian Research</i> , 2013, 224, 629-652.	1.2	56
36	Polymetamorphism in the mainland Lewisian complex, NW Scotland - phase equilibria and geochronological constraints from the Cnoc an tSìdhean suite. <i>Journal of Metamorphic Geology</i> , 2012, 30, 865-885.	1.6	29

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37	The importance of iron speciation ($\text{Fe}^{+2}/\text{Fe}^{+3}$) in determining mineral assemblages: an example from the high-grade aluminous metapelites of southeastern Madagascar. <i>Journal of Metamorphic Geology</i> , 2012, 30, 997-1018.	1.6	51
38	Archaean Intracrustal Differentiation from Partial Melting of Metagabbro-Field and Geochemical Evidence from the Central Region of the Lewisian Complex, NW Scotland. <i>Journal of Petrology</i> , 2012, 53, 2115-2138.	1.1	64
39	Garnet and spinel lherzolite assemblages in $\text{MgO-Al}_2\text{O}_3\text{-SiO}_2$ and $\text{CaO-MgO-Al}_2\text{O}_3\text{-SiO}_2$: thermodynamic models and an experimental conflict. <i>Journal of Metamorphic Geology</i> , 2012, 30, 561-577.	1.6	27
40	Phase equilibrium constraints on a deep crustal metamorphic field gradient: metapelitic rocks from the Ivrea Zone (NW Italy). <i>Journal of Metamorphic Geology</i> , 2012, 30, 235-254.	1.6	57
41	Is the Crucible Reproducible? Reconciling Melting Experiments with Thermodynamic Calculations. <i>Elements</i> , 2011, 7, 241-246.	0.5	61
42	Phase equilibrium constraints on conditions of granulite-facies metamorphism at Scourie, NW Scotland. <i>Journal of the Geological Society</i> , 2011, 168, 147-158.	0.9	47
43	On the interpretation of retrograde reaction textures in granulite facies rocks. <i>Journal of Metamorphic Geology</i> , 2011, 29, 131-149.	1.6	74
44	Granulites, partial melting and the rheology of the lower crust. <i>Journal of Metamorphic Geology</i> , 2011, 29, 1-6.	1.6	14
45	A year in the life of an aluminous metapelite xenolith—The role of heating rates, reaction overstep, H ₂ O retention and melt loss. <i>Lithos</i> , 2011, 124, 132-143.	0.6	17
46	Using calculated chemical potential relationships to account for coronas around kyanite: an example from the Bohemian Massif. <i>Journal of Metamorphic Geology</i> , 2010, 28, 97-116.	1.6	51
47	Petrogenetic modelling of strongly residual metapelitic xenoliths within the southern Platreef, Bushveld Complex, South Africa. <i>Journal of Metamorphic Geology</i> , 2010, 28, 269-291.	1.6	19
48	Retrograde melt-residue interaction and the formation of near-anhydrous leucosomes in migmatites. <i>Journal of Metamorphic Geology</i> , 2010, 28, 579-597.	1.6	109
49	On the importance of minding one's <i>P</i> and <i>T</i> : metamorphic processes and quantitative petrology. <i>Journal of Metamorphic Geology</i> , 2010, 28, 561-567.	1.6	0
50	Processes in granulite metamorphism. <i>Journal of Metamorphic Geology</i> , 2008, 26, 121-124.	1.6	8
51	False metamorphic events inferred from misinterpretation of microstructural evidence and <i>P-T</i> data. <i>Journal of Metamorphic Geology</i> , 2008, 26, 437-449.	1.6	58
52	Calculated phase equilibria involving chemical potentials to investigate the textural evolution of metamorphic rocks. <i>Journal of Metamorphic Geology</i> , 2008, 26, 181-198.	1.6	101
53	Granulite facies metamorphism and subsolidus fluid-absent reworking, Strangways Range, Arunta Block, central Australia. <i>Journal of Metamorphic Geology</i> , 2008, 26, 603-622.	1.6	98
54	Phase equilibria modelling of kyanite-bearing anatectic paragneisses from the central Grenville Province. <i>Journal of Metamorphic Geology</i> , 2008, 26, 815-836.	1.6	127

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55	Partial melting of metagreywacke: a calculated mineral equilibria study. <i>Journal of Metamorphic Geology</i> , 2008, 26, 837-853.	1.6	112
56	Quantitative phase petrology of cordierite-bearing orthoamphibole gneisses and related rocks. <i>Journal of Metamorphic Geology</i> , 2008, 26, 795-814.	1.6	43
57	The Proterozoic P-T Evolution of the Kemp Land Coast, East Antarctica; Constraints from Si-saturated and Si-undersaturated Metapelites. <i>Journal of Petrology</i> , 2007, 48, 1321-1349.	1.1	46
58	Timing of Gold Mineralization Relative to the Peak of Metamorphism at Bronzewing, Western Australia. <i>Economic Geology</i> , 2007, 102, 379-392.	1.8	10
59	Contrasting behaviour of rare earth and major elements during partial melting in granulite facies migmatites, Wuluma Hills, Arunta Block, central Australia. <i>Journal of Metamorphic Geology</i> , 2007, 25, 1-18.	1.6	51
60	Progress relating to calculation of partial melting equilibria for metapelites. <i>Journal of Metamorphic Geology</i> , 2007, 25, 511-527.	1.6	944
61	A new thermodynamic model for clino- and orthoamphiboles in the system Na ₂ O-CaO-FeO-MgO-Al ₂ O ₃ -SiO ₂ -H ₂ O. <i>Journal of Metamorphic Geology</i> , 2007, 25, 631-656.	1.6	400
62	Contrasting P-T paths for Neoproterozoic metamorphism in MacRobertson and Kemp Lands, east Antarctica. <i>Journal of Metamorphic Geology</i> , 2007, 25, 683-701.	1.6	62
63	On the roles of deformation and fluid during rejuvenation of a polymetamorphic terrane: inferences on the geodynamic evolution of the Ruker Province, East Antarctica. <i>Journal of Metamorphic Geology</i> , 2007, 25, 855-871.	1.6	23
64	Preservation of evidence for prograde metamorphism in ultrahigh-temperature, high-pressure kyanite-bearing granulites, South Harris, Scotland. <i>Journal of Metamorphic Geology</i> , 2006, 24, 263-279.	1.6	51
65	Devolatilization of metabasic rocks during greenschist-amphibolite facies metamorphism. <i>Journal of Metamorphic Geology</i> , 2006, 24, 497-513.	1.6	93
66	Spatially-focussed melt formation in aluminous metapelites from Broken Hill, Australia. <i>Journal of Metamorphic Geology</i> , 2005, 22, 825-845.	1.6	236
67	Calculated phase equilibria in K ₂ O-FeO-MgO-Al ₂ O ₃ -SiO ₂ -H ₂ O for silica-undersaturated sapphirine-bearing mineral assemblages. <i>Journal of Metamorphic Geology</i> , 2005, 23, 217-239.	1.6	80
68	An in situ metatexite-diatexite transition in upper amphibolite facies rocks from Broken Hill, Australia. <i>Journal of Metamorphic Geology</i> , 2005, 23, 579-602.	1.6	299
69	A thermodynamic model for Ca-Na clinoamphiboles in Na ₂ O-CaO-FeO-MgO-Al ₂ O ₃ -SiO ₂ -H ₂ O-O for petrological calculations. <i>Journal of Metamorphic Geology</i> , 2005, 23, 771-791.	1.6	264
70	TRUTH AND BEAUTY IN METAMORPHIC PHASE-EQUILIBRIA: CONJUGATE VARIABLES AND PHASE DIAGRAMS. <i>Canadian Mineralogist</i> , 2005, 43, 21-33.	0.3	119
71	A sequence of partial melting reactions at Mt Stafford, central Australia. <i>Journal of Metamorphic Geology</i> , 2004, 16, 363-378.	1.6	71
72	Calculated phase equilibria in K ₂ O-FeO-MgO-Al ₂ O ₃ -SiO ₂ -H ₂ O for sapphirine-quartz-bearing mineral assemblages. <i>Journal of Metamorphic Geology</i> , 2004, 22, 559-578.	1.6	151

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73	The metamorphic evolution of metapelitic granulites from Radok Lake, northern Prince Charles Mountains, east Antarctica; evidence for an anticlockwise P - T path. <i>Journal of Metamorphic Geology</i> , 2003, 21, 285-298.	1.6	38
74	A mineral equilibria study of the hydrothermal alteration in mafic greenschist facies rocks at Kalgoorlie, Western Australia. <i>Journal of Metamorphic Geology</i> , 2003, 21, 455-468.	1.6	130
75	Orthopyroxene-sillimanite-quartz assemblages: distribution, petrology, quantitative P-T-X constraints and P-T paths. <i>Journal of Metamorphic Geology</i> , 2003, 21, 439-453.	1.6	89
76	New constraints on metamorphism in the Rauer Group, Prydz Bay, east Antarctica. <i>Journal of Metamorphic Geology</i> , 2003, 21, 739-759.	1.6	108
77	Prograde Metamorphic Assemblage Evolution during Partial Melting of Metasedimentary Rocks at Low Pressures: Migmatites from Mt Stafford, Central Australia. <i>Journal of Petrology</i> , 2003, 44, 1937-1960.	1.1	171
78	The interpretation of reaction textures in Fe-rich metapelitic granulites of the Musgrave Block, central Australia: constraints from mineral equilibria calculations in the system K_2O - FeO - MgO - Al_2O_3 - SiO_2 - H_2O - TiO_2 - Fe_2O_3 . <i>Journal of Metamorphic Geology</i> , 2002, 20, 41-55.	1.6	605
79	Melt loss and the preservation of granulite facies mineral assemblages. <i>Journal of Metamorphic Geology</i> , 2002, 20, 621-632.	1.6	333
80	Melt loss and the preservation of granulite facies mineral assemblages. <i>Journal of Metamorphic Geology</i> , 2002, 20, 621-632.	1.6	363
81	Calculation of partial melting equilibria in the system Na_2O - CaO - K_2O - FeO - MgO - Al_2O_3 - SiO_2 - H_2O (NCKFMASH). <i>Journal of Metamorphic Geology</i> , 2001, 19, 139-153.	1.6	672
82	Thrusting in the lower crust: evidence from the Oygarden Islands, Kemp Land, East Antarctica. <i>Geological Magazine</i> , 2000, 137, 219-234.	0.9	44
83	The effect of TiO_2 and Fe_2O_3 on metapelitic assemblages at greenschist and amphibolite facies conditions: mineral equilibria calculations in the system K_2O - FeO - MgO - Al_2O_3 - SiO_2 - H_2O - TiO_2 - Fe_2O_3 . <i>Journal of Metamorphic Geology</i> , 2000, 18, 497-511.	1.6	939
84	SHRIMP U-Pb zircon dating of Grenville-age events in the western part of the Musgrave Block, central Australia. <i>Journal of Metamorphic Geology</i> , 1999, 17, 465-481.	1.6	77
85	Garnet-forming reactions and recrystallization in high-grade mylonite zones, MacRobertson Land, east Antarctica. <i>Journal of Metamorphic Geology</i> , 1994, 12, 853-865.	1.6	6
86	Timing of Proterozoic deformation and magmatism in a tectonically reworked orogen, Rayner Complex, Colbeck Archipelago, east Antarctica. <i>Precambrian Research</i> , 1993, 63, 1-26.	1.2	26
87	Dating blueschist-facies metamorphism within the Naga ophiolite, Northeast India, using sheared carbonate veins. <i>International Geology Review</i> , 0, , 1-18.	1.1	2