Roger Powell

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74 papers 17,306 titations 48 papers 9-index 79 g-index 7.02 ext. papers ext. citations avg, IF 18,879 thindex 18,879 thindex

#	Paper	IF	Citations
74	Mantle-like HfNd isotope signatures in ~3.5 Ga greenstones: No evidence for Hadean crust beneath the East Pilbara Craton. <i>Chemical Geology</i> , 2021 , 576, 120273	4.2	2
73	Robust isochron calculation. <i>Geochronology</i> , 2020 , 2, 325-342	3.8	6
72	The truth and beauty of chemical potentials. <i>Journal of Metamorphic Geology</i> , 2019 , 37, 1007-1019	4.4	12
71	On equilibrium in non-hydrostatic metamorphic systems. <i>Journal of Metamorphic Geology</i> , 2018 , 36, 419)- <u>4</u> . <u>3</u> 8	21
70	Melting of Peridotites through to Granites: A Simple Thermodynamic Model in the System KNCFMASHTOCr. <i>Journal of Petrology</i> , 2018 , 59, 881-900	3.9	64
69	The effect of subduction on the sulphur, carbon and redox budget of lithospheric mantle. <i>Journal of Metamorphic Geology</i> , 2015 , 33, 649-670	4.4	35
68	Viscous relaxation of grain-scale pressure variations. <i>Journal of Metamorphic Geology</i> , 2015 , 33, 859-868	34.4	24
67	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	4.4	35
66	On parameterizing thermodynamic descriptions of minerals for petrological calculations. <i>Journal of Metamorphic Geology</i> , 2014 , 32, 245-260	4.4	47
65	A new thermodynamic model for sapphirine: calculated phase equilibria in K2OHeOMgOAl2O3BiO2H2OIIiO2He2O3. <i>Journal of Metamorphic Geology</i> , 2014 , 32, 287-299	4.4	50
64	Intermediate granulite produced by transformation of eclogite at a felsic granulite contact, in Blanskiles, Bohemian Massif. <i>Journal of Metamorphic Geology</i> , 2014 , 32, 347-370	4.4	13
63	New mineral activityflomposition relations for thermodynamic calculations in metapelitic systems. Journal of Metamorphic Geology, 2014 , 32, 261-286	4.4	525
62	Grain-scale pressure variations and chemical equilibrium in high-grade metamorphic rocks. <i>Journal of Metamorphic Geology</i> , 2014 , 32, 195-207	4.4	59
61	The effect of Mn on mineral stability in metapelites revisited: new a⊠ relations for manganese-bearing minerals. <i>Journal of Metamorphic Geology</i> , 2014 , 32, 809-828	4.4	236
60	Using equilibrium thermodynamics in the study of metasomatic alteration, illustrated by an application to serpentinites. <i>Lithos</i> , 2013 , 168-169, 67-84	2.9	48
59	Garnet and spinel lherzolite assemblages in MgOAl2O3BiO2 and CaOMgOAl2O3BiO2: thermodynamic models and an experimental conflict. <i>Journal of Metamorphic Geology</i> , 2012 , 30, 561-57	1 4·4	24
58	Revised activitydomposition models for clinopyroxene and amphibole. <i>Journal of Metamorphic Geology</i> , 2012 , 30, 131-142	4.4	193

(2005-2011)

57	On the interpretation of retrograde reaction textures in granulite facies rocks. <i>Journal of Metamorphic Geology</i> , 2011 , 29, 131-149	4.4	62
56	Progress in linking accessory mineral growth and breakdown to major mineral evolution in metamorphic rocks: a thermodynamic approach in the Na2O-CaO-K2O-FeO-MgO-Al2O3-SiO2-H2O-TiO2-ZrO2 system. <i>Journal of Metamorphic Geology</i> ,	4.4	151
55	An improved and extended internally consistent thermodynamic dataset for phases of petrological interest, involving a new equation of state for solids. <i>Journal of Metamorphic Geology</i> , 2011 , 29, 333-38	3 ^{4.4}	1103
54	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	4.4	44
53	Retrograde meltilesidue interaction and the formation of near-anhydrous leucosomes in migmatites. <i>Journal of Metamorphic Geology</i> , 2010 , 28, 579-597	4.4	96
52	The stability of sapphirine + quartz: calculated phase equilibria in FeOMgOAl2O3BiO2IiO2ID. Journal of Metamorphic Geology, 2010 , 28, 615-633	4.4	48
51	Did the Delamerian Orogeny Start in the Neoproterozoic?. <i>Journal of Geology</i> , 2009 , 117, 575-583	2	29
50	On thermobarometry. Journal of Metamorphic Geology, 2008, 26, 155-179	4.4	362
49	Calculated phase equilibria involving chemical potentials to investigate the textural evolution of metamorphic rocks. <i>Journal of Metamorphic Geology</i> , 2008 , 26, 181-198	4.4	86
48	Ultrahigh-pressure garnet peridotites from the devolatilization of sea-floor hydrated ultramafic rocks. <i>Journal of Metamorphic Geology</i> , 2008 , 26, 695-716	4.4	63
47	An order-disorder model for omphacitic pyroxenes in the system jadeite-diopsidehedenbergite-acmite, with applications to eclogitic rocks. <i>American Mineralogist</i> , 2007 , 92, 1181-1189	2.9	409
46	Progress relating to calculation of partial melting equilibria for metapelites. <i>Journal of Metamorphic Geology</i> , 2007 , 25, 511-527	4.4	814
45	A new thermodynamic model for clino- and orthoamphiboles in the system Na2OffaOffeOfMgOfal2O3BiO2fb2Ofb. <i>Journal of Metamorphic Geology</i> , 2007 , 25, 631-656	4.4	386
44	Palaeozoic Intraplate Crustal Anatexis in the Mount Painter Province, South Australia: Timing, Thermal Budgets and the Role of Crustal Heat Production. <i>Journal of Petrology</i> , 2006 , 47, 2281-2302	3.9	48
43	A method for activity calculations in saline and mixed solvent solutions at elevated temperature and pressure: A framework for geological phase equilibria calculations. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 5488-5506	5.5	19
42	TRUTH AND BEAUTY IN METAMORPHIC PHASE-EQUILIBRIA: CONJUGATE VARIABLES AND PHASE DIAGRAMS. <i>Canadian Mineralogist</i> , 2005 , 43, 21-33	0.7	100
41	Spatially-focussed melt formation in aluminous metapelites from Broken Hill, Australia. <i>Journal of Metamorphic Geology</i> , 2005 , 22, 825-845	4.4	196
40	A thermodynamic model for CaNa clinoamphiboles in Na2OLaOHeOMgOAl2O3BiO2H2OD for petrological calculations. <i>Journal of Metamorphic Geology</i> , 2005 , 23, 771-791	4.4	228

39	How well known are the thermodynamics of FeMgta garnet? Evidence from experimentally determined exchange equilibria. <i>Journal of Metamorphic Geology</i> , 2004 , 14, 75-84	4.4	10
38	An internally consistent thermodynamic data set for phases of petrological interest. <i>Journal of Metamorphic Geology</i> , 2004 , 16, 309-343	4.4	3233
37	Phase relations in high-pressure metapelites in the system KFMASH (K2OffeOfMgOfal2O3fiO2ff2O) with application to natural rocks. <i>Contributions To Mineralogy and Petrology</i> , 2003 , 145, 301-315	3.5	115
36	ActivityElomposition relations for phases in petrological calculations: an asymmetric multicomponent formulation. <i>Contributions To Mineralogy and Petrology</i> , 2003 , 145, 492-501	3.5	857
35	(Th+U)-Pb monazite ages from Al-Mg-rich metapelites, Rauer Group, east Antarctica. <i>Contributions To Mineralogy and Petrology</i> , 2003 , 146, 326-340	3.5	67
34	Melt loss and the preservation of granulite facies mineral assemblages. <i>Journal of Metamorphic Geology</i> , 2002 , 20, 621-632	4.4	265
33	Improving isochron calculations with robust statistics and the bootstrap. <i>Chemical Geology</i> , 2002 , 185, 191-204	4.2	61
32	H2O in metamorphism and unexpected behaviour in the preservation of metamorphic mineral assemblages. <i>Journal of Metamorphic Geology</i> , 2001 , 19, 445-454	4.4	193
31	Relating formulations of the thermodynamics of mineral solid solutions; activity modeling of pyroxenes, amphiboles, and micas. <i>American Mineralogist</i> , 1999 , 84, 1-14	2.9	369
30	Calculating phase diagrams involving solid solutions via non-linear equations, with examples using THERMOCALC. <i>Journal of Metamorphic Geology</i> , 1998 , 16, 577-588	4.4	714
29	Mixing properties and activity-composition relationships of chlorites in the system MgO-FeO-Al2O3-SiO2-H2O. <i>European Journal of Mineralogy</i> , 1998 , 10, 395-406	2.2	514
28	The effect of Mn on mineral stability in metapelites. <i>Journal of Metamorphic Geology</i> , 1997 , 15, 223-238	4.4	242
27	Thermodynamics of order-disorder in minerals; II, Symmetric formalism applied to solid solutions. <i>American Mineralogist</i> , 1996 , 81, 1425-1437	2.9	314
26	Thermodynamics of order-disorder in minerals; I, Symmetric formalism applied to minerals of fixed composition. <i>American Mineralogist</i> , 1996 , 81, 1413-1424	2.9	57
25	Hydration of orthopyroxenellordierite-bearing assemblages at Laouni, Central Hoggar, Algeria. Journal of Metamorphic Geology, 1996 , 14, 467-476	4.4	25
24	Metapelitic granulites from Jetty Peninsula, east Antarctica: formation during a single event or by polymetamorphism?. <i>Journal of Metamorphic Geology</i> , 1994 , 12, 557-573	4.4	45
23	Metamorphism in Archaean greenstone belts: calculated fluid compositions and implications for gold mineralization. <i>Journal of Metamorphic Geology</i> , 1991 , 9, 141-150	4.4	148
22	Proterozoic granulite facies metamorphism in the southeastern Reynolds Range, central Australia: geological context, PII path and overprinting relationships. <i>Journal of Metamorphic Geology</i> , 1991 , 9, 267-281	4.4	38

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21	Some remarks on high-temperatureIbw-pressure metamorphism in convergent orogens. <i>Journal of Metamorphic Geology</i> , 1991 , 9, 333-340	4.4	131
20	Decompressional coronas and symplectites in granulites of the Musgrave Complex, central Australia. <i>Journal of Metamorphic Geology</i> , 1991 , 9, 441-450	4.4	61
19	The PIIDeformation path for a mid-Proterozoic, low-pressure terrane: the Reynolds Range, central Australia. <i>Journal of Metamorphic Geology</i> , 1991 , 9, 641-661	4.4	47
18	An enlarged and updated internally consistent thermodynamic dataset with uncertainties and correlations: the system K2ONa2OIaOMgOMnOHeOHe2O3Al2O3IiO2IiO2IIH2D2. Journal of Metamorphic Geology, 1990, 8, 89-124	4.4	911
17	Matrix analysis of metamorphic mineral assemblages and reactions: alternatives and extensions. <i>Contributions To Mineralogy and Petrology</i> , 1990 , 106, 61-65	3.5	1
16	A calculated petrogenetic grid for ultramafic rocks in the system CaO-FeO-MgO-Al2O3-SiO2-CO2-H2O at low pressures. <i>Contributions To Mineralogy and Petrology</i> , 1990 , 105, 347-358	3.5	37
15	Calculated mineral equilibria in the greenschist-blueschist-eclogite facies in Na2OEeOMgOAl2O3BiO2H2O. <i>Contributions To Mineralogy and Petrology</i> , 1990 , 104, 85-98	3.5	71
14	Garnet porphyroblast-bearing leucosomes in metapelites: mechanisms, phase diagrams, and an example from Broken Hill, Australia 1990 , 105-123		61
13	Low-pressure granulite facies metapelitic assemblages and corona textures from MacRobertson Land, east Antarctica: the importance of Fe2O3 and TiO2 in accounting for spinel-bearing assemblages. <i>Journal of Metamorphic Geology</i> , 1989 , 7, 323-335	4.4	82
12	An internally consistent dataset with uncertainties and correlations: 3. Applications to geobarometry, worked examples and a computer program. <i>Journal of Metamorphic Geology</i> , 1988 , 6, 173-204	4.4	1239
11	Thermal and baric evolution of garnet granulites from Sri Lanka. <i>Journal of Metamorphic Geology</i> , 1988 , 6, 351-364	4.4	54
10	Corona textures between kyanite, garnet and gedrite in gneisses from Errabiddy, Western Australia. <i>Journal of Metamorphic Geology</i> , 1987 , 5, 357-370	4.4	15
9	Metamorphic evolution of aluminous granulites from Labwor Hills, Uganda. <i>Contributions To Mineralogy and Petrology</i> , 1987 , 95, 217-225	3.5	69
8	Evidence for a Variscan suture zone in the VendB, France: a petrological study of blueschist facies rocks from Bois de Cen\(\textit{Journal of Metamorphic Geology}\), 1987 , 5, 225-237	4.4	24
7	Metamorphism in the Olary Block, South Australia: compression with cooling in a Proterozoic fold belt. <i>Journal of Metamorphic Geology</i> , 1987 , 5, 291-306	4.4	86
6	Regression diagnostics and robust regression in geothermometer/geobarometer calibration: the garnet-clinopyroxene geothermometer revisited. <i>Journal of Metamorphic Geology</i> , 1985 , 3, 231-243	4.4	498
5	An internally consistent thermodynamic dataset with uncertainties and correlations: 1. Methods and a worked example. <i>Journal of Metamorphic Geology</i> , 1985 , 3, 327-342	4.4	178
4	An internally consistent thermodynamic dataset with uncertainties and correlations: 2. Data and results. <i>Journal of Metamorphic Geology</i> , 1985 , 3, 343-370	4.4	166

3	A garnetBornblende geothermometer: calibration, testing, and application to the Pelona Schist, Southern California. <i>Journal of Metamorphic Geology</i> , 1984 , 2, 13-31	4.4	583
2	Calcitedolomite geothermometry in the system CaCO3MgCO3HeCO3: an experimental study. <i>Journal of Metamorphic Geology</i> , 1984 , 2, 33-41	4.4	81
1	Thermodynamics of Complex Phases 1983 , 241-266		3