

# Peter Tropper

## List of Publications by Year in descending order

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54  
papers

1,439  
citations

304743

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docs citations

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times ranked

1562  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solubility of CePO <sub>4</sub> monazite and YPO <sub>4</sub> xenotime in H <sub>2</sub> O and H <sub>2</sub> O+NaCl at 800°C and 1GPa: Implications for REE and Y transport during high-grade metamorphism. <i>Chemical Geology</i> , 2011, 282, 58-66.	3.3	118
2	Very low solubility of rutile in H <sub>2</sub> O at high pressure and temperature, and its implications for Ti mobility in subduction zones. <i>American Mineralogist</i> , 2005, 90, 502-505.	1.9	113
3	Formation of Al-rich titanite (CaTiSiO <sub>4</sub> +CaAlSiO <sub>4</sub> OH) reaction rims on ilmenite in metamorphic rocks as a function of fH <sub>2</sub> O and fO <sub>2</sub> . <i>Lithos</i> , 2006, 88, 72-84.	1.4	101
4	A Synthesis and Crystal Chemical Study of the Fast Ion Conductor Li <sub>3-x</sub> Ga <sub>x</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> with $x = 0.08$ to 0.84. <i>Inorganic Chemistry</i> , 2014, 53, 6264-6269.	4.0	93
5	The solubility of corundum in H <sub>2</sub> O at high pressure and temperature and its implications for Al mobility in the deep crust and upper mantle. <i>Chemical Geology</i> , 2007, 240, 54-60.	3.3	68
6	Formation of magmatic titanite and titanite-ilmenite phase relations during granite alteration in the Tribe Mountains, Western Carpathians, Slovakia. <i>Lithos</i> , 2007, 95, 58-71.	1.4	66
7	The Substitution of Al and F in Titanite at High Pressure and Temperature: Experimental Constraints on Phase Relations and Solid Solution Properties. <i>Journal of Petrology</i> , 2002, 43, 1787-1814.	2.8	63
8	The solubility of fluorite in H <sub>2</sub> O and H <sub>2</sub> O+NaCl at high pressure and temperature. <i>Chemical Geology</i> , 2007, 242, 299-306.	3.3	58
9	The petrology of a complex sodic and sodic-calcic amphibole association and its implications for the metasomatic processes in the jadeitite area in northwestern Myanmar, formerly Burma. <i>Contributions To Mineralogy and Petrology</i> , 2003, 145, 355-376.	3.1	54
10	Methane (CH <sub>4</sub> )-bearing fluid inclusions in the Myanmar jadeitite. <i>Geochemical Journal</i> , 2005, 39, 503-516.	1.0	49
11	Phase-equilibrium constraints on titanite and rutile activities in mafic epidote amphibolites and geobarometry using titanite-rutile equilibria. <i>Journal of Metamorphic Geology</i> , 2009, 27, 509-521.	3.4	45
12	High-pressure partial melting and melt loss in felsic granulites in the Kutná Hora complex, Bohemian Massif (Czech Republic). <i>Lithos</i> , 2011, 125, 641-658.	1.4	37
13	Pyrometamorphic formation of phosphorus-rich olivines in partially molten metapelitic gneisses from a prehistoric sacrificial burning site (Otz Valley, Tyrol, Austria). <i>European Journal of Mineralogy</i> , 2004, 16, 631-640.	1.3	31
14	The current status of titanite-rutile thermobarometry in ultrahigh-pressure metamorphic rocks: The influence of titanite activity models on phase equilibrium calculations. <i>Chemical Geology</i> , 2008, 254, 123-132.	3.3	31
15	Experimental constraints on the formation of high-P/high-T granulites in the Southern Bohemian Massif. <i>European Journal of Mineralogy</i> , 2005, 17, 343-356.	1.3	30
16	P-T evolution of spinel-cordierite-garnet gneisses from the Sauwald Zone (Southern Bohemian) Tj ETQq0 0 0 rgBT /Overlock Moldanubian Unit?. <i>International Journal of Earth Sciences</i> , 2006, 95, 1019-1037.	1.8	30
17	Copper production in late prehispanic northern Chile. <i>Journal of Archaeological Science</i> , 2013, 40, 1165-1175.	2.4	29
18	Paragonite stability at 700°C in the presence of H <sub>2</sub> O+NaCl fluids: constraints on H <sub>2</sub> O activity and implications for high pressure metamorphism. <i>Contributions To Mineralogy and Petrology</i> , 2004, 147, 740-749.	3.1	28

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19	Amphibole and phlogopite in "hybrid" metasomatic bands monitor trace element transfer at the interface between felsic and ultramafic rocks (Eastern Alps, Italy). <i>Lithos</i> , 2010, 117, 135-148.	1.4	28
20	Structure, Mineralogy and Geomechanical Properties of Shear Zones of Deep-Seated Rockslides in Metamorphic Rocks (Tyrol, Austria). <i>Rock Mechanics and Rock Engineering</i> , 2017, 50, 419-438.	5.4	26
21	Characterization of non-equilibrium and equilibrium occurrences of paragonite/muscovite intergrowths in an eclogite from the Sesia "Lanzo Zone (Western Alps, Italy). <i>Contributions To Mineralogy and Petrology</i> , 2000, 138, 326-336.	3.1	22
22	Zr-bearing minerals as indicators for the polymetamorphic evolution of the eastern, lower Austroalpine nappes (Stubenberg Granite contact aureole, Styria, Eastern Alps, Austria). <i>Lithos</i> , 2007, 95, 72-86.	1.4	22
23	The metamorphic evolution of migmatites from the "tztal Complex (Tyrol, Austria) and constraints on the timing of the pre-Variscan high-T event in the Eastern Alps. <i>Swiss Journal of Geosciences</i> , 2008, 101, 111-126.	1.2	22
24	Quantitative evaluation of mineral grains using automated SEM "EDS analysis and its application potential in optically stimulated luminescence dating. <i>Radiation Measurements</i> , 2013, 58, 1-11.	1.4	22
25	A semi-quantitative technique for determination of CO <sub>2</sub> in cordierite by Raman spectroscopy in thin sections. <i>European Journal of Mineralogy</i> , 2006, 18, 331-335.	1.3	19
26	From nappe stacking to exhumation: Cretaceous tectonics in the Apuseni Mountains (Romania). <i>International Journal of Earth Sciences</i> , 2017, 106, 659-685.	1.8	19
27	LATE PRE-HISPANIC AND EARLY COLONIAL SILVER PRODUCTION IN THE QUEBRADA DE TARAPACÁ, NORTHERN CHILE. <i>Boletín Del Museo Chileno De Arte Precolombino</i> , 2010, 15, 65-87.	0.2	18
28	The chemical composition of tetrahedrite-tennantite ores from the prehistoric and historic Schwaz and Brixlegg mining areas (North Tyrol, Austria). <i>European Journal of Mineralogy</i> , 2011, 23, 925-936.	1.3	18
29	Silver lining: evidence for Inka silver refining in northern Chile. <i>Journal of Archaeological Science</i> , 2013, 40, 3282-3292.	2.4	17
30	The solubility of apatite in H <sub>2</sub> O, KCl-H <sub>2</sub> O, NaCl-H <sub>2</sub> O at 800 °C and 1.0 GPa: Implications for REE mobility in high-grade saline brines. <i>Chemical Geology</i> , 2017, 470, 180-192.	3.3	17
31	The solubility of CePO <sub>4</sub> monazite and YPO <sub>4</sub> xenotime in KCl-H <sub>2</sub> O fluids at 800 °C and 1.0 GPa: Implications for REE transport in high-grade crustal fluids. <i>American Mineralogist</i> , 2017, 102, 2457-2466.	1.9	14
32	Investigations on the Crystal Structure and the Stability Field of FCAM-I (Ca <sub>3</sub> MgAl <sub>6</sub> Fe <sub>10</sub> O <sub>28</sub> ), an Iso-structure to SFCA-I. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 2207-2221.	2.1	12
33	Prograde Permo-Triassic metamorphic HT/LP assemblages from the Austroalpine Jenig Complex (Carinthia, Austria). <i>Austrian Journal of Earth Sciences</i> , 2015, 108, 73-90.	0.5	12
34	The formation of phosphoran olivine and stanfieldite from the pyrometamorphic breakdown of apatite in slags from a prehistoric ritual immolation site (Goldbichl, Igls, Tyrol, Austria). <i>Mineralogy and Petrology</i> , 2013, 107, 327-340.	1.1	11
35	Direct dating of lithic surface artifacts using luminescence. <i>Science Advances</i> , 2021, 7, .	10.3	10
36	The western end of the Eoalpine High-Pressure Belt (Texel unit, South Tyrol / Italy). <i>Terra Nova</i> , 2016, 28, 60-69.	2.1	9

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37	An experimental investigation of Na incorporation in cordierite in low P/high T metapelites. <i>Mineralogy and Petrology</i> , 2018, 112, 199-217.	1.1	9
38	Post-Variscan metamorphism in the Apuseni and Rodna Mountains (Romania): evidence from Sm–Nd garnet and Th–Pb monazite dating. <i>Swiss Journal of Geosciences</i> , 2019, 112, 101-120.	1.2	9
39	Minor element- and carbonaceous material thermometry of high-grade metapelites from the Sauwald Zone, Southern Bohemian Massif (Upper Austria). <i>Mineralogy and Petrology</i> , 2009, 97, 61-74.	1.1	8
40	U–Pb geochronology of detrital zircons from a contact metamorphic Brixen Quartzphyllite (South-Tyrol, Italy): evidence for a complex pre-Variscan evolution of the Southalpine basement. <i>Swiss Journal of Geosciences</i> , 2010, 103, 273-281.	1.2	7
41	Investigations on FCAM-III (Ca <sub>2.38</sub> Mg <sub>2.09</sub> Fe <sub>3</sub> +10.61Fe <sub>2</sub> +1.59Al <sub>9.33</sub> O <sub>36</sub> ): A new homologue of the aenigmatite structure-type in the system CaO-MgO-Fe <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Solid State Chemistry</i> , 2018, 258, 307-319.	2.9	7
42	Deciphering Magmatic and Metasomatic Processes Recorded by Fluid Inclusions and Apatite within the Cu–Ni±PGE-Sulfide Mineralized Bathub Intrusion of the Duluth Complex, NE Minnesota, USA. <i>Journal of Petrology</i> , 2018, 59, 1167-1192.	2.8	7
43	Petrology of contact metamorphic metapelites from the southern rim of the Permian Brixen Granodiorite (South Tyrol, Italy). <i>Mineralogy and Petrology</i> , 2012, 106, 173-191.	1.1	5
44	Constraints on the depositional age and tectonometamorphic evolution of marbles from the Biharia Nappe System (Apuseni Mountains, Romania). <i>Geologica Carpathica</i> , 2017, 68, 147-166.	0.7	5
45	Single-crystal structure and Raman spectroscopy of synthetic titanite analog CaAlSiO <sub>4</sub> F. <i>Mineralogy and Petrology</i> , 2015, 109, 631-641.	1.1	4
46	The occurrence of magnesioferrite-rich spinels in a trachyandesite from NE China. <i>Mineralogy and Petrology</i> , 2009, 95, 125-134.	1.1	3
47	Small grains and big implications: Accessory Ti- and Zr-minerals as petrogenetic indicators in HP and UHP marbles. <i>American Mineralogist</i> , 2014, 99, 1197-1198.	1.9	3
48	Heat capacity measurements of CaAlSiO <sub>4</sub> F from 5 to 850 K and its standard entropy. <i>American Mineralogist</i> , 2018, 103, 1165-1168.	1.9	3
49	Geothermobarometry of a stilpnomelane-bearing metapegmatite: P–T constraints on the Eo-Alpine metamorphic overprint of the Austroalpine nappes north of the Tauern Window. <i>Mineralogy and Petrology</i> , 2009, 96, 99-111.	1.1	2
50	Reactions involving famatinite and Fe-Zn tetrahedrite: thermochemical evaluation of phase relations in the Cu-Fe-Sb-S and Cu-Zn-Sb-S end-member systems. <i>European Journal of Mineralogy</i> , 2013, 25, 155-163.	1.3	2
51	Innsbruckite, Mn <sub>33</sub> (Si <sub>2</sub> O <sub>5</sub> ) <sub>14</sub> (OH) <sub>38</sub> – a new mineral from the Tyrol, Austria. <i>Mineralogical Magazine</i> , 2014, 78, 1613-1627.	1.4	1
52	Stability and calorimetric studies of silico-ferrites of calcium aluminum and magnesium. <i>Journal of the American Ceramic Society</i> , 2018, 101, 4193-4202.	3.8	1
53	Experimental simulation of contact metamorphism using natural quartzphyllite materials: advantages and pitfalls. <i>Geological Society Special Publication</i> , 2019, 478, 117-135.	1.3	1
54	Bones, Rocks, and Flames: Mineralogy and Petrology of Slags and Cremated Bones from Ritual Immolation Sites in Tyrol. , 2016, , 43-67.		0