

Philip M Piccoli

List of Publications by Year in descending order

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82
papers

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61984

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64796

79
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87
all docs

87
docs citations

87
times ranked

4657
citing authors

#	ARTICLE	IF	CITATIONS
1	Tectonic discrimination of granitoids. <i>Bulletin of the Geological Society of America</i> , 1989, 101, 635-643.	3.3	3,304
2	Can otolith microchemistry chart patterns of migration and habitat utilization in anadromous fishes?. <i>Journal of Experimental Marine Biology and Ecology</i> , 1995, 192, 15-33.	1.5	322
3	Magmatic Apatite: A Powerful, Yet Deceptive, Mineral. <i>Elements</i> , 2015, 11, 177-182.	0.5	232
4	Copper partitioning in a melt-vapor-brine-magnetite-pyrrhotite assemblage. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 5583-5600.	3.9	146
5	Magnetite solubility and iron transport in magmatic-hydrothermal environments. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4905-4914.	3.9	144
6	Comparison of accuracy, precision, and sensitivity in elemental assays of fish otoliths using the electron microprobe, proton-induced X-ray emission, and laser ablation inductively coupled plasma mass spectrometry. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1997, 54, 2068-2079.	1.4	123
7	Mapping lithospheric boundaries using Os isotopes of mantle xenoliths: An example from the North China Craton. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3881-3902.	3.9	118
8	Alkali metals control the release of gold from volatile-rich magmas. <i>Earth and Planetary Science Letters</i> , 2010, 297, 50-56.	4.4	116
9	The partitioning of sulfur and chlorine between andesite melts and magmatic volatiles and the exchange coefficients of major cations. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 89, 81-101.	3.9	116
10	Solubility and partitioning behavior of Au, Cu, Ag and reduced S in magmas. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 112, 288-304.	3.9	115
11	The solubility of copper in high-temperature magmatic vapors: A quest for the significance of various chloride and sulfide complexes. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 2811-2827.	3.9	114
12	Magmatic sulfides and Au:Cu ratios in porphyry deposits: an experimental study of copper and gold partitioning at 850°C, 100 MPa in a haplogranitic melt-pyrrhotite-intermediate solid solution-gold metal assemblage, at gas saturation. <i>Lithos</i> , 1999, 46, 573-589.	1.4	113
13	Partial Migration of Fishes as Exemplified by the Estuarine-Dependent White Perch. <i>Fisheries</i> , 2009, 34, 114-123.	0.8	112
14	Gold partitioning in melt-vapor-brine systems. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 3321-3335.	3.9	110
15	Gold and copper in volatile saturated mafic to intermediate magmas: Solubilities, partitioning, and implications for ore deposit formation. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 91, 140-159.	3.9	110
16	Partitioning behavior of chlorine and fluorine in felsic melt-fluid-apatite systems at 50MPa and 850-950°C. <i>Chemical Geology</i> , 2014, 384, 94-111.	3.3	105
17	The partitioning of copper between silicate melts and two-phase aqueous fluids: An experimental investigation at 1 kbar, 800°C and 0.5 kbar, 850°C. <i>Contributions To Mineralogy and Petrology</i> , 1995, 121, 388-399.	3.1	102
18	Age- and Sex-Dependent Migrations of Striped Bass in the Hudson River as Determined by Chemical Microanalysis of Otoliths. <i>Estuaries and Coasts</i> , 1996, 19, 778.	1.7	89

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19	The distribution of rare earth elements between monzogranitic melt and the aqueous volatile phase in experimental investigations at 800 °C and 200 MPa. <i>Contributions To Mineralogy and Petrology</i> , 2000, 140, 251-262.	3.1	89
20	The partitioning behavior of As and Au in S-free and S-bearing magmatic assemblages. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 1764-1782.	3.9	89
21	Gold solubility, speciation, and partitioning as a function of HCl in the brine-silicate melt-metallic gold system at 800°C and 100 MPa. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 3719-3732.	3.9	88
22	Secular mantle oxidation across the Archean-Proterozoic boundary: Evidence from V partitioning in komatiites and picrites. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 250, 49-75.	3.9	88
23	Chemical heterogeneity in the upper mantle recorded by peridotites and chromitites from the Shetland Ophiolite Complex, Scotland. <i>Earth and Planetary Science Letters</i> , 2012, 333-334, 226-237.	4.4	77
24	Processes controlling highly siderophile element fractionations in xenolithic peridotites and their influence on Os isotopes. <i>Earth and Planetary Science Letters</i> , 2010, 297, 287-297.	4.4	75
25	Gold and copper partitioning in magmatic-hydrothermal systems at 800°C and 100MPa. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 2470-2482.	3.9	74
26	Molybdenum, tungsten and manganese partitioning in the system pyrrhotite-Fe-O melt-rhyolite melt: Impact of sulfide segregation on arc magma evolution. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 7018-7030.	3.9	74
27	¹⁸⁷ Os- ¹⁸⁶ Os systematics of Os-Ir-Ru alloy grains from southwestern Oregon. <i>Earth and Planetary Science Letters</i> , 2005, 230, 211-226.	4.4	70
28	Hydrogen-alkali exchange between silicate melts and two-phase aqueous mixtures: an experimental investigation. <i>Contributions To Mineralogy and Petrology</i> , 1997, 128, 114-126.	3.1	67
29	The behavior of chalcophile elements during magmatic differentiation as observed in Kilauea Iki lava lake, Hawaii. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 210, 71-96.	3.9	66
30	Alkali exchange equilibria between a silicate melt and coexisting magmatic volatile phase: an experimental study at 800°C and 100 MPa. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 1415-1427.	3.9	62
31	The effect of crystal-melt partitioning on the budgets of Cu, Au, and Ag. <i>American Mineralogist</i> , 2008, 93, 1437-1448.	1.9	59
32	Eclogite-high-pressure granulite metamorphism records early collision in West Gondwana: new data from the Southern Brasília Belt, Brazil. <i>Journal of the Geological Society</i> , 2009, 166, 1013-1032.	2.1	59
33	<i>In situ</i> monazite (U-Th)-Pb ages from the Southern Brasília Belt, Brazil: constraints on the high-temperature retrograde evolution of HP granulites. <i>Journal of Metamorphic Geology</i> , 2012, 30, 81-112.	3.4	57
34	Patterns of migration in Hudson River striped bass as determined by otolith microchemistry. <i>Fisheries Research</i> , 2003, 63, 245-259.	1.7	54
35	Decoding polyphase migmatites using geochronology and phase equilibria modelling. <i>Journal of Metamorphic Geology</i> , 2015, 33, 203-230.	3.4	54
36	From Source to Sink: Petrogenesis of Cretaceous Anatectic Granites from the Fosdick Migmatite-Granite Complex, West Antarctica. <i>Journal of Petrology</i> , 2016, 57, 1241-1278.	2.8	53

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37	Fluid generation and evolution during exhumation of deeply subducted UHP continental crust: Petrogenesis of composite granite-quartz veins in the Sulu belt, China. <i>Journal of Metamorphic Geology</i> , 2017, 35, 601-629.	3.4	53
38	Highly siderophile element systematics of the 3.3Ga Weltevreden komatiites, South Africa: Implications for early Earth history. <i>Earth and Planetary Science Letters</i> , 2011, 311, 253-263.	4.4	51
39	Magmatic Processes in the Development of Porphyry-Type Ore Systems. , 2005, , .		51
40	Chemical and chronologic complexity in the convecting upper mantle: Evidence from the Taitao ophiolite, southern Chile. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5793-5819.	3.9	48
41	Fractionation of the platinum-group elements and Re during crystallization of basalt in Kilauea Iki Lava Lake, Hawaii. <i>Chemical Geology</i> , 2009, 260, 196-210.	3.3	47
42	The partitioning of Cu, Au and Mo between liquid and vapor at magmatic temperatures and its implications for the genesis of magmatic-hydrothermal ore deposits. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 207, 81-101.	3.9	47
43	An experimental study of the partitioning of copper between pyrrhotite and a high silica rhyolitic melt. <i>Economic Geology</i> , 1993, 88, 901-915.	3.8	46
44	The partitioning behavior of silver in a vapor-brine-rhyolite melt assemblage. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 1638-1659.	3.9	42
45	Estimation of aqueous HCl and Cl concentrations in felsic systems. <i>Lithos</i> , 1999, 46, 591-604.	1.4	39
46	P-T evolution of pelitic gneiss from the basement underlying the Northwestern Ordos Basin, North China Craton, and the tectonic implications. <i>Precambrian Research</i> , 2016, 276, 67-84.	2.7	39
47	Reaction rind formation in the Catalina Schist: Deciphering a history of mechanical mixing and metasomatic alteration. <i>Chemical Geology</i> , 2014, 384, 47-61.	3.3	37
48	Challenges in constraining the P-T conditions of mafic granulites: An example from the northern Trans-North China Orogen. <i>Journal of Metamorphic Geology</i> , 2018, 36, 739-768.	3.4	36
49	Experimental determination of Au solubility in rhyolite melt and magnetite: Constraints on magmatic Au budgets. <i>American Mineralogist</i> , 2003, 88, 1644-1651.	1.9	35
50	A range of subduction temperatures: Evidence from Zr-in-rutile thermometry for strengthening of the subduction interface. <i>Earth and Planetary Science Letters</i> , 2018, 482, 525-535.	4.4	34
51	Up-estuary dispersal of young-of-the-year bay anchovy <i>Anchoa mitchilli</i> in the Chesapeake Bay: inferences from microprobe analysis of strontium in otoliths. <i>Marine Ecology - Progress Series</i> , 2000, 208, 217-227.	1.9	32
52	Phase Equilibrium Modeling of UHP Eclogite: a Case Study of Coesite Eclogite at Yangkou Bay, Sulu Belt, Eastern China. <i>Journal of Petrology</i> , 2018, 59, 1253-1280.	2.8	28
53	Elemental fingerprinting of Kenya Rift Valley ochre deposits for provenance studies of rock art and archaeological pigments. <i>Quaternary International</i> , 2017, 430, 42-59.	1.5	27
54	Rapid analysis of trinitite with nuclear forensic applications for post-detonation material analyses. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 302, 57-67.	1.5	25

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55	Copper partitioning between felsic melt and H ₂ O-CO ₂ bearing saline fluids. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 148, 81-99.	3.9	25
56	K-feldspar-muscovite-andalusite-quartz-brine phase equilibria: an experimental study at 25 to 60 MPa and 400 to 550°C. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 3717-3727.	3.9	24
57	AN EVALUATION OF THE EFFECT OF COPPER ON THE ESTIMATION OF SULFUR FUGACITY (f _{S2}) FROM PYRRHOTITE COMPOSITION. <i>Economic Geology</i> , 2010, 105, 1163-1169.	3.8	24
58	An evaluation of synthetic fluid inclusions for the purpose of trapping equilibrated, coexisting, immiscible fluid phases at magmatic conditions. <i>American Mineralogist</i> , 2007, 92, 124-138.	1.9	23
59	Partial melting of ultrahigh-pressure eclogite by omphacite-breakdown facilitates exhumation of deeply-subducted crust. <i>Earth and Planetary Science Letters</i> , 2021, 554, 116664.	4.4	20
60	Synthesis and crystal chemistry of microporous titanates K (Ti,M) ₈ O ₁₆ where M=Sc-Ni. <i>Journal of Solid State Chemistry</i> , 2014, 220, 45-53.	2.9	18
61	Partial migration in introduced wild chinook salmon (<i>Oncorhynchus tshawytscha</i>) of southern Chile. <i>Estuarine, Coastal and Shelf Science</i> , 2014, 149, 87-95.	2.1	18
62	In Situ Determination of First-Row Transition Metal, Ga and Ge Abundances in Geological Materials via Medium-Resolution LA-ICP-MS. <i>Geostandards and Geoanalytical Research</i> , 2011, 35, 253-273.	3.1	17
63	Photoluminescence of Visible and NIR-Emitting Lanthanide-Doped Bismuth-Organic Materials. <i>Chemistry - A European Journal</i> , 2018, 24, 5630-5636.	3.3	16
64	Assessing $\delta^{18}O$ variability in mafic gabbro blocks from the Catalina Schist: Is there differential movement at the subduction interface?. <i>Journal of Metamorphic Geology</i> , 2021, 39, 271-295.	3.4	15
65	Four-dimensional thermal evolution of the East African Orogen: accessory phase petrochronology of crustal profiles through the Tanzanian Craton and Mozambique Belt, northeastern Tanzania. <i>Contributions To Mineralogy and Petrology</i> , 2020, 175, 1.	3.1	14
66	Partitioning of indium between ferromagnesian minerals and a silicate melt. <i>Chemical Geology</i> , 2018, 500, 30-45.	3.3	13
67	Carryover effects of early growth and river flow on partial migration in striped bass <i>Morone saxatilis</i> . <i>Marine Ecology - Progress Series</i> , 2015, 541, 179-194.	1.9	13
68	Periodicity of strontium: Calcium across annuli further validates otolith-ageing for Atlantic bluefin tuna (<i>Thunnus thynnus</i>). <i>Fisheries Research</i> , 2016, 177, 13-17.	1.7	12
69	Contrasting CW and CCW tectono-metamorphic belts in the eastern Himalayan syntaxis: quantification of $\delta^{18}O$ paths and tectonic interpretation. <i>Gondwana Research</i> , 2020, 79, 1-26.	6.0	12
70	Characterization of biotite and amphibole compositions in granites. <i>Contributions To Mineralogy and Petrology</i> , 2022, 177, 1.	3.1	12
71	Evidence for oxidation at the base of the nakhlite pile by reduction of sulfate salts at the time of lava emplacement. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 239, 186-197.	3.9	11
72	Evolution of structure and superconductivity in $Ba_{1-x}Bi_xFe_2As_4$. <i>Physical Review B</i> , 2018, 97, .		

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73	40Ar/39Ar thermochronology of high-pressure granulite nappes in the southern Brasilia Belt, Brazil: Implications for Nappe Exhumation. <i>Numerische Mathematik</i> , 2010, 310, 1294-1332.	1.4	8
74	Ecological carryover effects associated with partial migration in white perch (<i>Morone americana</i>) within the Hudson River Estuary. <i>Estuarine, Coastal and Shelf Science</i> , 2018, 200, 277-288.	2.1	8
75	Constraints on the Formation of Granite-Related Indium Deposits. <i>Economic Geology</i> , 2019, 114, 993-1003.	3.8	7
76	Molybdenum contents of sulfides in ancient glacial diamictites: Implications for molybdenum delivery to the oceans prior to the Great Oxidation Event. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 278, 30-50.	3.9	7
77	A Novel Approach to Identifying Mantle-Equilibrated Zircon by Using Trace Element Chemistry. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009230.	2.5	5
78	Meter-Scale Chemical and Isotopic Heterogeneities in the Oceanic Mantle, Leka Ophiolite Complex, Norway. <i>Journal of Petrology</i> , 2021, 62, .	2.8	5
79	Fast Li-Ion Conduction in Spinel-Structured Solids. <i>Molecules</i> , 2021, 26, 2625.	3.8	4
80	Interpreting magmatic processes from accessory phases: titanite—a small-scale recorder of large-scale processes. , 2000, , .		0
81	Origin and age of metal veins in Canyon Diablo graphite nodules. <i>Meteoritics and Planetary Science</i> , 2020, 55, 771-780.	1.6	0
82	Olivine + Quartz + Water $\hat{=}$ HCl At Mid-Crustal Conditions: Controls On the Growth of Fibrous Talc As Determined From Hydrothermal Diamond Anvil Cell EXPERIMENTS. <i>Canadian Mineralogist</i> , 2017, 55, 101-113.	1.0	0