

Peter I Nabelek

List of Publications by Year in descending order

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46
papers

2,208
citations

218677

26
h-index

223800

46
g-index

48
all docs

48
docs citations

48
times ranked

1855
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature-dependent thermal diffusivity of the Earth's crust and implications for magmatism. <i>Nature</i> , 2009, 458, 319-321.	27.8	369
2	Iron, zinc, magnesium and uranium isotopic fractionation during continental crust differentiation: The tale from migmatites, granitoids, and pegmatites. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 97, 247-265.	3.9	203
3	The role of H ₂ O in rapid emplacement and crystallization of granite pegmatites: resolving the paradox of large crystals in highly undercooled melts. <i>Contributions To Mineralogy and Petrology</i> , 2010, 160, 313-325.	3.1	115
4	The influence of temperature-dependent thermal diffusivity on the conductive cooling rates of plutons and temperature-time paths in contact aureoles. <i>Earth and Planetary Science Letters</i> , 2012, 317-318, 157-164.	4.4	102
5	Strain heating as a mechanism for partial melting and ultrahigh temperature metamorphism in convergent orogens: Implications of temperature-dependent thermal diffusivity and rheology. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	100
6	REE-Depleted Leucogranites, Black Hills, South Dakota: a Consequence of Disequilibrium Melting of Monazite-Bearing Schists. <i>Journal of Petrology</i> , 1995, 36, 1055-1071.	2.8	82
7	Crustal melts below 400 °C. <i>Geology</i> , 2003, 31, 685.	4.4	81
8	Crystallization conditions and evolution of magmatic fluids in the Harney Peak Granite and associated pegmatites, Black Hills, South Dakota—Evidence from fluid inclusions. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 2443-2465.	3.9	75
9	Thermo-rheological, shear heating model for leucogranite generation, metamorphism, and deformation during the Proterozoic Trans-Hudson orogeny, Black Hills, South Dakota. <i>Tectonophysics</i> , 2001, 342, 371-388.	2.2	74
10	General equations for modeling fluid/rock interaction using trace elements and isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 1765-1769.	3.9	65
11	Implications of geochemical fronts in the Notch Peak contact-metamorphic aureole, Utah, USA. <i>Earth and Planetary Science Letters</i> , 1993, 119, 539-559.	4.4	58
12	Thermal diffusivity of rhyolitic glasses and melts: effects of temperature, crystals and dissolved water. <i>Bulletin of Volcanology</i> , 2012, 74, 2273-2287.	3.0	56
13	Leucogranites in the Black Hills of South Dakota: The consequence of shear heating during continental collision. <i>Geology</i> , 1999, 27, 523.	4.4	55
14	Lithium and its isotopes in tourmaline as indicators of the crystallization process in the San Diego County pegmatites, California, USA. <i>European Journal of Mineralogy</i> , 2008, 20, 905-916.	1.3	53
15	Petrologic and geochemical links between the post-collisional Proterozoic Harney Peak leucogranite, South Dakota, USA, and its source rocks. <i>Lithos</i> , 1998, 45, 71-85.	1.4	52
16	Clumped isotope thermometry of calcite and dolomite in a contact metamorphic environment. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 197, 323-344.	3.9	50
17	Nickel partitioning between olivine and liquid in natural basalts: Henry's Law behavior. <i>Earth and Planetary Science Letters</i> , 1980, 48, 293-302.	4.4	47
18	Fluid inclusions in the Harney Peak Granite, Black Hills, South Dakota, USA: Implications for solubility and evolution of magmatic volatiles and crystallization of leucogranite magmas. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 1447-1465.	3.9	41

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19	Thermal transport properties of major Archean rock types to high temperature and implications for cratonic geotherms. <i>Precambrian Research</i> , 2013, 233, 358-372.	2.7	40
20	Production of carbonic fluids during metamorphism of graphitic pelites in a collisional orogen—An assessment from fluid inclusions. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 4997-5015.	3.9	39
21	The significance of unusual zoning in olivines from FAMOUS area basalt 527-1-1. <i>Contributions To Mineralogy and Petrology</i> , 1986, 93, 1-8.	3.1	36
22	Lead isotopic evidence for mixed sources of Proterozoic granites and pegmatites, Black Hills, South Dakota, USA. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 4677-4685.	3.9	36
23	Thermal characteristics of the Main Himalaya Thrust and the Indian lower crust with implications for crustal rheology and partial melting in the Himalaya orogen. <i>Earth and Planetary Science Letters</i> , 2014, 395, 116-123.	4.4	34
24	Trace element distribution among rock-forming minerals in Black Hills migmatites, South Dakota; a case for solid-state equilibrium. <i>American Mineralogist</i> , 1999, 84, 1256-1269.	1.9	33
25	Stable Isotope Evidence for the Role of Diffusion, Infiltration, and Local Structure on Contact Metamorphism of Calc-Silicate Rocks at Noth Peak, Utah. <i>Journal of Petrology</i> , 1992, 33, 557-583.	2.8	31
26	Dawsonite: An inclusion mineral in quartz from the Tin Mountain pegmatite, Black Hills, South Dakota. <i>American Mineralogist</i> , 2003, 88, 1055-1059.	1.9	27
27	Fluid evolution and kinetics of metamorphic reactions in calc-silicate contact aureoles—From H ₂ O to CO ₂ and back. <i>Geology</i> , 2007, 35, 927.	4.4	27
28	Quartz-sillimanite leucosomes in high-grade schists, Black Hills, South Dakota: A perspective on the mobility of Al in high-grade metamorphic rocks. <i>Geology</i> , 1997, 25, 995.	4.4	26
29	Petrogenesis of leucogranites in collisional orogens. <i>Geological Society Special Publication</i> , 2020, 491, 179-207.	1.3	25
30	B and Li in Proterozoic metapelites from the Black Hills, U.S.A.: Implications for the origin of leucogranitic magmas. <i>American Mineralogist</i> , 2002, 87, 491-500.	1.9	24
31	Sulfide Immiscibility Induced by Wall-Rock Assimilation in a Fault-Guided Basaltic Feeder System, Franklin Large Igneous Province, Victoria Island (Arctic Canada). <i>Economic Geology</i> , 2015, 110, 1697-1717.	3.8	19
32	Fluid inclusion examination of the transition from magmatic to hydrothermal conditions in pegmatites from San Diego County, California. <i>American Mineralogist</i> , 2016, 101, 1906-1915.	1.9	16
33	Fluid-mediated polymetamorphism related to Proterozoic collision of Archean Wyoming and Superior provinces in the Black Hills, South Dakota. <i>American Mineralogist</i> , 2006, 91, 1473-1487.	1.9	15
34	Deep-seated Carbonatite Intrusion and Metasomatism in the UHP Tromsø, Nappe, Northern Scandinavian Caledonides—a Natural Example of Generation of Carbonatite from Carbonated Eclogite. <i>Journal of Petrology</i> , 2017, 58, 2403-2428.	2.8	15
35	Numerical modeling of fluid flow and oxygen isotope exchange in the Notch Peak contact-metamorphic aureole, Utah. <i>Bulletin of the Geological Society of America</i> , 2002, 114, 869-882.	3.3	14
36	Petrogenesis of Archean lamprophyres in the southern Vermilion Granitic Complex, northeastern Minnesota, with implications for the nature of their mantle source. <i>Contributions To Mineralogy and Petrology</i> , 1990, 104, 439-452.	3.1	13

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37	Petrogenesis of gabbro-norite at Yakobi and northwest Chichagof Islands, Alaska. <i>Bulletin of the Geological Society of America</i> , 1987, 98, 265.	3.3	12
38	Petrogenesis and tectonic implications of paleoproterozoic mafic rocks in the Black Hills, South Dakota. <i>Precambrian Research</i> , 2008, 167, 363-376.	2.7	12
39	The influences of incremental pluton growth on magma crystallinity and aureole rheology: numerical modeling of growth of the Papoose Flat pluton, California. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	3.1	12
40	Effects of fluids on the interaction of granites with limestones: The Notch Peak stock, Utah. <i>Contributions To Mineralogy and Petrology</i> , 1988, 99, 49-61.	3.1	6
41	Fertility of metapelites and metagraywackes during leucogranite generation: an example from the Black Hills, U.S.A.. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2000, 91, 1-14.	0.3	5
42	Fluid-controlled grain boundary migration and switch in slip systems in a high strain, high temperature contact aureole, California, USA. <i>Tectonophysics</i> , 2016, 676, 42-55.	2.2	4
43	Nickel partitioning between olivine and liquid in natural basalts Henry's law behavior—Reply to B.O. Mysen. <i>Earth and Planetary Science Letters</i> , 1981, 52, 225-226.	4.4	3
44	Formation of metasomatic tourmalinites in reduced schists during the Black Hills Orogeny, South Dakota. <i>American Mineralogist</i> , 2021, 106, 282-289.	1.9	3
45	Numerical Modeling of Dike Propagation Out of Continuously and Episodically Growing Midcrustal Magma Chambers. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB019021.	3.4	2
46	Two diamictites, two cap carbonates, two $\delta^{13}\text{C}$ excursions, two rifts: The Neoproterozoic Kingston Peak Formation, Death Valley, California: Comment and Reply. <i>Geology</i> , 2000, 28, 191-192.	4.4	1