

David Dolejs

List of Publications by Year in descending order

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47
papers

1,677
citations

218677

26
h-index

289244

40
g-index

49
all docs

49
docs citations

49
times ranked

1716
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental determination of the effect of H ₂ O on the 410-km seismic discontinuity. <i>Earth and Planetary Science Letters</i> , 2007, 256, 182-195.	4.4	104
2	Deciphering the petrogenesis of deeply buried granites: whole-rock geochemical constraints on the origin of largely undepleted felsic granulites from the Moldanubian Zone of the Bohemian Massif. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2004, 95, 141-159.	0.3	92
3	Thermodynamic modeling of non-ideal mineral–fluid equilibria in the system Si–Al–Fe–Mg–Ca–Na–K–H–O–Cl at elevated temperatures and pressures: Implications for hydrothermal mass transfer in granitic rocks. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 526-553.	3.9	75
4	Magmatic anhydrite and calcite in the ore-forming quartz-monzodiorite magma at Santa Rita, New Mexico (USA): genetic constraints on porphyry-Cu mineralization. <i>Lithos</i> , 2004, 72, 147-161.	1.4	71
5	Molybdenite Saturation in Silicic Magmas: Occurrence and Petrological Implications. <i>Journal of Petrology</i> , 2011, 52, 891-904.	2.8	68
6	Incipient eclogite facies metamorphism in the Moldanubian granulites revealed by mineral inclusions in garnet. <i>Lithos</i> , 2010, 114, 54-69.	1.4	66
7	Thermodynamic model for mineral solubility in aqueous fluids: theory, calibration and application to model fluid–flow systems. <i>Geofluids</i> , 2010, 10, 20-40.	0.7	65
8	Thermodynamic analysis of the system Na ₂ O–K ₂ O–CaO–Al ₂ O ₃ –SiO ₂ –H ₂ O–F ₂ O ¹ : Stability of fluorine-bearing minerals in felsic igneous suites. <i>Contributions To Mineralogy and Petrology</i> , 2004, 146, 762-778.	3.1	63
9	Liquidus Equilibria in the System K ₂ O–Na ₂ O–Al ₂ O ₃ –SiO ₂ –F ₂ O–H ₂ O to 100 MPa: II. Differentiation Paths of Fluorosilicic Magmas in Hydrous Systems. <i>Journal of Petrology</i> , 2007, 48, 807-828.	2.8	63
10	Partitioning of halogens between mantle minerals and aqueous fluids: implications for the fluid flow regime in subduction zones. <i>Contributions To Mineralogy and Petrology</i> , 2013, 165, 117-128.	3.1	62
11	Large scale melt synthesis in an open crucible of Na-fluorohectorite with superb charge homogeneity and particle size. <i>Applied Clay Science</i> , 2010, 48, 39-45.	5.2	58
12	Liquidus Equilibria in the System K ₂ O–Na ₂ O–Al ₂ O ₃ –SiO ₂ –F ₂ O–H ₂ O to 100 MPa: I. Silicate-Fluoride Liquid Immiscibility in Anhydrous Systems. <i>Journal of Petrology</i> , 2007, 48, 785-806.	2.8	56
13	Zircon solubility in aqueous fluids at high temperatures and pressures. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 119, 178-187.	3.9	56
14	Solubility of molybdenite (MoS ₂) in aqueous fluids at 600–800°C, 200MPa: A synthetic fluid inclusion study. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 77, 175-185.	3.9	52
15	A mineralogical model for density and elasticity of the Earth's mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, .	2.5	43
16	Partitioning of boron among melt, brine and vapor in the system haplogranite–H ₂ O–NaCl at 800 °C and 100 MPa. <i>Chemical Geology</i> , 2004, 210, 135-147.	3.3	42
17	Magnetic fabric and rheology of co-mingled magmas in the Nasavrky Plutonic Complex (E Bohemia): implications for intrusive strain regime and emplacement mechanism. <i>Tectonophysics</i> , 1999, 307, 93-111.	2.2	39
18	Garnet exsolution in pyroxene from clinopyroxenites in the Moldanubian zone: constraining the early pre-convergence history of ultramafic rocks in the Variscan orogen. <i>Journal of Metamorphic Geology</i> , 2009, 27, 655-671.	3.4	39

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19	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
20	Phase formation during liquid phase sintering of ZnO ceramics. <i>Ceramics International</i> , 2009, 35, 3313-3320.	4.8	35
21	Fluorite solubility in hydrous haplogranitic melts at 100 MPa. <i>Chemical Geology</i> , 2006, 225, 40-60.	3.3	33
22	Halogens in Silicic Magmas and Their Hydrothermal Systems. <i>Springer Geochemistry</i> , 2018, , 431-543.	0.1	33
23	Magmatic-hydrothermal transition of Mo-W-mineralized granite-pegmatite-greisen system recorded by trace elements in quartz: Krupka district, Eastern Krušné hory/Erzgebirge. <i>Chemical Geology</i> , 2019, 523, 179-202.	3.3	33
24	Iron-carbon interactions at high temperatures and pressures. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	32
25	Thermodynamics of Aqueous Species at High Temperatures and Pressures: Equations of State and Transport Theory. <i>Reviews in Mineralogy and Geochemistry</i> , 2013, 76, 35-79.	4.8	32
26	Garnet as a major carrier of the Y and REE in the granitic rocks: An example from the layered anorogenic granite in the Brno Batholith, Czech Republic. <i>American Mineralogist</i> , 2014, 99, 1922-1941.	1.9	27
27	MMA-EoS: A Computational Framework for Mineralogical Thermodynamics. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9881-9920.	3.4	24
28	Thermodynamic modeling of melts in the system Na ₂ O-NaAlO ₂ -SiO ₂ -F ₂ O [~] 1. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 5537-5556.	3.9	23
29	Heterogeneous nucleation as the predominant mode of crystallization in natural magmas: numerical model and implications for crystal-melt interaction. <i>Contributions To Mineralogy and Petrology</i> , 2015, 169, 1.	3.1	22
30	Calculation of Time-dependent Nucleation and Growth Rates from Quantitative Textural Data: Inversion of Crystal Size Distribution. <i>Journal of Petrology</i> , 2013, 54, 913-931.	2.8	20
31	Textural evidence of magma decompression, devolatilization and disequilibrium quenching: an example from the Western Krušné hory/Erzgebirge granite pluton. <i>Contributions To Mineralogy and Petrology</i> , 2007, 155, 93-109.	3.1	19
32	Solubility of molybdenite in hydrous granitic melts at 800°C, 100–200MPa. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 131, 393-401.	3.9	19
33	Late Variscan calc-alkaline lamprophyres in the Krupka ore district, Eastern Krušné hory/Erzgebirge: their relationship to Sn-W mineralization. <i>Journal of Geosciences (Czech Republic)</i> , 2014, , 41-68.	0.6	18
34	Solubility of gold in oxidized, sulfur-bearing fluids at 500–850°C and 200–230MPa: A synthetic fluid inclusion study. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 222, 655-670.	3.9	17
35	Deciphering the petrogenesis of deeply buried granites: whole-rock geochemical constraints on the origin of largely undepleted felsic granulites from the Moldanubian Zone of the Bohemian Massif. , 2004, , .		16
36	Phase transitions and volumetric properties of cryolite, Na ₃ AlF ₆ : Differential thermal analysis to 100 MPa. <i>American Mineralogist</i> , 2006, 91, 97-103.	1.9	16

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37	The composition and redox state of bridgmanite in the lower mantle as a function of oxygen fugacity. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 303, 110-136.	3.9	16
38	Kinetic model of nucleation and growth in silicate melts: Implications for igneous textures and their quantitative description. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 131, 164-183.	3.9	12
39	Origin of earthquake swarms in the western Bohemian Massif: Is the mantle CO ₂ degassing, followed by the Cheb Basin subsidence, an essential driving force?. <i>Tectonophysics</i> , 2016, 668-669, 42-51.	2.2	12
40	Melting phase relations in the systems Mg ₂ SiO ₄ -H ₂ O and MgSiO ₃ -H ₂ O and the formation of hydrous melts in the upper mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 204, 68-82.	3.9	12
41	Melt extraction from crystal mushes: Numerical model of texture evolution and calibration of crystallinity-ordering relationships. <i>Lithos</i> , 2015, 239, 19-32.	1.4	11
42	Thermal effects of variable material properties and metamorphic reactions in a three-component subducting slab. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 6823-6845.	3.4	10
43	Petrology and geochemistry of Variscan dykes from the Jáchymov (Joachimsthal) ore district, Czech Republic. <i>Journal of Geosciences (Czech Republic)</i> , 2012, , 65-104.	0.6	6
44	Multiple tectonic-magmatic Mo-enrichment events in Yuleken porphyry Cu-Mo deposit, NW China and its implications for the formation of giant porphyry Mo deposit. <i>Ore Geology Reviews</i> , 2021, 139, 104401.	2.7	6
45	Rb-Sr isotopic composition of granites in the Western Krušné hory/Erzgebirge pluton, Central Europe: record of variations in source lithologies, mafic magma input and postmagmatic hydrothermal events. <i>Mineralogy and Petrology</i> , 2016, 110, 601-622.	1.1	4
46	3. Thermodynamics of Aqueous Species at High Temperatures and Pressures: Equations of State and Transport Theory. , 2013, , 35-80.		2
47	Ions surprise in Earth's deep fluids. <i>Nature</i> , 2016, 539, 362-364.	27.8	2