

Frank S Spear

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

3,870
citations

236925

25
h-index

377865

34
g-index

34
all docs

34
docs citations

34
times ranked

1906
citing authors

#	ARTICLE	IF	CITATIONS
1	A petrogenetic grid for pelitic schists in the system SiO ₂ -Al ₂ O ₃ -FeO-MgO-K ₂ O-H ₂ O. Contributions To Mineralogy and Petrology, 1989, 101, 149-164.	3.1	528
2	Pâ€š - T paths from anatectic pelites. Contributions To Mineralogy and Petrology, 1999, 134, 17-32.	3.1	501
3	TitaniQ under pressure: the effect of pressure and temperature on the solubility of Ti in quartz. Contributions To Mineralogy and Petrology, 2010, 160, 743-759.	3.1	388
4	Quantitative P-T paths from zoned minerals: Theory and tectonic applications. Contributions To Mineralogy and Petrology, 1983, 83, 348-357.	3.1	336
5	Retrograde net transfer reaction insurance for pressure-temperature estimates. Geology, 2000, 28, 1127.	4.4	287
6	Petrology and Cooling Rates of the Valhalla Complex, British Columbia, Canada. Journal of Petrology, 1996, 37, 733-765.	2.8	228
7	Theoretical modeling of monazite growth in a low-Ca metapelite. Chemical Geology, 2010, 273, 111-119.	3.3	188
8	Monaziteâ€“allanite phase relations in metapelites. Chemical Geology, 2010, 279, 55-62.	3.3	172
9	Trace element zoning in garnet as a monitor of crustal melting. Geology, 1996, 24, 1099.	4.4	143
10	Contributions to precision and accuracy of monazite microprobe ages. American Mineralogist, 2005, 90, 547-577.	1.9	122
11	Limitations of chemical dating of monazite. Chemical Geology, 2009, 266, 218-230.	3.3	91
12	Overstepping the garnet isograd: a comparison of QuiG barometry and thermodynamic modeling. Contributions To Mineralogy and Petrology, 2014, 168, 1.	3.1	87
13	TitaniQ recrystallized: experimental confirmation of the original Ti-in-quartz calibrations. Contributions To Mineralogy and Petrology, 2015, 169, 1.	3.1	82
14	The implications of overstepping for metamorphic assemblage diagrams (MADs). Chemical Geology, 2017, 457, 38-46.	3.3	73
15	Experimental study of quartz inclusions in garnet at pressures up to 3.0âˆšPa: evaluating validity of the quartz-in-garnet inclusion elastic thermobarometer. Contributions To Mineralogy and Petrology, 2018, 173, 1.	3.1	68
16	Zr-in-rutile thermometry in blueschists from Sifnos, Greece. Contributions To Mineralogy and Petrology, 2006, 152, 375-385.	3.1	65
17	Geochronologic studies in central New England I: Evidence for pre-Acadian metamorphism in eastern Vermont. Geology, 1989, 17, 181.	4.4	60
18	Geochronologic studies in central New England II: Post-Acadian hinged and differential uplift. Geology, 1989, 17, 185.	4.4	59

#	ARTICLE	IF	CITATIONS
19	Reaction overstepping and re-evaluation of peak P-T conditions of the blueschist unit Sifnos, Greece: implications for the Cyclades subduction zone. <i>International Geology Review</i> , 2017, 59, 548-562.	2.1	49
20	Petrology of the regional sillimanite zone, west-central New Hampshire, U.S.A., with implications for the development of inverted isograds. <i>American Mineralogist</i> , 1995, 80, 361-376.	1.9	45
21	Determining the amount of overstepping required to nucleate garnet during Barrovian regional metamorphism, Connecticut Valley Synclinorium. <i>Journal of Metamorphic Geology</i> , 2018, 36, 79-94.	3.4	44
22	Ti diffusion in quartz inclusions: implications for metamorphic time scales. <i>Contributions To Mineralogy and Petrology</i> , 2012, 164, 977.	3.1	39
23	Garnet growth after overstepping. <i>Chemical Geology</i> , 2017, 466, 491-499.	3.3	35
24	Kinetic control of staurolite-Al ₂ SiO ₅ mineral assemblages: Implications for Barrovian and Buchan metamorphism. <i>Journal of Metamorphic Geology</i> , 2018, 36, 667-690.	3.4	31
25	<i>P-T</i> histories from quartz: A case study of the application of the TitanQ thermobarometer to progressive fabric development in metapelites. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3821-3843.	2.5	30
26	Implications of overstepping of garnet nucleation for geothermometry, geobarometry and P-T path calculations. <i>Chemical Geology</i> , 2019, 530, 119323.	3.3	24
27	Evaluation of the effective bulk composition (EBC) during growth of garnet. <i>Chemical Geology</i> , 2018, 491, 39-47.	3.3	19
28	Revaluation of equilibrium P-T paths from zoned garnet in light of quartz inclusion in garnet (QuiC) barometry. <i>Lithos</i> , 2020, 372-373, 105650.	1.4	14
29	Regional Quartz Inclusion Barometry and Comparison with Conventional Thermobarometry and Intersecting Isopleths from the Connecticut Valley Trough, Vermont and Massachusetts, USA. <i>Journal of Petrology</i> , 2020, 61, .	2.8	14
30	Deciphering late Devonian-early Carboniferous P-T path of mylonitized garnet-mica schists from Prins Karls Forland, Svalbard. <i>Journal of Metamorphic Geology</i> , 2020, 38, 471-493.	3.4	13
31	An experimentally calibrated thermobarometric solubility model for titanium in coesite (Titanic). <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	3.1	11
32	Pronounced and rapid exhumation of the Connecticut Valley Trough revealed through quartz in garnet Raman barometry and diffusion modelling of garnet dissolution-reprecipitation reactions. <i>Journal of Metamorphic Geology</i> , 2021, 39, 1045-1069.	3.4	10
33	MetPetDB: A database for metamorphic geochemistry. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, n/a-n/a.	2.5	8
34	Nucleation theory applied to the development of contrasting garnet crystal densities. <i>Contributions To Mineralogy and Petrology</i> , 2022, 177, 1.	3.1	6