

# Fred Gaidies

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

858  
citations

687220

13  
h-index

610775

24  
g-index

31  
all docs

31  
docs citations

31  
times ranked

576  
citing authors

#	ARTICLE	IF	CITATIONS
1	OUP accepted manuscript. Journal of Mammalogy, 2022, 103, 2-17.	0.6	1
2	Testing the equilibrium model: An example from the Caledonian Kalak Nappe Complex (Finnmark, Arctic) Tj ETQq0 0,0 rgBT /Qverlock 10	1.6	9
3	150 Myr of Episodic Metamorphism Recorded in the Yukon-Tanana Terrane, Northern Canadian Cordillera: Evidence from Monazite and Xenotime Petrochronology. Lithosphere, 2022, 2022, .	0.6	2
4	Disequilibrium Microstructures of Metamorphic Rocks. , 2021, , 389-396.		1
5	Major and trace element mapping of garnet: Unravelling the conditions, timing and rates of metamorphism of the Snowcap assemblage, west-central Yukon. Journal of Metamorphic Geology, 2021, 39, 133-164.	1.6	24
6	The interfacial energy penalty to crystal growth close to equilibrium. Geology, 2021, 49, 988-992.	2.0	10
7	Simultaneous operation of opposing reaction mechanisms: The influence of matrix heterogeneity on post-kinematic garnet crystallization in an inverted metamorphic sequence. Journal of Metamorphic Geology, 2020, 38, 743-769.	1.6	8
8	The significance of Mn-rich ilmenite and the determination of $T$ paths from zoned garnet in metasedimentary rocks from the western Cape Breton Highlands, Nova Scotia. Journal of Metamorphic Geology, 2019, 37, 1171-1192.	1.6	8
9	Conditions and timing of low-pressure-high-temperature metamorphism in the Montresor Belt, Rae Province, Nunavut. Canadian Journal of Earth Sciences, 2019, 56, 654-671.	0.6	5
10	Population-wide garnet growth zoning revealed by LA-ICP-MS mapping: implications for trace element equilibration and syn-kinematic deformation during crystallisation. Contributions To Mineralogy and Petrology, 2018, 173, 1.	1.2	36
11	Low-temperature thermochronology of Anticosti Island: A case study on the application of conodont (U-Th)/He thermochronology to carbonate basin analysis. Marine and Petroleum Geology, 2018, 96, 441-456.	1.5	10
12	The nature and evolution of the Main Central Thrust: Structural and geochronological constraints from the Sikkim Himalaya, NE India. Lithos, 2017, 282-283, 447-463.	0.6	27
13	Channel flow and localized fault bounded slice tectonics (LFBST): Insights from petrological, structural, geochronological and geospeedometric studies in the Sikkim Himalaya, NE India. Lithos, 2017, 282-283, 464-482.	0.6	16
14	Characterisation of a garnet population from the Sikkim Himalaya: insights into the rates and mechanisms of porphyroblast crystallisation. Contributions To Mineralogy and Petrology, 2017, 172, 1.	1.2	46
15	Nucleation in geological materials. , 2017, , 347-371.		7
16	Metamorphic mineral reactions: Porphyroblast, corona and symplectite growth. , 2017, , 469-540.		14
17	A review of thermal history and timescales of tectonometamorphic processes in Sikkim Himalaya (NE India) and implications for rates of metamorphic processes. Journal of Metamorphic Geology, 2016, 34, 785-803.	1.6	42
18	A statistical analysis of the distribution of cordierite and biotite in hornfels from the Bugaboo contact aureole: implications for the kinetics of porphyroblast crystallization. Journal of Metamorphic Geology, 2016, 34, 85-101.	1.6	8

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19	Quantitative analysis of fatigue cracks in laminated carbon fibre-reinforced polymer composites using micro-computed tomography. <i>Journal of Composite Materials</i> , 2016, 50, 2523-2540.	1.2	5
20	Constraining the conditions of Barrovian metamorphism in Sikkim, India: <i>P-T-t</i> paths of garnet crystallization in the Lesser Himalayan Belt. <i>Journal of Metamorphic Geology</i> , 2015, 33, 23-44.	1.6	67
21	Coupling thermodynamic modeling and high-resolution in situ LA-ICP-MS monazite geochronology: evidence for Barrovian metamorphism late in the Grenvillian history of southeastern Ontario. <i>Mineralogy and Petrology</i> , 2014, 108, 741-758.	0.4	10
22	Petrological consequences of variations in metamorphic reaction affinity. <i>Journal of Metamorphic Geology</i> , 2011, 29, 953-977.	1.6	108
23	Toward a quantitative model of metamorphic nucleation and growth. <i>Contributions To Mineralogy and Petrology</i> , 2011, 162, 975-993.	1.2	66
24	Conditions and processes during metamorphic and igneous petrogenesis. <i>Mineralogy and Petrology</i> , 2009, 97, 145-147.	0.4	0
25	THERIA_G: a software program to numerically model prograde garnet growth. <i>Contributions To Mineralogy and Petrology</i> , 2008, 155, 657-671.	1.2	86
26	Prograde garnet growth along complex <i>P-T-t</i> paths: results from numerical experiments on polyphase garnet from the WÄlz Complex (Austroalpine basement). <i>Contributions To Mineralogy and Petrology</i> , 2008, 155, 673-688.	1.2	56
27	Coupling forward modelling of garnet growth with monazite geochronology: an application to the Rappold Complex (Austroalpine crystalline basement). <i>Journal of Metamorphic Geology</i> , 2008, 26, 775-793.	1.6	36
28	Characterization of polymetamorphism in the Austroalpine basement east of the Tauern Window using garnet isopleth thermobarometry. <i>Journal of Metamorphic Geology</i> , 2006, 24, 451-475.	1.6	153