

Chris Yakymchuk

List of Publications by Year in descending order

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66
papers

2,026
citations

257450

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254184

43
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docs citations

66
times ranked

1437
citing authors

#	ARTICLE	IF	CITATIONS
1	Th/U ratios in metamorphic zircon. <i>Journal of Metamorphic Geology</i> , 2018, 36, 715-737.	3.4	267
2	Behaviour of zircon and monazite during crustal melting. <i>Journal of the Geological Society</i> , 2014, 171, 465-479.	2.1	225
3	Consequences of open-system melting in tectonics. <i>Journal of the Geological Society</i> , 2014, 171, 21-40.	2.1	114
4	Apatite: a U-Pb thermochronometer or geochronometer?. <i>Lithos</i> , 2018, 318-319, 143-157.	1.4	108
5	Phase Relations, Reaction Sequences and Petrochronology. <i>Reviews in Mineralogy and Geochemistry</i> , 2017, 83, 13-53.	4.8	85
6	Coupled role of deformation and metamorphism in the construction of inverted metamorphic sequences: an example from farâ€northwest Nepal. <i>Journal of Metamorphic Geology</i> , 2012, 30, 513-535.	3.4	81
7	Visualising data distributions with kernel density estimation and reduced chi-squared statistic. <i>Geoscience Frontiers</i> , 2017, 8, 1247-1252.	8.4	70
8	Behaviour of apatite during partial melting of metapelites and consequences for prograde suprasolidus monazite growth. <i>Lithos</i> , 2017, 274-275, 412-426.	1.4	61
9	Decoding polyphase migmatites using geochronology and phase equilibria modelling. <i>Journal of Metamorphic Geology</i> , 2015, 33, 203-230.	3.4	54
10	From Source to Sink: Petrogenesis of Cretaceous Anatectic Granites from the Fosdick Migmatiteâ€Granite Complex, West Antarctica. <i>Journal of Petrology</i> , 2016, 57, 1241-1278.	2.8	53
11	Building Mesoarchaeon crust upon Eoarchaeon roots: the Akia Terrane, West Greenland. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	3.1	53
12	Paleozoic evolution of western Marie Byrd Land, Antarctica. <i>Bulletin of the Geological Society of America</i> , 2015, 127, 1464-1484.	3.3	47
13	Garnet fractionation, progressive melt loss and bulk composition variations in anatectic metabasites: Complications for interpreting the geodynamic significance of TTGs. <i>Geoscience Frontiers</i> , 2020, 11, 745-763.	8.4	42
14	Leucosome distribution in migmatitic paragneisses and orthogneisses: A record of self-organized melt migration and entrapment in a heterogeneous partially-molten crust. <i>Tectonophysics</i> , 2013, 603, 136-154.	2.2	37
15	Anatexis of former arc magmatic rocks during oceanic subduction: A case study from the North Wulan gneiss complex. <i>Gondwana Research</i> , 2018, 61, 128-149.	6.0	37
16	Divergent behaviour of Th and U during anatexis: Implications for the thermal evolution of orogenic crust. <i>Journal of Metamorphic Geology</i> , 2019, 37, 899-916.	3.4	34
17	Titanite petrochronology linked to phase equilibrium modelling constrains tectono-thermal events in the Akia Terrane, West Greenland. <i>Chemical Geology</i> , 2020, 536, 119467.	3.3	33
18	Mesoarchean exhumation of the Akia terrane and a common Neoproterozoic tectonothermal history for West Greenland. <i>Precambrian Research</i> , 2018, 314, 129-144.	2.7	32

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19	Himalayan hinterland-verging superstructure folds related to foreland-directed infrastructure ductile flow: Insights from centrifuge analogue modelling. <i>Journal of Structural Geology</i> , 2011, 33, 329-342.	2.3	31
20	Anatectic reworking and differentiation of continental crust along the active margin of Gondwana: a zircon Hf ¹⁸⁰ O perspective from West Antarctica. <i>Geological Society Special Publication</i> , 2013, 383, 169-210.	1.3	31
21	On Granites. <i>Journal of the Geological Society of India</i> , 2019, 94, 9-22.	1.1	30
22	Mesoarchean partial melting of mafic crust and tonalite production during high-T ¹⁸⁰ low-P stagnant tectonism, Akia Terrane, West Greenland. <i>Precambrian Research</i> , 2020, 339, 105615.	2.7	30
23	Corundum formation by metasomatic reactions in Archean metapelite, SW Greenland: Exploration vectors for ruby deposits within high-grade greenstone belts. <i>Geoscience Frontiers</i> , 2018, 9, 727-749.	8.4	28
24	A paired metamorphic belt in a subduction ¹⁸⁰ collision orogen: An example from the South Qilian ¹⁸⁰ North Qaidam orogenic belt, NW China. <i>Journal of Metamorphic Geology</i> , 2019, 37, 479-508.	3.4	26
25	Accessory Mineral Eu Anomalies in Suprasolidus Rocks: Beyond Feldspar. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009052.	2.5	23
26	The Late Jurassic Zedong ophiolite: A remnant of subduction initiation within the Yarlung Zangbo Suture Zone (southern Tibet) and its tectonic implications. <i>Gondwana Research</i> , 2020, 78, 172-188.	6.0	22
27	North Atlantic Craton architecture revealed by kimberlite-hosted crustal zircons. <i>Earth and Planetary Science Letters</i> , 2020, 534, 116091.	4.4	22
28	Crustal melting and suprasolidus phase equilibria: From first principles to the state-of-the-art. <i>Earth-Science Reviews</i> , 2021, 221, 103778.	9.1	21
29	Renewed late Miocene (<8 Ma) hinterland ductile thrusting, western Nepal Himalaya. <i>Geology</i> , 2018, 46, 503-506.	4.4	20
30	Differentiating between Inherited and Autocrystic Zircon in Granitoids. <i>Journal of Petrology</i> , 2020, 61, .	2.8	20
31	Applying Phase Equilibria Modelling to Metamorphic and Geological Processes: Recent Developments and Future Potential. <i>Geoscience Canada</i> , 2017, 44, 27.	0.8	19
32	Contrasting accessory mineral behavior in minimum-temperature melts: Empirical constraints from the Himalayan metamorphic core. <i>Lithos</i> , 2018, 312-313, 57-71.	1.4	18
33	Early Paleozoic tectonic transition from oceanic to continental subduction in the North Qaidam tectonic belt: Constraints from geochronology and geochemistry of syncollisional magmatic rocks. <i>Gondwana Research</i> , 2021, 91, 58-80.	6.0	18
34	Theoretical versus empirical secular change in zircon composition. <i>Earth and Planetary Science Letters</i> , 2021, 554, 116660.	4.4	17
35	The Effects of Source Mixing and Fractional Crystallization on the Composition of Eocene Granites in the Himalayan Orogen. <i>Journal of Petrology</i> , 2021, 62, .	2.8	16
36	Embryos of TTGs in Gore Mountain garnet megacrysts from water-fluxed melting of the lower crust. <i>Earth and Planetary Science Letters</i> , 2021, 569, 117058.	4.4	15

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37	Petrochronology of oxidized granulites from southern Peru. <i>Journal of Metamorphic Geology</i> , 2019, 37, 839-862.	3.4	14
38	Geodynamic Implications of Synchronous Norite and TTG Formation in the 3ÅGa Maniitsoq Norite Belt, West Greenland. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	12
39	Fluid-present anatexis of Neoproterozoic tonalite and amphibolite in the Western Shandong Province. <i>Lithos</i> , 2019, 326-327, 110-124.	1.4	11
40	Origin of Graphite In the Southwestern Grenville Province. <i>Canadian Mineralogist</i> , 2017, 55, 1041-1055.	1.0	10
41	Geochemistry of phosphorus and the behavior of apatite during crustal anatexis: Insights from melt inclusions and nanogranitoids. <i>American Mineralogist</i> , 2019, 104, 1765-1780.	1.9	10
42	Centrifuge modelling of deformation of a multi-layered sequence over a ductile substrate: 1. Style and 4D geometry of active cover folds during layer-parallel shortening. <i>International Journal of Earth Sciences</i> , 2012, 101, 463-482.	1.8	9
43	Geochronology and sedimentology of the Huashan Group in the northern Yangtze Block: implications for the initial breakup of the South China. <i>International Journal of Earth Sciences</i> , 2020, 109, 2113-2131.	1.8	9
44	Regional zircon U-Pb geochronology for the Maniitsoq region, southwest Greenland. <i>Scientific Data</i> , 2021, 8, 139.	5.3	9
45	A refined study of Paleoproterozoic high-pressure granulite-facies metamorphism in the Kongling complex of northern Yangtze block. <i>Precambrian Research</i> , 2022, 378, 106741.	2.7	9
46	Spatio-temporal challenges in dating orogen-scale shear zones: The case of the Himalayan Main Central thrust. <i>Tectonophysics</i> , 2020, 774, 228246.	2.2	8
47	The Mesoarchaean Akia terrane, West Greenland, revisited: New insights based on spatial integration of geophysics, field observation, geochemistry and geochronology. <i>Precambrian Research</i> , 2021, 352, 105958.	2.7	8
48	Stirred not shaken; critical evaluation of a proposed Archean meteorite impact in West Greenland. <i>Earth and Planetary Science Letters</i> , 2021, 557, 116730.	4.4	8
49	2. Phase Relations, Reaction Sequences and Petrochronology. , 2017, , 13-54.		7
50	Geochemistry and Mineralogy of Basalts from the South Mid-Atlantic Ridge (18.0Å°â€“20.6Å°S): Evidence of a Heterogeneous Mantle Source. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 659.	2.0	6
51	Detrital zircon in the Huashan Group, northern Yangtze Block: Implications for the nature of Neoproterozoic sedimentary basins and Precambrian crustal evolution. <i>Geological Journal</i> , 2020, 55, 8211-8224.	1.3	6
52	Paleoproterozoic S-type granites in the Lengshui complex, South China: Implications for the tectonic evolution of the Yangtze Block. <i>International Geology Review</i> , 2021, 63, 1471-1489.	2.1	6
53	Corundum (ruby) growth during the final assembly of the Archean North Atlantic Craton, southern West Greenland. <i>Ore Geology Reviews</i> , 2021, 138, 104417.	2.7	6
54	Metasediment-derived melts in subduction zone magmas and their influence on crustal evolution. <i>Journal of Petrology</i> , 0, , .	2.8	5

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55	Partial Melting and Crustal Deformation during the Early Paleozoic Wuyiâ€“Yunkai Orogeny: Insights from Zircon U-Pb Geochronology and Structural Analysis of the Fuhuling Migmatites in the Yunkai Region, South China. <i>Minerals</i> (Basel, Switzerland), 2019, 9, 621.	2.0	4
56	Interpreting medieval mobility from burials at the rockâ€“chewn church of St. Georges, Gurat (France): Insights from strontium isotope analysis of bones and teeth. <i>International Journal of Osteoarchaeology</i> , 2019, 29, 574-583.	1.2	4
57	Migmatites. , 2021, , 492-501.		4
58	Long-lived anatexis in the exhumed middle crust of the Torngat Orogen: Constraints from phase equilibria modeling and garnet, zircon, and monazite geochronology. <i>Lithos</i> , 2021, 388-389, 106022.	1.4	4
59	The corundum conundrum: Constraining the compositions of fluids involved in ruby formation in metamorphic melanges of ultramafic and aluminous rocks. <i>Chemical Geology</i> , 2021, 571, 120180.	3.3	4
60	Apatite and biotite thermochronometers help explain an Arctic Caledonide inverted metamorphic gradient. <i>Chemical Geology</i> , 2021, 584, 120524.	3.3	4
61	Hydrochemical impact of a mantle plume recorded by petrology, geochemistry, and U Pb geochronology of a calcite vein within the Ottawa-Bonnechere graben, Ontario, Canada. <i>Chemical Geology</i> , 2021, 586, 120582.	3.3	4
62	Metamorphism of the Mougooderra Formation: Implications for Neoproterozoic tectonics in the western Youanmi Terrane, Yilgarn Craton. <i>Precambrian Research</i> , 2020, 350, 105862.	2.7	3
63	<i>P</i> - <i>T</i> - <i>t</i> path of the Boroujerd Complex, northâ€“west Sanandajâ€“Sirjan Zone, western Iran: Insights from phase equilibrium modelling and thermobarometry. <i>Geological Journal</i> , 2021, 56, 3396-3414.	1.3	1
64	Late Neoproterozoic terrane and Paleoproterozoic HTâ€“UHT metamorphism on southern Devon Island, Canadian Arctic. <i>Precambrian Research</i> , 2022, 377, 106718.	2.7	1
65	Petrogenesis and U-Pb zircon geochronology of migmatization during Neo-Tethyan Jurassic magmatic arc extension: The Boroujerd example, western Iran. <i>Lithos</i> , 2021, 398-399, 106278.	1.4	0
66	Exploring childhood mobility in Neolithic Southern France (Roquémisou) using incremental analyses of Sr isotope ratios in tooth enamel. <i>Journal of Archaeological Science: Reports</i> , 2022, 42, 103417.	0.5	0