

Christian Tegner

List of Publications by Year in descending order

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95
papers

3,671
citations

126708

33
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138251

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104
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104
docs citations

104
times ranked

2362
citing authors

#	ARTICLE	IF	CITATIONS
1	Timing and duration of volcanism in the North Atlantic Igneous Province: Implications for geodynamics and links to the Iceland hotspot. <i>Chemical Geology</i> , 2007, 241, 264-281.	1.4	188
2	Immiscible iron- and silica-rich melts in basalt petrogenesis documented in the Skaergaard intrusion. <i>Geology</i> , 2005, 33, 885.	2.0	171
3	⁴⁰ Ar/ ³⁹ Ar geochronology of Tertiary mafic intrusions along the East Greenland rifted margin: Relation to flood basalts and the Iceland hotspot track. <i>Earth and Planetary Science Letters</i> , 1998, 156, 75-88.	1.8	159
4	Cyclicity in the Main and Upper Zones of the Bushveld Complex, South Africa: Crystallization from a Zoned Magma Sheet. <i>Journal of Petrology</i> , 2006, 47, 2257-2279.	1.1	152
5	Differentiation and Compaction in the Skaergaard Intrusion. <i>Journal of Petrology</i> , 2009, 50, 813-840.	1.1	144
6	Silicate Liquid Immiscibility within the Crystal Mush: Late-stage Magmatic Microstructures in the Skaergaard Intrusion, East Greenland. <i>Journal of Petrology</i> , 2011, 52, 175-222.	1.1	132
7	Magmatism and Eureka deformation in the High Arctic Large Igneous Province: ⁴⁰ Ar/ ³⁹ Ar age of Kap Washington Group volcanics, North Greenland. <i>Earth and Planetary Science Letters</i> , 2011, 303, 203-214.	1.8	130
8	Evidence from the rare-earth-element record of mantle melting for cooling of the Tertiary Iceland plume. <i>Nature</i> , 1998, 395, 591-594.	13.7	118
9	Crystallization of the Skaergaard Intrusion from an Emulsion of Immiscible Iron- and Silica-rich Liquids: Evidence from Melt Inclusions in Plagioclase. <i>Journal of Petrology</i> , 2011, 52, 345-373.	1.1	95
10	The behaviour of platinum-group elements in basalts from the East Greenland rifted margin. <i>Contributions To Mineralogy and Petrology</i> , 2002, 143, 133-153.	1.2	90
11	A Textural Record of Solidification and Cooling in the Skaergaard Intrusion, East Greenland. <i>Journal of Petrology</i> , 2007, 48, 2359-2377.	1.1	80
12	Volcanic mercury and mutagenesis in land plants during the end-Triassic mass extinction. <i>Science Advances</i> , 2019, 5, eaaw4018.	4.7	79
13	Iron in plagioclase as a monitor of the differentiation of the Skaergaard intrusion. <i>Contributions To Mineralogy and Petrology</i> , 1997, 128, 45-51.	1.2	77
14	Mercury anomalies across the Palaeocene–Eocene Thermal Maximum. <i>Climate of the Past</i> , 2019, 15, 217-236.	1.3	76
15	The Skaergaard PGE and Gold Deposit: the Result of <i>in situ</i> Fractionation, Sulphide Saturation, and Magma Chamber-scale Precious Metal Redistribution by Immiscible Fe-rich Melt. <i>Journal of Petrology</i> , 2015, 56, 1643-1676.	1.1	73
16	Pressure conditions for the solidification of the Skaergaard intrusion: Eruption of East Greenland flood basalts in less than 300,000 years. <i>Lithos</i> , 2006, 92, 181-197.	0.6	72
17	The Central Atlantic Magmatic Province (CAMP) in Morocco. <i>Journal of Petrology</i> , 2019, 60, 945-996.	1.1	68
18	Textural Maturity of Cumulates: a Record of Chamber Filling, Liquidus Assemblage, Cooling Rate and Large-scale Convection in Mafic Layered Intrusions. <i>Journal of Petrology</i> , 2006, 48, 141-157.	1.1	67

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19	The Skaergaard liquid line of descent revisited. <i>Contributions To Mineralogy and Petrology</i> , 2009, 157, 735-747.	1.2	66
20	Partitioning of ferric and ferrous iron between plagioclase and silicate melt. <i>Contributions To Mineralogy and Petrology</i> , 2004, 147, 470-483.	1.2	61
21	A Mantle Plume Origin for the Scandinavian Dyke Complex: A "Piercing Point" for 615 Ma Plate Reconstruction of Baltica?. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 1075-1094.	1.0	61
22	Intraplutonic Quench Zones in the Kap Edvard Holm Layered Gabbro Complex, East Greenland. <i>Journal of Petrology</i> , 1993, 34, 681-710.	1.1	59
23	The ocean-continent transition in the mid-Norwegian margin: Insight from seismic data and an onshore Caledonian field analogue. <i>Geology</i> , 2015, 43, 1011-1014.	2.0	55
24	Intense and widespread seismicity during the end-Triassic mass extinction due to emplacement of a large igneous province. <i>Geology</i> , 2015, 43, 387-390.	2.0	52
25	⁴⁰ Ar- ³⁹ Ar ages of intrusions in East Greenland: Rift-to-drift transition over the Iceland hotspot. <i>Lithos</i> , 2008, 101, 480-500.	0.6	51
26	Eocene to Miocene igneous activity in NE Greenland: northward younging of magmatism along the East Greenland margin. <i>Journal of the Geological Society</i> , 2014, 171, 539-553.	0.9	50
27	Age of Tertiary volcanic rocks on the West Greenland continental margin: volcanic evolution and event correlation to other parts of the North Atlantic Igneous Province. <i>Geological Magazine</i> , 2016, 153, 487-511.	0.9	49
28	Tracing volcanic emissions from the Central Atlantic Magmatic Province in the sedimentary record. <i>Earth-Science Reviews</i> , 2021, 212, 103444.	4.0	46
29	Post-breakup basaltic magmatism along the East Greenland Tertiary rifted margin. <i>Earth and Planetary Science Letters</i> , 1998, 160, 845-862.	1.8	45
30	Assimilation of Crustal Xenoliths in a Basaltic Magma Chamber: Sr and Nd Isotopic Constraints from the Hasvik Layered Intrusion, Norway. <i>Journal of Petrology</i> , 1999, 40, 363-380.	1.1	44
31	Petrogenesis of Cogenetic Silica-Oversaturated and -Undersaturated Syenites by Periodic Recharge in a Crustally Contaminated Magma Chamber: the Kangerlussuaq Intrusion, East Greenland. <i>Journal of Petrology</i> , 2008, 49, 493-522.	1.1	44
32	Magma Chamber Processes in the Formation of the Low-sulphide Magmatic Au-PGE Mineralization of the Platinova Reef in the Skaergaard Intrusion, East Greenland. <i>Journal of Petrology</i> , 2015, 56, 2319-2340.	1.1	40
33	Iron in plagioclase in the Bushveld and Skaergaard intrusions: implications for iron contents in evolving basic magmas. <i>Contributions To Mineralogy and Petrology</i> , 2010, 159, 719-730.	1.2	37
34	Breakup volcanism and plate tectonics in the NW Atlantic. <i>Tectonophysics</i> , 2019, 760, 267-296.	0.9	37
35	Timing of Breakup and Thermal Evolution of a Pre-Caledonian Neoproterozoic Exhumed Magma-Rich Rifted Margin. <i>Tectonics</i> , 2019, 38, 1843-1862.	1.3	36
36	Toward an understanding of disequilibrium dihedral angles in mafic rocks. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	35

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37	Crustal assimilation in basalt and jotunite: Constraints from layered intrusions. <i>Lithos</i> , 2005, 83, 299-316.	0.6	34
38	Portrait of a giant deep-seated magmatic conduit system: The Seiland Igneous Province. <i>Lithos</i> , 2018, 296-299, 600-622.	0.6	34
39	Petrogenesis of syenites at a rifted continental margin: origin, contamination and interaction of alkaline mafic and felsic magmas in the Astrophyllite Bay Complex, East Greenland. <i>Contributions To Mineralogy and Petrology</i> , 2005, 149, 350-371.	1.2	33
40	Parental magma of the Skaergaard intrusion: constraints from melt inclusions in primitive troctolite blocks and FG-1 dykes. <i>Contributions To Mineralogy and Petrology</i> , 2010, 159, 61-79.	1.2	33
41	Crystallization sequence of the Upper Border Series of the Skaergaard Intrusion: revised subdivision and implications for chamber-scale magma homogeneity. <i>Contributions To Mineralogy and Petrology</i> , 2013, 165, 1155-1171.	1.2	33
42	Composition and age of tertiary sills and dykes, Jameson Land Basin, East Greenland: relation to regional flood volcanism. <i>Lithos</i> , 2000, 54, 207-233.	0.6	30
43	A fundamental dispute: A discussion of "On some fundamentals of igneous petrology" by Bruce D. Marsh, <i>Contributions to Mineralogy and Petrology</i> (2013) 166: 665-690. <i>Contributions To Mineralogy and Petrology</i> , 2015, 169, 1.	1.2	30
44	Two melting regimes during Paleogene flood basalt generation in East Greenland: combined REE and PGE modelling. <i>Contributions To Mineralogy and Petrology</i> , 2006, 151, 88-100.	1.2	29
45	Trapped intercumulus liquid in the Main Zone of the eastern Bushveld Complex, South Africa. <i>Contributions To Mineralogy and Petrology</i> , 2006, 151, 352-369.	1.2	28
46	Late Cretaceous-Palaeocene continental rifting in the High Arctic: U-Pb geochronology of the Kap Washington Group volcanic sequence, North Greenland. <i>Journal of the Geological Society</i> , 2011, 168, 1093-1106.	0.9	28
47	Textures in a poikilitic olivine gabbro cumulate: Evidence for supercooling. <i>Mineralogy and Petrology</i> , 1995, 54, 161-173.	0.4	25
48	The Earliest History of the Skaergaard Magma Chamber: a Textural and Geochemical Study of the Cambridge Drill Core. <i>Journal of Petrology</i> , 2015, 56, 1199-1227.	1.1	24
49	Mantle Dynamics of the Central Atlantic Magmatic Province (CAMP): Constraints from Platinum Group, Gold and Lithophile Elements in Flood Basalts of Morocco. <i>Journal of Petrology</i> , 2019, 60, 1621-1652.	1.1	23
50	Re-Os AND 40Ar/39Ar AGES OF PORPHYRY MOLYBDENUM DEPOSITS IN THE EAST GREENLAND VOLCANIC-RIFTED MARGIN. <i>Economic Geology</i> , 2004, 99, 1215-1222.	1.8	22
51	Rift magmatism on the Eurasia basin margin: U-Pb baddeleyite ages of alkaline dyke swarms in North Greenland. <i>Journal of the Geological Society</i> , 2015, 172, 721-726.	0.9	21
52	The Thickness of the Mushy Layer on the Floor of the Skaergaard Magma Chamber at Apatite Saturation. <i>Journal of Petrology</i> , 2017, 58, 909-932.	1.1	21
53	Temporal evolution of a long-lived syenitic centre: The Kangerlussuaq Alkaline Complex, East Greenland. <i>Lithos</i> , 2006, 92, 276-299.	0.6	20
54	Liquidus temperatures of the Skaergaard magma. <i>American Mineralogist</i> , 2009, 94, 1371-1376.	0.9	19

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55	Lateral variations in plagioclase compositions, Main Zone, Bushveld Complex, South Africa: Evidence for slow mixing of magmas in basinal structures. <i>Mineralogical Magazine</i> , 2016, 80, 213-225.	0.6	18
56	Strontium isotope systematics for plagioclase of the Skaergaard intrusion (East Greenland): A window to crustal assimilation, differentiation, and magma dynamics. <i>Geology</i> , 2019, 47, 313-316.	2.0	18
57	The mode of emplacement of Neogene flood basalts in Eastern Iceland: The plagioclase ultraphyric basalts in the Gr�javatn group. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 332, 26-50.	0.8	17
58	Sill and lava geochemistry of the mid-Norway and NE Greenland conjugate margins. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3666-3690.	1.0	16
59	LA-Q-ICP-MS apatite U/Pb geochronology using common Pb in plagioclase: Examples from layered mafic intrusions. <i>American Mineralogist</i> , 2017, 102, 571-579.	0.9	16
60	A late ultramafic suite in the Kap Edvard Holm layered gabbro complex, East Greenland. <i>Geological Magazine</i> , 1993, 130, 431-442.	0.9	15
61	Silicic magmatism associated with Late Cretaceous rifting in the Arctic Basin: petrogenesis of the Kap Kane sequence, the Kap Washington Group volcanics, North Greenland. <i>Lithos</i> , 2011, 125, 65-85.	0.6	14
62	High Arctic geopotential stress field and implications for geodynamic evolution. <i>Geological Society Special Publication</i> , 2018, 460, 441-465.	0.8	13
63	Platinum-group elements link the end-Triassic mass extinction and the Central Atlantic Magmatic Province. <i>Scientific Reports</i> , 2020, 10, 3482.	1.6	13
64	Further work on experimental plagioclase equilibria and the Skaergaard liquidus temperature. <i>American Mineralogist</i> , 2013, 98, 1360-1367.	0.9	12
65	Geochemical Systematics of High Arctic Large Igneous Province Continental Tholeiites from Canada: Evidence for Progressive Crustal Contamination in the Plumbing System. <i>Journal of Petrology</i> , 2021, 62, .	1.1	12
66	Picrite sills and crystal-melt reactions in the Honningsv�g Intrusive Suite, northern Norway. <i>Mineralogical Magazine</i> , 1996, 60, 53-66.	0.6	12
67	Magma chamber processes in central volcanic systems of Iceland: constraints from layered gabbro of the Austurhorn intrusive complex. <i>Contributions To Mineralogy and Petrology</i> , 2009, 158, 223-244.	1.2	11
68	Search for Magnetic Monopoles in Polar Volcanic Rocks. <i>Physical Review Letters</i> , 2013, 110, 121803.	2.9	11
69	The Skaergaard Intrusion of East Greenland: Paradigms, Problems and New Perspectives. <i>Elements</i> , 2017, 13, 391-396.	0.5	11
70	Crystallization from stratified magmas in the Honningsv�g Intrusive Suite, northern Norway: a reappraisal. <i>Mineralogical Magazine</i> , 1996, 60, 41-51.	0.6	10
71	Magnetic properties of Martian olivine basalts studied by terrestrial analogues. <i>Hyperfine Interactions</i> , 2006, 166, 561-566.	0.2	10
72	Petrology and Sr-Nd-Pb isotope geochemistry of Late Cretaceous continental rift ignimbrites, Kap Washington peninsula, North Greenland. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 219-220, 63-86.	0.8	10

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73	Magmatic emulsion texture formed by mixing during extrusion, Rauafell composite complex, Breiðdalur volcano, eastern Iceland. <i>Bulletin of Volcanology</i> , 2013, 75, 1.	1.1	10
74	Response to Comment by McBirney, Boudreau and Marsh. <i>Journal of Petrology</i> , 2009, 50, 97-102.	1.1	9
75	Multiple ways of producing intermediate and silicic rocks within Thingmáli and other Icelandic volcanoes. <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 471-490.	1.2	9
76	High Arctic Large Igneous Province Alkaline Rocks in Canada: Evidence for Multiple Mantle Components. <i>Journal of Petrology</i> , 2021, 62, .	1.1	9
77	Formation of hybrid cumulates: melatroctolites in Intrusion 4 of the Honningsvåg Intrusive Suite, northern Norway. <i>Lithos</i> , 2002, 61, 1-19.	0.6	7
78	Formation of low- $\delta^{18}O$ magmas of the Kangerlussuaq Intrusion by addition of water derived from dehydration of foundered basaltic roof rocks. <i>Contributions To Mineralogy and Petrology</i> , 2015, 169, 1.	1.2	6
79	Modeling incompatible trace-element abundances in plagioclase in the Skaergaard intrusion using the trapped liquid shift effect. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	1.2	6
80	Northeast Atlantic breakup volcanism and consequences for Paleogene climate change – MagellanPlus Workshop report. <i>Scientific Drilling</i> , 0, 26, 69-85.	1.0	6
81	Crystal Mush Growth and Collapse on a Steep Wall: The Marginal Border Series of the Skaergaard Intrusion, East Greenland. <i>Journal of Petrology</i> , 2022, 63, .	1.1	6
82	Vestiges of the Pre-Caledonian Passive Margin of Baltica in the Scandinavian Caledonides: Overview, Revisions and Control on the Structure of the Mountain Belt. <i>Geosciences (Switzerland)</i> , 2022, 12, 57.	1.0	6
83	Hysteresis parameters and magnetic anisotropy of silicate-hosted magnetite exsolutions. <i>Geophysical Journal International</i> , 2022, 229, 1695-1717.	1.0	6
84	Erratum to “Magmatism and Eureka deformation in the High Arctic Large Igneous Province: $^{40}Ar-^{39}Ar$ age of Kap Washington Group volcanics, North Greenland” [Earth Planet. Sci. Lett. 303 (2011), 203–214]. <i>Earth and Planetary Science Letters</i> , 2011, 311, 195-196.	1.8	4
85	Platinum-group mineralization at the margin of the Skaergaard intrusion, East Greenland. <i>Mineralium Deposita</i> , 2017, 52, 929-942.	1.7	3
86	Two expressions of the transition from mafic cumulates to granitoids in the Bushveld Complex, South Africa: Examples from the western and eastern limbs. <i>Lithos</i> , 2020, 372-373, 105671.	0.6	3
87	Sulphide melt and aqueous fluid saturation in the PGE-Au mineralisation of the Skaergaard intrusion: evidence from melt inclusions. <i>Contributions To Mineralogy and Petrology</i> , 2020, 175, 1.	1.2	3
88	Zircon U-Pb chronology and Hf isotopes of the Lebowa Granite Suite and petrogenesis of the Bushveld Complex, South Africa. <i>Contributions To Mineralogy and Petrology</i> , 2022, 177, 1.	1.2	3
89	Seismic Volcanostratigraphy: The Key to Resolving the Jan Mayen Microcontinent and Iceland Plateau Rift Evolution. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	1.0	3
90	New evidence for NE Atlantic pre-PETM volcanism. <i>Rendiconti Online Societa Geologica Italiana</i> , 0, 31, 99-100.	0.3	2

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91	The volatile and trace element composition of apatite in the Skaergaard intrusion, East Greenland. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	1.2	2
92	The 1845â€“46 and 1766â€“68 eruptions at Hekla volcano: new lava volume estimates, historical accounts and emplacement dynamics. <i>Jokull</i> , 2021, 70, 35-56.	0.2	1
93	A tribute to Charles Kent Brooks. <i>Lithos</i> , 2006, 92, vii-xi.	0.6	0
94	Correction to: Geochemical Systematics of High Arctic Large Igneous Province Continental Tholeiites from Canadaâ€“Evidence for Progressive Crustal Contamination in the Plumbing System. <i>Journal of Petrology</i> , 2022, 63, .	1.1	0
95	Correction to: High Arctic Large Igneous Province Alkaline Rocks in Canada: Evidence for Multiple Mantle Components. <i>Journal of Petrology</i> , 2022, 63, .	1.1	0