Torgeir B Andersen

List of Publications by Year
in descending order

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88	5,159	57752	88628
papers	citations	44 h-index	70 g-index

90	90	90	2364
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Subduction and eduction of continental crust: major mechanisms during continentâ€continent collision and orogenic extensional collapse, a model based on the south Norwegian Caledonides. Terra Nova, 1991, 3, 303-310.	2.1	364
2	Uplift of deep crust during orogenic extensional collapse: A model based on field studies in the Sognâ€Sunnfjord Region of western Norway. Tectonics, 1990, 9, 1097-1111.	2.8	252
3	Extensional tectonics in the Caledonides of southern Norway, an overview. Tectonophysics, 1998, 285, 333-351.	2.2	214
4	High-temperature deformation during continental-margin subduction & exhumation: The ultrahigh-pressure Western Gneiss Region of Norway. Tectonophysics, 2010, 480, 149-171.	2.2	211
5	Campaign-style titanite Uâ€“Pb dating by laser-ablation ICP: Implications for crustal flow, phase transformations and titanite closure. Chemical Geology, 2013, 341, 84-101.	3.3	205
6	Generation of intermediate-depth earthquakes byÂself-localizing thermal runaway. Nature Geoscience, 2009, 2, 137-140.	12.9	186
7	The Scandinavian Caledonides: main features, conceptual advances and critical questions. Geological Society Special Publication, 2014, 390, 9-43.	1.3	121
8	Orogenic uplift and collapse, crustal thickness, fabrics and metamorphic phase changes: the role of eclogites. Geological Society Special Publication, 1993, 76, 325-343.	1.3	117
9	The middle Devonian basins of western Norway: sedimentary response to large-scale transtensional tectonics?. Tectonophysics, 2001, 332, 51-68.	2.2	111
10	Softening trigerred by eclogitization, the first step toward exhumation during continental subduction. Earth and Planetary Science Letters, 2005, 237, 532-547.	4.4	105
11	Crustal-scale boudinage and migmatization of gneiss during their exhumation in the UHP Province of Western Norway. Terra Nova, 2002, 14, 263-270.	2.1	101
12	Evidence for hyperextension along the pre-Caledonian margin of Baltica. Journal of the Geological Society, 2012, 169, 601-612.	2.1	94
13	Fossil earthquakes recorded by pseudotachylytes in mantle peridotite from the Alpine subduction complex of Corsica. Earth and Planetary Science Letters, 2006, 242, 58-72.	4.4	93
14	Devonian, orogen-parallel, opposed extension in the Central Norwegian Caledonides. Geology, 2000, 28, 615.	4.4	89
15	Deep crustal fabrics and a model for the extensional collapse of the southwest Norwegian Caledonides. Journal of Structural Geology, 1994, 16, 1191-1203.	2.3	88
16	The Sunnfjord Melange, evidence of Silurian ophiolite accretion in the West Norwegian Caledonides. Journal of the Geological Society, 1990, 147, 59-68.	2.1	82
17	Palaeomagnetic dating of fault rocks: evidence for Permian and Mesozoic movements and brittle deformation along the extensional Dalsfjord Fault, western Norway. Geophysical Journal International, 1992, 109, 565-580.	2.4	80
18	Pseudotachylytes from Corsica: fossil earthquakes from a subduction complex. Terra Nova, 2004, 16, 193-197.	2.1	80

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19	Stress release in exhumed intermediate and deep earthquakes determined from ultramafic pseudotachylyte. Geology, 2008, 36, 995.	4.4	80
20	Absolute dating of brittle fault movements: Late Permian and late Jurassic extensional fault breccias in western Norway. Terra Nova, 1997, 9, 135-139.	2.1	72
21	Cold subduction and the formation of lawsonite eclogite â€“ constraints from prograde evolution of eclogitized pillow lava from Corsica. Journal of Metamorphic Geology, 2010, 28, 381-395.	3.4	72
22	Pre-Caledonian granulite and gabbro enclaves in the Western Gneiss Region, Norway: indications of incomplete transition at high pressure. Geological Magazine, 2000, 137, 235-255.	1.5	70
23	Prograde amphibolite facies to ultrahigh-pressure transition along Nordfjord, western Norway: Implications for exhumation tectonics. Tectonics, 2007, 26, n/a-n/a.	2.8	69
24	Exhumation of high-pressure rocks beneath the Solund Basin, Western Gneiss Region of Norway. Journal of Metamorphic Geology, 2003, 21, 613-629.	3.4	67
25	Structural, mineralogical and petrophysical effects on deep crustal rocks of fluidâ€limited polymetamorphism, Western Gneiss Region, Norway. Journal of the Geological Society, 2000, 157, 121-134.	2.1	64
26	Pyroxene megacrysts in Proterozoic anorthosites: Implications for tectonic setting, magma source and magmatic processes at the Moho. Earth and Planetary Science Letters, 2014, 389, 74-85.	4.4	64
27	The Taimyr fold belt, Arctic Siberia: timing of prefold remagnetisation and regional tectonics. Tectonophysics, 2002, 352, 335-348.	2.2	63
28	Uâ€“Pb ages of the Dalsfjord Complex, SW Norway, and their bearing on the correlation of allochthonous crystalline segments of the Scandinavian Caledonides. International Journal of Earth Sciences, 2002, 91, 955-963.	1.8	63
29	Early Silurian maficâ€“ultramafic and granitic plutonism in contemporaneous flysch, MagerÃ¸y, northern Norway: Uâ€“Pb ages and regional significance. Journal of the Geological Society, 2006, 163, 291-301.	2.1	63
30	The Proterozoic Hustad igneous complex: a low strain enclave with a key to the history of the Western Gneiss Region of Norway. Precambrian Research, 2003, 120, 149-175.	2.7	62
31	An alternative model for ultra-high pressure in the Svartberget Fe-Ti garnet-peridotite, Western Gneiss Region, Norway. European Journal of Mineralogy, 2010, 21, 1119-1133.	1.3	62
32	Permian and Mesozoic extensional faulting within the Caledonides of central south Norway. Journal of the Geological Society, 1999, 156, 1073-1080.	2.1	61
33	A Mantle Plume Origin for the Scandinavian Dyke Complex: A â€œPiercing Pointâ€•for 615ÂMa Plate Reconstruction of Baltica?. Geochemistry, Geophysics, Geosystems, 2019, 20, 1075-1094.	2.5	61
34	Morphological instabilities during rapid growth of metamorphic garnets. Physics and Chemistry of Minerals, 1992, 19, 176.	0.8	60
35	The tectonic significance of pre-Scandian 40Ar/39Ar phengite cooling ages in the Caledonides of western Norway. Journal of the Geological Society, 1998, 155, 297-309.	2.1	60
36	The Solundâ€“Stavfjord Ophiolite Complex and associated rocks, west Norwegian Caledonides: geology, geochemistry and tectonic environment. Geological Magazine, 1990, 127, 209-224.	1.5	58

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37	Thermomechanical modeling of slab eduction. Journal of Geophysical Research, 2012, 117, .	3.3	58
38	The ocean-continent transition in the mid-Norwegian margin: Insight from seismic data and an onshore Caledonian field analogue. Geology, 2015, 43, 1011-1014.	4.4	55
39	Caledonian compressional and late-orogenic extensional deformation in the Staveneset area, Sunnfjord, Western Norway. Journal of Structural Geology, 1994, 16, 1385-1401.	2.3	54
40	Early Carboniferous Unroofing in Western Norway: A Tale of Alkali Feldspar Thermochronology. Journal of Geology, 1999, 107, 353-374.	1.4	49
41	Kinematics of the HÃ¸ybakken detachment zone and the MÃ¸râ€“TrÃ¸ndelag Fault Complex, central Norway. Journal of the Geological Society, 2006, 163, 303-318.	2.1	49
42	CO2 sequestration and extreme Mg depletion in serpentinized peridotite clasts from the Devonian Solund basin, SW-Norway. Geochimica Et Cosmochimica Acta, 2010, 74, 6935-6964.	3.9	49
43	Initiation of crustal-scale thrusts triggered by metamorphic reactions at depth: Insights from a comparison between the Himalayas and Scandinavian Caledonides. Tectonics, 2010, 29, n/a-n/a.	2.8	47
44	The age and tectonic significance of dolerite dykes in western Norway. Journal of the Geological Society, 1997, 154, 961-973.	2.1	46
45	Monazite response to ultrahigh-pressure subduction from Uâ€“Pb dating by laser ablation split stream. Chemical Geology, 2015, 409, 28-41.	3.3	46
46	High Pressure Metamorphism Caused by Fluid Induced Weakening of Deep Continental Crust. Scientific Reports, 2018, 8, 17011.	3.3	44
47	Applications of inclusion behaviour models to a major shear zone system: The Nordfjord-Sogn Detachment Zone in western Norway. Journal of Structural Geology, 2007, 29, 1622-1631.	2.3	42
48	Stratigraphy, tectonostratigraphy and the accretion of outboard terranes in the Caledonides of Sunnhordland, W. Norway. Tectonophysics, 1994, 231, 71-84.	2.2	40
49	A review and reinterpretation of the architecture of the South and South-Central Scandinavian Caledonidesâ€”A magma-poor to magma-rich transition and the significance of the reactivation of rift inherited structures. Earth-Science Reviews, 2019, 192, 513-528.	9.1	39
50	Structural, petrological and chemical analysis of synâ€kinematic migmatites: insights from the Western Gneiss Region, Norway. Journal of Metamorphic Geology, 2014, 32, 647-673.	3.4	38
51	Reaction-induced embrittlement of the lower continental crust. Geology, 2019, 47, 235-238.	4.4	37
52	Crustal exhumation of the Western Gneiss Region UHP terrane, Norway: 40Ar/39Ar thermochronology and fault-slip analysis. Tectonophysics, 2013, 608, 1159-1179.	2.2	36
53	Timing of Breakup and Thermal Evolution of a Preâ€Caledonian Neoproterozoic Exhumed Magmaâ€Rich Rifted Margin. Tectonics, 2019, 38, 1843-1862.	2.8	36
54	Exhuming Norwegian ultrahighâ€pressure rocks: Overprinting extensional structures and the role of the Nordfjordâ€Sogn Detachment Zone. Tectonics, 2007, 26, .	2.8	35

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55	Age and significance of Grenvillian and Silurian orogenic events in the Finnmarkian Caledonides, northern NorwayThis article is one of a series of papers published in this Special Issue on the theme of Geochronology in honour of Tom Krogh.. Canadian Journal of Earth Sciences, 2011, 48, 419-440.	1.3	35
56	Clinopyroxeneâ€“rutile phyllonites from the East Tenda Shear Zone (Alpine Corsica, France): pressureâ€“temperatureâ€“time constraints to the Alpine reworking of Variscan Corsica. Journal of the Geological Society, 2012, 169, 723-732.	2.1	35
57	A weakening mechanism for intermediate-depth seismicity? Detailed petrographic and microtextural observations from blueschist facies pseudotachylytes, Cape Corse, Corsica. Tectonophysics, 2014, 610, 138-149.	2.2	35
58	Age and origin of thin discontinuous gneiss sheets in the distal domain of the magma-poor hyperextended pre-Caledonian margin of Baltica, southern Norway. Journal of the Geological Society, 2017, 174, 557-571.	2.1	35
59	Pressure-temperature-time deformation history of the exhumation of ultra-high pressure rocks in the Western Gneiss Region, Norway. , 2004, , .		33
60	Emplacement mechanisms of a dyke swarm across the brittle-ductile transition and the geodynamic implications for magma-rich margins. Earth and Planetary Science Letters, 2019, 518, 223-235.	4.4	28
61	Large subduction earthquakes along the fossil Moho in Alpine Corsica. Geology, 2014, 42, 395-398.	4.4	26
62	The role of extensional tectonics in the Caledonides of south Norway: Discussion. Journal of Structural Geology, 1993, 15, 1379-1380.	2.3	25
63	Structure and ⁴⁰ Ar/ ³⁹ Ar thermochronology of an ultrahigh-pressure transition in western Norway. Journal of the Geological Society, 2011, 168, 887-898.	2.1	25
64	Initiating intermediate-depth earthquakes: Insights from a HPâ€“LT ophiolite from Corsica. Lithos, 2014, 206-207, 127-146.	1.4	25
65	Architecture of the Middle Devonian Kvamshesten Group, western Norway: sedimentary response to deformation above a ramp-flat extensional fault. Geological Society Special Publication, 2000, 180, 503-535.	1.3	21
66	Eclogite-facies polyphase deformation of the DrÃ¸sdal eclogite, Western Gneiss Complex, Norway, and implications for exhumation. Tectonophysics, 2005, 398, 1-32.	2.2	21
67	Widening of Hydrous Shear Zones During Incipient Eclogitization of Metastable Dry and Rigid Lower Crustâ€”HolsnÃ¸y, Western Norway. Tectonics, 2021, 40, e2020TC006572.	2.8	21
68	Modification of the Seismic Properties of Subducting Continental Crust by Eclogitization and Deformation Processes. Journal of Geophysical Research: Solid Earth, 2019, 124, 9731-9754.	3.4	20
69	Shear heating in extensional detachments: Implications for the thermal history of the Devonian basins of W Norway. Tectonophysics, 2013, 608, 1073-1085.	2.2	19
70	Thermal structure of a major crustal shear zone, the basal thrust in the Scandinavian Caledonides. Earth and Planetary Science Letters, 2014, 385, 162-171.	4.4	19
71	The Interplay of Eclogitization and Deformation During Deep Burial of the Lower Continental Crustâ€”A Case Study From the Bergen Arcs (Western Norway). Tectonics, 2019, 38, 898-915.	2.8	19
72	Structural observations adjacent to a large-scale extensional detachment zone in the hinterland of the Norwegian Caledonides. Tectonophysics, 1994, 231, 123-137.	2.2	18

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73	Metamorphic core complexes and gneiss-cored culminations along the Mid-Norwegian margin: an overview and some current ideas. Norwegian Petroleum Society Special Publications, 2005, , 29-41.	0.1	15
74	Thermal structure of supra-detachment basins: a case study of the Devonian basins of western Norway. Journal of the Geological Society, 2012, 169, 427-434.	2.1	14
75	Geophysical investigation of the HonningsvÃ¥g igneous complex, Scandinavian Caledonides. Journal of the Geological Society, 1992, 149, 373-381.	2.1	13
76	Volcanic rocks in the Devonian Solund Basin, Western Norway: large landslides of Silurian (439â€‰Ma) rhyolites. Journal of the Geological Society, 2002, 159, 121-128.	2.1	13
77	Modeling thermal convection in supradetachment basins: example from western <scp>N</scp>orway. Geofluids, 2014, 14, 58-74.	0.7	12
78	The age and distribution of basement rocks in the Caledonide orogen of the N Atlantic. Geological Society Special Publication, 1988, 38, 63-74.	1.3	10
79	The Early Carboniferous MagerÃ¸y dykes, northern Norway: palaeomagnetism and palaeogeography. Geological Magazine, 2003, 140, 443-451.	1.5	10
80	Earthquakes in the Mantle? Insights From Rock Magnetism of Pseudotachylytes. Journal of Geophysical Research: Solid Earth, 2017, 122, 8769-8785.	3.4	10
81	P Wave Anisotropy Caused by Partial Eclogitization of Descending Crust Demonstrated by Modeling Effective Petrophysical Properties. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008906.	2.5	7
82	Debating the petrogenesis of Proterozoic anorthosites â€“ Reply to comments by Vander Auwera et al. on â€œPyroxene megacrysts in Proterozoic anorthosites: Implications for tectonic setting, magma source and magmatic processes at the Mohoâ€• Earth and Planetary Science Letters, 2014, 401, 381-383.	4.4	6
83	Oxygen and carbon isotope compositions of carbonates in a prominent lithologically mixed unit in the central South Norwegian Caledonides. International Journal of Earth Sciences, 2018, 107, 1445-1463.	1.8	6
84	Vestiges of the Pre-Caledonian Passive Margin of Baltica in the Scandinavian Caledonides: Overview, Revisions and Control on the Structure of the Mountain Belt. Geosciences (Switzerland), 2022, 12, 57.	2.2	6
85	Proterozoic magmatism in the southern Scandinavian Caledonides, with special reference to the occurrences in the Eikefjord Nappe. Gff, 2016, 138, 102-114.	1.2	5
86	Devonian, orogen-parallel, opposed extension in the Central Norwegian Caledonides. Geology, 2000, 28, 615-618.	4.4	4
87	Focal Mechanisms of Intraslab Earthquakes: Insights From Pseudotachylytes in Mantle Units. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021479.	3.4	3
88	An hyperextension assemblage, imbricated in Archean - Paleoproterozoic crust, at the bottom of the Kalak Nappe Complex in the northern Scandinavian Caledonides. Journal of the Geological Society, 0, , jgs2021-140.	2.1	0