

Haakon Fossen

List of Publications by Year in descending order

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123
papers

8,531
citations

28274

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126
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126
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4077
citing authors

#	ARTICLE	IF	CITATIONS
1	The Patos-Pernambuco shear system of NE Brazil: Partitioned intracontinental transcurrent deformation revealed by enhanced aeromagnetic data. <i>Journal of Structural Geology</i> , 2022, 158, 104573.	2.3	22
2	Relation between finite strain geometry and quartz petrofabrics in a folded conglomerate in the Norwegian Caledonides. <i>Journal of Structural Geology</i> , 2022, 160, 104604.	2.3	1
3	Disaggregation bands as an indicator for slow creep activity on blind faults. <i>Communications Earth & Environment</i> , 2022, 3, .	6.8	6
4	Strain migration during multiphase extension, Stord Basin, northern North Sea rift. <i>Basin Research</i> , 2021, 33, 1474-1496.	2.7	15
5	Comment to "Neoproterozoic magmatic arc systems of the central Ribeira belt, SE-Brazil, in the context of the West-Gondwana pre-collisional history: A review". <i>Journal of South American Earth Sciences</i> , 2021, 107, 103052.	1.4	6
6	From widespread faulting to localised rifting: Evidence from K _{Ar} fault gouge dates from the Norwegian North Sea rift shoulder. <i>Basin Research</i> , 2021, 33, 1934-1953.	2.7	16
7	Fold geometry and folding " a review. <i>Earth-Science Reviews</i> , 2021, 222, 103812.	9.1	28
8	Segmentation of the Caledonian orogenic infrastructure and exhumation of the Western Gneiss Region during transtensional collapse. <i>Journal of the Geological Society</i> , 2021, 178, .	2.1	13
9	The dilemma of asymmetric porphyroclast systems and sense of shear. <i>Journal of Structural Geology</i> , 2020, 130, 103893.	2.3	10
10	From Caledonian Collapse to North Sea Rift: The Extended History of a Metamorphic Core Complex. <i>Tectonics</i> , 2020, 39, e2020TC006178.	2.8	13
11	Quartz textural analysis from an anastomosing shear zone system: Implications for the tectonic evolution of the Ribeira belt, Brazil. <i>Journal of South American Earth Sciences</i> , 2020, 103, 102750.	1.4	7
12	Shear zone evolution during core complex exhumation " Implications for continental detachments. <i>Journal of Structural Geology</i> , 2020, 140, 104139.	2.3	12
13	Adamastor " an ocean that never existed?. <i>Earth-Science Reviews</i> , 2020, 205, 103201.	9.1	45
14	Seismic expression of shear zones: Insights from 2-D point-spread-function based convolution modelling. <i>Journal of Structural Geology</i> , 2020, 140, 104121.	2.3	15
15	A critical discussion of the subduction-collision model for the Neoproterozoic Araçuaia-West Congo orogen. <i>Precambrian Research</i> , 2020, 343, 105715.	2.7	36
16	Fault classification, fault growth and displacement. , 2020, , 119-147.		7
17	Deformation " Progressive or multiphase?. <i>Journal of Structural Geology</i> , 2019, 125, 82-99.	2.3	80
18	Zippered Shear Zone Model for Interacting Shear Zones in the Borborema Province, Brazil, as Constrained by U-Pb Dating. <i>Tectonics</i> , 2019, 38, 3959-3974.	2.8	12

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19	Deep Crustal Flow Within Postorogenic Metamorphic Core Complexes: Insights From the Southern Western Gneiss Region of Norway. <i>Tectonics</i> , 2019, 38, 4267-4289.	2.8	17
20	The Influence of Structural Inheritance and Multiphase Extension on Rift Development, the Northern North Sea. <i>Tectonics</i> , 2019, 38, 4099-4126.	2.8	76
21	3-D seismic images of an extensive igneous sill in the lower crust. <i>Geology</i> , 2019, 47, 729-733.	4.4	28
22	Structural architecture and composition of crystalline basement offshore west Norway. <i>Lithosphere</i> , 2019, 11, 273-293.	1.4	31
23	The evolution of quartz veins during the tectonometamorphic development of the Brusque Metamorphic Complex, Brazil. <i>Journal of South American Earth Sciences</i> , 2019, 93, 174-182.	1.4	5
24	Reviewing the puzzling intracontinental termination of the Araçuaí-West Congo orogenic belt and its implications for orogenic development. <i>Precambrian Research</i> , 2019, 322, 85-98.	2.7	36
25	Writing papers with an emphasis on structural geology and tectonics: advices and warnings. <i>Brazilian Journal of Geology</i> , 2019, 49, .	0.7	6
26	A review of deformation bands in reservoir sandstones: geometries, mechanisms and distribution. <i>Geological Society Special Publication</i> , 2018, 459, 9-33.	1.3	49
27	Structural and petrophysical effects of overthrusting on highly porous sandstones: the Aztec Sandstone in the Buffington window, SE Nevada, USA. <i>Geological Society Special Publication</i> , 2018, 459, 59-77.	1.3	5
28	Subseismic deformation in the Vaza-Barris Transfer Zone in the Cretaceous Recôncavo-Tucano-Jatobá rift system, NE Brazil. <i>Journal of Structural Geology</i> , 2018, 117, 81-95.	2.3	16
29	How Does the Orientation of a Preexisting Basement Weakness Influence Fault Development During Renewed Rifting? Insights From Three-Dimensional Discrete Element Modeling. <i>Tectonics</i> , 2018, 37, 2221-2242.	2.8	44
30	Temperature constraints on microfabric patterns in quartzofeldspathic mylonites, Ribeira belt (SE Brazil). <i>Tectonics</i> , 2018, 37, 2243-2262.	2.3	23
31	Geochronology of shear zones – A review. <i>Earth-Science Reviews</i> , 2018, 185, 665-683.	9.1	71
32	The Wilson Cycle and Effects of Tectonic Structural Inheritance on Rifted Passive Margin Formation. <i>Tectonics</i> , 2018, 37, 3085-3101.	2.8	24
33	Seismic facies analysis using machine learning. <i>Geophysics</i> , 2018, 83, O83-O95.	2.6	145
34	Connecting the Araçuaí and Ribeira belts (SE Brazil): Progressive transition from contractional to transpressive strain regime during the Brasiliano orogeny. <i>Journal of South American Earth Sciences</i> , 2018, 86, 127-139.	1.4	34
35	Sveconorwegian vs. Caledonian orogenesis in the eastern Ålgarden Complex, SW Norway – Geochronology, structural constraints and tectonic implications. <i>Precambrian Research</i> , 2018, 305, 1-18.	2.7	12
36	Post-Caledonian extension in the West Norway – northern North Sea region: the role of structural inheritance. <i>Geological Society Special Publication</i> , 2017, 439, 465-486.	1.3	51

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37	Shear zones – A review. <i>Earth-Science Reviews</i> , 2017, 171, 434-455.	9.1	277
38	Basement structure and its influence on the structural configuration of the northern North Sea rift. <i>Tectonics</i> , 2017, 36, 1151-1177.	2.8	91
39	Interaction between gravity-driven listric normal fault linkage and their hanging-wall rollover development: a case study from the western Niger Delta, Nigeria. <i>Geological Society Special Publication</i> , 2017, 439, 169-186.	1.3	8
40	Hot Versus Cold Orogenic Behavior: Comparing the Araçuaia West Congo and the Caledonian Orogens. <i>Tectonics</i> , 2017, 36, 2159-2178.	2.8	51
41	Influence of fault reactivation during multiphase rifting: The Oseberg area, northern North Sea rift. <i>Marine and Petroleum Geology</i> , 2017, 86, 1252-1272.	3.3	49
42	Correspondence: Challenges with dating weathering products to unravel ancient landscapes. <i>Nature Communications</i> , 2017, 8, 1502.	12.8	8
43	Influence of a pre-existing basement weakness on normal fault growth during oblique extension: Insights from discrete element modeling. <i>Journal of Structural Geology</i> , 2017, 105, 44-61.	2.3	50
44	Tectonic regime controls clustering of deformation bands in porous sandstone. <i>Geology</i> , 2016, 44, 423-426.	4.4	62
45	Reactivation of intrabasement structures during rifting: A case study from offshore southern Norway. <i>Journal of Structural Geology</i> , 2016, 91, 54-73.	2.3	137
46	Geochronology and geochemistry of zircon from the northern Western Gneiss Region: Insights into the Caledonian tectonic history of western Norway. <i>Lithos</i> , 2016, 246-247, 134-148.	1.4	15
47	Fault linkage and relay structures in extensional settings – A review. <i>Earth-Science Reviews</i> , 2016, 154, 14-28.	9.1	323
48	Mega-scale Moho relief and the structure of the lithosphere on the eastern flank of the Viking Graben, offshore southwestern Norway. <i>Tectonics</i> , 2015, 34, 803-819.	2.8	14
49	Fabric development during exhumation from ultrahigh-pressure in an eclogite-bearing shear zone, Western Gneiss Region, Norway. <i>Journal of Structural Geology</i> , 2015, 71, 58-70.	2.3	21
50	Factors controlling permeability of cataclastic deformation bands and faults in porous sandstone reservoirs. <i>Journal of Structural Geology</i> , 2015, 76, 1-21.	2.3	112
51	Contractional deformation of porous sandstone: Insights from the Aztec Sandstone, SE Nevada, USA. <i>Journal of Structural Geology</i> , 2015, 74, 172-184.	2.3	44
52	Fault Linkage Styles in Rifts: Observations From Northern North Sea Rift Basin. , 2015, , .		0
53	From orogen to passive margin: constraints from fission track and (U ²³⁸)/He analyses on Mesozoic uplift and fault reactivation in SW Norway. <i>Geological Society Special Publication</i> , 2014, 390, 679-702.	1.3	34
54	Progressive evolution of deformation band populations during Laramide fault-propagation folding: Navajo Sandstone, San Rafael monocline, Utah, U.S.A.. <i>Journal of Structural Geology</i> , 2014, 68, 66-81.	2.3	27

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55	Crustal stretching in the Scandinavian Caledonides as revealed by deep seismic data. <i>Geology</i> , 2014, 42, 791-794.	4.4	45
56	Shear-enhanced compaction bands formed at shallow burial conditions; implications for fluid flow (Provence, France). <i>Journal of Structural Geology</i> , 2013, 47, 3-15.	2.3	77
57	U–Pb dates and trace-element geochemistry of zircon from migmatite, Western Gneiss Region, Norway: Significance for history of partial melting in continental subduction. <i>Lithos</i> , 2013, 170-171, 35-53.	1.4	74
58	Transtensional folding. <i>Journal of Structural Geology</i> , 2013, 56, 89-102.	2.3	99
59	Growth of normal faults in multilayer sequences: A 3D seismic case study from the Egersund Basin, Norwegian North Sea. <i>Journal of Structural Geology</i> , 2013, 55, 1-20.	2.3	102
60	Deformation bands and their impact on fluid flow in sandstone reservoirs: the role of natural thickness variations. <i>Geofluids</i> , 2013, 13, 359-371.	0.7	38
61	Insight into petrophysical properties of deformed sandstone reservoirs. <i>AAPG Bulletin</i> , 2013, 97, 619-637.	1.5	67
62	Statistical tests of scaling relationships for geologic structures. <i>Journal of Structural Geology</i> , 2013, 48, 85-94.	2.3	55
63	Spatial distribution of deformation bands in damage zones of extensional faults in porous sandstones: Statistical analysis of field data. <i>Journal of Structural Geology</i> , 2013, 52, 148-162.	2.3	110
64	3D numerical modelling of graben interaction and linkage: a case study of the Canyonlands grabens, Utah. <i>Basin Research</i> , 2013, 25, 436-449.	2.7	11
65	Origin of contrasting Devonian supradetachment basin types in the Scandinavian Caledonides. <i>Geology</i> , 2012, 40, 571-574.	4.4	44
66	Simulating the effect of subseismic fault tails and process zones in a siliciclastic reservoir analogue: Implications for aquifer support and trap definition. <i>Marine and Petroleum Geology</i> , 2011, 28, 1648-1662.	3.3	75
67	Conditions and implications for compaction band formation in the Navajo Sandstone, Utah. <i>Journal of Structural Geology</i> , 2011, 33, 1477-1490.	2.3	128
68	Fault linkage and graben stepovers in the Canyonlands (Utah) and the North Sea Viking Graben, with implications for hydrocarbon migration and accumulation. <i>AAPG Bulletin</i> , 2010, 94, 597-613.	1.5	52
69	Deformation band populations in fault damage zone—impact on fluid flow. <i>Computational Geosciences</i> , 2010, 14, 231-248.	2.4	22
70	Extensional tectonics in the North Atlantic Caledonides: a regional view. <i>Geological Society Special Publication</i> , 2010, 335, 767-793.	1.3	115
71	Porosity and grain size controls on compaction band formation in Jurassic Navajo Sandstone. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	90
72	Deformation bands formed during soft-sediment deformation: Observations from SE Utah. <i>Marine and Petroleum Geology</i> , 2010, 27, 215-222.	3.3	85

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73	Spatial variation of microstructure and petrophysical properties along deformation bands in reservoir sandstones. AAPG Bulletin, 2009, 93, 919-938.	1.5	70
74	Fault facies and its application to sandstone reservoirs. AAPG Bulletin, 2009, 93, 891-917.	1.5	80
75	Overlapping faults and their effect on fluid flow in different reservoir types: A LIDAR-based outcrop modeling and flow simulation study. AAPG Bulletin, 2009, 93, 407-427.	1.5	57
76	Dynamic investigation of the effect of a relay ramp on simulated fluid flow: geocellular modelling of the Delicate Arch Ramp, Utah. Petroleum Geoscience, 2009, 15, 45-58.	1.5	73
77	Slipped deformation bands: A new type of cataclastic deformation bands in Western Sinai, Suez rift, Egypt. Journal of Structural Geology, 2008, 30, 1317-1331.	2.3	58
78	Dependence of displacement-length scaling relations for fractures and deformation bands on the volumetric changes across them. Journal of Structural Geology, 2008, 30, 1405-1411.	2.3	185
79	Application of spatial correlation functions in permeability estimation of deformation bands in porous rocks. Journal of Geophysical Research, 2008, 113, .	3.3	38
80	Terminology for structural discontinuities. AAPG Bulletin, 2008, 92, 853-867.	1.5	74
81	Internal geometry of fault damage zones in interbedded siliciclastic sediments. Geological Society Special Publication, 2008, 299, 35-56.	1.3	29
82	From the Early Paleozoic Platforms of Baltica and Laurentia to the Caledonide Orogen of Scandinavia and Greenland. Episodes, 2008, 31, 44-51.	1.2	251
83	Are relay ramps conduits for fluid flow? Structural analysis of a relay ramp in Arches National Park, Utah. Geological Society Special Publication, 2007, 270, 55-71.	1.3	50
84	Shear zones in porous sand: Insights from ring-shear experiments and naturally deformed sandstones. Tectonophysics, 2007, 437, 37-50.	2.2	56
85	Deformation bands in sandstone: a review. Journal of the Geological Society, 2007, 164, 755-769.	2.1	552
86	Deformation bands and their influence on fluid flow. AAPG Bulletin, 2007, 91, 1685-1700.	1.5	130
87	The Hardangerfjord Shear Zone in SW Norway and the North Sea: a large-scale low-angle shear zone in the Caledonian crust. Journal of the Geological Society, 2005, 162, 675-687.	2.1	53
88	The impact of syn-faulting porosity reduction on damage zone architecture in porous sandstone: an outcrop example from the Moab Fault, Utah. Journal of Structural Geology, 2005, 27, 1469-1485.	2.3	66
89	Fault interaction in porous sandstone and implications for reservoir management; examples from southern Utah. AAPG Bulletin, 2005, 89, 1593-1606.	1.5	57
90	From seismic data to core data: an integrated approach to enhance reservoir characterization. Geological Society Special Publication, 2003, 209, 39-54.	1.3	3

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91	Pull-apart formation and strike-slip partitioning in an obliquely divergent setting, Leka Ophiolite, Norway. <i>Tectonophysics</i> , 2002, 354, 101-119.	2.2	29
92	Layer rotation around vertical fault overlap zones: observations from seismic data, field examples, and physical experiments. <i>Marine and Petroleum Geology</i> , 2002, 19, 181-192.	3.3	77
93	Displacement-length scaling in three dimensions: the importance of aspect ratio and application to deformation bands. <i>Journal of Structural Geology</i> , 2002, 24, 1389-1411.	2.3	156
94	Mechanisms for folding of high-grade rocks in extensional tectonic settings. <i>Earth-Science Reviews</i> , 2002, 59, 163-210.	9.1	86
95	Structural core analysis from the Gullfaks area, northern North Sea. <i>Marine and Petroleum Geology</i> , 2001, 18, 411-439.	3.3	46
96	Use and abuse of seismic data in reservoir characterisation. <i>Marine and Petroleum Geology</i> , 2001, 18, 635-655.	3.3	26
97	Uncertainties associated with fault sealing analysis. <i>Petroleum Geoscience</i> , 2000, 6, 37-45.	1.5	56
98	Possible absence of small faults in the Gullfaks Field, northern North Sea: implications for downscaling of faults in some porous sandstones. <i>Journal of Structural Geology</i> , 2000, 22, 851-863.	2.3	105
99	Extensional tectonics in the Caledonides: Synorogenic or postorogenic?. <i>Tectonics</i> , 2000, 19, 213-224.	2.8	130
100	On the age and tectonic significance of Permo-Triassic dikes in the Bergen-Sunnhordland region, southwestern Norway. <i>Norwegian Journal of Geology</i> , 1999, 79, 169-178.	0.3	27
101	Three-dimensional reference deformations and strain facies. <i>Journal of Structural Geology</i> , 1999, 21, 1497-1512.	2.3	111
102	Evolution and geometries of gravitational collapse structures with examples from the Statfjord Field, northern North Sea. <i>Marine and Petroleum Geology</i> , 1999, 16, 259-281.	3.3	68
103	Timing and kinematics of Caledonian thrusting and extensional collapse, southern Norway: evidence from ⁴⁰ Ar/ ³⁹ Ar thermochronology. <i>Journal of Structural Geology</i> , 1998, 20, 765-781.	2.3	130
104	The use of dipmeter data to constrain the structural geology of the Gullfaks Field, northern North Sea. <i>Marine and Petroleum Geology</i> , 1998, 15, 549-573.	3.3	45
105	⁴⁰ Ar/ ³⁹ Ar muscovite dates from the nappe region of southwestern Norway: dating extensional deformation in the Scandinavian Caledonides. <i>Tectonophysics</i> , 1998, 285, 119-133.	2.2	32
106	Early Paleozoic orogenic collapse, tectonic stability, and late Paleozoic continental rifting revealed through thermochronology of K-feldspars, southern Norway. <i>Tectonics</i> , 1998, 17, 604-620.	2.8	61
107	Extended models of transpression and transtension, and application to tectonic settings. <i>Geological Society Special Publication</i> , 1998, 135, 15-33.	1.3	154
108	Structural geology of the Gullfaks Field, northern North Sea. <i>Geological Society Special Publication</i> , 1998, 127, 231-261.	1.3	33

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109	Seismic attribute analysis in structural interpretation of the Gullfaks Field, northern North Sea. <i>Petroleum Geoscience</i> , 1997, 3, 13-26.	1.5	51
110	Forward modeling of non-steady-state deformations and the "minimum strain path"™. <i>Journal of Structural Geology</i> , 1997, 19, 987-996.	2.3	74
111	Geometric analysis and scaling relations of deformation bands in porous sandstone. <i>Journal of Structural Geology</i> , 1997, 19, 1479-1493.	2.3	167
112	Experimental modeling of extensional fault systems by use of plaster. <i>Journal of Structural Geology</i> , 1996, 18, 673-687.	2.3	74
113	Properties of fault populations in the Gullfaks Field, northern North Sea. <i>Journal of Structural Geology</i> , 1996, 18, 179-190.	2.3	60
114	The limitations of three-dimensional kinematic vorticity analysis. <i>Journal of Structural Geology</i> , 1995, 17, 1771-1784.	2.3	187
115	The deformation matrix for simultaneous simple shearing, pure shearing and volume change, and its application to transpression-transension tectonics. <i>Journal of Structural Geology</i> , 1993, 15, 413-422.	2.3	424
116	Simultaneous pure and simple shear: the unifying deformation matrix. <i>Tectonophysics</i> , 1993, 217, 267-283.	2.2	199
117	Postcollisional extension of the Caledonide orogen in Scandinavia: Structural expressions and tectonic significance. <i>Geology</i> , 1992, 20, 737.	4.4	73
118	The interaction between oblique and layer-parallel shear in high-strain zones: Observations and experiments. <i>Tectonophysics</i> , 1992, 207, 331-343.	2.2	18
119	The role of extensional tectonics in the Caledonides of south Norway. <i>Journal of Structural Geology</i> , 1992, 14, 1033-1046.	2.3	160
120	Composite fabrics in mid-crustal gneisses: observations from the Åyngarden Complex, West Norway Caledonides. <i>Journal of Structural Geology</i> , 1992, 14, 1-9.	2.3	25
121	Shear zone structures in the Åyngarden area, West Norway. <i>Tectonophysics</i> , 1990, 174, 385-397.	2.2	56
122	Indication of transpressional tectonics in the Gullfaks oil-field, northern North Sea. <i>Marine and Petroleum Geology</i> , 1989, 6, 22-30.	3.3	38
123	Strain distribution in a fold in the West Norwegian Caledonides. <i>Journal of Structural Geology</i> , 1987, 9, 915-924.	2.3	40