

Frauke Klingelhoef

List of Publications by Year in descending order

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96
papers

2,954
citations

147566

31
h-index

189595

50
g-index

112
all docs

112
docs citations

112
times ranked

2616
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for active subduction beneath Gibraltar. <i>Geology</i> , 2002, 30, 1071.	2.0	423
2	Geological constraints on the evolution of the Angolan margin based on reflection and refraction seismic data (ZaÃ-ngo project). <i>Geophysical Journal International</i> , 2005, 162, 793-810.	1.0	170
3	The crustal structure of the NW Moroccan continental margin from wide-angle and reflection seismic data. <i>Geophysical Journal International</i> , 2004, 159, 117-128.	1.0	91
4	26th December 2004 great Sumatra-Andaman earthquake: Co-seismic and post-seismic motions in northern Sumatra. <i>Earth and Planetary Science Letters</i> , 2007, 263, 88-103.	1.8	86
5	Crustal structure of a super-slow spreading centre:a seismic refraction study of Mohns Ridge, 72Ã N. <i>Geophysical Journal International</i> , 2000, 141, 509-526.	1.0	81
6	Deep structure of the Santos Basin-Ão Paulo Plateau System, SE Brazil. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 5401-5431.	1.4	71
7	Impact of lower plate structure on upper plate deformation at the NW Sumatran convergent margin from seafloor morphology. <i>Earth and Planetary Science Letters</i> , 2008, 275, 201-210.	1.8	67
8	Multiphased tectonic evolution of the Central Algerian margin from combined wide-angle and reflection seismic data off Tipaza,ÃAlgeria. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 3899-3916.	1.4	61
9	Crustal structure of a young margin pair: New results across the Liguro-ÃProvencal Basin from wide-angle seismic tomography. <i>Earth and Planetary Science Letters</i> , 2009, 286, 333-345.	1.8	58
10	Crustal structure of the SW-Moroccan margin from wide-angle and reflection seismic data (the Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	0.9	57
11	Limits of the seismogenic zone in the epicentral region of the 26 December 2004 great Sumatra-ÃAndaman earthquake: Results from seismic refraction and wide-angle reflection surveys and thermal modeling. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	57
12	The crustal structure of the Central Mozambique continental margin - Wide-angle seismic, gravity and magnetic study in the Mozambique Channel, Eastern Africa. <i>Tectonophysics</i> , 2013, 599, 170-196.	0.9	55
13	Imaging a lithospheric detachment at the continent-Ãocean crustal transition off Morocco. <i>Earth and Planetary Science Letters</i> , 2006, 241, 686-698.	1.8	53
14	The 2010 Haiti earthquake: A complex fault pattern constrained by seismologic and tectonic observations. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	49
15	Crustal structure of the basin and ridge system west of New Caledonia (southwest Pacific) from wide-angle and reflection seismic data. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	48
16	Opening of the central Atlantic Ocean: Implications for geometric rifting and asymmetric initial seafloor spreading after continental breakup. <i>Tectonics</i> , 2017, 36, 1129-1150.	1.3	48
17	Crustal structure of the eastern Algerian continental margin and adjacent deep basin: implications for late Cenozoic geodynamic evolution of the western Mediterranean. <i>Geophysical Journal International</i> , 2015, 201, 1912-1938.	1.0	47
18	Tectonic history of northern New Caledonia Basin from deep offshore seismic reflection: Relation to late Eocene obduction in New Caledonia, southwest Pacific. <i>Tectonics</i> , 2008, 27, .	1.3	46

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19	Megathrust earthquakes can nucleate in the forearc mantle: Evidence from the 2004 Sumatra event. <i>Geology</i> , 2009, 37, 659-662.	2.0	45
20	Seismic evidence for plume-derived volcanism during formation of the continental margin in southern Davis Strait and northern Labrador Sea. <i>Geophysical Journal International</i> , 2009, 176, 980-994.	1.0	44
21	Structural evolution and strike-slip tectonics off north-western Sumatra. <i>Tectonophysics</i> , 2010, 480, 119-132.	0.9	44
22	Seismic imaging of forearc backthrusts at northern Sumatra subduction zone. <i>Geophysical Journal International</i> , 2009, 179, 1772-1780.	1.0	43
23	Crustal Structure of the Ionian Basin and Eastern Sicily Margin: Results From a Wide-Angle Seismic Survey. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 2090-2114.	1.4	41
24	Imaging proto-oceanic crust off the Brazilian Continental Margin. <i>Geophysical Journal International</i> , 2014, 200, 471-488.	1.0	40
25	MicrOBS: A new generation of ocean bottom seismometer. <i>First Break</i> , 2004, 22, .	0.2	40
26	Deep crustal structure across a young passive margin from wide-angle and reflection seismic data (The SARDINIA Experiment) - I. Gulf of Lion's margin. <i>Bulletin - Societe Geologique De France</i> , 2015, 186, 309-330.	0.9	39
27	Crustal structure of Ascension Island from wide-angle seismic data: implications for the formation of near-ridge volcanic islands. <i>Earth and Planetary Science Letters</i> , 2001, 190, 41-56.	1.8	37
28	Deep structure of the continental margin and basin off Greater Kabylia, Algeria - New insights from wide-angle seismic data modeling and multichannel seismic interpretation. <i>Tectonophysics</i> , 2018, 728-729, 1-22.	0.9	35
29	Arms winding around a meddy seen in seismic reflection data close to the Morocco coastline. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	34
30	Origin of the southern Okinawa Trough volcanism from detailed seismic tomography. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	32
31	Seismic imaging of the eastern Algerian margin off Jijel: integrating wide-angle seismic modelling and multichannel seismic pre-stack depth migration. <i>Geophysical Journal International</i> , 2014, 198, 1486-1503.	1.0	32
32	geophysical and geochemical constraints on crustal accretion at the very-slow spreading mohns ridge. <i>Geophysical Research Letters</i> , 2000, 27, 1547-1550.	1.5	31
33	Deep crustal structure across a young passive margin from wide-angle and reflection seismic data (The SARDINIA Experiment) - II. Sardinia's margin. <i>Bulletin - Societe Geologique De France</i> , 2015, 186, 331-351.	0.9	31
34	Geophysical evidence for a transform margin offshore Western Algeria: a witness of a subduction-transform edge propagator?. <i>Geophysical Journal International</i> , 2015, 200, 1029-1045.	1.0	31
35	Structure of the southernmost Okinawa Trough from reflection and wide-angle seismic data. <i>Tectonophysics</i> , 2009, 466, 281-288.	0.9	30
36	Thinned continental crust intruded by volcanics beneath the northern Bay of Bengal. <i>Marine and Petroleum Geology</i> , 2016, 77, 471-486.	1.5	30

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37	Crustal structure variations along the NW-African continental margin: A comparison of new and existing models from wide-angle and reflection seismic data. <i>Tectonophysics</i> , 2016, 674, 227-252.	0.9	30
38	Mesozoic and Early Cenozoic sediment influx and morphology of the Mozambique Basin. <i>Marine and Petroleum Geology</i> , 2015, 66, 890-905.	1.5	29
39	Transform Marginal Plateaus. <i>Earth-Science Reviews</i> , 2020, 203, 102940.	4.0	27
40	Genetic Relations Between the Aves Ridge and the Grenada Back-Arc Basin, East Caribbean Sea. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020466.	1.4	27
41	Geophysical characterization of bottom simulating reflectors in the Fairway Basin (off New) Tj ETQq1 1 0.784314 rgBT /Overlock 10 TTS <i>Geology</i> , 2009, 266, 80-90.	0.9	26
42	Dynamics of fault-fluid-hydrate system around a shale-cored anticline in deepwater Nigeria. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	26
43	Deep crustal structure of the Tuamotu plateau and Tahiti (French Polynesia) based on seismic refraction data. <i>Geophysical Research Letters</i> , 2002, 29, 1-1-1-4.	1.5	25
44	Deep crustal structure of the North-West African margin from combined wide-angle and reflection seismic data (MIRROR seismic survey). <i>Tectonophysics</i> , 2015, 656, 154-174.	0.9	25
45	The polyphased tectonic evolution of the Anegada Passage in the northern Lesser Antilles subduction zone. <i>Tectonics</i> , 2017, 36, 945-961.	1.3	25
46	Seismic structure of the northwestern margin of the South China Sea: implication for asymmetric continental extension. <i>Geophysical Journal International</i> , 2019, 218, 1246-1261.	1.0	25
47	P-wave velocity structure of the southern Ryukyu margin east of Taiwan: Results from the ACTS wide-angle seismic experiment. <i>Tectonophysics</i> , 2012, 578, 50-62.	0.9	21
48	Imaging exhumed lower continental crust in the distal Jequitinhonha basin, Brazil. <i>Journal of South American Earth Sciences</i> , 2018, 84, 351-372.	0.6	21
49	Constraints on the formation of submarine lava flows from numerical model calculations. <i>Journal of Volcanology and Geothermal Research</i> , 1999, 92, 215-229.	0.8	20
50	Crustal structure of the NW Moroccan margin from deep seismic data (SISMAR Cruise). <i>Comptes Rendus - Geoscience</i> , 2009, 341, 495-503.	0.4	19
51	Gas and seismicity within the Istanbul seismic gap. <i>Scientific Reports</i> , 2018, 8, 6819.	1.6	19
52	Ionian Abyssal Plain: a window into the Tethys oceanic lithosphere. <i>Solid Earth</i> , 2019, 10, 447-462.	1.2	19
53	Deep structure of the Demerara Plateau: From a volcanic margin to a Transform Marginal Plateau. <i>Tectonophysics</i> , 2021, 803, 228645.	0.9	19
54	Paleogene V-shaped Basins and Neogene Subsidence of the Northern Lesser Antilles Forearc. <i>Tectonics</i> , 2021, 40, e2020TC006524.	1.3	17

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55	3D active source tomography around Simeulue Island offshore Sumatra: Thick crustal zone responsible for earthquake segment boundary. <i>Geophysical Research Letters</i> , 2013, 40, 48-53.	1.5	15
56	Structure and evolution of the Atlantic passive margins: A review of existing rifting models from wide-angle seismic data and kinematic reconstruction. <i>Marine and Petroleum Geology</i> , 2021, 126, 104898.	1.5	15
57	Recent uplift of the Atlantic Atlas (offshore West Morocco): Tectonic arch and submarine terraces. <i>Tectonophysics</i> , 2017, 706-707, 46-58.	0.9	14
58	Lithospheric structuration onshore-offshore of the Sergipe-Alagoas passive margin, NE Brazil, based on wide-angle seismic data. <i>Journal of South American Earth Sciences</i> , 2018, 88, 649-672.	0.6	14
59	Seismic Imaging of an Intracrustal Deformation in the Northwestern Margin of the South China Sea: The Role of a Ductile Layer in the Crust. <i>Tectonics</i> , 2021, 40, e2020TC006260.	1.3	14
60	Origin of volcanism on the flanks of the Pacific-Antarctic ridge between 41°30'S and 52°S. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	13
61	An Alternative View of the Microseismicity along the Western Main Marmara Fault. <i>Bulletin of the Seismological Society of America</i> , 2018, 108, 2650-2674.	1.1	13
62	Nonseismic Signals in the Ocean: Indicators of Deep Sea and Seafloor Processes on Ocean Bottom Seismometer Data. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3882-3900.	1.0	13
63	Discovery of continental stretching and oceanic spreading in the Tasman Sea. <i>Eos</i> , 2005, 86, 101.	0.1	12
64	Structure and evolution of the Gulf of Lions: The Sardinia seismic experiment and the GOLD (Gulf of Lions) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.4	12
65	Spatial variations in the frequency-magnitude distribution of earthquakes in the southwestern Okinawa Trough. <i>Earth, Planets and Space</i> , 2007, 59, 221-225.	0.9	11
66	Microseismicity and faulting in the southwestern Okinawa Trough. <i>Tectonophysics</i> , 2009, 466, 268-280.	0.9	11
67	Influence of increasing convergence obliquity and shallow slab geometry onto tectonic deformation and seismogenic behavior along the Northern Lesser Antilles zone. <i>Earth and Planetary Science Letters</i> , 2018, 492, 59-72.	1.8	11
68	Thermal modeling of the SW Ryukyu forearc (Taiwan): Implications for the seismogenic zone and the age of the subducting Philippine Sea Plate (Huatung Basin). <i>Tectonophysics</i> , 2016, 692, 131-142.	0.9	10
69	The Bunce Fault and Strain Partitioning in the Northern Lesser Antilles. <i>Geophysical Research Letters</i> , 2019, 46, 9573-9582.	1.5	10
70	Deep Structure of the Grenada Basin From Wide-Angle Seismic, Bathymetric and Gravity Data. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020472.	1.4	10
71	New structural and geochemical observations from the Pacific-Antarctic Ridge between 52°45'S and 41°15'S. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	9
72	Spatial and temporal dynamics of gas-related processes in the Sea of Marmara monitored with ocean bottom seismometers. <i>Geophysical Journal International</i> , 2019, 216, 1989-2003.	1.0	9

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73	Backâ€Arc Dynamics Controlled by Slab Rollback and Tearing: A Reappraisal of Seafloor Spreading and Kinematic Evolution of the Eastern Algeroâ€Balearic Basin (Western Mediterranean) in the Middleâ€Late Miocene. <i>Tectonics</i> , 2022, 41, .	1.3	8
74	Using the OBS wide-angle reflection/refraction velocities to perform a pre-stack depth migration image of the â€single bubbleâ€multichannel seismic: example of the Moroccan margin. <i>Journal of Applied Geophysics</i> , 2005, 57, 107-118.	0.9	7
75	2-D and 3-D modelling of wide-angle seismic data: an example from the VÃring volcanic passive margin. <i>Marine Geophysical Researches</i> , 2006, 27, 181-199.	0.5	7
76	Ongoing Inversion of a Passive Margin: Spatial Variability of Strain Markers Along the Algerian Margin and Basin (Mediterranean Sea) and Seismotectonic Implications. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	7
77	Reply to the comment of Talwani etÂal. (2017) on the Sibuet etÂal. (2016) paper entitled â€Thinned continental crust intruded by volcanics beneath the northern Bay of Bengalâ€; <i>Marine and Petroleum Geology</i> , 2017, 88, 1126-1129.	1.5	6
78	Strike-Slip Faulting in the Calabrian Accretionary Wedge: Using Analog Modeling to Test the Kinematic Boundary Conditions of Geodynamic Models. , 2019, , 321-337.		6
79	Formation, segmentation and deep crustal structure variations along the Algerian margin from the SPIRAL seismic experiment. <i>Journal of African Earth Sciences</i> , 2022, 186, 104433.	0.9	6
80	Geometry of the Deep Calabrian Subduction (Central Mediterranean Sea) From Wideâ€Angle Seismic Data and 3â€ Gravity Modeling. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, .	1.0	5
81	Pervasive detachment faults within the slow spreading oceanic crust at the poorly coupled Antilles subduction zone. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	5
82	Fiber optic monitoring of active faults at the seafloor: I the FOCUS project. <i>Photoniques</i> , 2019, , 32-37.	0.0	5
83	Compared structure and evolution of the conjugate Demerara and Guinea transform marginal plateaus. <i>Tectonophysics</i> , 2021, , 229112.	0.9	5
84	Elongated Giant Seabed Polygons and Underlying Polygonal Faults as Indicators of the Creep Deformation of Pliocene to Recent Sediments in the Grenada Basin, Caribbean Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009809.	1.0	5
85	Reply to Comment by A. Argnani on â€Geometry of the Deep Calabrian Subduction From Wideâ€Angle Seismic Data and 3â€ Gravity Modelingâ€; <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009223.	1.0	4
86	Deep structure of the Demerara Plateau and its two-fold tectonic evolution: from a volcanic margin to a transform marginal plateau, insights from the Conjugate Guinea Plateau. <i>Geological Society Special Publication</i> , 2023, 524, 339-366.	0.8	3
87	Evidence for active subduction beneath Gibraltar: Comment and Reply. <i>Geology</i> , 2003, 31, e23-e23.	2.0	2
88	Oceanic mantle reflections in deep seismic profiles offshore Sumatra are faults or fakes. <i>Scientific Reports</i> , 2019, 9, 13354.	1.6	2
89	Coexistence of Adjacent Siliciclastic, Carbonate, and Mixed Sedimentary Systems: An Example From Seafloor Morphology in the Northern Lesser Antilles Forearc. <i>Frontiers in Earth Science</i> , 0, 10, .	0.8	2
90	3D Acoustic and Microseismic Location of Collapse Events in Complex, 3D Geological Structures. , 2011, , .		1

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91	Initiation of transform continental margins: the Cretaceous margins of the Demerara plateau. Geological Society Special Publication, 2023, 524, 327-337.	0.8	1
92	Reply to "Comment on "An Alternative View of the Microseismicity along the Western Main Marmara Fault" by E. Batsi et al." by Y. Yamamoto et al.. Bulletin of the Seismological Society of America, 2020, 110, 383-386.	1.1	0
93	Sismicité et volcanisme dans le Sud-Ouest du bassin arrière-arc d'Okinawa (Nord-Est Taiwan). Bulletin - Societe Geologique De France, 2009, 180, 155-170.	0.9	0
94	Sismicite et volcanisme dans le Sud-Ouest du bassin arriere-arc d'Okinawa (Nord-Est Taiwan). Bulletin - Societe Geologique De France, 2009, 180, 155-170.	0.9	0
95	Structure of the Central Atlantic Conjugate Passive Margins and their Associated Sedimentary Basins. , 2016, , .		0
96	Haiti-Drill: an amphibious drilling project workshop. Scientific Drilling, 0, 28, 49-62.	1.0	0