

Frauke Klingelhofer

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94
papers

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h-index

45
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112
ext. papers

2,637
ext. citations

3.4
avg, IF

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L-index

#	Paper	IF	Citations
94	Evidence for active subduction beneath Gibraltar. <i>Geology</i> , 2002 , 30, 1071	5	376
93	Geological constraints on the evolution of the Angolan margin based on reflection and refraction seismic data (ZaAnGo project). <i>Geophysical Journal International</i> , 2005 , 162, 793-810	2.6	145
92	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	2.6	84
91	26th December 2004 great SumatraAndaman earthquake: Co-seismic and post-seismic motions in northern Sumatra. <i>Earth and Planetary Science Letters</i> , 2007 , 263, 88-103	5.3	79
90	Crustal structure of a super-slow spreading centre:a seismic refraction study of Mohns Ridge, 72°N. <i>Geophysical Journal International</i> , 2000 , 141, 509-526	2.6	74
89	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	5.3	57
88	Crustal structure of a young margin pair: New results across the LiguroProvencal Basin from wide-angle seismic tomography. <i>Earth and Planetary Science Letters</i> , 2009 , 286, 333-345	5.3	55
87	Multiphased tectonic evolution of the Central Algerian margin from combined wide-angle and reflection seismic data off Tipaza, Algeria. <i>Journal of Geophysical Research: Solid Earth</i> , 2013 , 118, 3899-3916	3.6	51
86	Deep structure of the Santos Basin-SB Paulo Plateau System, SE Brazil. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 5401-5431	3.6	50
85	Limits of the seismogenic zone in the epicentral region of the 26 December 2004 great Sumatra-Andaman earthquake: Results from seismic refraction and wide-angle reflection surveys and thermal modeling. <i>Journal of Geophysical Research</i> , 2010 , 115,		50
84	Crustal structure of the SW-Moroccan margin from wide-angle and reflection seismic data (the DAKHLA experiment) Part A: Wide-angle seismic models. <i>Tectonophysics</i> , 2009 , 468, 63-82	3.1	47
83	Imaging a lithospheric detachment at the continentOcean crustal transition off Morocco. <i>Earth and Planetary Science Letters</i> , 2006 , 241, 686-698	5.3	47
82	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	3.1	46
81	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,		43
80	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, n/a-n/a	4.3	41
79	Megathrust earthquakes can nucleate in the forearc mantle: Evidence from the 2004 Sumatra event. <i>Geology</i> , 2009 , 37, 659-662	5	40
78	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	2.6	37

77	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	4.3	36
76	Deep crustal structure across a young passive margin from wide-angle and reflection seismic data (The SARDINIA Experiment) II. Gulf of Lion margin. <i>Bulletin - Societe Geologique De France</i> , 2015 , 186, 309-330	2.3	36
75	Seismic imaging of forearc backthrusts at northern Sumatra subduction zone. <i>Geophysical Journal International</i> , 2009 , 179, 1772-1780	2.6	36
74	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	2.6	34
73	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	4.9	33
72	Structural evolution and strike-slip tectonics off north-western Sumatra. <i>Tectonophysics</i> , 2010 , 480, 119-132	3.32	33
71	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	5.3	33
70	Imaging proto-oceanic crust off the Brazilian Continental Margin. <i>Geophysical Journal International</i> , 2014 , 200, 471-488	2.6	32
69	MicrOBS: A new generation of ocean bottom seismometer. <i>First Break</i> , 2004 , 22,	0.5	30
68	Arms winding around a meddy seen in seismic reflection data close to the Morocco coastline. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	29
67	Deep crustal structure across a young passive margin from wide-angle and reflection seismic data (The SARDINIA Experiment) III. Sardinia margin. <i>Bulletin - Societe Geologique De France</i> , 2015 , 186, 331-351	2.3	28
66	Origin of the southern Okinawa Trough volcanism from detailed seismic tomography. <i>Journal of Geophysical Research</i> , 2007 , 112,		28
65	geophysical and geochemical constraints on crustal accretion at the very-slow spreading mohns ridge. <i>Geophysical Research Letters</i> , 2000 , 27, 1547-1550	4.9	28
64	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	3.6	27
63	Mesozoic and Early Cenozoic sediment influx and morphology of the Mozambique Basin. <i>Marine and Petroleum Geology</i> , 2015 , 66, 890-905	4.7	26
62	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	2.6	26
61	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	3.1	25
60	Structure of the southernmost Okinawa Trough from reflection and wide-angle seismic data. <i>Tectonophysics</i> , 2009 , 466, 281-288	3.1	25

59	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	3.1	24
58	Thinned continental crust intruded by volcanics beneath the northern Bay of Bengal. <i>Marine and Petroleum Geology</i> , 2016 , 77, 471-486	4.7	24
57	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	2.6	23
56	Dynamics of fault-fluid-hydrate system around a shale-cored anticline in deepwater Nigeria. <i>Journal of Geophysical Research</i> , 2011 , 116,		23
55	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	4.9	22
54	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	3.1	20
53	Crustal structure of the NW Moroccan margin from deep seismic data (SISMAR Cruise). <i>Comptes Rendus - Geoscience</i> , 2009 , 341, 495-503	1.4	19
52	Geophysical characterization of bottom simulating reflectors in the Fairway Basin (off New Caledonia, Southwest Pacific), based on high resolution seismic profiles and heat flow data. <i>Marine Geology</i> , 2009 , 266, 80-90	3.3	18
51	Transform Marginal Plateaus. <i>Earth-Science Reviews</i> , 2020 , 203, 102940	10.2	18
50	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	3.1	17
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	2.8	17
48	The polyphased tectonic evolution of the Anegada Passage in the northern Lesser Antilles subduction zone. <i>Tectonics</i> , 2017 , 36, 945-961	4.3	16
47	Gas and seismicity within the Istanbul seismic gap. <i>Scientific Reports</i> , 2018 , 8, 6819	4.9	14
46	3-D 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	4.9	13
45	Ionian Abyssal Plain: a window into the Tethys oceanic lithosphere. <i>Solid Earth</i> , 2019 , 10, 447-462	3.3	12
44	Imaging exhumed lower continental crust in the distal Jequitinhonha basin, Brazil. <i>Journal of South American Earth Sciences</i> , 2018 , 84, 351-372	2	12
43	Structure and evolution of the Gulf of Lions: The Sardinia seismic experiment and the GOLD (Gulf of Lions Drilling) project. <i>The Leading Edge</i> , 2012 , 31, 786-792	1	12
42	Recent uplift of the Atlantic Atlas (offshore West Morocco): Tectonic arch and submarine terraces. <i>Tectonophysics</i> , 2017 , 706-707, 46-58	3.1	11

41	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	2.6	11
40	Microseismicity and faulting in the southwestern Okinawa Trough. <i>Tectonophysics</i> , 2009 , 466, 268-280	3.1	10
39	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, n/a-n/a	3.6	10
38	Discovery of continental stretching and oceanic spreading in the Tasman Sea. <i>Eos</i> , 2005 , 86, 101	1.5	10
37	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	2.3	10
36	Spatial variations in the frequency-magnitude distribution of earthquakes in the southwestern Okinawa Trough. <i>Earth, Planets and Space</i> , 2007 , 59, 221-225	2.9	9
35	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	3.6	9
34	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,	4.9	8
33	Deep structure of the Demerara Plateau: From a volcanic margin to a Transform Marginal Plateau. <i>Tectonophysics</i> , 2021 , 803, 228645	3.1	8
32	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	5.3	7
31	Using the OBS wide-angle reflection/refraction velocities to perform a pre-stack depth migration image of the single bubble multichannel seismic: example of the Moroccan margin. <i>Journal of Applied Geophysics</i> , 2005 , 57, 107-118	1.7	7
30	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	4.7	7
29	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	3.1	7
28	2-D and 3-D modelling of wide-angle seismic data: an example from the Vening volcanic passive margin. <i>Marine Geophysical Researches</i> , 2006 , 27, 181-199	2.3	6
27	The Bunce Fault and Strain Partitioning in the Northern Lesser Antilles. <i>Geophysical Research Letters</i> , 2019 , 46, 9573-9582	4.9	5
26	Paleogene V-Shaped Basins and Neogene Subsidence of the Northern Lesser Antilles Forearc. <i>Tectonics</i> , 2021 , 40, e2020TC006524	4.3	5
25	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	2.6	5
24	Reply to the comment of Talwani et al. (2017) on the Sibuet et al. (2016) paper entitled "Thinned continental crust intruded by volcanics beneath the northern Bay of Bengal" <i>Marine and Petroleum Geology</i> , 2017 , 88, 1126-1129	4.7	4

23	Fiber optic monitoring of active faults at the seafloor: I the FOCUS project 2019 , 32-37		4
22	Geometry of the Deep Calabrian Subduction (Central Mediterranean Sea) From Wide-Angle Seismic Data and 3-D Gravity Modeling. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21,	3.6	4
21	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	3.6	4
20	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	2	4
19	Reply to Comment by A. Argnani on Geometry of the Deep Calabrian Subduction From Wide-Angle Seismic Data and 3-D Gravity Modeling <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2020GC009223	3.6	3
18	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	3.6	3
17	Strike-Slip Faulting in the Calabrian Accretionary Wedge: Using Analog Modeling to Test the Kinematic Boundary Conditions of Geodynamic Models 2019 , 321-337		3
16	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	4.3	3
15	Evidence for active subduction beneath Gibraltar: Comment and Reply. <i>Geology</i> , 2003 , 31, e23-e23	5	2
14	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,	3.5	2
13	Oceanic mantle reflections in deep seismic profiles offshore Sumatra are faults or fakes. <i>Scientific Reports</i> , 2019 , 9, 13354	4.9	1
12	Back-Arc Dynamics Controlled by Slab Rollback and Tearing: A Reappraisal of Seafloor Spreading and Kinematic Evolution of the Eastern Algero-Balearic Basin (Western Mediterranean) in the Middle-Late Miocene. <i>Tectonics</i> , 2022 , 41,	4.3	1
11	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	2.2	1
10	Compared structure and evolution of the conjugate Demerara and Guinea transform marginal plateaus. <i>Tectonophysics</i> , 2021 , 229112	3.1	1
9	Back-arc dynamics controlled by slab rollback and tearing: a reappraisal of seafloor spreading and kinematic evolution of the Eastern Algerian basin (western Mediterranean) in Middle-Late Miocene		1
8	Pervasive detachment faults within the slow spreading oceanic crust at the poorly coupled Antilles subduction zone. <i>Communications Earth & Environment</i> , 2021 , 2,	6.1	1
7	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> , SP524-2021-96	1.7	1
6	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	3.6	0

- 5 Initiation of transform continental margins: the Cretaceous margins of the Demerara plateau. *Geological Society Special Publication*, SP524-2021-118 1.7
- 4 Haiti-Drill: an amphibious drilling project workshop. *Scientific Drilling*, 28, 49-62
- 3 Sismicite et volcanisme dans le Sud-Ouest du bassin arrie re-arc dOkinawa (Nord-Est Taiwan). *Bulletin - Societe Geologique De France*, **2009**, 180, 155-170 2.3
- 2 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 2.3
- 1 Pliocene to Quaternary Tectonic Inversion of the Algerian Margin Along the Spiral Transect of Kabylies (North Central Algeria). *Advances in Science, Technology and Innovation*, **2022**, 555-558 0.3