

# Dieter Franke

## List of Publications by Citations

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93  
papers

3,217  
citations

31  
h-index

54  
g-index

104  
ext. papers

3,776  
ext. citations

3.6  
avg, IF

5.6  
L-index

#	Paper	IF	Citations
93	Rifting, lithosphere breakup and volcanism: Comparison of magma-poor and volcanic rifted margins. <i>Marine and Petroleum Geology</i> , <b>2013</b> , 43, 63-87	4.7	336
92	Evolution of the South China Sea: Revised ages for breakup and seafloor spreading. <i>Marine and Petroleum Geology</i> , <b>2014</b> , 58, 599-611	4.7	192
91	The final rifting evolution in the South China Sea. <i>Marine and Petroleum Geology</i> , <b>2014</b> , 58, 704-720	4.7	177
90	The continent-ocean transition at the southeastern margin of the South China Sea. <i>Marine and Petroleum Geology</i> , <b>2011</b> , 28, 1187-1204	4.7	139
89	Margin segmentation and volcano-tectonic architecture along the volcanic margin off Argentina/Uruguay, South Atlantic. <i>Marine Geology</i> , <b>2007</b> , 244, 46-67	3.3	137
88	Different expressions of rifting on the South China Sea margins. <i>Marine and Petroleum Geology</i> , <b>2014</b> , 58, 579-598	4.7	109
87	Seismic stratigraphy of the central South China Sea basin and implications for neotectonics. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2015</b> , 120, 1377-1399	3.6	109
86	Seismic stratigraphy and tectonic structure from a composite multi-channel seismic profile across the entire Dangerous Grounds, South China Sea. <i>Tectonophysics</i> , <b>2013</b> , 582, 162-176	3.1	82
85	Seismic images of a collision zone offshore NW Sabah/Borneo. <i>Marine and Petroleum Geology</i> , <b>2008</b> , 25, 606-624	4.7	79
84	The Laptev Sea Rift. <i>Marine and Petroleum Geology</i> , <b>2001</b> , 18, 1083-1127	4.7	77
83	Seismic evidence of hyper-stretched crust and mantle exhumation offshore Vietnam. <i>Tectonophysics</i> , <b>2013</b> , 608, 72-83	3.1	76
82	The great Sumatra-Andaman earthquakes – Imaging the boundary between the ruptures of the great 2004 and 2005 earthquakes. <i>Earth and Planetary Science Letters</i> , <b>2008</b> , 269, 118-130	5.3	71
81	Birth of a volcanic margin off Argentina, South Atlantic. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2010</b> , 11, n/a-n/a	3.6	59
80	The deep-water fold-and-thrust belt offshore NW Borneo: Gravity-driven versus basement-driven shortening. <i>Bulletin of the Geological Society of America</i> , <b>2009</b> , 121, 939-953	3.9	59
79	Crustal structure across the Colorado Basin, offshore Argentina. <i>Geophysical Journal International</i> , <b>2006</b> , 165, 850-864	2.6	59
78	Crustal-scale architecture and segmentation of the Argentine margin and its conjugate off South Africa. <i>Geophysical Journal International</i> , <b>2009</b> , 178, 85-105	2.6	56
77	The offshore East African Rift System: Structural framework at the toe of a juvenile rift. <i>Tectonics</i> , <b>2015</b> , 34, 2086-2104	4.3	51

76	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> , <b>2010</b> , 115,		50
75	Segmentation and volcano-tectonic characteristics along the SW African continental margin, South Atlantic, as derived from multichannel seismic and potential field data. <i>Marine and Petroleum Geology</i> , <b>2014</b> , 50, 22-39	4.7	46
74	Linking rift propagation barriers to excess magmatism at volcanic rifted margins. <i>Geology</i> , <b>2014</b> , 42, 10715-10745		45
73	Oligocene-Miocene carbonates and their role for constraining the rifting and collision history of the Dangerous Grounds, South China Sea. <i>Marine and Petroleum Geology</i> , <b>2014</b> , 58, 644-657	4.7	45
72	The structure of the lower crust at the Argentine continental margin, South Atlantic at 44°S. <i>Tectonophysics</i> , <b>2008</b> , 454, 14-22	3.1	45
71	Geology of the East Siberian Sea, Russian Arctic, from seismic images: Structures, evolution, and implications for the evolution of the Arctic Ocean Basin. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		42
70	The structural evolution of folds in a deepwater fold and thrust belt: a case study from the Sabah continental margin offshore NW Borneo, SE Asia. <i>Marine and Petroleum Geology</i> , <b>2010</b> , 27, 442-454	4.7	39
69	Time constraints on the evolution of southern Palawan Island, Philippines from onshore and offshore correlation of Miocene limestones. <i>Journal of Asian Earth Sciences</i> , <b>2013</b> , 76, 412-427	2.8	38
68	A review of Pangaea dispersal and Large Igneous Provinces: In search of a causative mechanism. <i>Earth-Science Reviews</i> , <b>2020</b> , 206, 102902	10.2	37
67	The Rovuma Delta deep-water fold-and-thrust belt, offshore Mozambique. <i>Tectonophysics</i> , <b>2014</b> , 614, 91-99	3.1	33
66	Deep seismic reflection images of the Wharton Basin oceanic crust and uppermost mantle offshore Northern Sumatra: Relation with active and past deformation. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2014</b> , 119, 32-51	3.6	33
65	Structural evolution and strike-slip tectonics off north-western Sumatra. <i>Tectonophysics</i> , <b>2010</b> , 480, 119-132	3.32	33
64	Crustal Structure across the Northwestern Margin of South China Sea: Evidence for Magma-poor Rifting from a Wide-angle Seismic Profile. <i>Acta Geologica Sinica</i> , <b>2012</b> , 86, 854-866	0.7	31
63	Crustal fragmentation, magmatism, and the diachronous opening of the Norwegian-Greenland Sea. <i>Earth-Science Reviews</i> , <b>2020</b> , 206, 102839	10.2	31
62	Middle to Late Cenozoic tectonic events in south and central Palawan (Philippines) and their implications to the evolution of the south-eastern margin of South China Sea: Evidence from onshore structural and offshore seismic data. <i>Marine and Petroleum Geology</i> , <b>2014</b> , 58, 658-673	4.7	30
61	INDICATIONS FOR AN ACTIVE PETROLEUM SYSTEM IN THE LAPTEV SEA, NE SIBERIA. <i>Journal of Petroleum Geology</i> , <b>2005</b> , 28, 369-384	1.9	30
60	The continent-ocean transition on the northwestern South China Sea. <i>Basin Research</i> , <b>2017</b> , 29, 73-95	3.2	29
59	The crustal structure of the southern Argentine margin. <i>Geophysical Journal International</i> , <b>2012</b> , 189, 1483-1504	2.6	29

58	Asymmetry of high-velocity lower crust on the South Atlantic rifted margins and implications for the interplay of magmatism and tectonics in continental breakup. <i>Solid Earth</i> , <b>2014</b> , 5, 1011-1026	3.3	29
57	Gondwana breakup: no evidence for a Davie Fracture Zone offshore northern Mozambique, Tanzania and Kenya. <i>Terra Nova</i> , <b>2016</b> , 28, 233-244	3	24
56	How to identify oceanic crust Evidence for a complex break-up in the Mozambique Channel, off East Africa. <i>Tectonophysics</i> , <b>2016</b> , 693, 436-452	3.1	24
55	Seismostratigraphy of the Siberian Sector of the Arctic Ocean and adjacent Laptev Sea Shelf. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2014</b> , 119, 5275-5289	3.6	24
54	Tectonics of the Laptev Sea [Moma 'Rift' Region: Investigation with Seismologic Broadband Data. <i>Journal of Seismology</i> , <b>2000</b> , 4, 99-116	1.5	24
53	Structural inheritance in the North Atlantic. <i>Earth-Science Reviews</i> , <b>2020</b> , 206, 102975	10.2	24
52	Tectonic evolution of the Colorado Basin, offshore Argentina, inferred from seismo-stratigraphy and depositional rates analysis. <i>Tectonophysics</i> , <b>2013</b> , 604, 245-263	3.1	23
51	THE STRUCTURAL STYLE OF SEDIMENTARY BASINS ON THE SHELVES OF THE LAPTEV SEA AND WESTERN EAST SIBERIAN SEA, SIBERIAN ARCTIC. <i>Journal of Petroleum Geology</i> , <b>2005</b> , 28, 269-286	1.9	22
50	Tie points for Gondwana reconstructions from a structural interpretation of the Mozambique Basin, East Africa and the Riiser-Larsen Sea, Antarctica. <i>Solid Earth</i> , <b>2018</b> , 9, 25-37	3.3	22
49	South China Sea crustal thickness and oceanic lithosphere distribution from satellite gravity inversion. <i>Petroleum Geoscience</i> , <b>2019</b> , 25, 112-128	1.9	20
48	Variations in sediment transport at the central Argentine continental margin during the Cenozoic. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2012</b> , 13, n/a-n/a	3.6	20
47	Variations in bottom water activity at the southern Argentine margin: indications from a seismic analysis of a continental slope terrace. <i>Geo-Marine Letters</i> , <b>2011</b> , 31, 405-417	1.9	20
46	Neogene subsidence and stratigraphy of the Simeulue forearc basin, Northwest Sumatra. <i>Marine Geology</i> , <b>2008</b> , 253, 1-13	3.3	20
45	The West Andaman Fault: A complex strain-partitioning boundary at the seaward edge of the Aceh Basin, offshore Sumatra. <i>Tectonics</i> , <b>2014</b> , 33, 786-806	4.3	19
44	Geological evolution of the West Luzon Basin (South China Sea, Philippines). <i>Marine Geophysical Researches</i> , <b>2011</b> , 32, 349-362	2.3	19
43	MATURITY AND PETROLEUM SYSTEMS MODELLING IN THE OFFSHORE ZAMBEZI DELTA DEPRESSION AND ANGOCHE BASIN, NORTHERN MOZAMBIQUE. <i>Journal of Petroleum Geology</i> , <b>2014</b> , 37, 329-348	1.9	18
42	The Iceland Microcontinent and a continental Greenland-Iceland-Faroe Ridge. <i>Earth-Science Reviews</i> , <b>2020</b> , 206, 102926	10.2	18
41	The late rifting phase and continental break-up of the southern South Atlantic: the mode and timing of volcanic rifting and formation of earliest oceanic crust. <i>Geological Society Special Publication</i> , <b>2016</b> , 420, 315-340	1.7	17

40	Late Palaeozoic to Early Cenozoic geological evolution of the northwestern German North Sea (Entenschnabel): New results and insights. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , <b>2014</b> , 93, 147-174	1.1	17
39	Mass-transport deposits and reservoir quality of Upper Cretaceous Chalk within the German Central Graben, North Sea. <i>International Journal of Earth Sciences</i> , <b>2016</b> , 105, 797-818	2.2	15
38	Reply to Chang et al., 2014, Evolution of the South China Sea: Revised ages for breakup and seafloor spreading. <i>Marine and Petroleum Geology</i> , <b>2015</b> , 59, 679-681	4.7	13
37	Evidence for mantle exhumation since the early evolution of the slow-spreading Gakkel Ridge, Arctic Ocean. <i>Journal of Geodynamics</i> , <b>2018</b> , 118, 154-165	2.2	13
36	Subduction system variability across the segment boundary of the 2004/2005 Sumatra megathrust earthquakes. <i>Earth and Planetary Science Letters</i> , <b>2013</b> , 365, 108-119	5.3	13
35	Geology of the Shelves surrounding the New Siberian Islands, Russian Arctic. <i>Stephan Mueller Special Publication Series</i> , 4, 35-44		12
34	Fault-controlled lithospheric detachment of the volcanic southern South Atlantic rift. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2016</b> , 17, 887-894	3.6	12
33	The Paleozoic Evolution of the Olga Basin Region, Northern Barents Sea: A Link to the Timanian Orogeny. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2019</b> , 20, 614-629	3.6	11
32	The crustal structure of the southern Davie Ridge offshore northern Mozambique – A wide-angle seismic and potential field study. <i>Tectonophysics</i> , <b>2020</b> , 778, 228370	3.1	11
31	Numerical modeling of extensional sedimentary basin formation with MATLAB: Application to the northern margin of the South China Sea. <i>Computers and Geosciences</i> , <b>2013</b> , 51, 153-165	4.5	11
30	Initial Opening of the Eurasian Basin, Arctic Ocean. <i>Frontiers in Earth Science</i> , <b>2016</b> , 4,	3.5	11
29	Detailed Seismic Bathymetry Beneath Ekström Ice Shelf, Antarctica: Implications for Glacial History and Ice-Ocean Interaction. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL086187	4.9	10
28	Polyphase Magmatism During the Formation of the Northern East Greenland Continental Margin. <i>Tectonics</i> , <b>2019</b> , 38, 2961-2982	4.3	10
27	Evolution of the northern Argentine margin during the Cenozoic controlled by bottom current dynamics and gravitational processes. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2016</b> , 17, 3131-3149	3.6	10
26	Shale-Gas Assessment: Comparison of Gas-In-Place Versus Performance-Based Approaches. <i>Natural Resources Research</i> , <b>2016</b> , 25, 315-329	4.9	9
25	Slowdown of Circumpolar Deepwater flow during the Late Neogene: Evidence from a mudwave field at the Argentine continental slope. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 2070-2076	4.9	9
24	The Mesozoic-Cenozoic tectonic evolution of the New Siberian Islands, NE Russia. <i>Geological Magazine</i> , <b>2015</b> , 152, 480-491	2	8
23	Shallow gas accumulations in the German North Sea. <i>Marine and Petroleum Geology</i> , <b>2018</b> , 91, 139-151	4.7	8

22	Petroleum systems of the Simeulue fore-arc basin, offshore Sumatra, Indonesia. <i>AAPG Bulletin</i> , <b>2011</b> , 95, 1589-1616	2.5	8
21	Deepwater folding and thrusting offshore NW Borneo, SE Asia. <i>Geological Society Special Publication</i> , <b>2010</b> , 348, 169-185	1.7	8
20	Organic matter type, origin and thermal maturity of Paleozoic, Mesozoic and Cenozoic successions of the New Siberian Islands, eastern Russian Arctic. <i>International Journal of Coal Geology</i> , <b>2015</b> , 152, 125-146	5.5	7
19	The Southwest Indian Ocean Bathymetric Compilation (swIOBC). <i>Geochemistry, Geophysics, Geosystems</i> , <b>2018</b> , 19, 968-976	3.6	7
18	Maturity modelling of the deepwater continental margin, offshore Argentina. <i>Zeitschrift Der Deutschen Gesellschaft Fur Geowissenschaften</i> , <b>2011</b> , 162, 79-89	1.5	7
17	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> , <b>2021</b> , 126, 104898	4.7	7
16	On the climate benefit of a coal-to-gas shift in Germany's electric power sector. <i>Scientific Reports</i> , <b>2021</b> , 11, 11453	4.9	7
15	Rapid Quaternary subsidence in the northwestern German North Sea. <i>Scientific Reports</i> , <b>2018</b> , 8, 11524	4.9	6
14	Mesozoic structural evolution of the New Siberian Islands. <i>Geological Society Special Publication</i> , <b>2018</b> , 460, 239-262	1.7	6
13	Dating and correlation of reference seismic horizons in the Laptev Sea Basin. <i>Moscow University Geology Bulletin</i> , <b>2014</b> , 69, 271-280	0.4	5
12	Asymmetry of high-velocity lower crust on the South Atlantic rifted margins and implications for the interplay of magmatism and tectonics in continental break-up		5
11	Deformation of Continental Lithosphere on the Laptev Sea Shelf, Russian Arctic <b>1998</b> ,		4
10	Unlocking the Opening Processes of the South China Sea. <i>Scientific Drilling</i> , <b>14</b> , 55-59		4
9	Reconnaissance study of organic geochemistry and petrology of Paleozoic-Cenozoic potential hydrocarbon source rocks from the New Siberian Islands, Arctic Russia. <i>Marine and Petroleum Geology</i> , <b>2016</b> , 78, 30-47	4.7	3
8	How to Include Ignorance into Hydrocarbon-Resource Assessments? A Case Study Applied to the Presence of Source Rock at the Argentine Deep Water Margin. <i>Natural Resources Research</i> , <b>2012</b> , 21, 301-309	4.9	3
7	Geology of the shelves surrounding the New Siberian Islands from seismic images: Laptev Sea and East Siberian Sea, Russian Arctic <b>2012</b> , 278-297		2
6	Basin and petroleum systems modelling in the northern Norwegian Barents Sea. <i>Marine and Petroleum Geology</i> , <b>2021</b> , 130, 105128	4.7	2
5	The magma-poor Somalian continental margin: Lower crustal boudinage and mantle exhumation. <i>Marine Geology</i> , <b>2020</b> , 430, 106358	3.3	1

- 4 Inheritance and style of rifting: incremental structural restoration of the Laptev Sea Rift System, north-eastern Russian Arctic. *Arktos*, **2019**, 5, 63-70 0.9
- 3 SOME THOUGHTS ON THE INFLUENCE OF PRESSURE AND THERMAL HISTORY ASSUMPTIONS ON PETROLEUM SYSTEMS MODELLING by A. D. Carr and C. N. Uguna. *Journal of Petroleum Geology*, **2015**, 38, 467-470 1.9
- 2 Numerical basin modeling of the Laptev Sea Rift, NE Russia **2019**, 45-61
- 1 Energy Resources. *Encyclopedia of Earth Sciences Series*, **2016**, 217-226 0