

# Carmen Gaina

## List of Publications by Citations

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84  
papers

8,316  
citations

39  
h-index

91  
g-index

100  
ext. papers

9,567  
ext. citations

5.8  
avg, IF

5.94  
L-index

#	Paper	IF	Citations
84	Age, spreading rates, and spreading asymmetry of the world's ocean crust. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2008</b> , 9, n/a-n/a	3.6	1255
83	Global continental and ocean basin reconstructions since 200Ma. <i>Earth-Science Reviews</i> , <b>2012</b> , 113, 212-270	10.2	1184
82	Phanerozoic polar wander, palaeogeography and dynamics. <i>Earth-Science Reviews</i> , <b>2012</b> , 114, 325-368	10.2	835
81	Long-term sea-level fluctuations driven by ocean basin dynamics. <i>Science</i> , <b>2008</b> , 319, 1357-62	33.3	508
80	Global plate motion frames: Toward a unified model. <i>Reviews of Geophysics</i> , <b>2008</b> , 46,	23.1	425
79	The tectonic history of the Tasman Sea: A puzzle with 13 pieces. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 12413-12433		340
78	EMAG2: A 2 $\frac{1}{2}$ ° min resolution Earth Magnetic Anomaly Grid compiled from satellite, airborne, and marine magnetic measurements. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2009</b> , 10, n/a-n/a	3.6	320
77	Major Australian-Antarctic plate reorganization at Hawaiian-Emperor bend time. <i>Science</i> , <b>2007</b> , 318, 83-6	33.3	218
76	Breakup and early seafloor spreading between India and Antarctica. <i>Geophysical Journal International</i> , <b>2007</b> , 170, 151-169	2.6	187
75	PalaeoceneRecent plate boundaries in the NE Atlantic and the formation of the Jan Mayen microcontinent. <i>Journal of the Geological Society</i> , <b>2009</b> , 166, 601-616	2.7	164
74	The African Plate: A history of oceanic crust accretion and subduction since the Jurassic. <i>Tectonophysics</i> , <b>2013</b> , 604, 4-25	3.1	135
73	Integrated crustal thickness mapping and plate reconstructions for the high Arctic. <i>Earth and Planetary Science Letters</i> , <b>2008</b> , 274, 310-321	5.3	129
72	Plate tectonics and net lithosphere rotation over the past 150 My. <i>Earth and Planetary Science Letters</i> , <b>2010</b> , 291, 106-112	5.3	126
71	Late CretaceousCenozoic deformation of northeast Asia. <i>Earth and Planetary Science Letters</i> , <b>2002</b> , 197, 273-286	5.3	122
70	A recipe for microcontinent formation. <i>Geology</i> , <b>2001</b> , 29, 203	5	118
69	A Precambrian microcontinent in the Indian Ocean. <i>Nature Geoscience</i> , <b>2013</b> , 6, 223-227	18.3	114
68	Mid-Cretaceous seafloor spreading pulse: Fact or fiction?. <i>Geology</i> , <b>2009</b> , 37, 687-690	5	92

67	GlobSed: Updated Total Sediment Thickness in the World's Oceans. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2019</b> , 20, 1756-1772	3.6	90
66	Cenozoic tectonic and depth/age evolution of the Indonesian gateway and associated back-arc basins. <i>Earth-Science Reviews</i> , <b>2007</b> , 83, 177-203	10.2	87
65	Seismic volcanostratigraphy of the western Indian rifted margin: The pre-Deccan igneous province. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		84
64	Tectonic interactions between India and Arabia since the Jurassic reconstructed from marine geophysics, ophiolite geology, and seismic tomography. <i>Tectonics</i> , <b>2015</b> , 34, 875-906	4.3	72
63	Community infrastructure and repository for marine magnetic identifications. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2014</b> , 15, 1629-1641	3.6	71
62	Continental crust beneath southeast Iceland. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E1818-27	11.5	69
61	Chapter 3 Circum-Arctic mapping project: new magnetic and gravity anomaly maps of the Arctic. <i>Geological Society Memoir</i> , <b>2011</b> , 35, 39-48	0.4	69
60	The Norway Basin revisited: From continental breakup to spreading ridge extinction. <i>Marine and Petroleum Geology</i> , <b>2012</b> , 35, 1-19	4.7	63
59	Effect of early Pliocene uplift on late Pliocene cooling in the Arctic Atlantic gateway. <i>Earth and Planetary Science Letters</i> , <b>2014</b> , 387, 132-144	5.3	61
58	Evolution of the Louisiade triple junction. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 12927-12939		60
57	Circum-Antarctic palaeobathymetry: Illustrated examples from Cenozoic to recent times. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>2006</b> , 231, 158-168	2.9	53
56	The Opening of the Tasman Sea: A Gravity Anomaly Animation. <i>Earth Interactions</i> , <b>1998</b> , 2, 1-23	1.5	53
55	4D Arctic: A Glimpse into the Structure and Evolution of the Arctic in the Light of New Geophysical Maps, Plate Tectonics and Tomographic Models. <i>Surveys in Geophysics</i> , <b>2014</b> , 35, 1095-1122	7.6	51
54	Earth at 200 Ma: Global palaeogeography refined from CAMP palaeomagnetic data. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 331-332, 67-79	5.3	50
53	Pacific-Panthalassic Reconstructions: Overview, Errata and the Way Forward. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2019</b> , 20, 3659-3689	3.6	49
52	Pacific plate motion change caused the Hawaiian-Emperor Bend. <i>Nature Communications</i> , <b>2017</b> , 8, 15660	17.4	48
51	Geophysical insights and early spreading history in the vicinity of the Jan Mayen Fracture Zone, Norwegian-Greenland Sea. <i>Tectonophysics</i> , <b>2009</b> , 468, 185-205	3.1	48
50	A global reference model of the lithosphere and upper mantle from joint inversion and analysis of multiple data sets. <i>Geophysical Journal International</i> , <b>2019</b> , 217, 1602-1628	2.6	42

49	Plate-tectonic reconstructions predict part of the Hawaiian hotspot track to be preserved in the Bering Sea. <i>Geology</i> , <b>2007</b> , 35, 407	5	41
48	African cratonic lithosphere carved by mantle plumes. <i>Nature Communications</i> , <b>2020</b> , 11, 92	17.4	40
47	Intraoceanic subduction spanned the Pacific in the Late Cretaceous-Paleocene. <i>Science Advances</i> , <b>2017</b> , 3, eaao2303	14.3	40
46	Seawater chemistry driven by supercontinent assembly, breakup, and dispersal. <i>Geology</i> , <b>2013</b> , 41, 907-910	5.0	39
45	The upper mantle beneath the South Atlantic Ocean, South America and Africa from waveform tomography with massive data sets. <i>Geophysical Journal International</i> , <b>2020</b> , 221, 178-204	2.6	39
44	Crustal Magnetism, Lamellar Magnetism and Rocks That Remember. <i>Elements</i> , <b>2009</b> , 5, 241-246	3.8	38
43	Mesozoic/Cenozoic Tectonic Events Around Australia. <i>Geophysical Monograph Series</i> , <b>2000</b> , 161-188	1.1	37
42	Break-up and seafloor spreading domains in the NE Atlantic. <i>Geological Society Special Publication</i> , <b>2017</b> , 447, 393-417	1.7	36
41	Insights from the Jan Mayen system in the Norwegian-Greenland sea-I. Mapping of a microcontinent. <i>Geophysical Journal International</i> , <b>2012</b> , 191, 385-412	2.6	36
40	Middle Miocene ice sheet expansion in the Arctic: Views from the Barents Sea. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2008</b> , 9, n/a-n/a	3.6	36
39	Reconstructing the Lost Eastern Tethys Ocean Basin: Convergence History of the SE Asian Margin and Marine Gateways. <i>Geophysical Monograph Series</i> , <b>2004</b> , 37-54	1.1	36
38	Palaeoposition of the Seychelles microcontinent in relation to the Deccan Traps and the Plume Generation Zone in Late Cretaceous-Early Palaeogene time. <i>Geological Society Special Publication</i> , <b>2011</b> , 357, 229-252	1.7	30
37	Microcontinent formation around Australia <b>2003</b> ,		30
36	An overview of the Upper Palaeozoic-Mesozoic stratigraphy of the NE Atlantic region. <i>Geological Society Special Publication</i> , <b>2017</b> , 447, 11-68	1.7	29
35	The Jan Mayen microcontinent: an update of its architecture, structural development and role during the transition from the Bjir Ridge to the mid-oceanic Kolbeinsey Ridge. <i>Geological Society Special Publication</i> , <b>2017</b> , 447, 299-337	1.7	27
34	Eurasia Basin and Gakkel Ridge, Arctic Ocean: Crustal asymmetry, ultra-slow spreading and continental rifting revealed by new seismic data. <i>Tectonophysics</i> , <b>2018</b> , 746, 64-82	3.1	26
33	Global Cenozoic Paleobathymetry with a focus on the Northern Hemisphere Oceanic Gateways. <i>Gondwana Research</i> , <b>2020</b> , 86, 126-143	5.1	25
32	Insights from the Jan Mayen system in the Norwegian-Greenland Sea-II. Architecture of a microcontinent. <i>Geophysical Journal International</i> , <b>2012</b> , 191, 413-435	2.6	24

31	Tectonic evolution of the southwest Pacific using constraints from backarc basins <b>2003</b> ,		24
30	Chapter 4 Regional magnetic domains of the Circum-Arctic: a framework for geodynamic interpretation. <i>Geological Society Memoir</i> , <b>2011</b> , 35, 49-60	0.4	23
29	Ultraslow spreading, ridge relocation and compressional events in the East Arctic region: A link to the Eureka orogeny?. <i>Arktos</i> , <b>2015</b> , 1, 1	0.9	22
28	Plate reconstructions in the Arctic region based on joint analysis of gravity, magnetic, and seismic anomalies 1. <i>Russian Geology and Geophysics</i> , <b>2013</b> , 54, 859-873	1	21
27	The formation and evolution of Africa from the Archaean to Present: introduction. <i>Geological Society Special Publication</i> , <b>2011</b> , 357, 1-8	1.7	20
26	Building and breaking a large igneous province: An example from the High Arctic. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 6011-6019	4.9	18
25	The NE Atlantic region: a reappraisal of crustal structure, tectonostratigraphy and magmatic evolution in an introduction to the NAG-TEC project. <i>Geological Society Special Publication</i> , <b>2017</b> , 447, 1-10	1.7	17
24	ArcCRUST: Arctic Crustal Thickness From 3-D Gravity Inversion. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2019</b> , 20, 3225-3247	3.6	15
23	Antarctica and global paleogeography: from Rodinia, through Gondwanaland and Pangea, to the birth of the Southern Ocean and the opening of gateways. <i>US Geological Survey Open-File Report</i> , 125-140		14
22	A record of plume-induced plate rotation triggering subduction initiation. <i>Nature Geoscience</i> , <b>2021</b> , 14, 626-630	18.3	13
21	Evidence for slab material under Greenland and links to Cretaceous High Arctic magmatism. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 3717-3726	4.9	13
20	Seamounts and oceanic igneous features in the NE Atlantic: a link between plate motions and mantle dynamics. <i>Geological Society Special Publication</i> , <b>2017</b> , 447, 419-442	1.7	12
19	Global Eocene tectonic unrest: Possible causes and effects around the North American plate. <i>Tectonophysics</i> , <b>2019</b> , 760, 136-151	3.1	12
18	Detrital zircon (U-Th)/He ages from Paleozoic strata of the Severnaya Zemlya Archipelago: Deciphering multiple episodes of Paleozoic tectonic evolution within the Russian High Arctic. <i>Journal of Geodynamics</i> , <b>2018</b> , 119, 210-220	2.2	10
17	The tilted Iceland Plume and its effect on the North Atlantic evolution and magmatism. <i>Earth and Planetary Science Letters</i> , <b>2021</b> , 569, 117048	5.3	9
16	Seismic volcanostratigraphy of the NE Greenland continental margin. <i>Geological Society Special Publication</i> , <b>2017</b> , 447, 149-170	1.7	8
15	A tracer-based algorithm for automatic generation of seafloor age grids from plate tectonic reconstructions. <i>Computers and Geosciences</i> , <b>2020</b> , 140, 104508	4.5	6
14	The Formation of Continental Fragments in Subduction Settings: The Importance of Structural Inheritance and Subduction System Dynamics. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2020</b> , 125, e2019JB018370	3.6	6

13	New data on the basement of Franz Josef Land, Arctic region. <i>Geotectonics</i> , <b>2017</b> , 51, 121-130	1.1	5
12	Microcontinents and Continental Fragments Associated With Subduction Systems. <i>Tectonics</i> , <b>2020</b> , 39, e2020TC006063	4.3	5
11	The Arctic lithosphere: Thermo-mechanical structure and effective elastic thickness. <i>Global and Planetary Change</i> , <b>2018</b> , 171, 2-17	4.2	5
10	Testing Early Cretaceous Africa-South America fits with new palaeomagnetic data from the Etendeka Magmatic Province (Namibia). <i>Tectonophysics</i> , <b>2019</b> , 760, 23-35	3.1	5
9	A reconnaissance provenance study of Triassic-Jurassic clastic rocks of the Russian Barents Sea. <i>Gff</i> , <b>2019</b> , 141, 263-271	0.9	3
8	Circum-Arctic Map compilation. <i>Eos</i> , <b>2007</b> , 88, 227	1.5	3
7	Absolute Plate Motion, Mantle Flow, and Volcanism at the Boundary Between the Pacific and Indian Ocean Mantle Domains Since 90 MA. <i>Geophysical Monograph Series</i> , <b>2000</b> , 189-210	1.1	3
6	Cretaceous ocean formation in the High Arctic. <i>Earth and Planetary Science Letters</i> , <b>2020</b> , 551, 116552	5.3	3
5	Seawater chemistry driven by supercontinent assembly, breakup and dispersal: REPLY. <i>Geology</i> , <b>2014</b> , 42, e335-e335	5	1
4	Ridge Jumps and Mantle Exhumation in Back-Arc Basins. <i>Geosciences (Switzerland)</i> , <b>2021</b> , 11, 475	2.7	0
3	Climate transition at the Eocene-Oligocene influenced by bathymetric changes to the Atlantic-Arctic oceanic gateways.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2115346119	11.5	0
2	Probabilistic Linear Inversion of Satellite Gravity Gradient Data Applied to the Northeast Atlantic. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2021</b> , 126, e2021JB021854	3.6	
1	Arctic Continental Margins <b>2022</b> , 133-148		