

Carmen Gaina

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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> , 2022 , 119, e2115346119	11.5	0
83	Arctic Continental Margins 2022 , 133-148		
82	Ridge Jumps and Mantle Exhumation in Back-Arc Basins. <i>Geosciences (Switzerland)</i> , 2021 , 11, 475	2.7	0
81	Probabilistic Linear Inversion of Satellite Gravity Gradient Data Applied to the Northeast Atlantic. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2021JB021854	3.6	
80	A record of plume-induced plate rotation triggering subduction initiation. <i>Nature Geoscience</i> , 2021 , 14, 626-630	18.3	13
79	The tilted Iceland Plume and its effect on the North Atlantic evolution and magmatism. <i>Earth and Planetary Science Letters</i> , 2021 , 569, 117048	5.3	9
78	Global Cenozoic Paleobathymetry with a focus on the Northern Hemisphere Oceanic Gateways. <i>Gondwana Research</i> , 2020 , 86, 126-143	5.1	25
77	Microcontinents and Continental Fragments Associated With Subduction Systems. <i>Tectonics</i> , 2020 , 39, e2020TC006063	4.3	5
76	African cratonic lithosphere carved by mantle plumes. <i>Nature Communications</i> , 2020 , 11, 92	17.4	40
75	A tracer-based algorithm for automatic generation of seafloor age grids from plate tectonic reconstructions. <i>Computers and Geosciences</i> , 2020 , 140, 104508	4.5	6
74	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> , 2020 , 125, e2019JB018370	3.6	6
73	The upper mantle beneath the South Atlantic Ocean, South America and Africa from waveform tomography with massive data sets. <i>Geophysical Journal International</i> , 2020 , 221, 178-204	2.6	39
72	Cretaceous ocean formation in the High Arctic. <i>Earth and Planetary Science Letters</i> , 2020 , 551, 116552	5.3	3
71	A reconnaissance provenance study of Triassic-Jurassic clastic rocks of the Russian Barents Sea. <i>Gff</i> , 2019 , 141, 263-271	0.9	3
70	A global reference model of the lithosphere and upper mantle from joint inversion and analysis of multiple data sets. <i>Geophysical Journal International</i> , 2019 , 217, 1602-1628	2.6	42
69	ArcCRUST: Arctic Crustal Thickness From 3-D Gravity Inversion. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 3225-3247	3.6	15
68	Global Eocene tectonic unrest: Possible causes and effects around the North American plate. <i>Tectonophysics</i> , 2019 , 760, 136-151	3.1	12

67	Pacific-Panthalassic Reconstructions: Overview, Errata and the Way Forward. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 3659-3689	3.6	49
66	GlobSed: Updated Total Sediment Thickness in the World's Oceans. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 1756-1772	3.6	90
65	Testing Early Cretaceous Africa-South America fits with new palaeomagnetic data from the Etendeka Magmatic Province (Namibia). <i>Tectonophysics</i> , 2019 , 760, 23-35	3.1	5
64	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> , 2018 , 119, 210-220	2.2	10
63	Eurasia Basin and Gakkel Ridge, Arctic Ocean: Crustal asymmetry, ultra-slow spreading and continental rifting revealed by new seismic data. <i>Tectonophysics</i> , 2018 , 746, 64-82	3.1	26
62	The Arctic lithosphere: Thermo-mechanical structure and effective elastic thickness. <i>Global and Planetary Change</i> , 2018 , 171, 2-17	4.2	5
61	Pacific plate motion change caused the Hawaiian-Emperor Bend. <i>Nature Communications</i> , 2017 , 8, 15660	7.4	48
60	Building and breaking a large igneous province: An example from the High Arctic. <i>Geophysical Research Letters</i> , 2017 , 44, 6011-6019	4.9	18
59	New data on the basement of Franz Josef Land, Arctic region. <i>Geotectonics</i> , 2017 , 51, 121-130	1.1	5
58	Seismic volcanostratigraphy of the NE Greenland continental margin. <i>Geological Society Special Publication</i> , 2017 , 447, 149-170	1.7	8
57	Break-up and seafloor spreading domains in the NE Atlantic. <i>Geological Society Special Publication</i> , 2017 , 447, 393-417	1.7	36
56	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> , 2017 , 447, 299-337	1.7	27
55	Seamounts and oceanic igneous features in the NE Atlantic: a link between plate motions and mantle dynamics. <i>Geological Society Special Publication</i> , 2017 , 447, 419-442	1.7	12
54	The NE Atlantic region: a reappraisal of crustal structure, tectonostratigraphy and magmatic evolution [an introduction to the NAG-TEC project. <i>Geological Society Special Publication</i> , 2017 , 447, 1-10	1.7	17
53	Intraoceanic subduction spanned the Pacific in the Late Cretaceous-Paleocene. <i>Science Advances</i> , 2017 , 3, eaao2303	14.3	40
52	An overview of the Upper Palaeozoic-Mesozoic stratigraphy of the NE Atlantic region. <i>Geological Society Special Publication</i> , 2017 , 447, 11-68	1.7	29
51	Evidence for slab material under Greenland and links to Cretaceous High Arctic magmatism. <i>Geophysical Research Letters</i> , 2016 , 43, 3717-3726	4.9	13
50	Continental crust beneath southeast Iceland. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E1818-27	11.5	69

49	Tectonic interactions between India and Arabia since the Jurassic reconstructed from marine geophysics, ophiolite geology, and seismic tomography. <i>Tectonics</i> , 2015 , 34, 875-906	4.3	72
48	Ultralow spreading, ridge relocation and compressional events in the East Arctic region: A link to the Eureka orogeny?. <i>Arktos</i> , 2015 , 1, 1	0.9	22
47	Community infrastructure and repository for marine magnetic identifications. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 1629-1641	3.6	71
46	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> , 2014 , 35, 1095-1122	7.6	51
45	Effect of early Pliocene uplift on late Pliocene cooling in the Arctic Atlantic gateway. <i>Earth and Planetary Science Letters</i> , 2014 , 387, 132-144	5.3	61
44	Seawater chemistry driven by supercontinent assembly, breakup and dispersal: REPLY. <i>Geology</i> , 2014 , 42, e335-e335	5	1
43	Seawater chemistry driven by supercontinent assembly, breakup, and dispersal. <i>Geology</i> , 2013 , 41, 907-910	5.0	39
42	Plate reconstructions in the Arctic region based on joint analysis of gravity, magnetic, and seismic anomalies 1. <i>Russian Geology and Geophysics</i> , 2013 , 54, 859-873	1	21
41	The African Plate: A history of oceanic crust accretion and subduction since the Jurassic. <i>Tectonophysics</i> , 2013 , 604, 4-25	3.1	135
40	A Precambrian microcontinent in the Indian Ocean. <i>Nature Geoscience</i> , 2013 , 6, 223-227	18.3	114
39	Global continental and ocean basin reconstructions since 200Ma. <i>Earth-Science Reviews</i> , 2012 , 113, 212-270	2.02	1184
38	Insights from the Jan Mayen system in the Norwegian-Greenland Sea-II. Architecture of a microcontinent. <i>Geophysical Journal International</i> , 2012 , 191, 413-435	2.6	24
37	Insights from the Jan Mayen system in the Norwegian-Greenland sea-I. Mapping of a microcontinent. <i>Geophysical Journal International</i> , 2012 , 191, 385-412	2.6	36
36	The Norway Basin revisited: From continental breakup to spreading ridge extinction. <i>Marine and Petroleum Geology</i> , 2012 , 35, 1-19	4.7	63
35	Earth at 200 Ma: Global palaeogeography refined from CAMP palaeomagnetic data. <i>Earth and Planetary Science Letters</i> , 2012 , 331-332, 67-79	5.3	50
34	Phanerozoic polar wander, palaeogeography and dynamics. <i>Earth-Science Reviews</i> , 2012 , 114, 325-368	10.2	835
33	Seismic volcanostratigraphy of the western Indian rifted margin: The pre-Deccan igneous province. <i>Journal of Geophysical Research</i> , 2011 , 116,		84
32	Chapter 3 Circum-Arctic mapping project: new magnetic and gravity anomaly maps of the Arctic. <i>Geological Society Memoir</i> , 2011 , 35, 39-48	0.4	69

31	The formation and evolution of Africa from the Archaean to Present: introduction. <i>Geological Society Special Publication</i> , 2011 , 357, 1-8	1.7	20
30	Chapter 4 Regional magnetic domains of the Circum-Arctic: a framework for geodynamic interpretation. <i>Geological Society Memoir</i> , 2011 , 35, 49-60	0.4	23
29	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> , 2011 , 357, 229-252	1.7	30
28	Plate tectonics and net lithosphere rotation over the past 150 My. <i>Earth and Planetary Science Letters</i> , 2010 , 291, 106-112	5.3	126
27	PalaeoceneRecent plate boundaries in the NE Atlantic and the formation of the Jan Mayen microcontinent. <i>Journal of the Geological Society</i> , 2009 , 166, 601-616	2.7	164
26	Geophysical insights and early spreading history in the vicinity of the Jan Mayen Fracture Zone, NorwegianGreenland Sea. <i>Tectonophysics</i> , 2009 , 468, 185-205	3.1	48
25	EMAG2: A 2 \times min resolution Earth Magnetic Anomaly Grid compiled from satellite, airborne, and marine magnetic measurements. <i>Geochemistry, Geophysics, Geosystems</i> , 2009 , 10, n/a-n/a	3.6	320
24	Crustal Magnetism, Lamellar Magnetism and Rocks That Remember. <i>Elements</i> , 2009 , 5, 241-246	3.8	38
23	Mid-Cretaceous seafloor spreading pulse: Fact or fiction?. <i>Geology</i> , 2009 , 37, 687-690	5	92
22	Age, spreading rates, and spreading asymmetry of the world's ocean crust. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	1255
21	Middle Miocene ice sheet expansion in the Arctic: Views from the Barents Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	36
20	Global plate motion frames: Toward a unified model. <i>Reviews of Geophysics</i> , 2008 , 46,	23.1	425
19	Long-term sea-level fluctuations driven by ocean basin dynamics. <i>Science</i> , 2008 , 319, 1357-62	33.3	508
18	Integrated crustal thickness mapping and plate reconstructions for the high Arctic. <i>Earth and Planetary Science Letters</i> , 2008 , 274, 310-321	5.3	129
17	Circum-Arctic Map compilation. <i>Eos</i> , 2007 , 88, 227	1.5	3
16	Breakup and early seafloor spreading between India and Antarctica. <i>Geophysical Journal International</i> , 2007 , 170, 151-169	2.6	187
15	Cenozoic tectonic and depth/age evolution of the Indonesian gateway and associated back-arc basins. <i>Earth-Science Reviews</i> , 2007 , 83, 177-203	10.2	87
14	Major Australian-Antarctic plate reorganization at Hawaiian-Emperor bend time. <i>Science</i> , 2007 , 318, 83-633.3	33.3	218

13	Plate-tectonic reconstructions predict part of the Hawaiian hotspot track to be preserved in the Bering Sea. <i>Geology</i> , 2007 , 35, 407	5	41
12	Circum-Antarctic palaeobathymetry: Illustrated examples from Cenozoic to recent times. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006 , 231, 158-168	2.9	53
11	Reconstructing the Lost Eastern Tethys Ocean Basin: Convergence History of the SE Asian Margin and Marine Gateways. <i>Geophysical Monograph Series</i> , 2004 , 37-54	1.1	36
10	Microcontinent formation around Australia 2003 ,		30
9	Tectonic evolution of the southwest Pacific using constraints from backarc basins 2003 ,		24
8	Late Cretaceous-Cenozoic deformation of northeast Asia. <i>Earth and Planetary Science Letters</i> , 2002 , 197, 273-286	5.3	122
7	A recipe for microcontinent formation. <i>Geology</i> , 2001 , 29, 203	5	118
6	Mesozoic/Cenozoic Tectonic Events Around Australia. <i>Geophysical Monograph Series</i> , 2000 , 161-188	1.1	37
5	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> , 2000 , 189-210	1.1	3
4	Evolution of the Louisiade triple junction. <i>Journal of Geophysical Research</i> , 1999 , 104, 12927-12939		60
3	The tectonic history of the Tasman Sea: A puzzle with 13 pieces. <i>Journal of Geophysical Research</i> , 1998 , 103, 12413-12433		340
2	The Opening of the Tasman Sea: A Gravity Anomaly Animation. <i>Earth Interactions</i> , 1998 , 2, 1-23	1.5	53
1	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