

Carmen Gaina

List of Publications by Year in descending order

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88
papers

10,751
citations

57631

44
h-index

53109

85
g-index

100
all docs

100
docs citations

100
times ranked

7497
citing authors

#	ARTICLE	IF	CITATIONS
1	Age, spreading rates, and spreading asymmetry of the world's ocean crust. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	1,539
2	Global continental and ocean basin reconstructions since 200Ma. <i>Earth-Science Reviews</i> , 2012, 113, 212-270.	4.0	1,459
3	Phanerozoic polar wander, palaeogeography and dynamics. <i>Earth-Science Reviews</i> , 2012, 114, 325-368.	4.0	1,088
4	Long-Term Sea-Level Fluctuations Driven by Ocean Basin Dynamics. <i>Science</i> , 2008, 319, 1357-1362.	6.0	610
5	Global plate motion frames: Toward a unified model. <i>Reviews of Geophysics</i> , 2008, 46, .	9.0	531
6	EMAG2: A 2° arc min resolution Earth Magnetic Anomaly Grid compiled from satellite, airborne, and marine magnetic measurements. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	452
7	The tectonic history of the Tasman Sea: A puzzle with 13 pieces. <i>Journal of Geophysical Research</i> , 1998, 103, 12413-12433.	3.3	390
8	Major Australian-Antarctic Plate Reorganization at Hawaiian-Emperor Bend Time. <i>Science</i> , 2007, 318, 83-86.	6.0	264
9	GlobSed: Updated Total Sediment Thickness in the World's Oceans. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 1756-1772.	1.0	227
10	Breakup and early seafloor spreading between India and Antarctica. <i>Geophysical Journal International</i> , 2007, 170, 151-169.	1.0	223
11	Palaeocene—Recent 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.	0.9	196
12	The African Plate: A history of oceanic crust accretion and subduction since the Jurassic. <i>Tectonophysics</i> , 2013, 604, 4-25.	0.9	164
13	A recipe for microcontinent formation. <i>Geology</i> , 2001, 29, 203.	2.0	151
14	Plate tectonics and net lithosphere rotation over the past 150 My. <i>Earth and Planetary Science Letters</i> , 2010, 291, 106-112.	1.8	150
15	A Precambrian microcontinent in the Indian Ocean. <i>Nature Geoscience</i> , 2013, 6, 223-227.	5.4	147
16	Integrated crustal thickness mapping and plate reconstructions for the high Arctic. <i>Earth and Planetary Science Letters</i> , 2008, 274, 310-321.	1.8	145
17	Late Cretaceous—Cenozoic deformation of northeast Asia. <i>Earth and Planetary Science Letters</i> , 2002, 197, 273-286.	1.8	138
18	Cenozoic tectonic and depth/age evolution of the Indonesian gateway and associated back-arc basins. <i>Earth-Science Reviews</i> , 2007, 83, 177-203.	4.0	118

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19	Mid-Cretaceous seafloor spreading pulse: Fact or fiction?. <i>Geology</i> , 2009, 37, 687-690.	2.0	105
20	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.	1.3	104
21	Continental crust beneath southeast Iceland. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1818-27.	3.3	102
22	Seismic volcanostratigraphy of the western Indian rifted margin: The pre-Deccan igneous province. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	99
23	Community infrastructure and repository for marine magnetic identifications. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 1629-1641.	1.0	97
24	African cratonic lithosphere carved by mantle plumes. <i>Nature Communications</i> , 2020, 11, 92.	5.8	97
25	Chapter 3 Circum-Arctic mapping project: new magnetic and gravity anomaly maps of the Arctic. <i>Geological Society Memoir</i> , 2011, 35, 39-48.	0.9	92
26	Pacificâ€Panthalassic Reconstructions: Overview, Errata and the Way Forward. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3659-3689.	1.0	79
27	Evolution of the Louisiade triple junction. <i>Journal of Geophysical Research</i> , 1999, 104, 12927-12939.	3.3	73
28	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.	1.0	72
29	The Norway Basin revisited: From continental breakup to spreading ridge extinction. <i>Marine and Petroleum Geology</i> , 2012, 35, 1-19.	1.5	71
30	Effect of early Pliocene uplift on late Pliocene cooling in the Arcticâ€Atlantic gateway. <i>Earth and Planetary Science Letters</i> , 2014, 387, 132-144.	1.8	71
31	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.	1.0	71
32	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.	2.1	70
33	Pacific plate motion change caused the Hawaiian-Emperor Bend. <i>Nature Communications</i> , 2017, 8, 15660.	5.8	68
34	Intraoceanic subduction spanned the Pacific in the Late Cretaceousâ€Paleocene. <i>Science Advances</i> , 2017, 3, eaao2303.	4.7	65
35	The Opening of the Tasman Sea: A Gravity Anomaly Animation. <i>Earth Interactions</i> , 1998, 2, 1-23.	0.7	58
36	Earth at 200Ma: Global palaeogeography refined from CAMP palaeomagnetic data. <i>Earth and Planetary Science Letters</i> , 2012, 331-332, 67-79.	1.8	58

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37	Circum-Antarctic palaeobathymetry: Illustrated examples from Cenozoic to recent times. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006, 231, 158-168.	1.0	57
38	Break-up and seafloor spreading domains in the NE Atlantic. <i>Geological Society Special Publication</i> , 2017, 447, 393-417.	0.8	54
39	Geophysical insights and early spreading history in the vicinity of the Jan Mayen Fracture Zone, Norwegian-Greenland Sea. <i>Tectonophysics</i> , 2009, 468, 185-205.	0.9	53
40	Mesozoic/Cenozoic tectonic events around Australia. <i>Geophysical Monograph Series</i> , 2000, , 161-188.	0.1	51
41	Global Cenozoic Paleobathymetry with a focus on the Northern Hemisphere Oceanic Gateways. <i>Gondwana Research</i> , 2020, 86, 126-143.	3.0	51
42	Seawater chemistry driven by supercontinent assembly, breakup, and dispersal. <i>Geology</i> , 2013, 41, 907-910.	2.0	50
43	A record of plume-induced plate rotation triggering subduction initiation. <i>Nature Geoscience</i> , 2021, 14, 626-630.	5.4	50
44	Middle Miocene ice sheet expansion in the Arctic: Views from the Barents Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	48
45	Plate-tectonic reconstructions predict part of the Hawaiian hotspot track to be preserved in the Bering Sea. <i>Geology</i> , 2007, 35, 407.	2.0	47
46	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.	0.1	46
47	Crustal Magnetism, Lamellar Magnetism and Rocks That Remember. <i>Elements</i> , 2009, 5, 241-246.	0.5	45
48	Microcontinent formation around Australia. , 2003, , .		43
49	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.	1.0	43
50	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.	0.9	42
51	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.	0.8	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.	0.8	37
53	The Jan Mayen microcontinent: an update of its architecture, structural development and role during the transition from the Årþgir Ridge to the mid-oceanic Kolbeinsey Ridge. <i>Geological Society Special Publication</i> , 2017, 447, 299-337.	0.8	34
54	Tectonic evolution of the southwest Pacific using constraints from backarc basins. , 2003, , .		34

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55	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.	1.0	32
56	Ultraslow spreading, ridge relocation and compressional events in the East Arctic region: A link to the Eureka orogeny?. <i>Arktos</i> , 2015, 1, 1.	1.0	31
57	The tilted Iceland Plume and its effect on the North Atlantic evolution and magmatism. <i>Earth and Planetary Science Letters</i> , 2021, 569, 117048.	1.8	31
58	Chapter 4 Regional magnetic domains of the Circum-Arctic: a framework for geodynamic interpretation. <i>Geological Society Memoir</i> , 2011, 35, 49-60.	0.9	30
59	ArcCRUST: Arctic Crustal Thickness From Gravity Inversion. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3225-3247.	1.0	28
60	The formation and evolution of Africa from the Archaean to Present: introduction. <i>Geological Society Special Publication</i> , 2011, 357, 1-8.	0.8	26
61	Plate reconstructions in the Arctic region based on joint analysis of gravity, magnetic, and seismic anomalies. <i>Russian Geology and Geophysics</i> , 2013, 54, 859-873.	0.3	26
62	Building and breaking a large igneous province: An example from the High Arctic. <i>Geophysical Research Letters</i> , 2017, 44, 6011-6019.	1.5	25
63	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.	0.8	21
64	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.	0.8	19
65	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.	0.7	16
66	Global Eocene tectonic unrest: Possible causes and effects around the North American plate. <i>Tectonophysics</i> , 2019, 760, 136-151.	0.9	16
67	Microcontinents and Continental Fragments Associated With Subduction Systems. <i>Tectonics</i> , 2020, 39, e2020TC006063.	1.3	16
68	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.	3.3	16
69	Evidence for slab material under Greenland and links to Cretaceous High Arctic magmatism. <i>Geophysical Research Letters</i> , 2016, 43, 3717-3726.	1.5	15
70	Cretaceous ocean formation in the High Arctic. <i>Earth and Planetary Science Letters</i> , 2020, 551, 116552.	1.8	12
71	A tracer-based algorithm for automatic generation of seafloor age grids from plate tectonic reconstructions. <i>Computers and Geosciences</i> , 2020, 140, 104508.	2.0	12
72	Seismic volcanostratigraphy of the NE Greenland continental margin. <i>Geological Society Special Publication</i> , 2017, 447, 149-170.	0.8	11

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73	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.	1.4	10
74	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.	0.1	8
75	The Arctic lithosphere: Thermo-mechanical structure and effective elastic thickness. <i>Global and Planetary Change</i> , 2018, 171, 2-17.	1.6	8
76	A reconnaissance provenance study of Triassic–Jurassic clastic rocks of the Russian Barents Sea. <i>Gff</i> , 2019, 141, 263-271.	0.4	8
77	Testing Early Cretaceous Africa–South America fits with new palaeomagnetic data from the Etendeka Magmatic Province (Namibia). <i>Tectonophysics</i> , 2019, 760, 23-35.	0.9	8
78	New data on the basement of Franz Josef Land, Arctic region. <i>Geotectonics</i> , 2017, 51, 121-130.	0.2	7
79	Circum-Arctic Map Compilation. <i>Eos</i> , 2007, 88, 227.	0.1	3
80	Ridge Jumps and Mantle Exhumation in Back-Arc Basins. <i>Geosciences (Switzerland)</i> , 2021, 11, 475.	1.0	3
81	Seismic Volcanostratigraphy: The Key to Resolving the Jan Mayen Microcontinent and Iceland Plateau Rift Evolution. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	1.0	3
82	Microcontinents. <i>Encyclopedia of Earth Sciences Series</i> , 2020, , 1-5.	0.1	2
83	Magnetic Modeling, Theory and Computation. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 781-792.	0.1	2
84	Seawater chemistry driven by supercontinent assembly, breakup and dispersal: REPLY. <i>Geology</i> , 2014, 42, e335-e335.	2.0	1
85	Magnetic Modeling, Theory, and Computation. <i>Encyclopedia of Earth Sciences Series</i> , 2020, , 1-15.	0.1	1
86	Probabilistic Linear Inversion of Satellite Gravity Gradient Data Applied to the Northeast Atlantic. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB021854.	1.4	1
87	Magnetic Modeling, Theory, and Computation. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 1015-1029.	0.1	0
88	Microcontinents. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 1120-1124.	0.1	0