

# Karen M Marks

## List of Publications by Year in descending order

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33  
papers

2,713  
citations

361296

20  
h-index

395590

33  
g-index

37  
all docs

37  
docs citations

37  
times ranked

3958  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Bathymetry and Elevation Data at 30 Arc Seconds Resolution: SRTM30_PLUS. <i>Marine Geodesy</i> , 2009, 32, 355-371.	0.9	1,168
2	A new digital bathymetric model of the world's oceans. <i>Earth and Space Science</i> , 2015, 2, 331-345.	1.1	651
3	An Evaluation of Publicly Available Global Bathymetry Grids. <i>Marine Geophysical Researches</i> , 2006, 27, 19-34.	0.5	101
4	Gravity fields of the southern ocean from Geosat Data. <i>Journal of Geophysical Research</i> , 1992, 97, 3247-3260.	3.3	82
5	Cretaceous reconstructions of East Antarctica, Africa and Madagascar. <i>Earth and Planetary Science Letters</i> , 2001, 186, 479-495.	1.8	80
6	Scotia Sea tectonics from high-resolution satellite gravity. <i>Earth and Planetary Science Letters</i> , 1994, 123, 255-268.	1.8	77
7	Residual depth anomalies and the origin of the Australian-Antarctic discordance zone. <i>Journal of Geophysical Research</i> , 1990, 95, 17325-17337.	3.3	45
8	An Early Cretaceous extinct spreading center in the northern Natal valley. <i>Tectonophysics</i> , 2002, 347, 87-108.	0.9	42
9	Comparison of GEOSAT and SEASAT Altimeter Resolution Capabilities. <i>Geophysical Research Letters</i> , 1986, 13, 697-700.	1.5	39
10	Resolution of the Scripps/NOAA Marine Gravity Field from satellite altimetry. <i>Geophysical Research Letters</i> , 1996, 23, 2069-2072.	1.5	37
11	Analysis of geoid height versus topography for oceanic plateaus and swells using nonbiased linear regression. <i>Journal of Geophysical Research</i> , 1991, 96, 8045-8055.	3.3	34
12	Mantle downwelling beneath the Australian-Antarctic discordance zone: evidence from geoid height versus topography. <i>Earth and Planetary Science Letters</i> , 1991, 103, 325-338.	1.8	31
13	Variations in ridge morphology and depth-age relationships on the Pacific-Antarctic Ridge. <i>Journal of Geophysical Research</i> , 1994, 99, 531-541.	3.3	27
14	Seafloor in the Malaysia Airlines Flight <sc>MH370</sc> Search Area. <i>Eos</i> , 2014, 95, 173-174.	0.1	27
15	An uncertainty model for deep ocean single beam and multibeam echo sounder data. <i>Marine Geophysical Researches</i> , 2008, 29, 239-250.	0.5	25
16	Mapping the Southwest Indian Ridge with Geosat. <i>Eos</i> , 1993, 74, 81-86.	0.1	24
17	Evolution of the Malvinas Plate South of Africa. <i>Marine Geophysical Researches</i> , 2001, 22, 289-302.	0.5	24
18	The Contributions of Abyssal Hill Morphology and Noise to Altimetric Gravity Fabric. <i>Oceanography</i> , 2004, 17, 24-37.	0.5	24

#	ARTICLE	IF	CITATIONS
19	Evolution of the Australian-Antarctic discordance since Miocene time. <i>Journal of Geophysical Research</i> , 1999, 104, 4967-4981.	3.3	23
20	Evolution of errors in the altimetric bathymetry model used by Google Earth and GEBCO. <i>Marine Geophysical Researches</i> , 2010, 31, 223-238.	0.5	22
21	The SARAL/AltiKa mission: A step forward to the future of altimetry. <i>Advances in Space Research</i> , 2021, 68, 808-828.	1.2	21
22	Radially symmetric coherence between satellite gravity and multibeam bathymetry grids. <i>Marine Geophysical Researches</i> , 2012, 33, 223-227.	0.5	18
23	GEOSAT GM data reveal new details of ocean floor. <i>Eos</i> , 1991, 72, 145-145.	0.1	17
24	Early Tertiary gravity field reconstructions of the Southwest Pacific. <i>Earth and Planetary Science Letters</i> , 1997, 152, 267-274.	1.8	13
25	Some remarks on resolving seamounts in satellite gravity. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	12
26	Resolving marine gravity with ERS-1 satellite altimetry. <i>Geophysical Research Letters</i> , 1992, 19, 2271-2274.	1.5	11
27	Asymmetric seafloor spreading and short ridge jumps in the Australian-Antarctic discordance. <i>Marine Geophysical Researches</i> , 1995, 17, 361-373.	0.5	11
28	Detecting small seamounts in AltiKa repeat cycle data. <i>Marine Geophysical Researches</i> , 2016, 37, 349-359.	0.5	10
29	Significant improvements in marine gravity from ongoing satellite missions. <i>Marine Geophysical Researches</i> , 2013, 34, 137-146.	0.5	8
30	A Method of Stacking AltiKa Repeat Cycle Data that May Reveal 75,000+ Possible Small Seamounts. <i>Earth and Space Science</i> , 2018, 5, 964-969.	1.1	3
31	Airline Flight Paths over the Unmapped Ocean. <i>Eos</i> , 2017, , .	0.1	3
32	Free "Cook Book" for gridding bathymetric data. <i>Eos</i> , 2013, 94, 88-88.	0.1	1
33	Comparison of Stacked Sentinel-3 A&B and AltiKa Repeat Cycle Data. <i>Earth and Space Science</i> , 2022, 9, e2021EA001892.	1.1	0