

Marcia McNutt

List of Publications by Citations

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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.

78
papers

6,565
citations

38
h-index

79
g-index

180
ext. papers

7,695
ext. citations

24.7
avg, IF

6.4
L-index

#	Paper	IF	Citations
78	SCIENTIFIC STANDARDS. Promoting an open research culture. <i>Science</i> , 2015 , 348, 1422-5	33.3	1166
77	The grand challenges of. <i>Science Robotics</i> , 2018 , 3,	18.6	464
76	Review of flow rate estimates of the Deepwater Horizon oil spill. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 20260-7	11.5	374
75	Enhancing reproducibility for computational methods. <i>Science</i> , 2016 , 354, 1240-1241	33.3	185
74	Lithospheric flexure and uplifted atolls. <i>Journal of Geophysical Research</i> , 1978 , 83, 1206		180
73	Constraints on yield strength in the oceanic lithosphere derived from observations of flexure. <i>Geophysical Journal International</i> , 1982 , 71, 363-394	2.6	165
72	Lithospheric extension near Lake Mead, Nevada: A model for ductile flow in the lower crust. <i>Journal of Geophysical Research</i> , 1991 , 96, 4435-4456		149
71	Superswells. <i>Reviews of Geophysics</i> , 1998 , 36, 211-244	23.1	138
70	The superswell and mantle dynamics beneath the South Pacific. <i>Science</i> , 1990 , 248, 969-75	33.3	136
69	Transparency in authors' contributions and responsibilities to promote integrity in scientific publication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 2557-2560	11.5	134
68	Failure of plume theory to explain midplate volcanism in the southern Austral islands. <i>Nature</i> , 1997 , 389, 479-482	50.4	120
67	Implications of regional gravity for state of stress in the Earth's crust and upper mantle. <i>Journal of Geophysical Research</i> , 1980 , 85, 6377-6396		111
66	Science in support of the Deepwater Horizon response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 20212-21	11.5	102
65	Evidence from gravity and topography data for folding of Tibet. <i>Nature</i> , 1994 , 371, 669-674	50.4	102
64	Compensation of oceanic topography: An Application of the Response Function Technique to the Surveyor area. <i>Journal of Geophysical Research</i> , 1979 , 84, 7589-7598		100
63	Applications of science and engineering to quantify and control the Deepwater Horizon oil spill. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 20222-8	11.5	95
62	Evidence for and consequences of thermal rejuvenation. <i>Journal of Geophysical Research</i> , 1982 , 87, 8570		90

61	SCIENTIFIC INTEGRITY. Self-correction in science at work. <i>Science</i> , 2015 , 348, 1420-2	33.3	87
60	Role of subsurface loads and regional compensation in the isostatic balance of the transverse ranges, California: Evidence for intracontinental subduction. <i>Journal of Geophysical Research</i> , 1986 , 91, 6419		82
59	Isostasy in australia and the evolution of the compensation mechanism. <i>Science</i> , 1978 , 199, 773-5	33.3	76
58	Thermal and mechanical properties of the Cape Verde Rise. <i>Journal of Geophysical Research</i> , 1988 , 93, 2784		72
57	Estimating the Compensation Depth of the Hawaiian Swell With Linear Filters. <i>Journal of Geophysical Research</i> , 1986 , 91, 13915		70
56	Influence of plate subduction on isostatic compensation in northern California. <i>Tectonics</i> , 1983 , 2, 399-415		69
55	The origin of the Marquesas fracture zone ridge and its implications for the nature of hot spots. <i>Earth and Planetary Science Letters</i> , 1989 , 91, 381-393	5.3	58
54	A simple proposal for the publication of journal citation distributions		58
53	Crustal structure of the Tuamotu Plateau, 15°S, and implications for its origin. <i>Journal of Geophysical Research</i> , 1995 , 100, 8097-8114		51
52	RESEARCH INTEGRITY. Liberating field science samples and data. <i>Science</i> , 2016 , 351, 1024-6	33.3	47
51	The Darwin Rise: A Cretaceous superswell?. <i>Geophysical Research Letters</i> , 1990 , 17, 1101-1104	4.9	46
50	A shallow, chemical origin for the Marquesas Swell. <i>Geochemistry, Geophysics, Geosystems</i> , 2000 , 1, n/a-n/a		43
49	Volcanism and archipelagic aprons in the Marquesas and Hawaiian Islands. <i>Marine Geophysical Researches</i> , 1994 , 16, 385-406	2.3	41
48	Thermal and mechanical constraints on the lithosphere beneath the Marquesas swell. <i>Nature</i> , 1986 , 322, 733-736	50.4	40
47	Implications of new gravity data for Baikal rift zone structure. <i>Geophysical Research Letters</i> , 1993 , 20, 1635-1638	4.9	36
46	Compensation of Paleozoic orogens: a comparison of the Urals to the Appalachians. <i>Tectonophysics</i> , 1988 , 154, 1-17	3.1	36
45	Geoid anomalies over the Canary Islands Group. <i>Marine Geophysical Researches</i> , 1989 , 11, 77-87	2.3	32
44	Disasters. Scenario-building for the Deepwater Horizon oil spill. <i>Science</i> , 2010 , 329, 1018-9	33.3	31

43	Regional compensation of the Greater Caucasus mountains based on an analysis of Bouguer gravity data. <i>Earth and Planetary Science Letters</i> , 1990 , 98, 360-379	5.3	31
42	Nonuniform magnetization of seamounts: A least squares approach. <i>Journal of Geophysical Research</i> , 1986 , 91, 3686-3700		30
41	Gravity Field over Northern Eurasia and Variations in the Strength of the Upper Mantle. <i>Science</i> , 1993 , 259, 473-9	33.3	29
40	Scientific basis for safely shutting in the Macondo Well after the April 20, 2010 Deepwater Horizon blowout. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 20268-73	11.5	26
39	Fostering reproducibility in industry-academia research. <i>Science</i> , 2017 , 357, 759-761	33.3	25
38	The Geoid: effect of compensated topography and uncompensated oceanic trenches. <i>Geophysical Research Letters</i> , 1982 , 9, 29-32	4.9	24
37	Constraints on thermal and mechanical structure of the oceanic lithosphere at the Bermuda Rise from geoid height and depth anomalies. <i>Earth and Planetary Science Letters</i> , 1989 , 93, 377-391	5.3	22
36	A near-bottom geophysical traverse of the Reykjanes Ridge. <i>Earth and Planetary Science Letters</i> , 1978 , 39, 75-83	5.3	21
35	Opinion: "Plan S" falls short for society publishers-and for the researchers they serve. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 2400-2403	11.5	20
34	Paleomagnetism of northern Cocos seamounts: Constraints on absolute plate motion. <i>Geology</i> , 1981 , 9, 148	5	17
33	Temperature Beneath Midplate Swells: The Inverse Problem. <i>Geophysical Monograph Series</i> , 2013 , 123-132		16
32	Signaling the trustworthiness of science. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 19231-19236	11.5	16
31	Modal depths from shipboard bathymetry: There is a south pacific superswell. <i>Geophysical Research Letters</i> , 1996 , 23, 3397-3400	4.9	15
30	Southern California uplift: is it or isn't it?*. <i>Eos</i> , 1981 , 62, 97	1.5	15
29	Lithospheric stress and deformation. <i>Reviews of Geophysics</i> , 1987 , 25, 1245	23.1	13
28	Climate Intervention: Possible Impacts on Global Security and Resilience. <i>Engineering</i> , 2016 , 2, 50-51	9.7	13
27	Geophysics. Another nail in the plume coffin?. <i>Science</i> , 2006 , 313, 1394-5	33.3	12
26	Marine geodynamics: Depth-age revisited. <i>Reviews of Geophysics</i> , 1995 , 33, 413	23.1	10

25	Shear strength of the Great Pacific Fracture Zones. <i>Geophysical Research Letters</i> , 1992 , 19, 2023-2026	4.9	10
24	Extremal bounds on geotherms in eroding mountain belts from metamorphic pressure-temperature conditions. <i>Geophysical Journal International</i> , 1987 , 88, 81-95	2.6	10
23	Reply [to Comments on Lithospheric flexure and uplifted atolls] <i>Journal of Geophysical Research</i> , 1979 , 84, 5695		10
22	Making Science Transparent By Default; Introducing the TOP Statement		9
21	Academies' action plan for germline editing. <i>Nature</i> , 2019 , 567, 175	50.4	7
20	The effects of changes in plate motions on the shape of the Marquesas Fracture Zone. <i>Geophysical Research Letters</i> , 1994 , 21, 2845-2848	4.9	7
19	OCEAN POLICY Black Swans, Wicked Problems, and Science During Crises. <i>Oceanography</i> , 2011 , 24, 318-320	2.3	7
18	Transparency in Authors' Contributions and Responsibilities to Promote Integrity in Scientific Publication		7
17	Yellowstone: A continental midplate (hot spot) swell. <i>Geophysical Research Letters</i> , 1994 , 21, 1703-1706	4.9	6
16	Editorial expression of concern. <i>Science</i> , 2014 , 344, 1460	33.3	5
15	Pacific-Farallon relative motion 42-59 Ma determined from magnetic and tectonic data from the Southern Austral Islands. <i>Geophysical Research Letters</i> , 1998 , 25, 2869-2872	4.9	4
14	Overdue: a US advisory board for research integrity. <i>Nature</i> , 2019 , 566, 173-175	50.4	3
13	Science stands by 2009 fisheries study. <i>Science</i> , 2016 , 353, 131	33.3	3
12	Editorial retraction. <i>Science</i> , 2016 , 351, 569	33.3	2
11	HIV cover ill-advised--response. <i>Science</i> , 2014 , 345, 739	33.3	2
10	Results of the Basin and Range Geoscientific Experiment (BARGE): A marine-style seismic reflection survey across the eastern boundary of the central Basin and Range Province. <i>Geochemistry, Geophysics, Geosystems</i> , 2000 , 1, n/a-n/a	3.6	2
9	Promoting diversity and inclusion in STEMM starts at the top. <i>Nature Medicine</i> , 2021 , 27, 1864-1865	50.5	2
8	Reply to Kiley and Smits: Meeting Plan S's goal of maximizing access to research. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 5861	11.5	1

7	Mapping the seafloor from space. <i>Endeavour</i> , 1996 , 20, 157-161	0.5	1
6	Fast horses. <i>Science</i> , 2016 , 352, 1497-1497	33.3	
5	Editorial expression of concern. <i>Science</i> , 2016 , 351, 348	33.3	
4	Happy Birthday Science Advances!. <i>Science Advances</i> , 2015 , 1, e1500088	14.3	
3	Publication timeliness. <i>Eos</i> , 2001 , 82, 297-297	1.5	
2	Oceanic Island Evolution: Islands . H. W. Menard. Scientific American Books, New York, 1987. xvi, 230 pp., illus. \$32.95. Scientific American Library, vol. 17.. <i>Science</i> , 1988 , 239, 513-513	33.3	
1	Reply to Kornfeld and Titus: No distraction from misconduct. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 42	11.5	