Marcia McNutt

List of Publications by Year
in descending order

167 papers	8,649 citations	87723 38 h-index	48187 88 g-index
180 all docs	180 docs citations	180 times ranked	11625 citing authors

#	Article	IF	Citations
1	Promoting an open research culture. Science, 2015, 348, 1422-1425.	6.0	1,688
2	The grand challenges of Science Robotics. Science Robotics, 2018, 3, .	9.9	787
3	Review of flow rate estimates of the Deepwater Horizon oil spill. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20260-20267.	3.3	458
4	Combating COVID-19â€"The role of robotics in managing public health and infectious diseases. Science Robotics, 2020, 5, .	9.9	393
5	Enhancing reproducibility for computational methods. Science, 2016, 354, 1240-1241.	6.0	259
6	Transparency in authorsâ€™ contributions and responsibilities to promote integrity in scientific publication. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2557-2560.	3.3	233
7	Journals unite for reproducibility. Science, 2014, 346, 679-679.	6.0	226
8	Reproducibility. Science, 2014, 343, 229-229.	6.0	219
9	Lithospheric flexure and uplifted atolls. Journal of Geophysical Research, 1978, 83, 1206-1212.	3.3	207
10	Mercury and Health. Science, 2013, 341, 1430-1430.	6.0	183
11	Constraints on yield strength in the oceanic lithosphere derived from observations of flexure. Geophysical Journal International, 1982, 71, 363-394.	1.0	181
12	Lithospheric extension near Lake Mead, Nevada: A model for ductile flow in the lower crust. Journal of Geophysical Research, 1991, 96, 4435-4456.	3.3	167
13	The Superswell and Mantle Dynamics Beneath the South Pacific. Science, 1990, 248, 969-975.	6.0	149
14	Superswells. Reviews of Geophysics, 1998, 36, 211-244.	9.0	146
15	Failure of plume theory to explain midplate volcanism in the southern Austral islands. Nature, 1997, 389, 479-482.	13.7	140
16	Implications of regional gravity for state of stress in the Earth's crust and upper mantle. Journal of Geophysical Research, 1980, 85, 6377-6396.	3.3	124
17	Science in support of the Deepwater Horizon response. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20212-20221.	3.3	124
18	Applications of science and engineering to quantify and control the Deepwater Horizon oil spill. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20222-20228.	3.3	117

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19	Cancer Immunotherapy. Science, 2013, 342, 1417-1417.	6.0	114
20	Evidence from gravity and topography data for folding of Tibet. Nature, 1994, 371, 669-674.	13.7	108
21	Compensation of oceanic topography: An Application of the Response Function Technique to the Surveyor area. Journal of Geophysical Research, 1979, 84, 7589-7598.	3.3	107
22	Self-correction in science at work. Science, 2015, 348, 1420-1422.	6.0	104
23	Climate Change Impacts. Science, 2013, 341, 435-435.	6.0	99
24	Evidence for and consequences of thermal rejuvenation. Journal of Geophysical Research, 1982, 87, 8570-8580.	3.3	90
25	Role of subsurface loads and regional compensation in the isostatic balance of the transverse ranges, California: Evidence for intracontinental subduction. Journal of Geophysical Research, 1986, 91, 6419-6431.	3.3	85
26	Isostasy in Australia and the Evolution of the Compensation Mechanism. Science, 1978, 199, 773-775.	6.0	81
27	Thermal and mechanical properties of the Cape Verde Rise. Journal of Geophysical Research, 1988, 93, 2784-2794.	3.3	80
28	Influence of plate subduction on isostatic compensation in northern California. Tectonics, 1983, 2, 399-415.	1.3	75
29	Estimating the Compensation Depth of the Hawaiian Swell With Linear Filters. Journal of Geophysical Research, 1986, 91, 13915-13923.	3.3	75
30	The origin of the Marquesas fracture zone ridge and its implications for the nature of hot spots. Earth and Planetary Science Letters, 1989, 91, 381-393.	1.8	68
31	Liberating field science samples and data. Science, 2016, 351, 1024-1026.	6.0	62
32	Crustal structure of the Tuamotu Plateau, 15Â°S, and implications for its origin. Journal of Geophysical Research, 1995, 100, 8097-8114.	3.3	61
33	Editorial expression of concern. Science, 2015, 348, 1100-1100.	6.0	56
34	A shallow, chemical origin for the Marquesas Swell. Geochemistry, Geophysics, Geosystems, 2000, 1, n/a-n/a.	1.0	54
35	The Darwin Rise: A Cretaceous superswell?. Geophysical Research Letters, 1990, 17, 1101-1104.	1.5	51
36	Volcanism and archipelagic aprons in the Marquesas and Hawaiian Islands. Marine Geophysical Researches, 1994, 16, 385-406.	0.5	47

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37	Thermal and mechanical constraints on the lithosphere beneath the Marquesas swell. Nature, 1986, 322, 733-736.	13.7	41
38	Compensation of Paleozoic orogens: a comparison of the Urals to the Appalachians. Tectonophysics, 1988, 154, 1-17.	0.9	39
39	Taking up TOP. Science, 2016, 352, 1147-1147.	6.0	39
40	Nonuniform magnetization of seamounts: A least squares approach. Journal of Geophysical Research, 1986, 91, 3686-3700.	3.3	37
41	Regional compensation of the Greater Caucasus mountains based on an analysis of Bouguer gravity data. Earth and Planetary Science Letters, 1990, 98, 360-379.	1.8	36
42	Implications of new gravity data for Baikal rift zone structure. Geophysical Research Letters, 1993, 20, 1635-1638.	1.5	36
43	Geoid anomalies over the Canary Islands Group. Marine Geophysical Researches, 1989, 11, 77-87.	0.5	35
44	Scientific basis for safely shutting in the Macondo Well after the April 20, 2010Deepwater Horizonblowout. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20268-20273.	3.3	35
45	Signaling the trustworthiness of science. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19231-19236.	3.3	35
46	Scenario-Building for the Deepwater Horizon Oil Spill. Science, 2010, 329, 1018-1019.	6.0	34
47	Raising the bar. Science, 2014, 345, 9-9.	6.0	32
48	Time's up, CO ₂. Science, 2019, 365, 411-411.	6.0	32
49	Gravity Field over Northern Eurasia and Variations in the Strength of the Upper Mantle. Science, 1993, 259, 473-479.	6.0	31
50	Opinion: â€œPlan Sâ€•falls short for society publishersâ€”and for the researchers they serve. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2400-2403.	3.3	29
51	Fostering reproducibility in industry-academia research. Science, 2017, 357, 759-761.	6.0	28
52	The Geoid: effect of compensated topography and uncompensated oceanic trenches. Geophysical Research Letters, 1982, 9, 29-32.	1.5	26
53	Leveling the Playing Field. Science, 2013, 341, 317-317.	6.0	25
54	The measure of research merit. Science, 2014, 346, 1155-1155.	6.0	24

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55	A community for disaster science. Science, 2015, 348, 11-11.	6.0	24
56	Constraints on thermal and mechanical structure of the oceanic lithosphere at the Bermuda Rise from geoid height and depth anomalies. Earth and Planetary Science Letters, 1989, 93, 377-391.	1.8	23
57	Breakthrough to genome editing. Science, 2015, 350, 1445-1445.	6.0	23
58	Wake-up call from Hong Kong. Science, 2018, 362, 1215-1215.	6.0	23
59	A near-bottom geophysical traverse of the Reykjanes Ridge. Earth and Planetary Science Letters, 1978, 39, 75-83.	1.8	22
60	Improving Scientific Communication. Science, 2013, 342, 13-13.	6.0	22
61	My love-hate of Sci-Hub. Science, 2016, 352, 497-497.	6.0	22
62	Modal depths from shipboard bathymetry: There is a south pacific superswell. Geophysical Research Letters, 1996, 23, 3397-3400.	1.5	21
63	The drought you can't see. Science, 2014, 345, 1543-1543.	6.0	20
64	Climate Intervention: Possible Impacts on Global Security and Resilience. Engineering, 2016, 2, 50-51.	3.2	20
65	Paleomagnetism of northern Cocos seamounts: Constraints on absolute plate motion. Geology, 1981, 9, 148.	2.0	18
66	Temperature Beneath Midplate Swells: The Inverse Problem. Geophysical Monograph Series, 0, , 123-132.	0.1	17
67	Southern California upliftâ€"Is it or isn't it?*. Eos, 1981, 62, 97.	0.1	16
68	The hunt for MH370. Science, 2014, 344, 947-947.	6.0	15
69	The beyond-two-degree inferno. Science, 2015, 349, 7-7.	6.0	15
70	Lithospheric stress and deformation. Reviews of Geophysics, 1987, 25, 1245-1253.	9.0	14
71	Another Nail in the Plume Coffin?. Science, 2006, 313, 1394-1395.	6.0	14
72	Academiesâ€™ action plan for germline editing. Nature, 2019, 567, 175-175.	13.7	14

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73	Scientists in the line of fire. Science, 2022, 375, 1071-1071.	6.0	14
74	Flexure reveals great depth. Nature, 1990, 343, 596-597.	13.7	13
75	Shear strength of the Great Pacific Fracture Zones. Geophysical Research Letters, 1992, 19, 2023-2026.	1.5	12
76	#IAmAResearchParasite. Science, 2016, 351, 1005-1005.	6.0	12
77	Basis of the coherence technique. Nature, 1990, 343, 596-596.	13.7	11
78	Marine geodynamics: Depth-age revisited. Reviews of Geophysics, 1995, 33, 413.	9.0	11
79	Implicit bias. Science, 2016, 352, 1035-1035.	6.0	11
80	Reply [to â€œComments on â€˜Lithospheric flexure and uplifted atollsâ€™â€œ[. Journal of Geophysical Research, 1979, 84, 5695-5697.	3.3	10
81	Extremal bounds on geotherms in eroding mountain belts from metamorphic pressure-temperature conditions. Geophysical Journal International, 1987, 88, 81-95.	1.0	10
82	Climate warning, 50 years later. Science, 2015, 350, 721-721.	6.0	9
83	Overdue: a US advisory board for research integrity. Nature, 2019, 566, 173-175.	13.7	9
84	Data, eternal. Science, 2015, 347, 7-7.	6.0	8
85	The effects of changes in plate motions on the shape of the Marquesas Fracture Zone. Geophysical Research Letters, 1994, 21, 2845-2848.	1.5	7
86	Bricks and MOOCs. Science, 2013, 342, 402-402.	6.0	7
87	Parks for science. Science, 2015, 348, 1291-1291.	6.0	7
88	Preparing for the next Katrina. Science, 2015, 349, 905-905.	6.0	7
89	OCEAN POLICY | Black Swans, Wicked Problems, and Science During Crises. Oceanography, 2011, 24, 318-320.	0.5	7
90	A future for Ukrainian science. Science, 2022, 376, 1249-1249.	6.0	7

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91	Yellowstone: A continental midplate (hot spot) swell. Geophysical Research Letters, 1994, 21, 1703-1706.	1.5	6
92	The Pope tackles sustainability. Science, 2014, 345, 1429-1429.	6.0	6
93	Ignorance is not an option. Science, 2015, 347, 1293-1293.	6.0	6
94	Give women an even chance. Science, 2015, 348, 611-611.	6.0	6
95	Deep causes of hotspots. Nature, 1990, 346, 701-702.	13.7	5
96	Preparing for Disasters. Science, 2013, 341, 592-592.	6.0	5
97	No Windfall for U.S. Science. Science, 2014, 343, 6-6.	6.0	5
98	Editorial expression of concern. Science, 2014, 344, 1460-1460.	6.0	5
99	Data sharing. Science, 2016, 351, 1007-1007.	6.0	5
100	Mapping the seafloor from space. Endeavour, 1996, 20, 157-161.	0.1	4
101	Pacific-Farallon relative motion 42-59 Ma determined from magnetic and tectonic data from the Southern Austral Islands. Geophysical Research Letters, 1998, 25, 2869-2872.	1.5	4
102	Due process in the Twitter age. Science, 2016, 352, 387-387.	6.0	4
103	Hazards without disasters. Science, 2016, 353, 201-201.	6.0	4
104	Lessons from the crucible of crisis. Science, 2020, 368, 683-683.	6.0	4
105	The Strategic Council for Research Excellence, Integrity, and Trust. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	4
106	Promoting diversity and inclusion in STEMM starts at the top. Nature Medicine, 2021, 27, 1864-1865.	15.2	4
107	The 5-billion-dollar bumps. Nature, 1996, 379, 300-301.	13.7	3
108	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. Geochemistry, Geophysics, Geosystems, 2000, 1, n/a-n/a.	1.0	3

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109	Science Demystified. Science, 2013, 342, 289-289.	6.0	3
110	Accelerating Ocean Exploration. Science, 2013, 341, 937-937.	6.0	3
111	Oceans and Earth's habitability. Science, 2015, 348, 841-841.	6.0	3
112	It starts with a poster. Science, 2015, 347, 1047-1047.	6.0	3
113	Science stands by 2009 fisheries study. Science, 2016, 353, 131-131.	6.0	3
114	Science and equality of opportunity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16090-16091.	3.3	3
115	Ocean Exploration. Oceanography, 2002, 15, 112-121.	0.5	3
116	Passing the Baton. Science, 2013, 340, 1141-1141.	6.0	2
117	The Science of Sustainability. Science, 2013, 340, 1499-1499.	6.0	2
118	More Science in the Classroom. Science, 2014, 346, 895-895.	6.0	2
119	HIV cover ill-advisedâ€"Response. Science, 2014, 345, 739-739.	6.0	2
120	Be one of the first. Science, 2014, 345, 1427-1427.	6.0	2
121	Integrityâ€"not just a federal issue. Science, 2015, 347, 1397-1397.	6.0	2
122	Editorial retraction. Science, 2016, 351, 569-569.	6.0	2
123	Robotics takes off. Science, 2016, 352, 1255-1255.	6.0	2
124	Research integrity revisited. Science, 2017, 356, 115-115.	6.0	2
125	Meanwhile, back â€œAt the National Academiesâ€• Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3343-3344.	3.3	2
126	Five years of Science Robotics. Science Robotics, 2021, 6, eabn2720.	9.9	2

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127	Bridge or Crutch?. Science, 2013, 342, 909-909.	6.0	1
128	Risk. Science, 2013, 341, 109-109.	6.0	1
129	Li and Me. Science, 2014, 344, 127-127.	6.0	1
130	Keystone XL. Science, 2014, 343, 815-815.	6.0	1
131	Think Outside the Lab. Science, 2014, 344, 672-672.	6.0	1
132	A new look. Science, 2014, 344, 781-781.	6.0	1
133	Science Advances. Science, 2014, 343, 709-709.	6.0	1
134	Science for lasting peace. Science, 2014, 345, 715-715.	6.0	1
135	Editorial expression of concern. Science, 2015, 350, 1482-1482.	6.0	1
136	New members of the family. Science, 2016, 351, 7-7.	6.0	1
137	Economics of public safety. Science, 2016, 351, 641-641.	6.0	1
138	Reply to Kiley and Smits: Meeting Plan Sâ€™s goal of maximizing access to research. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5861-5861.	3.3	1
139	Reply to Kornfeld and Titus: No distraction from misconduct. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 42-42.	3.3	1
140	Women in Oceanography: 20 Years of Progress, Change, and Challenge. Oceanography, 2008, 21, 38-43.	0.5	1
141	The U.S. Commission on Ocean Policy: Why You Should Care, and What You Can Do. Oceanography, 2004, 17, 6-11.	0.5	1
142	Earth sciences: Calculating continental strength from thermal history. Nature, 1985, 316, 109-109.	13.7	0
143	Editorial: Combatting the information explosion. Eos, 1991, 72, 546-546.	0.1	0
144	The new "excess page fee" policy. Eos, 1992, 73, 153-153.	0.1	0

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145	How many volunteers does it take to run AGU?. Eos, 1999, 80, 573.	0.1	0
146	Publication timeliness. Eos, 2001, 82, 297-297.	0.1	0
147	Two Case Studies of Collaborations Between Aquariums and Research Institutions in Exploration and Education. Marine Technology Society Journal, 2001, 35, 76-85.	0.3	0
148	Comment: A year on the job, she takes pride in disaster response. Science News, 2010, 178, 32-32.	0.1	0
149	What Awaits the New NSF Director. Science, 2013, 342, 1145-1145.	6.0	0
150	Shutdown!. Science, 2013, 342, 161-161.	6.0	0
151	Exxon Valdez : 25 Years Later. Science, 2014, 343, 1289-1289.	6.0	0
152	The New Patrons of Research. Science, 2014, 344, 9-9.	6.0	0
153	Five Years of Advancing Science, Improving Health. Science Translational Medicine, 2014, 6, 257ed20.	5.8	0
154	Breakthrough to our origins. Science, 2014, 346, 1433-1433.	6.0	0
155	Five years of translation. Science, 2014, 346, 145-145.	6.0	0
156	Happy Birthday Science Advances !. Science Advances, 2015, 1, e1500088.	4.7	0
157	Editor's note. Science, 2015, 348, 1100-1100.	6.0	0
158	Whither (wither?) tenure?. Science, 2015, 350, 1295-1295.	6.0	0
159	Engaging new scientific horizons. Science, 2015, 349, 121-121.	6.0	0
160	Passion is just the start. Science, 2015, 349, 217-217.	6.0	0
161	Fast horses. Science, 2016, 352, 1497-1497.	6.0	0
162	Editorial expression of concern. Science, 2016, 351, 348-348.	6.0	0

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163	PREview of new products. Science, 2016, 351, 1119-1119.	6.0	0
164	Societies can combat harassment. Science, 2016, 351, 791-791.	6.0	0
165	Frank Press (1924â€“2020). Science, 2020, 367, 1077-1077.	6.0	0
166	Oceanic Island Evolution: Islands . H. W. Menard. Scientific American Books, New York, 1987. xvi, 230 pp., illus. $32.95. Scientific American Library, vol. 17.. Science, 1988, 239, 513-513.	6.0	0
167	The Fine Art of Scientific Advocacy: A Tribute to Tom Lovejoy. Science Advances, 2022, 8, eabn9704.	4.7	0