

# Maria Seton

## 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.

75  
papers

8,228  
citations

39  
h-index

80  
g-index

80  
ext. papers

9,672  
ext. citations

7.1  
avg, IF

6.07  
L-index

#	Paper	IF	Citations
75	Age, spreading rates, and spreading asymmetry of the world's ocean crust. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2008</b> , 9, n/a-n/a	3.6	1255
74	Global continental and ocean basin reconstructions since 200Ma. <i>Earth-Science Reviews</i> , <b>2012</b> , 113, 212-270	10.2	1184
73	Ocean Basin Evolution and Global-Scale Plate Reorganization Events Since Pangea Breakup. <i>Annual Review of Earth and Planetary Sciences</i> , <b>2016</b> , 44, 107-138	15.3	518
72	Long-term sea-level fluctuations driven by ocean basin dynamics. <i>Science</i> , <b>2008</b> , 319, 1357-62	33.3	508
71	Global plate boundary evolution and kinematics since the late Paleozoic. <i>Global and Planetary Change</i> , <b>2016</b> , 146, 226-250	4.2	389
70	Catastrophic initiation of subduction following forced convergence across fracture zones. <i>Earth and Planetary Science Letters</i> , <b>2003</b> , 212, 15-30	5.3	314
69	Controls on back-arc basin formation. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2006</b> , 7, n/a-n/a	3.6	250
68	GPlates: Building a Virtual Earth Through Deep Time. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2018</b> , 19, 2243-2261	3.6	227
67	The role of oceanic plateau subduction in the Laramide orogeny. <i>Nature Geoscience</i> , <b>2010</b> , 3, 353-357	18.3	224
66	Major Australian-Antarctic plate reorganization at Hawaiian-Emperor bend time. <i>Science</i> , <b>2007</b> , 318, 83-86	33.3	218
65	Plate tectonic reconstructions with continuously closing plates. <i>Computers and Geosciences</i> , <b>2012</b> , 38, 35-42	4.5	185
64	The Cretaceous and Cenozoic tectonic evolution of Southeast Asia. <i>Solid Earth</i> , <b>2014</b> , 5, 227-273	3.3	172
63	A Global Plate Model Including Lithospheric Deformation Along Major Rifts and Orogens Since the Triassic. <i>Tectonics</i> , <b>2019</b> , 38, 1884-1907	4.3	163
62	Zealandia: Earth's Hidden Continent. <i>GSA Today</i> , <b>2017</b> , 27-35	2.8	142
61	A global-scale plate reorganization event at 105-100Ma. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 355-356, 283-298	5.3	132
60	The tectonic evolution of the Arctic since Pangea breakup: Integrating constraints from surface geology and geophysics with mantle structure. <i>Earth-Science Reviews</i> , <b>2013</b> , 124, 148-183	10.2	119
59	An expression of Philippine Sea plate rotation: the Parece Vela and Shikoku Basins. <i>Tectonophysics</i> , <b>2004</b> , 394, 69-86	3.1	118

58	Ridge subduction sparked reorganization of the Pacific plate-mantle system 6050 million years ago. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 1732-1740	4.9	116
57	Lower mantle structure from paleogeographically constrained dynamic Earth models. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2013</b> , 14, 44-63	3.6	109
56	Tectonic evolution and deep mantle structure of the eastern Tethys since the latest Jurassic. <i>Earth-Science Reviews</i> , <b>2016</b> , 162, 293-337	10.2	98
55	Mid-Cretaceous seafloor spreading pulse: Fact or fiction?. <i>Geology</i> , <b>2009</b> , 37, 687-690	5	92
54	Subduction controls the distribution and fragmentation of Earth's tectonic plates. <i>Nature</i> , <b>2016</b> , 535, 140-3	50.4	85
53	Topographic asymmetry of the South Atlantic from global models of mantle flow and lithospheric stretching. <i>Earth and Planetary Science Letters</i> , <b>2014</b> , 387, 107-119	5.3	78
52	Tectonic speed limits from plate kinematic reconstructions. <i>Earth and Planetary Science Letters</i> , <b>2015</b> , 418, 40-52	5.3	77
51	Geological, tomographic, kinematic and geodynamic constraints on the dynamics of sinking slabs. <i>Journal of Geodynamics</i> , <b>2014</b> , 73, 1-13	2.2	73
50	Modeling the Miocene climatic optimum: Ocean circulation. <i>Paleoceanography</i> , <b>2012</b> , 27, n/a-n/a		72
49	Community infrastructure and repository for marine magnetic identifications. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2014</b> , 15, 1629-1641	3.6	71
48	Geologic and kinematic constraints on Late Cretaceous to mid Eocene plate boundaries in the southwest Pacific. <i>Earth-Science Reviews</i> , <b>2015</b> , 140, 72-107	10.2	66
47	Long-term interaction between mid-ocean ridges and mantle plumes. <i>Nature Geoscience</i> , <b>2015</b> , 8, 479-483	3.3	61
46	Reconstructing Ontong Java Nui: Implications for Pacific absolute plate motion, hotspot drift and true polar wander. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 331-332, 140-151	5.3	61
45	Sunda-Java trench kinematics, slab window formation and overriding plate deformation since the Cretaceous. <i>Earth and Planetary Science Letters</i> , <b>2007</b> , 255, 445-457	5.3	61
44	Insights on the kinematics of the India-Eurasia collision from global geodynamic models. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2012</b> , 13, n/a-n/a	3.6	60
43	Middle Miocene tectonic boundary conditions for use in climate models. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2008</b> , 9, n/a-n/a	3.6	60
42	The Late Cretaceous to recent tectonic history of the Pacific Ocean basin. <i>Earth-Science Reviews</i> , <b>2016</b> , 154, 138-173	10.2	58
41	Towards community-driven paleogeographic reconstructions: integrating open-access paleogeographic and paleobiology data with plate tectonics. <i>Biogeosciences</i> , <b>2013</b> , 10, 1529-1541	4.6	50

40	Early to Middle Miocene monsoon climate in Australia. <i>Geology</i> , <b>2011</b> , 39, 3-6	5	45
39	Convergence of tectonic reconstructions and mantle convection models for significant fluctuations in seafloor spreading. <i>Earth and Planetary Science Letters</i> , <b>2013</b> , 383, 92-100	5.3	42
38	A suite of early Eocene (~ 55 Ma) climate model boundary conditions. <i>Geoscientific Model Development</i> , <b>2014</b> , 7, 2077-2090	6.3	42
37	A reconstruction of the North Atlantic since the earliest Jurassic. <i>Basin Research</i> , <b>2018</b> , 30, 160-185	3.2	39
36	Seawater chemistry driven by supercontinent assembly, breakup, and dispersal. <i>Geology</i> , <b>2013</b> , 41, 907-910	3.9	39
35	Signatures of downgoing plate-buoyancy driven subduction in Cenozoic plate motions. <i>Physics of the Earth and Planetary Interiors</i> , <b>2011</b> , 184, 1-13	2.3	37
34	Enigmatic formation of the Norfolk Basin, SW Pacific: A plume influence on back-arc extension. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2004</b> , 5,	3.6	36
33	A Global Data Set of Present-Day Oceanic Crustal Age and Seafloor Spreading Parameters. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2020</b> , 21, e2020GC009214	3.6	36
32	The GPlates Portal: Cloud-Based Interactive 3D Visualization of Global Geophysical and Geological Data in a Web Browser. <i>PLoS ONE</i> , <b>2016</b> , 11, e0150883	3.7	33
31	Climate model sensitivity to atmospheric CO <sub>2</sub> concentrations for the middle Miocene. <i>Global and Planetary Change</i> , <b>2009</b> , 67, 129-140	4.2	31
30	Organization of the tectonic plates in the last 200Myr. <i>Earth and Planetary Science Letters</i> , <b>2013</b> , 373, 93-101	5.3	29
29	Circum-Arctic mantle structure and long-wavelength topography since the Jurassic. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2014</b> , 119, 7889-7908	3.6	28
28	Revision of Paleogene plate motions in the Pacific and implications for the Hawaiian-Emperor bend. <i>Geology</i> , <b>2015</b> , 43, 455-458	5	26
27	Tectonic evolution of Western Tethys from Jurassic to present day: coupling geological and geophysical data with seismic tomography models. <i>International Geology Review</i> , <b>2016</b> , 58, 1616-1645	2.3	25
26	Regional volcanism of northern Zealandia: post-Gondwana break-up magmatism on an extended, submerged continent. <i>Geological Society Special Publication</i> , <b>2018</b> , 463, 199-226	1.7	24
25	Tectonic evolution of the southwest Pacific using constraints from backarc basins <b>2003</b> ,		24
24	Climate model sensitivity to changes in Miocene paleotopography. <i>Australian Journal of Earth Sciences</i> , <b>2009</b> , 56, 1049-1059	1.4	23
23	Melanesian back-arc basin and arc development: Constraints from the eastern Coral Sea. <i>Gondwana Research</i> , <b>2016</b> , 39, 77-95	5.1	22

22	Large fluctuations of shallow seas in low-lying Southeast Asia driven by mantle flow. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2016</b> , 17, 3589-3607	3.6	21
21	Comparing early to middle Miocene terrestrial climate simulations with geological data <b>2010</b> , 6, 952-961		20
20	Sea-level fluctuations driven by changes in global ocean basin volume following supercontinent break-up. <i>Earth-Science Reviews</i> , <b>2020</b> , 208, 103293	10.2	18
19	Kinematics and extent of the Piemont-Liguria Basin –Implications for subduction processes in the Alps. <i>Solid Earth</i> , <b>2021</b> , 12, 885-913	3.3	17
18	A Quantitative Tomotectonic Plate Reconstruction of Western North America and the Eastern Pacific Basin. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2020</b> , 21, e2020GC009117	3.6	16
17	Geodynamic reconstruction of an accreted Cretaceous back-arc basin in the Northern Andes. <i>Journal of Geodynamics</i> , <b>2018</b> , 121, 115-132	2.2	16
16	Intraplate volcanism triggered by bursts in slab flux. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	14
15	Chapter 2 Geodynamics of the SW Pacific: a brief review and relations with New Caledonian geology. <i>Geological Society Memoir</i> , <b>2020</b> , 51, 13-26	0.4	11
14	No Change in Southern Ocean Circulation in the Indian Ocean From the Eocene Through Late Oligocene. <i>Paleoceanography and Paleoclimatology</i> , <b>2018</b> , 33, 152-167	3.3	11
13	Magma production along the Lord Howe Seamount Chain, northern Zealandia. <i>Geological Magazine</i> , <b>2019</b> , 156, 1605-1617	2	5
12	Kinematic and geodynamic evolution of the Isthmus of Panama region: Implications for Central American Seaway closure. <i>Bulletin of the Geological Society of America</i> , <b>2021</b> , 133, 867-884	3.9	4
11	Early to middle Miocene monsoon climate in Australia: REPLY. <i>Geology</i> , <b>2012</b> , 40, e274-e274	5	3
10	Kinematics and extent of the Piemont-Liguria Basin –Implications for subduction processes in the Alps		2
9	Revision of Paleogene plate motions in the Pacific and implications for the Hawaiian-Emperor bend: REPLY. <i>Geology</i> , <b>2016</b> , 44, e385-e385	5	1
8	Eocene nephelinite and basanite from the Fairway Ridge, North Zealandia. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2019</b> , 152, 103101	2.5	1
7	Seawater chemistry driven by supercontinent assembly, breakup and dispersal: REPLY. <i>Geology</i> , <b>2014</b> , 42, e335-e335	5	1
6	Tectonics and geodynamics of the eastern Tethys and northern Gondwana since the Jurassic. <i>ASEG Extended Abstracts</i> , <b>2018</b> , 2018, 1-6	0.2	1
5	Plate Motion <b>2014</b> , 1-10		0

- 4 Geophysical and geological characterisation of dredge locations from RV Southern Surveyor voyage ss2012\_v06 (ECOSATI): hotspot activity in northern Zealandia. *ASEG Extended Abstracts*, **2018**, 2018, 1-8 <sup>0.2</sup>
- 3 Scientific Drilling in the Southwest Pacific Ocean. *Eos*, **2013**, 94, 101-101 1.5
- 2 Exploring new drilling prospects in the southwest Pacific. *Scientific Drilling*, 17, 45-50
- 1 Reflections on solid Earth research. *Nature Reviews Earth & Environment*, **2021**, 2, 21-25 30.2