Joanne M Whittaker

List of Publications by Year
in descending order

60	3,519	156536 32	156644 58
papers	citations	h-index	g-index

64	64	64	3693
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Longest continuously erupting large igneous province driven by plume-ridge interaction. Geology, 2021, 49, 206-210.	2.0	32
2	Antarctic Geothermal Heat Flow Model: Aq1. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009428.	1.0	23
3	Kinematics of Footwall Exhumation at Oceanic Detachment faults: Solidâ€Block Rotation and Apparent Unbending. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009681.	1.0	12
4	Provenance of Upper Jurassicâ€“Lower Cretaceous strata in the Mentelle Basin, southwestern Australia, reveals a trans-Gondwanan fluvial pathway. Gondwana Research, 2021, 93, 128-141.	3.0	7
5	Mantle plumes and their role in Earth processes. Nature Reviews Earth & Environment, 2021, 2, 382-401.	12.2	78
6	Microcontinents. Encyclopedia of Earth Sciences Series, 2021, , 1120-1124.	0.1	0
7	Gateway-driven weakening of ocean gyres leads to Southern Ocean cooling. Nature Communications, 2021, 12, 6465.	5.8	32
8	Submarine sedimentary bedforms and benthos surrounding the Heard and McDonald Islands World Heritage site. , 2020, , 705-720.		0
9	Shallow Seafloor Gas emissions Near Heard and McDonald Islands on the Kerguelen Plateau, Southern Indian Ocean. Earth and Space Science, 2020, 7, e2019EA000695.	1.1	4
10	The Antarctic Crust and Upper Mantle: A Flexible 3D Model and Software Framework for Interdisciplinary Research. Frontiers in Earth Science, 2020, 8, .	0.8	8
11	Pangea Rifting Shaped the East Antarctic Landscape. Tectonics, 2020, 39, e2020TC006180.	1.3	8
12	A Global Data Set of Presentâ€Day Oceanic Crustal Age and Seafloor Spreading Parameters. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009214.	1.0	133
13	Revisiting the Australianâ€Antarctic Oceanâ€Continent Transition Zone Using Petrological and Geophysical Characterization of Exhumed Subcontinental Mantle. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009040.	1.0	5
14	The Evolving Paleobathymetry of the Circumâ€Antarctic Southern Ocean Since 34 Ma: A Key to Understanding Past Cryosphereâ€Ocean Developments. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009122.	1.0	34
15	Timing and causes of the mid-Cretaceous global plate reorganization event. Earth and Planetary Science Letters, 2020, 534, 116071.	1.8	22
16	Microcontinents. Encyclopedia of Earth Sciences Series, 2020, , 1-5.	0.1	2
17	Sea-level fluctuations driven by changes in global ocean basin volume following supercontinent break-up. Earth-Science Reviews, 2020, 208, 103293.	4.0	36
18	Plateaus from seafloor spreading. Nature Geoscience, 2019, 12, 587-588.	5.4	2

#	Article	IF	Citations
19	Fingerprinting Proterozoic Bedrock in Interior Wilkes Land, East Antarctica. Scientific Reports, 2019, 9, 10192.	1.6	19
20	A Multivariate Approach for Mapping Lithospheric Domain Boundaries in East Antarctica. Geophysical Research Letters, 2019, 46, 10404-10416.	1.5	18
21	Tectonic, Oceanographic, and Climatic Controls on the Cretaceousâ€Cenozoic Sedimentary Record of the Australianâ€Antarctic Basin. Journal of Geophysical Research: Solid Earth, 2019, 124, 7699-7724.	1.4	27
22	GlobSed: Updated Total Sediment Thickness in the World's Oceans. Geochemistry, Geophysics, Geosystems, 2019, 20, 1756-1772.	1.0	227
23	Australian-Antarctic breakup and seafloor spreading: Balancing geological and geophysical constraints. Earth-Science Reviews, 2019, 188, 41-58.	4.0	49
24	Cenozoic lithospheric deformation in Northeast Asia and the rapidly-aging Pacific Plate. Earth and Planetary Science Letters, 2018, 492, 1-11.	1.8	49
25	A cryptic Gondwana-forming orogen located in Antarctica. Scientific Reports, 2018, 8, 8371.	1.6	46
26	A new heat flux model for the Antarctic Peninsula incorporating spatially variable upper crustal radiogenic heat production. Geophysical Research Letters, 2017, 44, 5436-5446.	1.5	34
27	Naturaliste Plateau: constraints on the timing and evolution of the Kerguelen Large Igneous Province and its role in Gondwana breakup. Australian Journal of Earth Sciences, 2017, 64, 851-869.	0.4	35
28	Erosional and depositional processes on the submarine flanks of Ontong Java and Nukumanu atolls, western equatorial Pacific Ocean. Marine Geology, 2017, 392, 122-139.	0.9	12
29	Strike-slip tectonics during the Neoproterozoicâ€“Cambrian assembly of East Gondwana: Evidence from a newly discovered microcontinent in the Indian Ocean (Batavia Knoll). Gondwana Research, 2017, 51, 137-148.	3.0	17
30	Tectonic drivers and the influence of the Kerguelen plume on seafloor spreading during formation of the early Indian Ocean. Gondwana Research, 2016, 35, 97-114.	3.0	22
31	Eastern Indian Ocean microcontinent formation driven by plate motion changes. Earth and Planetary Science Letters, 2016, 454, 203-212.	1.8	39
32	Semiautomatic fracture zone tracking. Geochemistry, Geophysics, Geosystems, 2015, 16, 2462-2472.	1.0	60
33	Long-term interaction between mid-ocean ridges and mantle plumes. Nature Geoscience, 2015, 8, 479-483.	5.4	92
34	A tectonic model reconciling evidence for the collisions between India, Eurasia and intra-oceanic arcs of the central-eastern Tethys. Gondwana Research, 2015, 28, 451-492.	3.0	165
35	Onset of Antarctic Circumpolar Current 30 million years ago as Tasmanian Gateway aligned with westerlies. Nature, 2015, 523, 580-583.	13.7	148
36	Ridge subduction sparked reorganization of the Pacific plateâ€mantle system 60â€“50 million years ago. Geophysical Research Letters, 2015, 42, 1732-1740.	1.5	170

#	Article	IF	Citations
37	Discovery of a microcontinent (Gulden Draak Knoll) offshore Western Australia: Implications for East Gondwana reconstructions. Gondwana Research, 2015, 28, 1019-1031.	3.0	32
38	Geologic and kinematic constraints on Late Cretaceous to mid Eocene plate boundaries in the southwest Pacific. Earth-Science Reviews, 2015, 140, 72-107.	4.0	75
39	Intraplate Magmatism. , 2015, , 1-12.		0
40	Community infrastructure and repository for marine magnetic identifications. Geochemistry, Geophysics, Geosystems, 2014, 15, 1629-1641.	1.0	97
41	Authigenic monazite and detrital zircon dating from the Proterozoic Rocky Cape Group, Tasmania: Links to the Belt-Purcell Supergroup, North America. Precambrian Research, 2014, 250, 50-67.	1.2	77
42	Revised tectonic evolution of the Eastern Indian Ocean. Geochemistry, Geophysics, Geosystems, 2013, 14, 1891-1909.	1.0	96
43	The breakup of East Gondwana: Assimilating constraints from Cretaceous ocean basins around India into a bestâ€fit tectonic model. Journal of Geophysical Research: Solid Earth, 2013, 118, 808-822.	1.4	207
44	Global sediment thickness data set updated for the Australianâ€Antarctic Southern Ocean. Geochemistry, Geophysics, Geosystems, 2013, 14, 3297-3305.	1.0	166
45	Early Indiaâ€Australia spreading history revealed by newly detected Mesozoic magnetic anomalies in the Perth Abyssal Plain. Journal of Geophysical Research: Solid Earth, 2013, 118, 3275-3284.	1.4	51
46	Full-fit reconstruction of the Labrador Sea and Baffin Bay. Solid Earth, 2013, 4, 461-479.	1.2	62
47	Insights on the kinematics of the Indiaâ€Eurasia collision from global geodynamic models. Geochemistry, Geophysics, Geosystems, 2012, 13, .	1.0	74
48	Constraining the Jurassic extent of Greater India: Tectonic evolution of the West Australian margin. Geochemistry, Geophysics, Geosystems, 2012, 13, .	1.0	78
49	Displacement along the Red River Fault constrained by extension estimates and plate reconstructions. Tectonics, 2012, 31, .	1.3	49
50	An open-source software environment for visualizing and refining plate tectonic reconstructions using high-resolution geological and geophysical data sets. GSA Today, 2012, , 4-9.	1.1	68
51	The tectonic fabric of the ocean basins. Journal of Geophysical Research, 2011, 116, .	3.3	123
52	Fullâ€fit, palinspastic reconstruction of the conjugate Australianâ€Antarctic margins. Tectonics, 2011, 30, .	1.3	96
53	Restoring the continent-ocean boundary: constraints from lithospheric stretching grids and tectonic reconstructions. ASEG Extended Abstracts, 2010, 2010, 1-4.	0.1	4
54	Development of the Australianâ€Antarctic depth anomaly. Geochemistry, Geophysics, Geosystems, 2010, 11, .	1.0	18

#	Article	IF	Citations
55	The hydrangeas of plate tectonics. Nature Geoscience, 2009, 2, 246-247.	5.4	1
56	How supercontinents and superoceans affect seafloor roughness. Nature, 2008, 456, 938-941.	13.7	28
57	Seismic facies and stratigraphy of the Cenozoic succession in McMurdo Sound, Antarctica: Implications for tectonic, climatic and glacial history. Palaeogeography, Palaeoclimatology, Palaeoecology, 2008, 260, 8-29.	1.0	86
58	Major Australian-Antarctic Plate Reorganization at Hawaiian-Emperor Bend Time. Science, 2007, 318, 83-86.	6.0	264
59	Sunda-Java trench kinematics, slab window formation and overriding plate deformation since the Cretaceous. Earth and Planetary Science Letters, 2007, 255, 445-457.	1.8	71
60	Seismic stratigraphy of the Adare Trough area, Antarctica. Marine Geology, 2006, 230, 179-197.	0.9	7