

# Neil C Mitchell

## List of Publications by Citations

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120 papers	3,223 citations	32 h-index	52 g-index
130 ext. papers	3,564 ext. citations	3.3 avg, IF	5.46 L-index

#	Paper	IF	Citations
120	Slope failures on the flanks of the western Canary Islands. <i>Earth-Science Reviews</i> , <b>2002</b> , 57, 1-35	10.2	363
119	The morphology of the submarine flanks of volcanic ocean islands: A comparative study of the Canary and Hawaiian hotspot islands. <i>Journal of Volcanology and Geothermal Research</i> , <b>2002</b> , 115, 83-107	2.8	113
118	Coastal evolution on volcanic oceanic islands: A complex interplay between volcanism, erosion, sedimentation, sea-level change and biogenic production. <i>Earth-Science Reviews</i> , <b>2013</b> , 127, 140-170	10.2	112
117	Landslides and the evolution of El Hierro in the Canary Islands. <i>Marine Geology</i> , <b>2001</b> , 177, 271-293	3.3	100
116	Development of volcanic insular shelves: Insights from observations and modelling of Faial Island in the Azores Archipelago. <i>Marine Geology</i> , <b>2010</b> , 275, 66-83	3.3	88
115	Morphologies of knickpoints in submarine canyons. <i>Bulletin of the Geological Society of America</i> , <b>2006</b> , 118, 589-605	3.9	86
114	A model for attenuation of backscatter due to sediment accumulations and its application to determine sediment thicknesses with GLORIA sidescan sonar. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 22477-22493		86
113	Interpreting long-profiles of canyons in the USA Atlantic continental slope. <i>Marine Geology</i> , <b>2005</b> , 214, 75-99	3.3	70
112	Do geochemical estimates of sediment focusing pass the sediment test in the equatorial Pacific?. <i>Paleoceanography</i> , <b>2005</b> , 20, n/a-n/a		69
111	Transition from circular to stellate forms of submarine volcanoes. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 1987-2003		62
110	Susceptibility of mid-ocean ridge volcanic islands and seamounts to large-scale landsliding. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		61
109	Morphology of the Faial Island shelf (Azores): The interplay between volcanic, erosional, depositional, tectonic and mass-wasting processes. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2012</b> , 13, n/a-n/a	3.6	59
108	Submarine salt flows in the central Red Sea. <i>Bulletin of the Geological Society of America</i> , <b>2010</b> , 122, 701-713	3.13	58
107	A rifted inside corner massif on the Mid-Atlantic Ridge at 5°S. <i>Earth and Planetary Science Letters</i> , <b>2002</b> , 200, 255-269	5.3	58
106	Despeckling SRTM and other topographic data with a denoising algorithm. <i>Geomorphology</i> , <b>2010</b> , 114, 238-252	4.3	57
105	Classification of seafloor geology using multibeam sonar data from the Scotian Shelf. <i>Marine Geology</i> , <b>1994</b> , 121, 143-160	3.3	57
104	Seafloor evidence for palaeo-ice streaming and calving of the grounded Irish Sea Ice Stream: Implications for the interpretation of its final deglaciation phase. <i>Boreas</i> , <b>2009</b> , 38, 119-131	2.4	56

103	Offshore continuation of volcanic rift zones, El Hierro, Canary Islands. <i>Journal of Volcanology and Geothermal Research</i> , <b>2001</b> , 105, 107-119	2.8	53
102	Variations in sediment wave dimensions across the tidally dominated Irish Sea, NW Europe. <i>Marine Geology</i> , <b>2009</b> , 263, 108-119	3.3	50
101	Lava penetrating water: Submarine lava flows around the coasts of Pico Island, Azores. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2008</b> , 9, n/a-n/a	3.6	48
100	Form of submarine erosion from confluences in Atlantic USA continental slope Canyons. <i>Numerische Mathematik</i> , <b>2004</b> , 304, 590-611	5.3	47
99	Reversed sediment wave migration in the Irish Sea, NW Europe: A reappraisal of the validity of geometry-based predictive modelling and assumptions. <i>Marine Geology</i> , <b>2012</b> , 295-298, 95-112	3.3	45
98	Geomorphic signature of Antarctic submarine gullies: Implications for continental slope processes. <i>Marine Geology</i> , <b>2013</b> , 337, 112-124	3.3	45
97	Post-glacial sediment dynamics in the Irish Sea and sediment wave morphology: Data-model comparisons. <i>Continental Shelf Research</i> , <b>2009</b> , 29, 1723-1736	2.4	44
96	. <i>IEEE Journal of Oceanic Engineering</i> , <b>1989</b> , 14, 368-374	3.3	43
95	Initial burst of oceanic crust accretion in the Red Sea due to edge-driven mantle convection. <i>Geology</i> , <b>2011</b> , 39, 1019-1022	5	42
94	The insular shelves of the Faial-Pico Ridge (Azores archipelago): A morphological record of its evolution. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2015</b> , 16, 1401-1420	3.6	39
93	Erosion of the submarine flanks of the Canary Islands. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108, n/a-n/a		39
92	Seafloor slopes at mid-ocean ridges from submersible observations and implications for interpreting geology from seafloor topography. <i>Earth and Planetary Science Letters</i> , <b>2000</b> , 183, 543-555	5.3	39
91	GLORIA image processing: The state of the art. <i>Marine Geophysical Researches</i> , <b>1990</b> , 12, 21-39	2.3	34
90	A morphometric analysis of the submarine volcanic ridge south-east of Pico Island, Azores. <i>Journal of Volcanology and Geothermal Research</i> , <b>2006</b> , 156, 35-54	2.8	33
89	Passage of debris flows and turbidity currents through a topographic constriction: seafloor erosion and deflection of flow pathways. <i>Sedimentology</i> , <b>2002</b> , 48, 1389-1409	3.3	33
88	Depths of Modern Coastal Sand Clinofolds. <i>Journal of Sedimentary Research</i> , <b>2012</b> , 82, 469-481	2.1	32
87	Assessing landslide movements in volcanic islands using near-shore marine geophysical data: south Pico island, Azores. <i>Bulletin of Volcanology</i> , <b>2012</b> , 74, 483-496	2.4	30
86	Large-scale submarine landslides, channel and gully systems on the southern Weddell Sea margin, Antarctica. <i>Marine Geology</i> , <b>2014</b> , 348, 73-87	3.3	29

85	Distribution and causes of landslides in the eastern Peloritani of NE Sicily and western Aspromonte of SW Calabria, Italy. <i>Geomorphology</i> , <b>2011</b> , 132, 111-122	4.3	29
84	Nature of crust in the central Red Sea. <i>Tectonophysics</i> , <b>2014</b> , 628, 123-139	3.1	28
83	Mapping Condor Seamount Seafloor Environment and Associated Biological Assemblages (Azores, NE Atlantic) <b>2012</b> , 807-818		26
82	Cone morphologies associated with shallow marine eruptions: east Pico Island, Azores. <i>Bulletin of Volcanology</i> , <b>2012</b> , 74, 2289-2301	2.4	26
81	Diffusion transport model for pelagic sediments on the Mid-Atlantic Ridge. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 19991-20009		26
80	Condor seamount (Azores, NE Atlantic): A morpho-tectonic interpretation. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2013</b> , 98, 7-23	2.3	25
79	Characterizing uncertainties for quantifying bathymetry change between time-separated multibeam echo-sounder surveys. <i>Continental Shelf Research</i> , <b>2008</b> , 28, 1166-1176	2.4	25
78	Fault and magmatic interaction within Iceland's western rift over the last 9 kyr. <i>Geophysical Journal International</i> , <b>2003</b> , 154, F1-F8	2.6	22
77	Processing and analysis of Simrad multibeam sonar data. <i>Marine Geophysical Researches</i> , <b>1996</b> , 18, 729-739		22
76	Southern Weddell Sea shelf edge geomorphology: Implications for gully formation by the overflow of high-salinity water. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		21
75	Lower Miocene to present stratigraphy of the equatorial Pacific sediment bulge and carbonate dissolution anomalies. <i>Paleoceanography</i> , <b>2003</b> , 18, n/a-n/a		21
74	Channelled erosion through a marine dump site of dredge spoils at the mouth of the Puyallup River, Washington State, USA. <i>Marine Geology</i> , <b>2005</b> , 220, 131-151	3.3	21
73	Comment on Reconstructing the architectural evolution of volcanic islands from combined K/Ar, morphologic, tectonic, and magnetic data: The Faial Island example (Azores) by Hildenbrand et al. (2012) [J. Volcanol. Geotherm. Res. 241:42 (2012) 39-48]. <i>Journal of Volcanology and Geothermal Research</i> , <b>2013</b> , 255, 124-126	2.8	20
72	Seismic interpretation of pelagic sedimentation regimes in the 18-3 Ma eastern equatorial Pacific: Basin-scale sedimentation and infilling of abyssal valleys. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2011</b> , 12, n/a-n/a	3.6	20
71	Modeling Cenozoic sedimentation in the central equatorial Pacific and implications for true polar wander. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 17749-17766		20
70	Large-scale sediment redistribution on the equatorial Pacific seafloor. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2012</b> , 69, 51-61	2.5	19
69	Threshold of erosion of submarine bedrock landscapes by tidal currents. <i>Earth Surface Processes and Landforms</i> , <b>2013</b> , 38, 627-639	3.7	19
68	Hydrothermal pits in the biogenic sediments of the equatorial Pacific Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2007</b> , 8, n/a-n/a	3.6	19

67	Creep in pelagic sediments and potential for morphologic dating of marine fault scarps. <i>Geophysical Research Letters</i> , <b>1996</b> , 23, 483-486	4.9	19
66	Magmatic and tectonic history of Iceland's western rift zone at Lake Thingvallavatn. <i>Bulletin of the Geological Society of America</i> , <b>2005</b> , 117, 1451	3.9	18
65	Spieß Ridge: An axial high on the slow spreading Southwest Indian Ridge. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 15457-15471		18
64	Morphologic signatures in submarine canyons and gullies, central USA Atlantic continental margins. <i>Marine and Petroleum Geology</i> , <b>2013</b> , 41, 250-263	4.7	17
63	Oceanographic Currents and the Convexity of the Uppermost Continental Slope. <i>Journal of Sedimentary Research</i> , <b>2008</b> , 78, 29-44	2.1	17
62	Comparing the smooth, parabolic shapes of interfluvies in continental slopes to predictions of diffusion transport models. <i>Marine Geology</i> , <b>2007</b> , 236, 189-208	3.3	17
61	Deformation of a young salt giant: regional topography of the Red Sea Miocene evaporites. <i>Basin Research</i> , <b>2017</b> , 29, 352-369	3.2	16
60	Dune-associated sand fluxes at the nearshore termination of a banner sand bank (Helwick Sands, Bristol Channel). <i>Continental Shelf Research</i> , <b>2014</b> , 76, 64-74	2.4	16
59	Geomorphological and geochemical evidence (230Th anomalies) for cross-equatorial currents in the central Pacific. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2013</b> , 78, 24-41	2.5	16
58	Modeling The Rollovers of Sandy Clinoforms from the Gravity Effect On Wave-Agitated Sand. <i>Journal of Sedimentary Research</i> , <b>2012</b> , 82, 464-468	2.1	16
57	Characterising the irregular coastlines of volcanic ocean islands. <i>Geomorphology</i> , <b>1998</b> , 23, 1-14	4.3	16
56	Submarine and subaerial erosion of volcanic landscapes: comparing Pacific Ocean seamounts with Valencia Seamount, exposed during the Messinian Salinity Crisis. <i>Basin Research</i> , <b>2008</b> , 20, 489-502	3.2	16
55	Patchy deposits of Cenozoic pelagic sediments in the central Pacific. <i>Geology</i> , <b>2005</b> , 33, 49	5	16
54	An evolving ridge system around the Indian Ocean triple junction. <i>Marine Geophysical Researches</i> , <b>1991</b> , 13, 173-201	2.3	16
53	Lava penetrating water: the different behaviours of pöboehoe and Blá at the Nesjahraun, Þingvellir, Iceland. <i>Bulletin of Volcanology</i> , <b>2012</b> , 74, 33-46	2.4	15
52	Characterising the extent of volcanism at the Galapagos Spreading Centre using Deep Tow sediment profiler records. <i>Earth and Planetary Science Letters</i> , <b>1995</b> , 134, 459-472	5.3	15
51	Red Sea isolation history suggested by Plio-Pleistocene seismic reflection sequences. <i>Earth and Planetary Science Letters</i> , <b>2015</b> , 430, 387-397	5.3	14
50	Sedimentation on young ocean floor at the Mid-Atlantic Ridge, 29 °N. <i>Marine Geology</i> , <b>1998</b> , 148, 1-8	3.3	14

49	The role of subsidence in shelf widening around ocean island volcanoes: Insights from observed morphology and modeling. <i>Earth and Planetary Science Letters</i> , <b>2018</b> , 498, 408-417	5.3	13
48	Bedrock erosion by sedimentary flows in submarine canyons <b>2014</b> , 10, 892-904		13
47	Use of swath bathymetry in the investigation of sand dune geometry and migration around a near shore Banner tidal sandbank. <i>Geological Society Special Publication</i> , <b>2007</b> , 274, 53-64	1.7	11
46	The Bouvet triple junction, 20 to 10 Ma, and extensive transtensional deformation adjacent to the Bouvet and Conrad transforms. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 8279-8296		11
45	Comment on Construction and destruction of a volcanic island developed inside an oceanic rift: Graciosa Island, Terceira Rift, Azores by Sibrant et al. (2014) and proposal of a new model for Graciosa's geological evolution. <i>Journal of Volcanology and Geothermal Research</i> , <b>2015</b> , 303, 146-156	2.8	10
44	Submarine platform development by erosion of a Surtseyan cone at Capelinhos, Faial Island, Azores. <i>Earth Surface Processes and Landforms</i> , <b>2019</b> , 44, 2982-3006	3.7	10
43	Large-scale active slump of the southeastern flank of Pico Island, Azores: COMMENT. <i>Geology</i> , <b>2013</b> , 41, e301-e301	5	10
42	Comment on Formation of Thetis Deep metal-rich sediments in the absence of brines, Red Sea by. <i>Journal of Geochemical Exploration</i> , <b>2011</b> , 108, 112-113	3.8	9
41	The Tsunami Effects of a Collapse of a Volcanic Island on a Semienclosed Basin. <i>Geophysical Monograph Series</i> , <b>2016</b> , 271-287	1.1	9
40	Modern and ancient hiatuses in the pelagic caps of Pacific guyots and seamounts and internal tides <b>2015</b> , 11, 1590-1606		8
39	Erosion of a tectonically uplifting coastal landscape, NE Sicily, Italy. <i>Geomorphology</i> , <b>2012</b> , 171-172, 114-126	1.5	8
38	The present configuration of the Bouvet triple junction. <i>Geology</i> , <b>1998</b> , 26, 267	5	8
37	Linking subaerial erosion with submarine geomorphology in the western Ionian Sea (south of the Messina Strait), Italy. <i>Basin Research</i> , <b>2017</b> , 29, 641-658	3.2	7
36	Widespread inflation and drainage of a phreatic flow field: the Nesjahraun, Hngvellir, Iceland. <i>Bulletin of Volcanology</i> , <b>2012</b> , 74, 15-31	2.4	7
35	Representing backscatter fluctuations with a PDF convolution equation and its application to study backscatter variability in side-scan sonar images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>1995</b> , 33, 1328-1331	8.1	7
34	Different origins of seafloor undulations in a submarine canyon system, northern South China Sea, based on their seismic character and relative location. <i>Marine Geology</i> , <b>2019</b> , 413, 99-111	3.3	6
33	Halokinetics and other features of GLORIA long-range sidescan sonar data from the Red Sea. <i>Marine and Petroleum Geology</i> , <b>2017</b> , 88, 724-738	4.7	6
32	Fault scarp statistics at the Galapagos spreading centre from Deep Tow data. <i>Marine Geophysical Researches</i> , <b>1998</b> , 20, 183-193	2.3	6

31	Random sequences of lithologies exposed on the Mid-Atlantic Ridge. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 26365-26378		6
30	Coastal erosion rates of lava deltas around oceanic islands. <i>Geomorphology</i> , <b>2020</b> , 370, 107410	4.3	6
29	Oceanic-like axial crustal high in the central Red Sea. <i>Tectonophysics</i> , <b>2018</b> , 747-748, 327-342	3.1	6
28	Geomorphology of the western Ionian Sea between Sicily and Calabria, Italy. <i>Geo-Marine Letters</i> , <b>2014</b> , 34, 419-433	1.9	5
27	Aspects of marine geoscience: a review and thoughts on potential for observing active processes and progress through collaboration between the ocean sciences. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2012</b> , 370, 5567-612	3	5
26	Volcanism in the Azores: A Marine Geophysical Perspective. <i>Active Volcanoes of the World</i> , <b>2018</b> , 101-126	0.4	4
25	The modest seismicity of the northern Red Sea rift. <i>Geophysical Journal International</i> , <b>2018</b> , 214, 1507-1528	2.8	4
24	Summary of progress in geomorphologic modelling of continental slope canyons. <i>Geological Society Special Publication</i> , <b>2008</b> , 296, 183-194	1.7	4
23	Sediment accumulation rates from Deep Tow profiler records and DSDP Leg 70 cores over the Galapagos spreading centre. <i>Geological Society Special Publication</i> , <b>1998</b> , 131, 199-209	1.7	4
22	Multibeam bathymetric survey of the Ipala Submarine Canyon, Jalisco, Mexico (20°N): The southern boundary of the Banderas Forearc Block?. <i>Tectonophysics</i> , <b>2016</b> , 671, 249-263	3.1	4
21	Comment on: The spatial extent of the Deep Western Boundary Current into the Bounty Trough: new evidence from parasound sub-bottom profiling by Horn and Uenzelmann-Neben. <i>Marine Geophysical Researches</i> , <b>2016</b> , 37, 371-374	2.3	3
20	Lineaments in Gravity Data of the Red Sea. <i>Springer Earth System Sciences</i> , <b>2015</b> , 123-133	0.3	3
19	Landslides in the Upper Submarine Slopes of Volcanic Islands: The Central Azores. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2021</b> , 22, e2021GC009833	3.6	3
18	Comparing the post-WWII publication histories of oceanography and marine geoscience. <i>Scientometrics</i> , <b>2020</b> , 124, 843-866	3	2
17	Deriving relationships between diapir spacing and salt-layer thickness in the Southern North Sea. <i>Geological Society Special Publication</i> , <b>2018</b> , 469, 119-137	1.7	2
16	Evaluating Cenozoic equatorial sediment deposition anomalies for potential paleoceanographic and Pacific plate motion applications. <i>Marine Geophysical Researches</i> , <b>2014</b> , 35, 1-20	2.3	2
15	Variations in Plio-Pleistocene Deposition in the Red Sea <b>2019</b> , 323-339		2
14	Reconstructing the level of the central Red Sea evaporites at the end of the Miocene. <i>Basin Research</i> , <b>2021</b> , 33, 1266-1292	3.2	2



- 13 Submarine Geomorphology **2015**, 1
- 12 Erosion of canyons in continental slopes. *Geological Society Special Publication*, **2005**, 244, 131-140 1.7 1
- 11 Mid-ocean Ridges. *Springer Geology*, **2018**, 349-365 0.8 1
- 10 Dynamics and stratigraphy of a tidal sand ridge in the Bristol Channel (Nash Sands banner bank) from repeated high-resolution multibeam echo-sounder surveys. *Sedimentology*, 3.3 1
- 9 Volcaniclastic deposits and sedimentation processes around volcanic ocean islands: the central Azores. *Geological Society Special Publication*, SP520-2021-62 1.7 1
- 8 Asymmetric abundances of submarine sediment waves around the Azores volcanic islands. *Marine Geology*, **2022**, 449, 106837 3.3 1
- 7 Early stage diapirism in the Red Sea deep-water evaporites: Origins and length-scales. *Tectonophysics*, **2022**, 229331 3.1 0
- 6 Equatorial Pacific gravity lineaments: interpretations with basement topography along seismic reflection lines. *Marine Geophysical Researches*, **2018**, 39, 551-565 2.3
- 5 Growth Structures and Unconformities in the Upper Evaporites, Red Sea **2018**, 191-193
- 4 Origin of Submarine Channel North of Hanish Sill, Red Sea **2019**, 259-273
- 3 Salt Flows in the Central Red Sea. *Springer Earth System Sciences*, **2015**, 205-218 0.3
- 2 Seamounts **2021**,
- 1 Compression Folds and a Strike-Slip Fault in Flowing Evaporites, Red Sea **2018**, 135-139