Neil C Mitchell

List of Publications by Year in Descending Order

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	Early stage diapirism in the Red Sea deep-water evaporites: Origins and length-scales. *Tectonophysics*, **2022**, 229331	3.1	0
119	Asymmetric abundances of submarine sediment waves around the Azores volcanic islands. *Marine Geology*, **2022**, 449, 106837	3.3	1
118	Reconstructing the level of the central Red Sea evaporites at the end of the Miocene. *Basin Research*, **2021**, 33, 1266-1292	3.2	2
117	Seamounts **2021**,		
116	Landslides in the Upper Submarine Slopes of Volcanic Islands: The Central Azores. *Geochemistry, Geophysics, Geosystems*, **2021**, 22, e2021GC009833	3.6	3
115	Comparing the post-WWII publication histories of oceanography and marine geoscience. *Scientometrics*, **2020**, 124, 843-866	3	2
114	Coastal erosion rates of lava deltas around oceanic islands. *Geomorphology*, **2020**, 370, 107410	4.3	6
113	Different origins of seafloor undulations in a submarine canyon system, northern South China Sea, based on their seismic character and relative location. *Marine Geology*, **2019**, 413, 99-111	3.3	6
112	Submarine platform development by erosion of a Surtseyan cone at Capelinhos, Faial Island, Azores. *Earth Surface Processes and Landforms*, **2019**, 44, 2982-3006	3.7	10
111	Origin of Submarine Channel North of Hanish Sill, Red Sea **2019**, 259-273		
110	Variations in Plio-Pleistocene Deposition in the Red Sea **2019**, 323-339		2
109	Volcanism in the Azores: A Marine Geophysical Perspective. *Active Volcanoes of the World*, **2018**, 101-126	0.4	4
108	Deriving relationships between diapir spacing and salt-layer thickness in the Southern North Sea. *Geological Society Special Publication*, **2018**, 469, 119-137	1.7	2
107	The modest seismicity of the northern Red Sea rift. *Geophysical Journal International*, **2018**, 214, 1507-1528	2.8	4
106	Equatorial Pacific gravity lineaments: interpretations with basement topography along seismic reflection lines. *Marine Geophysical Researches*, **2018**, 39, 551-565	2.3	
105	The role of subsidence in shelf widening around ocean island volcanoes: Insights from observed morphology and modeling. *Earth and Planetary Science Letters*, **2018**, 498, 408-417	5.3	13
104	Growth Structures and Unconformities in the Upper Evaporites, Red Sea **2018**, 191-193		

103	Mid-ocean Ridges. *Springer Geology*, **2018**, 349-365	0.8	1
102	Oceanic-like axial crustal high in the central Red Sea. *Tectonophysics*, **2018**, 747-748, 327-342	3.1	6
101	Compression Folds and a Strike-Slip Fault in Flowing Evaporites, Red Sea **2018**, 135-139		
100	Linking subaerial erosion with submarine geomorphology in the western Ionian Sea (south of the Messina Strait), Italy. *Basin Research*, **2017**, 29, 641-658	3.2	7
99	Deformation of a young salt giant: regional topography of the Red Sea Miocene evaporites. *Basin Research*, **2017**, 29, 352-369	3.2	16
98	Halokinetics and other features of GLORIA long-range sidescan sonar data from the Red Sea. *Marine and Petroleum Geology*, **2017**, 88, 724-738	4.7	6
97	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. *Marine Geophysical Researches*, **2016**, 37, 371-374	2.3	3
96	The Tsunami Effects of a Collapse of a Volcanic Island on a Semienclosed Basin. *Geophysical Monograph Series*, **2016**, 271-287	1.1	9
95	Multibeam bathymetric survey of the Ipala Submarine Canyon, Jalisco, Mexico (20°N): The southern boundary of the Banderas Forearc Block?. *Tectonophysics*, **2016**, 671, 249-263	3.1	4
94	Modern and ancient hiatuses in the pelagic caps of Pacific guyots and seamounts and internal tides **2015**, 11, 1590-1606		8
93	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. *Journal of Volcanology and Geothermal Research*, **2015**, 303, 146-156	2.8	10
92	Red Sea isolation history suggested by Plio-Pleistocene seismic reflection sequences. *Earth and Planetary Science Letters*, **2015**, 430, 387-397	5.3	14
91	The insular shelves of the Faial-Pico Ridge (Azores archipelago): A morphological record of its evolution. *Geochemistry, Geophysics, Geosystems*, **2015**, 16, 1401-1420	3.6	39
90	Submarine Geomorphology **2015**,		1
89	Lineaments in Gravity Data of the Red Sea. *Springer Earth System Sciences*, **2015**, 123-133	0.3	3
88	Salt Flows in the Central Red Sea. *Springer Earth System Sciences*, **2015**, 205-218	0.3	
87	Bedrock erosion by sedimentary flows in submarine canyons **2014**, 10, 892-904		13
86	Geomorphology of the western Ionian Sea between Sicily and Calabria, Italy. *Geo-Marine Letters*, **2014**, 34, 419-433	1.9	5

85	Evaluating Cenozoic equatorial sediment deposition anomalies for potential paleoceanographic and Pacific plate motion applications. *Marine Geophysical Researches*, **2014**, 35, 1-20	2.3	2
84	Dune-associated sand fluxes at the nearshore termination of a banner sand bank (Helwick Sands, Bristol Channel). *Continental Shelf Research*, **2014**, 76, 64-74	2.4	16
83	Large-scale submarine landslides, channel and gully systems on the southern Weddell Sea margin, Antarctica. *Marine Geology*, **2014**, 348, 73-87	3.3	29
82	Nature of crust in the central Red Sea. *Tectonophysics*, **2014**, 628, 123-139	3.1	28
81	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. 241–242 (2012) 39–48]. *Journal of Volcanology and Geothermal Research*, **2013**, 255, 124-126	2.8	20
80	Geomorphic signature of Antarctic submarine gullies: Implications for continental slope processes. *Marine Geology*, **2013**, 337, 112-124	3.3	45
79	Condor seamount (Azores, NE Atlantic): A morpho-tectonic interpretation. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2013**, 98, 7-23	2.3	25
78	Large-scale active slump of the southeastern flank of Pico Island, Azores: COMMENT. *Geology*, **2013**, 41, e301-e301	5	10
77	Coastal evolution on volcanic oceanic islands: A complex interplay between volcanism, erosion, sedimentation, sea-level change and biogenic production. *Earth-Science Reviews*, **2013**, 127, 140-170	10.2	112
76	Morphologic signatures in submarine canyons and gullies, central USA Atlantic continental margins. *Marine and Petroleum Geology*, **2013**, 41, 250-263	4.7	17
75	Geomorphological and geochemical evidence (230Th anomalies) for cross-equatorial currents in the central Pacific. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2013**, 78, 24-41	2.5	16
74	Threshold of erosion of submarine bedrock landscapes by tidal currents. *Earth Surface Processes and Landforms*, **2013**, 38, 627-639	3.7	19
73	Reversed sediment wave migration in the Irish Sea, NW Europe: A reappraisal of the validity of geometry-based predictive modelling and assumptions. *Marine Geology*, **2012**, 295-298, 95-112	3.3	45
72	Lava penetrating water: the different behaviours of pāhoehoe and ‘a‘ā at the Nesjahraun, Þingvellir, Iceland. *Bulletin of Volcanology*, **2012**, 74, 33-46	2.4	15
71	Widespread inflation and drainage of a pāhoehoe flow field: the Nesjahraun, Þingvellir, Iceland. *Bulletin of Volcanology*, **2012**, 74, 15-31	2.4	7
70	Assessing landslide movements in volcanic islands using near-shore marine geophysical data: south Pico island, Azores. *Bulletin of Volcanology*, **2012**, 74, 483-496	2.4	30
69	Modeling The Rollovers of Sandy Clinoforms from the Gravity Effect On Wave-Agitated Sand. *Journal of Sedimentary Research*, **2012**, 82, 464-468	2.1	16
68	Mapping Condor Seamount Seafloor Environment and Associated Biological Assemblages (Azores, NE Atlantic) **2012**, 807-818		26

67	Cone morphologies associated with shallow marine eruptions: east Pico Island, Azores. *Bulletin of Volcanology*, **2012**, 74, 2289-2301	2.4	26
66	Morphology of the Faial Island shelf (Azores): The interplay between volcanic, erosional, depositional, tectonic and mass-wasting processes. *Geochemistry, Geophysics, Geosystems*, **2012**, 13, n/a-n/a	3.6	59
65	Erosion of a tectonically uplifting coastal landscape, NE Sicily, Italy. *Geomorphology*, **2012**, 171-172, 114-126	4.3	8
64	Depths of Modern Coastal Sand Clinoforms. *Journal of Sedimentary Research*, **2012**, 82, 469-481	2.1	32
63	Southern Weddell Sea shelf edge geomorphology: Implications for gully formation by the overflow of high-salinity water. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		21
62	Large-scale sediment redistribution on the equatorial Pacific seafloor. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2012**, 69, 51-61	2.5	19
61	Aspects of marine geoscience: a review and thoughts on potential for observing active processes and progress through collaboration between the ocean sciences. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2012**, 370, 5567-612	3	5
60	Seismic interpretation of pelagic sedimentation regimes in the 18–53 Ma eastern equatorial Pacific: Basin-scale sedimentation and infilling of abyssal valleys. *Geochemistry, Geophysics, Geosystems*, **2011**, 12, n/a-n/a	3.6	20
59	Distribution and causes of landslides in the eastern Peloritani of NE Sicily and western Aspromonte of SW Calabria, Italy. *Geomorphology*, **2011**, 132, 111-122	4.3	29
58	Comment on "Formation of Thetis Deep metal-rich sediments in the absence of brines, Red Sea" by. *Journal of Geochemical Exploration*, **2011**, 108, 112-113	3.8	9
57	Initial burst of oceanic crust accretion in the Red Sea due to edge-driven mantle convection. *Geology*, **2011**, 39, 1019-1022	5	42
56	Submarine salt flows in the central Red Sea. *Bulletin of the Geological Society of America*, **2010**, 122, 701-713	3.9	58
55	Despeckling SRTM and other topographic data with a denoising algorithm. *Geomorphology*, **2010**, 114, 238-252	4.3	57
54	Development of volcanic insular shelves: Insights from observations and modelling of Faial Island in the Azores Archipelago. *Marine Geology*, **2010**, 275, 66-83	3.3	88
53	Seafloor evidence for palaeo-ice streaming and calving of the grounded Irish Sea Ice Stream: Implications for the interpretation of its final deglaciation phase. *Boreas*, **2009**, 38, 119-131	2.4	56
52	Variations in sediment wave dimensions across the tidally dominated Irish Sea, NW Europe. *Marine Geology*, **2009**, 263, 108-119	3.3	50
51	Post-glacial sediment dynamics in the Irish Sea and sediment wave morphology: Data–model comparisons. *Continental Shelf Research*, **2009**, 29, 1723-1736	2.4	44
50	Submarine and subaerial erosion of volcanic landscapes: comparing Pacific Ocean seamounts with Valencia Seamount, exposed during the Messinian Salinity Crisis. *Basin Research*, **2008**, 20, 489-502	3.2	16

49	Lava penetrating water: Submarine lava flows around the coasts of Pico Island, Azores. *Geochemistry, Geophysics, Geosystems*, **2008**, 9, n/a-n/a	3.6	48
48	Characterizing uncertainties for quantifying bathymetry change between time-separated multibeam echo-sounder surveys. *Continental Shelf Research*, **2008**, 28, 1166-1176	2.4	25
47	Oceanographic Currents and the Convexity of the Uppermost Continental Slope. *Journal of Sedimentary Research*, **2008**, 78, 29-44	2.1	17
46	Summary of progress in geomorphologic modelling of continental slope canyons. *Geological Society Special Publication*, **2008**, 296, 183-194	1.7	4
45	Hydrothermal pits in the biogenic sediments of the equatorial Pacific Ocean. *Geochemistry, Geophysics, Geosystems*, **2007**, 8, n/a-n/a	3.6	19
44	Comparing the smooth, parabolic shapes of interfluves in continental slopes to predictions of diffusion transport models. *Marine Geology*, **2007**, 236, 189-208	3.3	17
43	Use of swath bathymetry in the investigation of sand dune geometry and migration around a near shore Bannertidal sandbank. *Geological Society Special Publication*, **2007**, 274, 53-64	1.7	11
42	A morphometric analysis of the submarine volcanic ridge south-east of Pico Island, Azores. *Journal of Volcanology and Geothermal Research*, **2006**, 156, 35-54	2.8	33
41	Morphologies of knickpoints in submarine canyons. *Bulletin of the Geological Society of America*, **2006**, 118, 589-605	3.9	86
40	Do geochemical estimates of sediment focusing pass the sediment test in the equatorial Pacific?. *Paleoceanography*, **2005**, 20, n/a-n/a		69
39	Patchy deposits of Cenozoic pelagic sediments in the central Pacific. *Geology*, **2005**, 33, 49	5	16
38	Channelled erosion through a marine dump site of dredge spoils at the mouth of the Puyallup River, Washington State, USA. *Marine Geology*, **2005**, 220, 131-151	3.3	21
37	Interpreting long-profiles of canyons in the USA Atlantic continental slope. *Marine Geology*, **2005**, 214, 75-99	3.3	70
36	Erosion of canyons in continental slopes. *Geological Society Special Publication*, **2005**, 244, 131-140	1.7	1
35	Magmatic and tectonic history of Iceland's western rift zone at Lake Thingvallavatn. *Bulletin of the Geological Society of America*, **2005**, 117, 1451	3.9	18
34	Form of submarine erosion from confluences in Atlantic USA continental slope Canyons. *Numerische Mathematik*, **2004**, 304, 590-611	5.3	47
33	Fault and magmatic interaction within Iceland's western rift over the last 9 kyr. *Geophysical Journal International*, **2003**, 154, F1-F8	2.6	22
32	Susceptibility of mid-ocean ridge volcanic islands and seamounts to large-scale landsliding. *Journal of Geophysical Research*, **2003**, 108,		61

31	Erosion of the submarine flanks of the Canary Islands. *Journal of Geophysical Research*, **2003**, 108, n/a-n/a		39
30	Lower Miocene to present stratigraphy of the equatorial Pacific sediment bulge and carbonate dissolution anomalies. *Paleoceanography*, **2003**, 18, n/a-n/a		21
29	Slope failures on the flanks of the western Canary Islands. *Earth-Science Reviews*, **2002**, 57, 1-35	10.2	363
28	The morphology of the submarine flanks of volcanic ocean islands: A comparative study of the Canary and Hawaiian hotspot islands. *Journal of Volcanology and Geothermal Research*, **2002**, 115, 83-107	2.8	113
27	Passage of debris flows and turbidity currents through a topographic constriction: seafloor erosion and deflection of flow pathways. *Sedimentology*, **2002**, 48, 1389-1409	3.3	33
26	A rifted inside corner massif on the Mid-Atlantic Ridge at 5°S. *Earth and Planetary Science Letters*, **2002**, 200, 255-269	5.3	58
25	Landslides and the evolution of El Hierro in the Canary Islands. *Marine Geology*, **2001**, 177, 271-293	3.3	100
24	Offshore continuation of volcanic rift zones, El Hierro,Canary Islands. *Journal of Volcanology and Geothermal Research*, **2001**, 105, 107-119	2.8	53
23	Random sequences of lithologies exposed on the Mid-Atlantic Ridge. *Journal of Geophysical Research*, **2001**, 106, 26365-26378		6
22	Transition from circular to stellate forms of submarine volcanoes. *Journal of Geophysical Research*, **2001**, 106, 1987-2003		62
21	Seafloor slopes at mid-ocean ridges from submersible observations and implications for interpreting geology from seafloor topography. *Earth and Planetary Science Letters*, **2000**, 183, 543-555	5.3	39
20	The Bouvet triple junction, 20 to 10 Ma, and extensive transtensional deformation adjacent to the Bouvet and Conrad transforms. *Journal of Geophysical Research*, **2000**, 105, 8279-8296		11
19	Fault scarp statistics at the Galapagos spreading centre from Deep Tow data. *Marine Geophysical Researches*, **1998**, 20, 183-193	2.3	6
18	Sedimentation on young ocean floor at the Mid-Atlantic Ridge, 29°N. *Marine Geology*, **1998**, 148, 1-8	3.3	14
17	Characterising the irregular coastlines of volcanic ocean islands. *Geomorphology*, **1998**, 23, 1-14	4.3	16
16	Spiess Ridge: An axial high on the slow spreading Southwest Indian Ridge. *Journal of Geophysical Research*, **1998**, 103, 15457-15471		18
15	Modeling Cenozoic sedimentation in the central equatorial Pacific and implications for true polar wander. *Journal of Geophysical Research*, **1998**, 103, 17749-17766		20
14	Sediment accumulation rates from Deep Tow profiler records and DSDP Leg 70 cores over the Galapagos spreading centre. *Geological Society Special Publication*, **1998**, 131, 199-209	1.7	4

13	The present configuration of the Bouvet triple junction. *Geology*, **1998**, 26, 267	5	8
12	Creep in pelagic sediments and potential for morphologic dating of marine fault scarps. *Geophysical Research Letters*, **1996**, 23, 483-486	4.9	19
11	Processing and analysis of Simrad multibeam sonar data. *Marine Geophysical Researches*, **1996**, 18, 729-739	2.3	22
10	Characterising the extent of volcanism at the Galapagos Spreading Centre using Deep Tow sediment profiler records. *Earth and Planetary Science Letters*, **1995**, 134, 459-472	5.3	15
9	Diffusion transport model for pelagic sediments on the Mid-Atlantic Ridge. *Journal of Geophysical Research*, **1995**, 100, 19991-20009		26
8	Representing backscatter fluctuations with a PDF convolution equation and its application to study backscatter variability in side-scan sonar images. *IEEE Transactions on Geoscience and Remote Sensing*, **1995**, 33, 1328-1331	8.1	7
7	Classification of seafloor geology using multibeam sonar data from the Scotian Shelf. *Marine Geology*, **1994**, 121, 143-160	3.3	57
6	A model for attenuation of backscatter due to sediment accumulations and its application to determine sediment thicknesses with GLORIA sidescan sonar. *Journal of Geophysical Research*, **1993**, 98, 22477-22493		86
5	An evolving ridge system around the Indian Ocean triple junction. *Marine Geophysical Researches*, **1991**, 13, 173-201	2.3	16
4	GLORIA image processing: The state of the art. *Marine Geophysical Researches*, **1990**, 12, 21-39	2.3	34
3	. *IEEE Journal of Oceanic Engineering*, **1989**, 14, 368-374	3.3	43
2	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
1	Volcaniclastic deposits and sedimentation processes around volcanic ocean islands: the central Azores. *Geological Society Special Publication*,SP520-2021-62	1.7	1