

Aaron Micallef

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

2,000
citations

279798

23
h-index

289244

40
g-index

104
all docs

104
docs citations

104
times ranked

2477
citing authors

#	ARTICLE	IF	CITATIONS
1	Submarine geomorphology. Geological Society Memoir, 2022, 58, 379-394.	1.7	4
2	Mesophotic Depth Biogenic Accumulations (‘‘Biogenic Mounds’’) Offshore the Maltese Islands, Central Mediterranean Sea. Frontiers in Marine Science, 2022, 9, .	2.5	2
3	Multiple drivers and controls of pockmark formation across the Canterbury Margin, New Zealand. Basin Research, 2022, 34, 1374-1399.	2.7	8
4	Groundwater seepage is a key driver of theater-headed valley formation in limestone. Geology, 2022, 50, 686-690.	4.4	4
5	Testing the potential of using fine quartz for dating loess in South Island, New Zealand. Radiation Measurements, 2022, , 106788.	1.4	0
6	Offshore Freshened Groundwater in Continental Margins. Reviews of Geophysics, 2021, 59, e2020RG000706.	23.0	31
7	Submarine Canyons. , 2021, , .		0
8	Groundwater erosion of coastal gullies along the Canterbury coast (New Zealand): a rapid and episodic process controlled by rainfall intensity and substrate variability. Earth Surface Dynamics, 2021, 9, 1-18.	2.4	9
9	Does Retrogression Always Account for the Large Volume of Submarine Megaslides? Evidence to the Contrary From the Tampen Slide, Offshore Norway. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020655.	3.4	5
10	Architecture and sequence stratigraphy of the Upper Coralline Limestone formation, Malta – Implications for Eastern Mediterranean restriction prior to the Messinian Salinity Crisis. Depositional Record, 2021, 7, 256-270.	1.7	3
11	Depositional mechanism of the upper Pliocene-Pleistocene shelf-slope system of the western Malta Plateau (Sicily Channel). Sedimentary Geology, 2021, 417, 105882.	2.1	4
12	Electrical Resistivity Anomalies Offshore a Carbonate Coastline: Evidence for Freshened Groundwater?. Geophysical Research Letters, 2021, 48, e2020GL091909.	4.0	13
13	Active faulting controls bedform development on a deep-water fan. Geology, 2021, 49, 1495-1500.	4.4	9
14	Bottom current-controlled Quaternary sedimentation at the foot of the Malta Escarpment (Ionian Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50	2.1	12
15	Investigations on the Luminescence Properties of Quartz and Feldspars Extracted from Loess in the Canterbury Plains, New Zealand South Island. Geochronometria, 2021, 48, 46-60.	0.8	2
16	The role of fluid seepage in the erosion of Mesozoic carbonate escarpments. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2021JF006387.	2.8	2
17	Perspectives on Submarine Geomorphology: An Introduction. , 2021, , 811-811.		0
18	The Impact of Predicted Climate Change on Groundwater Resources in a Mediterranean Archipelago: A Modelling Study of the Maltese Islands. Water (Switzerland), 2021, 13, 3046.	2.7	5

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19	Seismic markers of the Messinian salinity crisis in the deep Ionian Basin. <i>Basin Research</i> , 2020, 32, 716-738.	2.7	22
20	The Tsunami Inundation Hazard of the Maltese Islands (Central Mediterranean Sea): A Submarine Landslide and Earthquake Tsunami Scenario Study. <i>Pure and Applied Geophysics</i> , 2020, 177, 1617-1638.	1.9	12
21	The Zanclean megaflood of the Mediterranean “ Searching for independent evidence. <i>Earth-Science Reviews</i> , 2020, 201, 103061.	9.1	34
22	A single-stage megaflood at the termination of the Messinian salinity crisis: Geophysical and modelling evidence from the eastern Mediterranean Basin. <i>Marine Geology</i> , 2020, 430, 106337.	2.1	11
23	Multi-Layered High Permeability Conduits Connecting Onshore and Offshore Coastal Aquifers. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	9
24	Seismic Reflection Methods in Offshore Groundwater Research. <i>Geosciences (Switzerland)</i> , 2020, 10, 299.	2.2	12
25	3D characterisation and quantification of an offshore freshened groundwater system in the Canterbury Bight. <i>Nature Communications</i> , 2020, 11, 1372.	12.8	48
26	A scenario-based assessment of the tsunami hazard in Palermo, northern Sicily, and the southern Tyrrhenian Sea. <i>Geological Society Special Publication</i> , 2020, 500, 63-80.	1.3	4
27	3D Characterization of a Coastal Freshwater Aquifer in SE Malta (Mediterranean Sea) by Time-Domain Electromagnetics. <i>Water (Switzerland)</i> , 2020, 12, 1566.	2.7	8
28	Impact of sea-level fluctuations on the sedimentation patterns of the SE African margin: implications for slope instability. <i>Geological Society Special Publication</i> , 2020, 500, 267-276.	1.3	2
29	Focused fluid seepage related to variations in accretionary wedge structure, Hikurangi margin, New Zealand. <i>Geology</i> , 2020, 48, 56-61.	4.4	31
30	Could offshore groundwater rescue coastal cities?. <i>Nature</i> , 2019, 574, 36-36.	27.8	7
31	From gradual spreading to catastrophic collapse “ Reconstruction of the 1888 Ritter Island volcanic sector collapse from high-resolution 3D seismic data. <i>Earth and Planetary Science Letters</i> , 2019, 517, 1-13.	4.4	44
32	From catastrophic collapse to multi-phase deposition: Flow transformation, seafloor interaction and triggered eruption following a volcanic-island landslide. <i>Earth and Planetary Science Letters</i> , 2019, 517, 135-147.	4.4	32
33	Active degassing across the Maltese Islands (Mediterranean Sea) and implications for its neotectonics. <i>Marine and Petroleum Geology</i> , 2019, 104, 361-374.	3.3	12
34	Geomorphic evolution of the Malta Escarpment and implications for the Messinian evaporative drawdown in the eastern Mediterranean Sea. <i>Geomorphology</i> , 2019, 327, 264-283.	2.6	24
35	A consistent global approach for the morphometric characterization of subaqueous landslides. <i>Geological Society Special Publication</i> , 2019, 477, 455-477.	1.3	51
36	Malta’s Submerged Landscapes and Landforms. <i>World Geomorphological Landscapes</i> , 2019, , 117-128.	0.3	8

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55	First report of live deep-water cnidarian assemblages from the Malta Escarpment. Italian Journal of Zoology, 2015, , 1-7.	0.6	5
56	Space-for-time substitution and the evolution of a submarine canyonâ€“channel system in a passive progradational margin. Geomorphology, 2014, 221, 34-50.	2.6	29
57	Earthquake-Triggered Subaerial Landslides that Caused Large Scale Fjord Sediment Deformation: Combined Subaerial and Submarine Studies of the 2007 AysÃ©n Fjord Event, Chile. , 2014, , 67-70.		4
58	Power series solutions for laminar plumes in a natural environment. Journal of Applied Mechanics and Technical Physics, 2014, 55, 781-792.	0.5	0
59	Morphology and sediment dynamics of the northern Catalan continental shelf, northwestern Mediterranean Sea. Geomorphology, 2014, 204, 1-20.	2.6	23
60	Series solutions for turbulent plumes evolving in a natural environment. Journal of Engineering Thermophysics, 2014, 23, 236-255.	1.4	1
61	Geomorphic response of submarine canyons to tectonic activity: Insights from the Cook Strait canyon system, New Zealand. , 2014, 10, 905-929.		49
62	Holocene sedimentary activity in a non-terrestrially coupled submarine canyon: Cook Strait Canyon system, New Zealand. Deep-Sea Research Part II: Topical Studies in Oceanography, 2014, 104, 120-133.	1.4	26
63	The submerged paleolandscape of the Maltese Islands: Morphology, evolution and relation to Quaternary environmental change. Marine Geology, 2013, 335, 129-147.	2.1	82
64	Sediment dynamics and post-glacial evolution of the continental shelf around the Blanes submarine canyon head (NW Mediterranean). Progress in Oceanography, 2013, 118, 28-46.	3.2	21
65	Construction of an oceanic island: Insights from the El Hierro (Canary Islands) 2011-2012 submarine volcanic eruption. Geology, 2013, 41, 355-358.	4.4	83
66	Significance of the fine drainage pattern for submarine canyon evolution: The Foix Canyon System, Northwestern Mediterranean Sea. Geomorphology, 2013, 184, 20-37.	2.6	19
67	Landslides Cause Tsunami Waves: Insights From AysÃ©n Fjord, Chile. Eos, 2013, 94, 297-298.	0.1	21
68	A multi-method approach for benthic habitat mapping of shallow coastal areas with high-resolution multibeam data. Continental Shelf Research, 2012, 39-40, 14-26.	1.8	134
69	Polyphase Emplacement of a 30 km ³ Blocky Debris Avalanche and Its Role in Slope-Gully Development. , 2012, , 213-222.		11
70	Marine Geomorphology. Developments in Earth Surface Processes, 2011, 15, 377-395.	2.8	11
71	A topographic signature of a hydrodynamic origin for submarine gullies. Geology, 2011, 39, 115-118.	4.4	66
72	Fluid flow systems of the Malta Plateau, Central Mediterranean Sea. Marine Geology, 2011, 284, 74-85.	2.1	26

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73	Making the Case for Marine Spatial Planning in the Maltese Islands. <i>Ocean Development and International Law</i> , 2011, 42, 136-154.	0.7	16
74	Records of black coral (<i>Antipatharia</i>) and red coral (<i>Corallium rubrum</i>) fishing activities in the Maltese Islands. <i>Marine Biodiversity Records</i> , 2010, 3, .	1.2	23
75	Development and mass movement processes of the north-eastern Storegga Slide. <i>Quaternary Science Reviews</i> , 2009, 28, 433-448.	3.0	44
76	Scale invariant characteristics of the Storegga Slide and implications for large-scale submarine mass movements. <i>Marine Geology</i> , 2008, 247, 46-60.	2.1	38
77	New measures of wind angular dispersion in three dimensions. , 2008, , .		1
78	A technique for the morphological characterization of submarine landscapes as exemplified by debris flows of the Storegga Slide. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	45
79	Morphology and mechanics of submarine spreading: A case study from the Storegga Slide. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	50
80	Fractal statistics of the Storegga Slide. , 2007, , 3-10.		2
81	Comparative analysis of estimators for wind direction standard deviation. <i>Meteorological Applications</i> , 2006, 13, 29.	2.1	17
82	First characterisation of a <i>Leiopathes glaberrima</i> (Cnidaria: Anthozoa: Antipatharia) forest in Maltese exploited fishing grounds. <i>Italian Journal of Zoology</i> , 0, , 1-10.	0.6	15