

Nabil Sultan

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.

80
papers

3,292
citations

30
h-index

56
g-index

83
ext. papers

3,723
ext. citations

4.1
avg, IF

4.96
L-index

#	Paper	IF	Citations
80	Effect of gas hydrates melting on seafloor slope instability. <i>Marine Geology</i> , 2004 , 213, 379-401	3.3	323
79	Slope failure dynamics and impacts from seafloor and shallow sub-seafloor geophysical data: case studies from the COSTA project. <i>Marine Geology</i> , 2004 , 213, 9-72	3.3	312
78	Triggering mechanisms of slope instability processes and sediment failures on continental margins: a geotechnical approach. <i>Marine Geology</i> , 2004 , 213, 291-321	3.3	250
77	On the thermal consolidation of Boom clay. <i>Canadian Geotechnical Journal</i> , 2000 , 37, 343-354	3.2	217
76	Temperature effects on the volume change behaviour of Boom clay. <i>Engineering Geology</i> , 2002 , 64, 135-145		195
75	A thermomechanical model for saturated clays. <i>Canadian Geotechnical Journal</i> , 2000 , 37, 607-620	3.2	184
74	The 1979 Nice harbour catastrophe revisited: Trigger mechanism inferred from geotechnical measurements and numerical modelling. <i>Marine Geology</i> , 2007 , 245, 40-64	3.3	130
73	Sr/Ca and Mg/Ca ratios in Niger Delta sediments: Implications for authigenic carbonate genesis in cold seep environments. <i>Marine Geology</i> , 2007 , 241, 93-109	3.3	112
72	Hydrate dissolution as a potential mechanism for pockmark formation in the Niger delta. <i>Journal of Geophysical Research</i> , 2010 , 115,		91
71	Seafloor instabilities and sediment deformation processes: The need for integrated, multi-disciplinary investigations. <i>Marine Geology</i> , 2014 , 352, 183-214	3.3	81
70	26th December 2004 great Sumatra-Andaman earthquake: Co-seismic and post-seismic motions in northern Sumatra. <i>Earth and Planetary Science Letters</i> , 2007 , 263, 88-103	5.3	79
69	Pockmark formation and evolution in deep water Nigeria: Rapid hydrate growth versus slow hydrate dissolution. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 2679-2694	3.6	63
68	Sea-level change and free gas occurrence influencing a submarine landslide and pockmark formation and distribution in deepwater Nigeria. <i>Earth and Planetary Science Letters</i> , 2013 , 375, 78-91	5.3	59
67	A review of undulated sediment features on Mediterranean prodeltas: distinguishing sediment transport structures from sediment deformation. <i>Marine Geophysical Researches</i> , 2011 , 32, 49-69	2.3	51
66	The 100-ka and rapid sea level changes recorded by prograding shelf sand bodies in the Gulf of Lions (western Mediterranean Sea). <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	48
65	Investigation of a possible submarine landslide at the Var delta front (Nice continental slope, southeast France). <i>Canadian Geotechnical Journal</i> , 2010 , 47, 486-496	3.2	47
64	The role of sedimentation rate and permeability in the slope stability of the formerly glaciated Norwegian continental margin: the Storegga slide model. <i>Landslides</i> , 2007 , 4, 297-309	6.6	47

63	Sinuuous pockmark belt as indicator of a shallow buried turbiditic channel on the lower slope of the Congo basin, West African margin. <i>Geological Society Special Publication</i> , 2003 , 216, 173-189	1.7	46
62	Gas hydrate distributions in sediments of pockmarks from the Nigerian margin [Results and interpretation from shallow drilling. <i>Marine and Petroleum Geology</i> , 2015 , 59, 359-370	4.7	42
61	U-Th isotope constraints on gas hydrate and pockmark dynamics at the Niger delta margin. <i>Marine Geology</i> , 2015 , 370, 87-98	3.3	42
60	Potential role of compressional structures in generating submarine slope failures in the Niger Delta. <i>Marine Geology</i> , 2007 , 237, 169-190	3.3	41
59	Detection of free gas and gas hydrate based on 3D seismic data and cone penetration testing: An example from the Nigerian Continental Slope. <i>Marine Geology</i> , 2007 , 240, 235-255	3.3	41
58	Dynamics of gas hydrate: case of the Congo continental slope. <i>Marine Geology</i> , 2004 , 206, 1-18	3.3	41
57	Freshwater lake to salt-water sea causing widespread hydrate dissociation in the Black Sea. <i>Nature Communications</i> , 2018 , 9, 117	17.4	40
56	Mechanical behaviour of gas-charged marine plastic sediments. <i>Geotechnique</i> , 2012 , 62, 751-766	3.4	39
55	Analysis of slope failures in submarine canyon heads: An example from the Gulf of Lions. <i>Journal of Geophysical Research</i> , 2007 , 112,		39
54	Yielding and plastic behaviour of Boom clay. <i>Geotechnique</i> , 2010 , 60, 657-666	3.4	35
53	Initiation of gas-hydrate pockmark in deep-water Nigeria: Geo-mechanical analysis and modelling. <i>Earth and Planetary Science Letters</i> , 2016 , 434, 252-263	5.3	32
52	Morphological control of slope instability in contourites: a geotechnical approach. <i>Landslides</i> , 2018 , 15, 1085-1095	6.6	31
51	Comment on Excess pore pressure resulting from methane hydrate dissociation in marine sediments: A theoretical approach [by Wen Yue Xu and Leonid N. Germanovich. <i>Journal of Geophysical Research</i> , 2007 , 112,		31
50	Hydrogeology and its effect on slope stability along the coastal aquifer of Nice, France. <i>Marine Geology</i> , 2011 , 280, 168-181	3.3	30
49	Mechanical behaviour of unsaturated marine sediments: experimental and theoretical approaches. <i>Marine Geology</i> , 2004 , 213, 323-342	3.3	30
48	Mechanical behaviour of gas-charged fine sediments: model formulation and calibration. <i>Geotechnique</i> , 2014 , 64, 851-864	3.4	28
47	Empirical expressions for gas hydrate stability law, its volume fraction and mass-density at temperatures 273.15K to 290.15K. <i>Geochemical Journal</i> , 2008 , 42, 163-175	0.9	26
46	3-D slope stability analysis: A probability approach applied to the nice slope (SE France). <i>Marine Geology</i> , 2010 , 269, 89-106	3.3	25

45	A geomechanical approach for the genesis of sediment undulations on the Adriatic shelf. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	24
44	Dynamics of fault-fluid-hydrate system around a shale-cored anticline in deepwater Nigeria. <i>Journal of Geophysical Research</i> , 2011 , 116,		23
43	Failure mechanisms of Ana Slide from geotechnical evidence, Eivissa Channel, Western Mediterranean Sea. <i>Marine Geology</i> , 2012 , 307-310, 1-21	3.3	22
42	Microevents produced by gas migration and expulsion at the seabed: a study based on sea bottom recordings from the Sea of Marmara. <i>Geophysical Journal International</i> , 2012 , 190, 993-1007	2.6	20
41	Quantifying the role of sandy/silty sediments in generating slope failures during earthquakes: example from the Algerian margin. <i>International Journal of Earth Sciences</i> , 2009 , 98, 769-789	2.2	20
40	Overpressure within upper continental slope sediments from CPTU data, Gulf of Lion, NW Mediterranean Sea. <i>International Journal of Earth Sciences</i> , 2009 , 98, 751-768	2.2	20
39	New insights into the transport processes controlling the sulfate-methane-transition-zone near methane vents. <i>Scientific Reports</i> , 2016 , 6, 26701	4.9	15
38	Deep sea in situ excess pore pressure and sediment deformation off NW Sumatra and its relation with the December 26, 2004 Great Sumatra-Andaman Earthquake. <i>International Journal of Earth Sciences</i> , 2009 , 98, 823-837	2.2	15
37	Focused hydrocarbon-migration in shallow sediments of a pockmark cluster in the Niger Delta (Off Nigeria). <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 93-112	3.6	13
36	Influence of early diagenesis on geotechnical properties of clay sediments (Romania, Black Sea). <i>Engineering Geology</i> , 2018 , 240, 175-188	6	13
35	Analysis of submarine slumping in the Gabon continental slope. <i>AAPG Bulletin</i> , 2004 , 88, 781-799	2.5	13
34	Evaluation of the Risk of Marine Slope Instability: A Pseudo-3D Approach for Application to Large Areas. <i>Marine Georesources and Geotechnology</i> , 2001 , 19, 107-133	2.2	13
33	Anomalously Deep BSR Related to a Transient State of the Gas Hydrate System in the Western Black Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 442-459	3.6	13
32	Deep-towed High Resolution multichannel seismic imaging. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014 , 93, 83-90	2.5	12
31	Post-glacial persistence of turbiditic activity within the Rhône deep-sea turbidite system (Gulf of Lions, Western Mediterranean): Linking the outer shelf and the basin sedimentary records. <i>Marine Geology</i> , 2009 , 257, 65-86	3.3	12
30	Numerical modeling of bottom trawling-induced sediment transport and accumulation in La Fonera submarine canyon, northwestern Mediterranean Sea. <i>Marine Geology</i> , 2017 , 386, 107-125	3.3	10
29	Sediment damage caused by gas exsolution: A key mechanism for mud volcano formation. <i>Engineering Geology</i> , 2019 , 263, 105313	6	9
28	Evolution Model for the Absheron Mud Volcano: From In Situ Observations to Numerical Modeling. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019 , 124, 766-794	3.8	9

27	In situ equilibrium pore-water pressures derived from partial piezoprobe dissipation tests in marine sediments. <i>Canadian Geotechnical Journal</i> , 2013 , 50, 1294-1305	3.2	8
26	Altered volcanic deposits as basal failure surfaces of submarine landslides. <i>Geology</i> , 2018 , 46, 663-666	5	8
25	Impact of tides and sea-level on deep-sea Arctic methane emissions. <i>Nature Communications</i> , 2020 , 11, 5087	17.4	7
24	Hydromechanical Properties of Gas Hydrate-Bearing Fine Sediments From In Situ Testing. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 9615-9634	3.6	7
23	Submarine Landslides Along the Algerian Margin: A Review of Their Occurrence and Potential Link with Tectonic Structures 2010 , 515-525		6
22	A multi-disciplinary approach to marine shallow geohazard assessment. <i>Near Surface Geophysics</i> , 2012 , 10, 279-288	1.6	5
21	A Long-term Monitoring Array for Landslide Precursors: A Case Study at the Ligurian Slope (Western Mediterranean Sea) 2012 ,		5
20	Irregular BSR: Evidence of an Ongoing Reequilibrium of a Gas Hydrate System. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089906	4.9	5
19	Mass-Transport Deposits on the Algerian Margin (Algiers Area): Morphology, Lithology and Sedimentary Processes 2010 , 527-539		4
18	Subseafloor stratigraphic profiling and soil classification from piezocone tests: A case study in the Gulf of Lion (NW Mediterranean Sea). <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	4
17	Evaluation of the Risk of Marine Slope Instability: A Pseudo-3D Approach for Application to Large Areas. <i>Marine Georesources and Geotechnology</i> , 2001 , 19, 107-133	2.2	4
16	Identification of Shear Zones and Their Causal Mechanisms Using a Combination of Cone Penetration Tests and Seismic Data in the Eastern Niger Delta 2010 , 55-65		4
15	Seafloor depressions on the Nigerian margin: Seabed morphology and sub-seabed hydrate distribution. <i>Marine and Petroleum Geology</i> , 2020 , 114, 104175	4.7	4
14	Semi-quantitative Analysis of Factors Affecting Gas Hydrate Formation Conditions and Its Fractions. <i>Chinese Journal of Geophysics</i> , 2008 , 51, 97-104		3
13	The Penfeld seabed penetrometer 2005 ,		3
12	Comment on Sedimentation Controls on Methane-Hydrate Dynamics Across Glacial/Interglacial Stages: An Example From International Ocean Discovery Program Site U1517, Hikurangi Margin by E. J. Screaton et al.. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2019GC008846	3.6	2
11	Comportement thermomécanique de l'argile de Boom. <i>Comptes Rendus Mécanique</i> , 2000 , 328, 457-463		2
10	Surconsolidation apparente et pression osmotique dans un sédiment marin. <i>Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes</i> =, 2000 , 331, 379-386		2

9	Shallow Gas Hydrate Accumulations at a Nigerian Deepwater Pockmark Quantities and Dynamics. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2019JB018283	3.6	2
8	Detailed Analysis of a Submarine Landslide (SAR-27) in the Deep Basin Offshore Algiers (Western Mediterranean) 2010 , 541-552		1
7	Transient Groundwater Flow Through a Coastal Confined Aquifer and Its Impact on Nearshore Submarine Slope Instability. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020 , 125, e2020JF005654	3.8	1
6	Creep-dilatancy development at a transform plate boundary.. <i>Nature Communications</i> , 2022 , 13, 1913	17.4	1
5	Evolution Model for the Absheron Mud Volcano: From Stratified Sediments to Fluid Mud Generation. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020 , 125, e2020JF005623	3.8	0
4	Pore Habit of Gas in Gassy Sediments. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB023161	3.11	0
3	Numerical analysis of piezocone penetrometer testing in partially saturated marine sediments 2008 , 841-846		
2	Distinguishing Sediment Bedforms from Sediment Deformation in Prodeltas of the Mediterranean Sea 2012 , 233-244		
1	Seabed Gas Hydrates 2018 , 1-12		