Nabil Sultan

List of Publications by Year in descending order

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NARII SIIITAN

#	Article	IF	CITATIONS
1	Effect of gas hydrates melting on seafloor slope instability. Marine Geology, 2004, 213, 379-401.	2.1	389
2	Slope failure dynamics and impacts from seafloor and shallow sub-seafloor geophysical data: case studies from the COSTA project. Marine Geology, 2004, 213, 9-72.	2.1	348
3	Triggering mechanisms of slope instability processes and sediment failures on continental margins: a geotechnical approach. Marine Geology, 2004, 213, 291-321.	2.1	285
4	On the thermal consolidation of Boom clay. Canadian Geotechnical Journal, 2000, 37, 343-354.	2.8	281
5	Temperature effects on the volume change behaviour of Boom clay. Engineering Geology, 2002, 64, 135-145.	6.3	254
6	A thermomechanical model for saturated clays. Canadian Geotechnical Journal, 2000, 37, 607-620.	2.8	228
7	Sr/Ca and Mg/Ca ratios in Niger Delta sediments: Implications for authigenic carbonate genesis in cold seep environments. Marine Geology, 2007, 241, 93-109.	2.1	160
8	The 1979 Nice harbour catastrophe revisited: Trigger mechanism inferred from geotechnical measurements and numerical modelling. Marine Geology, 2007, 245, 40-64.	2.1	158
9	Seafloor instabilities and sediment deformation processes: The need for integrated, multi-disciplinary investigations. Marine Geology, 2014, 352, 183-214.	2.1	110
10	Hydrate dissolution as a potential mechanism for pockmark formation in the Niger delta. Journal of Geophysical Research, 2010, 115, .	3.3	109
11	Pockmark formation and evolution in deep water Nigeria: Rapid hydrate growth versus slow hydrate dissolution. Journal of Geophysical Research: Solid Earth, 2014, 119, 2679-2694.	3.4	91
12	26th December 2004 great Sumatra–Andaman earthquake: Co-seismic and post-seismic motions in northern Sumatra. Earth and Planetary Science Letters, 2007, 263, 88-103.	4.4	86
13	Sea-level change and free gas occurrence influencing a submarine landslide and pockmark formation and distribution in deepwater Nigeria. Earth and Planetary Science Letters, 2013, 375, 78-91.	4.4	67
14	A review of undulated sediment features on Mediterranean prodeltas: distinguishing sediment transport structures from sediment deformation. Marine Geophysical Researches, 2011, 32, 49-69.	1.2	58
15	The role of sedimentation rate and permeability in the slope stability of the formerly glaciated Norwegian continental margin: the Storegga slide model. Landslides, 2007, 4, 297-309.	5.4	57
16	Investigation of a possible submarine landslide at the Var delta front (Nice continental slope,) Tj ETQq0 0 0 rgBT	/Oyerlock 2.8	10, T f 50 142

17	Mechanical behaviour of gas-charged marine plastic sediments. Geotechnique, 2012, 62, 751-766.	4.0	56
18	U-Th isotope constraints on gas hydrate and pockmark dynamics at the Niger delta margin. Marine Geology, 2015, 370, 87-98.	2.1	56

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19	Freshwater lake to salt-water sea causing widespread hydrate dissociation in the Black Sea. Nature Communications, 2018, 9, 117.	12.8	56
20	Sinuous pockmark belt as indicator of a shallow buried turbiditic channel on the lower slope of the Congo basin, West African margin. Geological Society Special Publication, 2003, 216, 173-189.	1.3	55
21	Detection of free gas and gas hydrate based on 3D seismic data and cone penetration testing: An example from the Nigerian Continental Slope. Marine Geology, 2007, 240, 235-255.	2.1	55
22	The 100â€ka and rapid sea level changes recorded by prograding shelf sand bodies in the Gulf of Lions (western Mediterranean Sea). Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	54
23	Gas hydrate distributions in sediments of pockmarks from the Nigerian margin – Results and interpretation from shallow drilling. Marine and Petroleum Geology, 2015, 59, 359-370.	3.3	52
24	Yielding and plastic behaviour of Boom clay. Geotechnique, 2010, 60, 657-666.	4.0	48
25	Dynamics of gas hydrate: case of the Congo continental slope. Marine Geology, 2004, 206, 1-18.	2.1	46
26	Potential role of compressional structures in generating submarine slope failures in the Niger Delta. Marine Geology, 2007, 237, 169-190.	2.1	45
27	Initiation of gas-hydrate pockmark in deep-water Nigeria: Geo-mechanical analysis and modelling. Earth and Planetary Science Letters, 2016, 434, 252-263.	4.4	44
28	Morphological control of slope instability in contourites: a geotechnical approach. Landslides, 2018, 15, 1085-1095.	5.4	43
29	Analysis of slope failures in submarine canyon heads: An example from the Gulf of Lions. Journal of Geophysical Research, 2007, 112, .	3.3	42
30	Hydrogeology and its effect on slope stability along the coastal aquifer of Nice, France. Marine Geology, 2011, 280, 168-181.	2.1	41
31	Mechanical behaviour of gas-charged fine sediments: model formulation and calibration. Geotechnique, 2014, 64, 851-864.	4.0	37
32	Comment on "Excess pore pressure resulting from methane hydrate dissociation in marine sediments: A theoretical approach―by Wenyue Xu and Leonid N. Germanovich. Journal of Geophysical Research, 2007, 112, .	3.3	36
33	Microevents produced by gas migration and expulsion at the seabed: a study based on sea bottom recordings from the Sea of Marmara. Geophysical Journal International, 2012, 190, 993-1007.	2.4	35
34	Mechanical behaviour of unsaturated marine sediments: experimental and theoretical approaches. Marine Geology, 2004, 213, 323-342.	2.1	34
35	3-D slope stability analysis: A probability approach applied to the nice slope (SE France). Marine Geology, 2010, 269, 89-106.	2.1	34
36	Impact of tides and sea-level on deep-sea Arctic methane emissions. Nature Communications, 2020, 11, 5087.	12.8	34

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37	Quantifying the role of sandy–silty sediments in generating slope failures during earthquakes: example from the Algerian margin. International Journal of Earth Sciences, 2009, 98, 769-789.	1.8	29
38	A geomechanical approach for the genesis of sediment undulations on the Adriatic shelf. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	27
39	Empirical expressions for gas hydrate stability law, its volume fraction and mass-density at temperatures 273.15K to 290.15K. Geochemical Journal, 2008, 42, 163-175.	1.0	27
40	Failure mechanisms of Ana Slide from geotechnical evidence, Eivissa Channel, Western Mediterranean Sea. Marine Geology, 2012, 307-310, 1-21.	2.1	27
41	Dynamics of fault-fluid-hydrate system around a shale-cored anticline in deepwater Nigeria. Journal of Geophysical Research, 2011, 116, .	3.3	26
42	Overpressure within upper continental slope sediments from CPTU data, Gulf of Lion, NW Mediterranean Sea. International Journal of Earth Sciences, 2009, 98, 751-768.	1.8	21
43	New insights into the transport processes controlling the sulfate-methane-transition-zone near methane vents. Scientific Reports, 2016, 6, 26701.	3.3	20
44	Focused hydrocarbonâ€migration in shallow sediments of a pockmark cluster in the Niger Delta (Off) Tj ETQq0 0	0.rgBT /Ov	verlock 10 Th
45	Sediment damage caused by gas exsolution: A key mechanism for mud volcano formation. Engineering Geology, 2019, 263, 105313.	6.3	19
46	Anomalously Deep BSR Related to a Transient State of the Gas Hydrate System in the Western Black Sea. Geochemistry, Geophysics, Geosystems, 2019, 20, 442-459.	2.5	19
47	Deep-towed High Resolution multichannel seismic imaging. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 93, 83-90.	1.4	18
48	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. International Journal of Earth Sciences, 2009, 98, 823-837.	1.8	17
49	Post-glacial persistence of turbiditic activity within the Rhône deep-sea turbidite system (Gulf of) Tj ETQq1 1 0.7 Geology, 2009, 257, 65-86.	84314 rgB ⁻ 2.1	T /Overlock 17
50	Influence of early diagenesis on geotechnical properties of clay sediments (Romania, Black Sea). Engineering Geology, 2018, 240, 175-188.	6.3	17

51	Analysis of submarine slumping in the Gabon continental slope. AAPG Bulletin, 2004, 88, 781-799.	1.5	15
52	Evaluation of the Risk of Marine Slope Instability: A Pseudo-3D Approach for Application to Large Areas. Marine Georesources and Geotechnology, 2001, 19, 107-133.	2.1	14
53	Numerical modeling of bottom trawling-induced sediment transport and accumulation in La Fonera submarine canyon, northwestern Mediterranean Sea. Marine Geology, 2017, 386, 107-125.	2.1	13
54	Hydromechanical Properties of Gas Hydrateâ€Bearing Fine Sediments From In Situ Testing. Journal of Geophysical Research: Solid Earth, 2018, 123, 9615-9634.	3.4	12

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55	In situ equilibrium pore-water pressures derived from partial piezoprobe dissipation tests in marine sediments. Canadian Geotechnical Journal, 2013, 50, 1294-1305.	2.8	11
56	Irregular BSR: Evidence of an Ongoing Reequilibrium of a Gas Hydrate System. Geophysical Research Letters, 2020, 47, e2020GL089906.	4.0	11
57	Evolution Model for the Absheron Mud Volcano: From In Situ Observations to Numerical Modeling. Journal of Geophysical Research F: Earth Surface, 2019, 124, 766-794.	2.8	10
58	Shallow Gas Hydrate Accumulations at a Nigerian Deepwater Pockmark—Quantities and Dynamics. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018283.	3.4	10
59	Altered volcanic deposits as basal failure surfaces of submarine landslides. Geology, 2018, 46, 663-666.	4.4	9
60	Submarine Landslides Along the Algerian Margin: A Review of Their Occurrence and Potential Link with Tectonic Structures. , 2010, , 515-525.		8
61	Pore Habit of Gas in Gassy Sediments. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021511.	3.4	8
62	A Long-term Monitoring Array for Landslide Precursors: A Case Study at the Ligurian Slope (Western) Tj ETQq0 () 0 rgBT /C	OverJock 10 Tf
63	A multiâ€disciplinary approach to marine shallow geohazard assessment. Near Surface Geophysics, 2012, 10, 279-288.	1.2	6
64	Seafloor depressions on the Nigerian margin: Seabed morphology and sub-seabed hydrate distribution. Marine and Petroleum Geology, 2020, 114, 104175.	3.3	6
65	Transient Groundwater Flow Through a Coastal Confined Aquifer and Its Impact on Nearshore Submarine Slope Instability. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2020JF005654.	2.8	6
66	The Penfeld seabed penetrometer. , 2005, , .		5
67	Mass-Transport Deposits on the Algerian Margin (Algiers Area): Morphology, Lithology and Sedimentary Processes. , 2010, , 527-539.		5
68	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.		5
69	Comportement thermomécanique de l'argile de Boom. Comptes Rendus Mecanique, 2000, 328, 457-463.	0.2	4
70	Evaluation of the Risk of Marine Slope Instability: A Pseudo-3D Approach for Application to Large Areas. Marine Georesources and Geotechnology, 2001, 19, 107-133.	2.1	4
71	Subseafloor stratigraphic profiling and soil classification from piezocone tests: A case study in the Gulf of Lion (NW Mediterranean Sea). Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	4
72	Semiâ€quantitative Analysis of Factors Affecting Gas Hydrate Formation Conditions and Its Fractions. Chinese Journal of Geophysics, 2008, 51, 97-104.	0.2	3

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73	Creep-dilatancy development at a transform plate boundary. Nature Communications, 2022, 13, 1913.	12.8	3
74	Surconsolidation apparente et pression osmotique dans un sédiment marin. Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes =, 2000, 331, 379-386.	0.2	2
75	Evolution Model for the Absheron Mud Volcano: From Stratified Sediments to Fluid Mud Generation. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2020JF005623.	2.8	2
76	Comment on "Sedimentation Controls on Methaneâ€Hydrate Dynamics Across Glacial/Interglacial Stages: An Example From International Ocean Discovery Program Site U1517, Hikurangi Margin†by E.ÂJ. Screaton et al Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008846.	2.5	2
77	Detailed Analysis of a Submarine Landslide (SAR-27) in the Deep Basin Offshore Algiers (Western) Tj ETQq1 1 0.7	84314 rgl	BT ₁ /Overlock
78	Numerical analysis of piezocone penetrometer testing in partially saturated marine sediments. , 2008, , 841-846.		0
79	Assessing Spatioâ€Temporal Variability of Free Gas in Surficial Cohesive Sediments Using Tidal Pressure Fluctuations. Journal of Geophysical Research F: Earth Surface, 2021, 126, .	2.8	0
80	Distinguishing Sediment Bedforms from Sediment Deformation in Prodeltas of the Mediterranean Sea. , 2012, , 233-244.		0