John A Goff

List of Publications by Citations

117	3,512	35	54
papers	citations	h-index	g-index
128	3,873	4.2	5.43
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
117	Stochastic Modeling of Seafloor Morphology: Inversion of Sea Beam Data for Second-Order Statistics. *Journal of Geophysical Research*, **1988**, 93, 13589-13608		319
116	Seabed characterization on the New Jersey middle and outer shelf: correlatability and spatial variability of seafloor sediment properties. *Marine Geology*, **2004**, 209, 147-172	3.3	126
115	Shallow Water '06: A Joint Acoustic Propagation/Nonlinear Internal Wave Physics Experiment. *Oceanography*, **2007**, 20, 156-167	2.3	116
114	A global and regional stochastic analysis of near-ridge Abyssal Hill morphology. *Journal of Geophysical Research*, **1991**, 96, 21713-21737		107
113	Correlation of side-scan backscatter intensity with grain-size distribution of shelf sediments, New Jersey margin. *Geo-Marine Letters*, **2000**, 20, 43-49	1.9	89
112	Anisotropic considerations while interpolating river channel bathymetry. *Journal of Hydrology*, **2006** , 331, 731-741	6	86
111	High-resolution swath sonar investigation of sand ridge, dune and ribbon morphology in the offshore environment of the New Jersey margin. *Marine Geology*, **1999**, 161, 307-337	3.3	85
110	Seismic Facies of Incised-Valley Fills, New Jersey Continental Shelf: Implications for Erosion and Preservation Processes Acting During Latest Pleistocene-Holocene Transgression. *Journal of Sedimentary Research*, **2006**, 76, 1284-1303	2.1	75
109	Potential for large-scale submarine slope failure and tsunami generation along the U.S. mid-Atlantic coast. *Geology*, **2000**, 28, 407	5	75
108	Global rate and spectral characteristics of internal gravity wave generation by geostrophic flow over topography. *Journal of Geophysical Research*, **2011**, 116,		74
107	Detailed investigation of sorted bedforms, or ripple scour depressions, within the Martha's Vineyard Coastal Observatory, Massachusetts. *Continental Shelf Research*, **2005**, 25, 461-484	2.4	74
106	Detailed investigation of continental shelf morphology using a high-resolution swath sonar survey: the Eel margin, northern California. *Marine Geology*, **1999**, 154, 255-269	3.3	69
105	Tracking the last sea-level cycle: seafloor morphology and shallow stratigraphy of the latest Quaternary New Jersey middle continental shelf. *Marine Geology*, **2000**, 170, 395-421	3.3	67
104	Synthesis of Oceanic Crustal Structure From Two-Dimensional Seismic Profiles. *Reviews of Geophysics*, **2019**, 57, 504-529	23.1	66
103	Recent and modern marine erosion on the New Jersey outer shelf. *Marine Geology*, **2005**, 216, 275-296	3.3	66
102	Stochastic modeling of the reflective lower crust: Petrophysical and geological evidence from the Ivera Zone (northern Italy). *Journal of Geophysical Research*, **1993**, 98, 11967-11980		65
101	Modal fields: A new method for characterization of random seismic velocity heterogeneity. *Geophysical Research Letters*, **1994**, 21, 493-496	4.9	62

100	Seismic geomorphology of buried channel systems on the New Jersey outer shelf: assessing past environmental conditions. *Marine Geology*, **2005**, 214, 339-364	3.3	61
99	Stochastic analysis of seafloor morphology on the flank of the Southeast Indian Ridge: The influence of ridge morphology on the formation of abyssal hills. *Journal of Geophysical Research*, **1997**, 102, 15521-15534		59
98	Earthquake source mechanisms and transform fault tectonics in the Gulf of California. *Journal of Geophysical Research*, **1987**, 92, 10485-10510		58
97	Offshore transport of sediment during cyclonic storms: Hurricane Ike (2008), Texas Gulf Coast, USA. *Geology*, **2010**, 38, 351-354	5	53
96	Global prediction of abyssal hill roughness statistics for use in ocean models from digital maps of paleo-spreading rate, paleo-ridge orientation, and sediment thickness. *Ocean Modelling*, **2010**, 32, 36-43	3	50
95	Acoustic backscatter of the 1995 flood deposit on the Eel shelf. *Marine Geology*, **1999**, 154, 197-210	3.3	48
94	Morphology of a Superfast Mid-Ocean Ridge crest and flanks: The East Pacific Rise, 7°–9° S. *Marine Geophysical Researches*, **1993**, 15, 65-75	2.3	48
93	Nature and origin of upper crustal seismic velocity fluctuations and associated scaling properties: Combined stochastic analyses of KTB velocity and lithology logs. *Journal of Geophysical Research*, **1999**, 104, 13169-13182		45
92	Internal tide generation by abyssal hills using analytical theory. *Journal of Geophysical Research: Oceans*, **2013**, 118, 6303-6318	3.3	41
91	Abyssal Hill Segmentation: Quantitative analysis of the East Pacific Rise flanks 7°S–9°S. *Journal of Geophysical Research*, **1993**, 98, 13851-13862		40
90	Shallow stratigraphy and complex transgressive ravinement on the New Jersey middle and outer continental shelf. *Marine Geology*, **2009**, 266, 232-243	3.3	39
89	Geomorphological evidence for upslope canyon-forming processes on the northern KwaZulu-Natal shelf, SW Indian Ocean, South Africa. *Geo-Marine Letters*, **2007**, 27, 399-409	1.9	39
88	Quantitative classification of canyon systems on continental slopes and a possible relationship to slope curvature. *Geophysical Research Letters*, **2001**, 28, 4359-4362	4.9	39
87	Geoacoustic Inversion for the New Jersey Shelf: 3-D Sediment Model. *IEEE Journal of Oceanic Engineering*, **2010**, 35, 28-42	3.3	38
86	Quantitative analysis of abyssal hills in the Atlantic Ocean: A correlation between inferred crustal thickness and extensional faulting. *Journal of Geophysical Research*, **1995**, 100, 22509-22522		37
85	Long range acoustic imaging of the continental shelf environment: the Acoustic Clutter Reconnaissance Experiment 2001. *Journal of the Acoustical Society of America*, **2005**, 117, 1977-98	2.2	36
84	Depth-Dependent Geoacoustic Inferences With Dispersion at the New England Mud Patch via Reflection Coefficient Inversion. *IEEE Journal of Oceanic Engineering*, **2020**, 45, 69-91	3.3	36
83	Stochastic characterization and seismic response of upper and middle crustal rocks based on the Lewisian gneiss complex, Scotland. *Geophysical Journal International*, **1994**, 119, 243-259	2.6	35

82	Global prediction of abyssal hill root-mean-square heights from small-scale altimetric gravity variability. *Journal of Geophysical Research*, **2010**, 115,		34
81	Stochastic modeling of seafloor morphology: A parameterized Gaussian model. *Geophysical Research Letters*, **1989**, 16, 45-48	4.9	34
80	Stratigraphic analysis of a sediment pond within the New England Mud Patch: New constraints from high-resolution chirp acoustic reflection data. *Marine Geology*, **2019**, 412, 81-94	3.3	32
79	Geoacoustic inversion on the New England Mud Patch using warping and dispersion curves of high-order modes. *Journal of the Acoustical Society of America*, **2018**, 143, EL405	2.2	31
78	Interpolation of Fluvial Morphology Using Channel-Oriented Coordinate Transformation: A Case Study from the New Jersey Shelf. *Mathematical Geosciences*, **2004**, 36, 643-658		29
77	The Impact of Small-Scale Topography on the Dynamical Balance of the Ocean. *Journal of Physical Oceanography*, **2013**, 43, 647-668	2.4	28
76	In Situ Measurements of Compressional Wave Speed During Gravity Coring Operations in the New England Mud Patch. *IEEE Journal of Oceanic Engineering*, **2020**, 45, 26-38	3.3	28
75	Maximum Entropy Derived Statistics of Sound-Speed Structure in a Fine-Grained Sediment Inferred From Sparse Broadband Acoustic Measurements on the New England Continental Shelf. *IEEE Journal of Oceanic Engineering*, **2020**, 45, 161-173	3.3	27
74	Seismic morphology and infilling structure of the buried channel system beneath the inner shelf off western Long Island, New York: Accessing clues to palaeo-estuarine and coastal processes. *Marine Geology*, **2017**, 387, 12-30	3.3	26
73	The impact of Hurricane Sandy on the shoreface and inner shelf of Fire Island, New York: Large bedform migration but limited erosion. *Continental Shelf Research*, **2015**, 98, 13-25	2.4	26
72	Impact of parameterized lee wave drag on the energy budget of an eddying global ocean model. *Ocean Modelling*, **2013**, 72, 119-142	3	26
71	Wilkes transform system and "nannoplate". *Geology*, **1993**, 21, 623	5	26
70	Quantitative characterization of abyssal Hill morphology along flow lines in the Atlantic Ocean. *Journal of Geophysical Research*, **1992**, 97, 9183		26
69	. *IEEE Journal of Oceanic Engineering*, **1989**, 14, 326-337	3.3	26
68	The Bauer scarp ridge jump: a complex tectonic sequence revealed in satellite altimetry. *Earth and Planetary Science Letters*, **1996**, 141, 21-33	5.3	25
67	Flow line variations in abyssal hill morphology for the Pacific-Antarctic Ridge at 65°S. *Journal of Geophysical Research*, **1994**, 99, 17921-17934		25
66	Multiscale spectral analysis of bathymetry on the flank of the Mid-Atlantic Ridge: Modification of the seafloor by mass wasting and sedimentation. *Journal of Geophysical Research*, **1997**, 102, 15447-15462		24
65	Seismic and core investigation off Panama city, Florida, reveals sand ridge influence on formation of the shoreface ravinement. *Continental Shelf Research*, **2014**, 88, 34-46	2.4	22

64	Large-scale elongated gas blowouts along the U.S. Atlantic margin. *Journal of Geophysical Research*, **2004**, 109, n/a-n/a		22
63	Seismic and bathymetric evidence for four different episodes of iceberg scouring on the New Jersey outer shelf: Possible correlation to Heinrich events. *Marine Geology*, **2009**, 266, 244-254	3.3	21
62	Seabed acoustics of a sand ridge on the New Jersey continental shelf. *Journal of the Acoustical Society of America*, **2008**, 124, EL151-6	2.2	21
61	Incorporating "continuous connectivity" into stochastic models of crustal heterogeneity: Examples from the Lewisian gneiss complex, Scotland, the Franciscan formation, California, and the Hafafit Gneiss Complex, Egypt. *Journal of Geophysical Research*, **1996**, 101, 8489-8501		21
60	Seabed mapping and characterization of sediment variability using the usSEABED data base. *Continental Shelf Research*, **2008**, 28, 614-633	2.4	20
59	Observations of the R reflector and sediment interface reflection at the Shallow Water '06 Central Site. *Journal of the Acoustical Society of America*, **2008**, 124, EL128-34	2.2	20
58	Comparison of a stochastic seafloor model with SeaMARC II Bathymetry and Sea Beam data near the East Pacific Rise 13°–15°N. *Journal of Geophysical Research*, **1991**, 96, 3867-3885		20
57	Conditional simulation of Thwaites Glacier (Antarctica) bed topography for flow models: Incorporating inhomogeneous statistics and channelized morphology. *Journal of Glaciology*, **2014**, 60, 635-646	3.4	19
56	Comment on "Fractal mapping of digitized images: Application to the topography of arizona and comparison with synthetic images" by J. Huang and D. L. Turcotte. *Journal of Geophysical Research*, **1990**, 95, 5159		17
55	Basal inflection-controlled shelf-edge wedges off New Jersey track sea-level fall. *Geology*, **2005**, 33, 429	5	16
54	Relict iceberg keel marks on the New Jersey outer shelf, southern Hudson apron. *Geology*, **2001**, 29, 411	5	16
53	Spatial variability of prodeltaic undulations on the Guadalfeo River prodelta: support to the genetic interpretation as hyperpycnal flow deposits. *Marine Geophysical Researches*, **2015**, 36, 309-333	2.3	15
52	Comment on "Glacial cycles drive variations in the production of oceanic crust". *Science*, **2015**, 349, 1065	33.3	15
51	Spatial variability of shelf sediments in the STRATAFORM natural laboratory, Northern California. *Continental Shelf Research*, **2002**, 22, 1199-1223	2.4	15
50	Improvement of Fourier-Based Unconditional and Conditional Simulations for Band Limited Fractal (von Kármán) Statistical Models. *Mathematical Geosciences*, **1999**, 31, 627-649		15
49	Gulf of Alaska continental slope morphology: Evidence for recent trough mouth fan formation. *Geochemistry, Geophysics, Geosystems*, **2015**, 16, 165-177	3.6	14
48	Quantitative analysis of sea ice draft: 1. Methods for stochastic modeling. *Journal of Geophysical Research*, **1995**, 100, 6993		14
47	Modeling the Sedimentology and Stratigraphy of Continental Margins. *Oceanography*, **1996**, 9, 183-188	2.3	14

46	A Generic Model for the 1/f-Nature of Seismic Velocity Fluctuations **2003**, 131-154		14
45	Morainal bank progradation and sediment accumulation in Disenchantment Bay, Alaska: Response to advancing Hubbard Glacier. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		13
44	Swath Mapping on the Continental Shelf and Slope: The Eel River Basin, Northern California. *Oceanography*, **1996**, 9, 178-182	2.3	13
43	Estimates of Low-Frequency Sound Speed and Attenuation in a Surface Mud Layer Using Low-Order Modes. *IEEE Journal of Oceanic Engineering*, **2020**, 45, 201-211	3.3	13
42	An outflow event on the left side of Hurricane Harvey: Erosion of barrier sand and seaward transport through Aransas Pass, Texas. *Geomorphology*, **2019**, 334, 44-57	4.3	11
41	Abyssal hill characterization at the ultraslow spreading Southwest Indian Ridge. *Geochemistry, Geophysics, Geosystems*, **2012**, 13, n/a-n/a	3.6	11
40	Effect of Inhomogeneous Sub-Bottom Layering on Broadband Acoustic Propagation. *IEEE Journal of Oceanic Engineering*, **2010**, 35, 732-743	3.3	11
39	Maximum a posteriori resampling of noisy, spatially correlated data. *Geochemistry, Geophysics, Geosystems*, **2006**, 7, n/a-n/a	3.6	11
38	Quantitative comparison of bathymetric survey systems. *Geophysical Research Letters*, **1991**, 18, 1253-1256	4.9	11
37	South Atlantic Transect: Variations in Oceanic Crustal Structure at 31°S. *Geochemistry, Geophysics, Geosystems*, **2020**, 21, e2020GC009017	3.6	10
36	Impact of synthetic abyssal hill roughness on resolved motions in numerical global ocean tide models. *Ocean Modelling*, **2017**, 112, 1-16	3	9
35	Forced regressive and lowstand Hudson paleo-Delta system: Latest Pliocene growth of the outer New Jersey shelf. *Marine Geology*, **2013**, 339, 57-70	3.3	9
34	A deterministic and stochastic velocity model for the Salton Trough/Basin and Range transition zone and constraints on magmatism during rifting. *Journal of Geophysical Research*, **1996**, 101, 27883-27897		9
33	Reinterpretation of the Franklin Shoreln the Mid-Atlantic bight as a paleo-shelf edge. *Continental Shelf Research*, **2013**, 60, 64-69	2.4	8
32	Synthetic seismograms through synthetic Franciscan: Insights into factors affecting large-aperture seismic data. *Geophysical Research Letters*, **1997**, 24, 3317-3320	4.9	8
31	Calculation of In Situ Acoustic Wave Properties in Marine Sediments **2002**, 123-130		8
30	A correspondence of altimetric gravity texture to abyssal hill morphology along the flanks of the Southeast Indian Ridge. *Geophysical Research Letters*, **2003**, 30,	4.9	7
29	No Evidence for Milankovitch Cycle Influence on Abyssal Hills at Intermediate, Fast, and Superfast Spreading Rates. *Geophysical Research Letters*, **2018**, 45, 10,305	4.9	7

28	Oyster reef die-offs in stratigraphic record of Corpus Christi Bay, Texas, possibly caused by drought-driven extreme salinity changes. *Holocene*, **2016**, 26, 511-519	2.6	6
27	Shoreface ravinement evolution tracked by repeat geophysical surveys following Hurricane Ike, Bolivar Peninsula, Texas, 2008–2013. *Geophysics*, **2015**, 80, WB1-WB10	3.1	6
26	Sorted bedforms off Western Long Island, New York, USA: Asymmetrical morphology and twelve-year migration record. *Sedimentology*, **2018**, 65, 2202-2222	3.3	6
25	Measurements of Geologic Characteristics and Geophysical Properties of Sediments From the New England Mud Patch. *IEEE Journal of Oceanic Engineering*, **2021**, 1-28	3.3	6
24	The Last Glacial: Insights from continuous coring on the New Jersey continental shelf. *Marine Geology*, **2013**, 335, 78-99	3.3	5
23	Quantitative analysis of sea ice draft: 2. Application of stochastic modeling to intersecting topographic profiles. *Journal of Geophysical Research*, **1995**, 100, 7005		5
22	A utilitarian approach to modeling non-Gaussian characteristics of a topographic field. *Journal of Geophysical Research*, **1993**, 98, 19635-19647		5
21	Improved Bathymetric Prediction Using Geological Information: SYNBATH. *Earth and Space Science*, **2022**, 9,	3.1	5
20	Estuarine development and early Holocene transgression across an aeolianite substrate, Caesarea, central Israel. *Continental Shelf Research*, **2018**, 158, 33-44	2.4	4
19	Lower shoreface seismic stratigraphy and morphology off Fire Island, New York: Evidence for lobate progradation and linear erosion. *Continental Shelf Research*, **2018**, 163, 23-34	2.4	4
18	Modern and Fossil Pockmarks in the New England Mud Patch: Implications for Submarine Groundwater Discharge on the Middle Shelf. *Geophysical Research Letters*, **2019**, 46, 12213-12220	4.9	4
17	Guest Editorial Capturing Uncertainty in the Tactical Ocean Environment. *IEEE Journal of Oceanic Engineering*, **2006**, 31, 245-248	3.3	4
16	Simulation of Stratigraphic Architecture from Statistical and Geometrical Characterizations. *Mathematical Geosciences*, **2000**, 32, 765-786		4
15	The relationship between local- and global-scale scattering functions for fractal surfaces under a separation of scales hypothesis. *Journal of the Acoustical Society of America*, **1995**, 97, 1586-1595	2.2	4
14	Identifying Characteristic and Anomalous Mantle From the Complex Relationship Between Abyssal Hill Roughness and Spreading Rates. *Geophysical Research Letters*, **2020**, 47, e2020GL088162	4.9	3
13	Solution pans and linear sand bedforms on the bare-rock limestone shelf of the Campeche Bank, Yucatán Peninsula, Mexico. *Continental Shelf Research*, **2016**, 117, 57-66	2.4	3
12	Imaging evidence for Hubbard Glacier advances and retreats since the last glacial maximum in Yakutat and Disenchantment Bays, Alaska. *Geochemistry, Geophysics, Geosystems*, **2015**, 16, 1962-1974	3.6	3
11	Statistical characterization of Geosat altimetry noise: Dependence on environmental parameters. *Geochemistry, Geophysics, Geosystems*, **2009**, 10, n/a-n/a	3.6	3

10	Development of a system for in situ measurements of geoacoustic properties during sediment coring **2016**,		3
9	Transdimensional Geoacoustic Inversion Using Prior Information on Range-Dependent Seabed Layering. *IEEE Journal of Oceanic Engineering*, **2021**, 1-13	3.3	3
8	Rapid Response Survey Gauges Sandy's Impact on Seafloor. *Eos*, **2013**, 94, 337-338	1.5	2
7	Analysis of hummocky bedforms offshore Fire Island, New York, generated by superstorm Sandy. *Continental Shelf Research*, **2018**, 163, 12-22	2.4	2
6	Episodes of tidally-forced swale erosion on the inner shelf interspersed with millennial fluviodeltaic progradational interludes: Insights from northern Bohai Bay, China. *Marine Geology*, **2019**, 417, 106008	3.3	1
5	Re-Examination of Sand Ridges on the Middle and Outer New Jersey Shelf Based on Combined Analysis of Multibeam Bathymetry and Backscatter, Seafloor Grab Samples and Chirp Seismic Data **2013**, 121-142		1
4	Monostatic shadowing of homogeneous fractal profiles. *Journal of the Acoustical Society of America* , **1992**, 92, 1008-1016	2.2	1
3	Empirical Prewhitening Spectral Analysis Detects Periodic but Inconsistent Signals in Abyssal Hill Morphology at the Southern East Pacific Rise. *Geochemistry, Geophysics, Geosystems*, **2020**, 21, e2020GC009261	3.6	1
2	Geologic Characterization of Shelf Areas Using usSEABED for GIS Mapping, Modeling Processes and Assessing Marine Sand and Gravel Resources **2007**, 2473		
1	[Comment on Anonymous reviews: Self-serving, counterproductive, and unacceptable] An Editor's view of anonymous reviews. *Eos*, **2003**, 84, 384	1.5	