

John A Goff

List of Publications by Year in Descending Order

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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.

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

#	Paper	IF	Citations
117	Improved Bathymetric Prediction Using Geological Information: SYN-BATH. <i>Earth and Space Science</i> , 2022 , 9,	3.1	5
116	Transdimensional Geoacoustic Inversion Using Prior Information on Range-Dependent Seabed Layering. <i>IEEE Journal of Oceanic Engineering</i> , 2021 , 1-13	3.3	3
115	Measurements of Geologic Characteristics and Geophysical Properties of Sediments From the New England Mud Patch. <i>IEEE Journal of Oceanic Engineering</i> , 2021 , 1-28	3.3	6
114	Identifying Characteristic and Anomalous Mantle From the Complex Relationship Between Abyssal Hill Roughness and Spreading Rates. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088162	4.9	3
113	South Atlantic Transect: Variations in Oceanic Crustal Structure at 31°S. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2020GC009017	3.6	10
112	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. <i>IEEE Journal of Oceanic Engineering</i> , 2020 , 45, 161-173	3.3	27
111	Empirical Prewhitening Spectral Analysis Detects Periodic but Inconsistent Signals in Abyssal Hill Morphology at the Southern East Pacific Rise. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2020GC009261	3.6	26 ¹
110	Depth-Dependent Geoacoustic Inferences With Dispersion at the New England Mud Patch via Reflection Coefficient Inversion. <i>IEEE Journal of Oceanic Engineering</i> , 2020 , 45, 69-91	3.3	36
109	In Situ Measurements of Compressional Wave Speed During Gravity Coring Operations in the New England Mud Patch. <i>IEEE Journal of Oceanic Engineering</i> , 2020 , 45, 26-38	3.3	28
108	Estimates of Low-Frequency Sound Speed and Attenuation in a Surface Mud Layer Using Low-Order Modes. <i>IEEE Journal of Oceanic Engineering</i> , 2020 , 45, 201-211	3.3	13
107	Synthesis of Oceanic Crustal Structure From Two-Dimensional Seismic Profiles. <i>Reviews of Geophysics</i> , 2019 , 57, 504-529	23.1	66
106	An outflow event on the left side of Hurricane Harvey: Erosion of barrier sand and seaward transport through Aransas Pass, Texas. <i>Geomorphology</i> , 2019 , 334, 44-57	4.3	11
105	Stratigraphic analysis of a sediment pond within the New England Mud Patch: New constraints from high-resolution chirp acoustic reflection data. <i>Marine Geology</i> , 2019 , 412, 81-94	3.3	32
104	Episodes of tidally-forced swale erosion on the inner shelf interspersed with millennial fluviodeltaic progradational interludes: Insights from northern Bohai Bay, China. <i>Marine Geology</i> , 2019 , 417, 106008	3.3	1
103	Modern and Fossil Pockmarks in the New England Mud Patch: Implications for Submarine Groundwater Discharge on the Middle Shelf. <i>Geophysical Research Letters</i> , 2019 , 46, 12213-12220	4.9	4
102	Estuarine development and early Holocene transgression across an aeolianite substrate, Caesarea, central Israel. <i>Continental Shelf Research</i> , 2018 , 158, 33-44	2.4	4
101	Lower shoreface seismic stratigraphy and morphology off Fire Island, New York: Evidence for lobate progradation and linear erosion. <i>Continental Shelf Research</i> , 2018 , 163, 23-34	2.4	4

100	Sorted bedforms off Western Long Island, New York, USA: Asymmetrical morphology and twelve-year migration record. <i>Sedimentology</i> , 2018 , 65, 2202-2222	3.3	6
99	No Evidence for Milankovitch Cycle Influence on Abyssal Hills at Intermediate, Fast, and Superfast Spreading Rates. <i>Geophysical Research Letters</i> , 2018 , 45, 10,305	4.9	7
98	Geoacoustic inversion on the New England Mud Patch using warping and dispersion curves of high-order modes. <i>Journal of the Acoustical Society of America</i> , 2018 , 143, EL405	2.2	31
97	Analysis of hummocky bedforms offshore Fire Island, New York, generated by superstorm Sandy. <i>Continental Shelf Research</i> , 2018 , 163, 12-22	2.4	2
96	Impact of synthetic abyssal hill roughness on resolved motions in numerical global ocean tide models. <i>Ocean Modelling</i> , 2017 , 112, 1-16	3	9
95	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. <i>Marine Geology</i> , 2017 , 387, 12-30	3.3	26
94	Solution pans and linear sand bedforms on the bare-rock limestone shelf of the Campeche Bank, Yucatán Peninsula, Mexico. <i>Continental Shelf Research</i> , 2016 , 117, 57-66	2.4	3
93	Oyster reef die-offs in stratigraphic record of Corpus Christi Bay, Texas, possibly caused by drought-driven extreme salinity changes. <i>Holocene</i> , 2016 , 26, 511-519	2.6	6
92	Development of a system for in situ measurements of geoacoustic properties during sediment coring 2016 ,		3
91	Spatial variability of prodeltaic undulations on the Guadalfeo River prodelta: support to the genetic interpretation as hyperpycnal flow deposits. <i>Marine Geophysical Researches</i> , 2015 , 36, 309-333	2.3	15
90	The impact of Hurricane Sandy on the shoreface and inner shelf of Fire Island, New York: Large bedform migration but limited erosion. <i>Continental Shelf Research</i> , 2015 , 98, 13-25	2.4	26
89	Gulf of Alaska continental slope morphology: Evidence for recent trough mouth fan formation. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 165-177	3.6	14
88	Comment on "Glacial cycles drive variations in the production of oceanic crust". <i>Science</i> , 2015 , 349, 106533.3	3.3	15
87	Shoreface ravinement evolution tracked by repeat geophysical surveys following Hurricane Ike, Bolivar Peninsula, Texas, 2008-2013. <i>Geophysics</i> , 2015 , 80, WB1-WB10	3.1	6
86	Imaging evidence for Hubbard Glacier advances and retreats since the last glacial maximum in Yakutat and Disenchantment Bays, Alaska. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 1962-1974	3.6	3
85	Seismic and core investigation off Panama city, Florida, reveals sand ridge influence on formation of the shoreface ravinement. <i>Continental Shelf Research</i> , 2014 , 88, 34-46	2.4	22
84	Conditional simulation of Thwaites Glacier (Antarctica) bed topography for flow models: Incorporating inhomogeneous statistics and channelized morphology. <i>Journal of Glaciology</i> , 2014 , 60, 635-646	3.4	19
83	Rapid Response Survey Gauges Sandy's Impact on Seafloor. <i>Eos</i> , 2013 , 94, 337-338	1.5	2

82	Impact of parameterized lee wave drag on the energy budget of an eddying global ocean model. <i>Ocean Modelling</i> , 2013 , 72, 119-142	3	26
81	Reinterpretation of the Franklin Shoreline in the Mid-Atlantic bight as a paleo-shelf edge. <i>Continental Shelf Research</i> , 2013 , 60, 64-69	2.4	8
80	The Last Glacial: Insights from continuous coring on the New Jersey continental shelf. <i>Marine Geology</i> , 2013 , 335, 78-99	3.3	5
79	Forced regressive and lowstand Hudson paleo-Delta system: Latest Pliocene growth of the outer New Jersey shelf. <i>Marine Geology</i> , 2013 , 339, 57-70	3.3	9
78	The Impact of Small-Scale Topography on the Dynamical Balance of the Ocean. <i>Journal of Physical Oceanography</i> , 2013 , 43, 647-668	2.4	28
77	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
76	Internal tide generation by abyssal hills using analytical theory. <i>Journal of Geophysical Research: Oceans</i> , 2013 , 118, 6303-6318	3.3	41
75	Abyssal hill characterization at the ultraslow spreading Southwest Indian Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13, n/a-n/a	3.6	11
74	Morainal bank progradation and sediment accumulation in Disenchantment Bay, Alaska: Response to advancing Hubbard Glacier. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		13
73	Global rate and spectral characteristics of internal gravity wave generation by geostrophic flow over topography. <i>Journal of Geophysical Research</i> , 2011 , 116,		74
72	Offshore transport of sediment during cyclonic storms: Hurricane Ike (2008), Texas Gulf Coast, USA. <i>Geology</i> , 2010 , 38, 351-354	5	53
71	Global prediction of abyssal hill root-mean-square heights from small-scale altimetric gravity variability. <i>Journal of Geophysical Research</i> , 2010 , 115,		34
70	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. <i>Ocean Modelling</i> , 2010 , 32, 36-43 ³		50
69	Geoacoustic Inversion for the New Jersey Shelf: 3-D Sediment Model. <i>IEEE Journal of Oceanic Engineering</i> , 2010 , 35, 28-42	3.3	38
68	Effect of Inhomogeneous Sub-Bottom Layering on Broadband Acoustic Propagation. <i>IEEE Journal of Oceanic Engineering</i> , 2010 , 35, 732-743	3.3	11
67	Seismic and bathymetric evidence for four different episodes of iceberg scouring on the New Jersey outer shelf: Possible correlation to Heinrich events. <i>Marine Geology</i> , 2009 , 266, 244-254	3.3	21
66	Shallow stratigraphy and complex transgressive ravinement on the New Jersey middle and outer continental shelf. <i>Marine Geology</i> , 2009 , 266, 232-243	3.3	39
65	Statistical characterization of Geosat altimetry noise: Dependence on environmental parameters. <i>Geochemistry, Geophysics, Geosystems</i> , 2009 , 10, n/a-n/a	3.6	3

64	Seabed mapping and characterization of sediment variability using the usSEABED data base. <i>Continental Shelf Research</i> , 2008 , 28, 614-633	2.4	20
63	Observations of the R reflector and sediment interface reflection at the Shallow Water '06 Central Site. <i>Journal of the Acoustical Society of America</i> , 2008 , 124, EL128-34	2.2	20
62	Seabed acoustics of a sand ridge on the New Jersey continental shelf. <i>Journal of the Acoustical Society of America</i> , 2008 , 124, EL151-6	2.2	21
61	Shallow Water '06: A Joint Acoustic Propagation/Nonlinear Internal Wave Physics Experiment. <i>Oceanography</i> , 2007 , 20, 156-167	2.3	116
60	Geomorphological evidence for upslope canyon-forming processes on the northern KwaZulu-Natal shelf, SW Indian Ocean, South Africa. <i>Geo-Marine Letters</i> , 2007 , 27, 399-409	1.9	39
59	Geologic Characterization of Shelf Areas Using usSEABED for GIS Mapping, Modeling Processes and Assessing Marine Sand and Gravel Resources 2007 , 2473		
58	Seismic Facies of Incised-Valley Fills, New Jersey Continental Shelf: Implications for Erosion and Preservation Processes Acting During Latest Pleistocene-Holocene Transgression. <i>Journal of Sedimentary Research</i> , 2006 , 76, 1284-1303	2.1	75
57	Guest Editorial Capturing Uncertainty in the Tactical Ocean Environment. <i>IEEE Journal of Oceanic Engineering</i> , 2006 , 31, 245-248	3.3	4
56	Maximum a posteriori resampling of noisy, spatially correlated data. <i>Geochemistry, Geophysics, Geosystems</i> , 2006 , 7, n/a-n/a	3.6	11
55	Anisotropic considerations while interpolating river channel bathymetry. <i>Journal of Hydrology</i> , 2006 , 331, 731-741	6	86
54	Detailed investigation of sorted bedforms, or ripple scours, within the Martha's Vineyard Coastal Observatory, Massachusetts. <i>Continental Shelf Research</i> , 2005 , 25, 461-484	2.4	74
53	Basal inflection-controlled shelf-edge wedges off New Jersey track sea-level fall. <i>Geology</i> , 2005 , 33, 429-435		16
52	Seismic geomorphology of buried channel systems on the New Jersey outer shelf: assessing past environmental conditions. <i>Marine Geology</i> , 2005 , 214, 339-364	3.3	61
51	Recent and modern marine erosion on the New Jersey outer shelf. <i>Marine Geology</i> , 2005 , 216, 275-296	3.3	66
50	Long range acoustic imaging of the continental shelf environment: the Acoustic Clutter Reconnaissance Experiment 2001. <i>Journal of the Acoustical Society of America</i> , 2005 , 117, 1977-98	2.2	36
49	Interpolation of Fluvial Morphology Using Channel-Oriented Coordinate Transformation: A Case Study from the New Jersey Shelf. <i>Mathematical Geosciences</i> , 2004 , 36, 643-658		29
48	Seabed characterization on the New Jersey middle and outer shelf: correlatability and spatial variability of seafloor sediment properties. <i>Marine Geology</i> , 2004 , 209, 147-172	3.3	126
47	Large-scale elongated gas blowouts along the U.S. Atlantic margin. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		22

46	[Comment on Anonymous reviews: Self-serving, counterproductive, and unacceptable] An Editor's view of anonymous reviews. <i>Eos</i> , 2003 , 84, 384	1.5	
45	A correspondence of altimetric gravity texture to abyssal hill morphology along the flanks of the Southeast Indian Ridge. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	7
44	A Generic Model for the 1/f-Nature of Seismic Velocity Fluctuations 2003 , 131-154		14
43	Spatial variability of shelf sediments in the STRATAFORM natural laboratory, Northern California. <i>Continental Shelf Research</i> , 2002 , 22, 1199-1223	2.4	15
42	Calculation of In Situ Acoustic Wave Properties in Marine Sediments 2002 , 123-130		8
41	Relict iceberg keel marks on the New Jersey outer shelf, southern Hudson apron. <i>Geology</i> , 2001 , 29, 411-5		16
40	Quantitative classification of canyon systems on continental slopes and a possible relationship to slope curvature. <i>Geophysical Research Letters</i> , 2001 , 28, 4359-4362	4.9	39
39	Potential for large-scale submarine slope failure and tsunami generation along the U.S. mid-Atlantic coast. <i>Geology</i> , 2000 , 28, 407	5	75
38	Tracking the last sea-level cycle: seafloor morphology and shallow stratigraphy of the latest Quaternary New Jersey middle continental shelf. <i>Marine Geology</i> , 2000 , 170, 395-421	3.3	67
37	Simulation of Stratigraphic Architecture from Statistical and Geometrical Characterizations. <i>Mathematical Geosciences</i> , 2000 , 32, 765-786		4
36	Correlation of side-scan backscatter intensity with grain-size distribution of shelf sediments, New Jersey margin. <i>Geo-Marine Letters</i> , 2000 , 20, 43-49	1.9	89
35	Acoustic backscatter of the 1995 flood deposit on the Eel shelf. <i>Marine Geology</i> , 1999 , 154, 197-210	3.3	48
34	Detailed investigation of continental shelf morphology using a high-resolution swath sonar survey: the Eel margin, northern California. <i>Marine Geology</i> , 1999 , 154, 255-269	3.3	69
33	High-resolution swath sonar investigation of sand ridge, dune and ribbon morphology in the offshore environment of the New Jersey margin. <i>Marine Geology</i> , 1999 , 161, 307-337	3.3	85
32	Improvement of Fourier-Based Unconditional and Conditional Simulations for Band Limited Fractal (von K��m��) Statistical Models. <i>Mathematical Geosciences</i> , 1999 , 31, 627-649		15
31	Nature and origin of upper crustal seismic velocity fluctuations and associated scaling properties: Combined stochastic analyses of KTB velocity and lithology logs. <i>Journal of Geophysical Research</i> , 1999 , 104, 13169-13182		45
30	Multiscale spectral analysis of bathymetry on the flank of the Mid-Atlantic Ridge: Modification of the seafloor by mass wasting and sedimentation. <i>Journal of Geophysical Research</i> , 1997 , 102, 15447-15462		24
29	Stochastic analysis of seafloor morphology on the flank of the Southeast Indian Ridge: The influence of ridge morphology on the formation of abyssal hills. <i>Journal of Geophysical Research</i> , 1997 , 102, 15521-15534		59

28	Synthetic seismograms through synthetic Franciscan: Insights into factors affecting large-aperture seismic data. <i>Geophysical Research Letters</i> , 1997 , 24, 3317-3320	4.9	8
27	The Bauer scarp ridge jump: a complex tectonic sequence revealed in satellite altimetry. <i>Earth and Planetary Science Letters</i> , 1996 , 141, 21-33	5.3	25
26	Incorporating Binuous connectivity into stochastic models of crustal heterogeneity: Examples from the Lewisian gneiss complex, Scotland, the Franciscan formation, California, and the Hafafit Gneiss Complex, Egypt. <i>Journal of Geophysical Research</i> , 1996 , 101, 8489-8501		21
25	A deterministic and stochastic velocity model for the Salton Trough/Basin and Range transition zone and constraints on magmatism during rifting. <i>Journal of Geophysical Research</i> , 1996 , 101, 27883-27897		9
24	Swath Mapping on the Continental Shelf and Slope: The Eel River Basin, Northern California. <i>Oceanography</i> , 1996 , 9, 178-182	2.3	13
23	Modeling the Sedimentology and Stratigraphy of Continental Margins. <i>Oceanography</i> , 1996 , 9, 183-188	2.3	14
22	The relationship between local- and global-scale scattering functions for fractal surfaces under a separation of scales hypothesis. <i>Journal of the Acoustical Society of America</i> , 1995 , 97, 1586-1595	2.2	4
21	Quantitative analysis of sea ice draft: 1. Methods for stochastic modeling. <i>Journal of Geophysical Research</i> , 1995 , 100, 6993		14
20	Quantitative analysis of sea ice draft: 2. Application of stochastic modeling to intersecting topographic profiles. <i>Journal of Geophysical Research</i> , 1995 , 100, 7005		5
19	Quantitative analysis of abyssal hills in the Atlantic Ocean: A correlation between inferred crustal thickness and extensional faulting. <i>Journal of Geophysical Research</i> , 1995 , 100, 22509-22522		37
18	Stochastic characterization and seismic response of upper and middle crustal rocks based on the Lewisian gneiss complex, Scotland. <i>Geophysical Journal International</i> , 1994 , 119, 243-259	2.6	35
17	Modal fields: A new method for characterization of random seismic velocity heterogeneity. <i>Geophysical Research Letters</i> , 1994 , 21, 493-496	4.9	62
16	Flow line variations in abyssal hill morphology for the Pacific-Antarctic Ridge at 65°S. <i>Journal of Geophysical Research</i> , 1994 , 99, 17921-17934		25
15	Stochastic modeling of the reflective lower crust: Petrophysical and geological evidence from the Ivrea Zone (northern Italy). <i>Journal of Geophysical Research</i> , 1993 , 98, 11967-11980		65
14	A utilitarian approach to modeling non-Gaussian characteristics of a topographic field. <i>Journal of Geophysical Research</i> , 1993 , 98, 19635-19647		5
13	Abyssal Hill Segmentation: Quantitative analysis of the East Pacific Rise flanks 7°S-9°S. <i>Journal of Geophysical Research</i> , 1993 , 98, 13851-13862		40
12	Wilkes transform system and "nannoplate". <i>Geology</i> , 1993 , 21, 623	5	26
11	Morphology of a Superfast Mid-Ocean Ridge crest and flanks: The East Pacific Rise, 7°S. <i>Marine Geophysical Researches</i> , 1993 , 15, 65-75	2.3	48

- 10 Monostatic shadowing of homogeneous fractal profiles. *Journal of the Acoustical Society of America*, **1992**, 92, 1008-1016 2.2 1
- 9 Quantitative characterization of abyssal Hill morphology along flow lines in the Atlantic Ocean. *Journal of Geophysical Research*, **1992**, 97, 9183 26
- 8 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
- 7 Quantitative comparison of bathymetric survey systems. *Geophysical Research Letters*, **1991**, 18, 1253-1256 11
- 6 A global and regional stochastic analysis of near-ridge Abyssal Hill morphology. *Journal of Geophysical Research*, **1991**, 96, 21713-21737 107
- 5 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
- 4 . *IEEE Journal of Oceanic Engineering*, **1989**, 14, 326-337 3.3 26
- 3 Stochastic modeling of seafloor morphology: A parameterized Gaussian model. *Geophysical Research Letters*, **1989**, 16, 45-48 4.9 34
- 2 Stochastic Modeling of Seafloor Morphology: Inversion of Sea Beam Data for Second-Order Statistics. *Journal of Geophysical Research*, **1988**, 93, 13589-13608 319
- 1 Earthquake source mechanisms and transform fault tectonics in the Gulf of California. *Journal of Geophysical Research*, **1987**, 92, 10485-10510 58