

George Voulgaris

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2714542/publications.pdf>

Version: 2024-02-01

84
papers

2,981
citations

218381

26
h-index

168136

53
g-index

99
all docs

99
docs citations

99
times ranked

2566
citing authors

#	ARTICLE	IF	CITATIONS
1	Cross-correlation Quantification of Dyssynchrony: A New Method for Quantifying the Synchrony of Contraction and Relaxation in the Heart. <i>Journal of the American Society of Echocardiography</i> , 2007, 20, 1330-1337.e1.	1.2	433
2	Evaluation of the Acoustic Doppler Velocimeter (ADV) for Turbulence Measurements*. <i>Journal of Atmospheric and Oceanic Technology</i> , 1998, 15, 272-289.	0.5	422
3	Implementation of the vortex force formalism in the coupled ocean-atmosphere-wave-sediment transport (COAWST) modeling system for inner shelf and surf zone applications. <i>Ocean Modelling</i> , 2012, 47, 65-95.	1.0	212
4	Temporal variability of hydrodynamics, sediment concentration and sediment settling velocity in a tidal creek. <i>Continental Shelf Research</i> , 2004, 24, 1659-1683.	0.9	179
5	The influence of clay on the threshold of movement of fine sandy beds. <i>Coastal Engineering</i> , 1997, 32, 19-43.	1.7	138
6	Sediment resuspension, flocculation, and settling in a macrotidal estuary. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 5591-5608.	1.0	108
7	Controls on floc size in a continental shelf bottom boundary layer. <i>Journal of Geophysical Research</i> , 2001, 106, 9543-9549.	3.3	106
8	Implementation and modification of a three-dimensional radiation stress formulation for surf zone and rip-current applications. <i>Coastal Engineering</i> , 2011, 58, 1097-1117.	1.7	76
9	Geomorphic analysis of tidal creek networks. <i>Water Resources Research</i> , 2004, 40, .	1.7	68
10	Sediment resuspension on beaches: response to breaking waves. <i>Marine Geology</i> , 2000, 167, 167-187.	0.9	67
11	Contribution of nonlinear mechanisms in the persistence of multiple tidal inlet systems. <i>Estuarine, Coastal and Shelf Science</i> , 2005, 65, 475-491.	0.9	64
12	Identifying the role of tides, rainfall and seasonality in marsh sedimentation using long-term suspended sediment concentration data. <i>Marine Geology</i> , 2006, 227, 31-50.	0.9	52
13	Barotropic tides in the South Atlantic Bight. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	51
14	Shear velocity estimates on the inner shelf off Grays Harbor, Washington, USA. <i>Continental Shelf Research</i> , 2006, 26, 1995-2018.	0.9	50
15	Sediment mobility in response to tidal and wind-driven flows along the Belgian inner shelf, southern North Sea. <i>Ocean Dynamics</i> , 2011, 61, 611-622.	0.9	48
16	Fluxes and sources of suspended organic matter in an estuarine turbidity maximum region during low discharge conditions. <i>Estuarine, Coastal and Shelf Science</i> , 2005, 63, 683-700.	0.9	45
17	Wind-speed inversion from HF radar first-order backscatter signal. <i>Ocean Dynamics</i> , 2012, 62, 105-121.	0.9	44
18	Storm-induced inner-continental shelf circulation and sediment transport: Long Bay, South Carolina. <i>Continental Shelf Research</i> , 2012, 42, 51-63.	0.9	38

#	ARTICLE	IF	CITATIONS
19	Radon as an indicator of limited cross-shelf mixing of submarine groundwater discharge along an open ocean beach in the South Atlantic Bight during observed hypoxia. <i>Continental Shelf Research</i> , 2011, 31, 1306-1317.	0.9	35
20	Exploring the persistence of sorted bedforms on the inner-shelf of Wrightsville Beach, North Carolina. <i>Continental Shelf Research</i> , 2005, 25, 65-90.	0.9	33
21	Predicting wave-induced ripple equilibrium geometry. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 3202-3220.	1.0	33
22	Composition and fluxes of particulate organic matter in a temperate estuary (Winyah Bay, South Carolina). <i>Estuaries and Coasts</i> , 2007, 30, 273-291.	0.9	32
23	Simulating fluvial fluxes in the Danube watershed: The Little Ice Age versus modern day. <i>Holocene</i> , 2012, 22, 91-105.	0.9	32
24	Acoustic backscatter by suspended cohesive sediments: Field observations, Seine Estuary, France. <i>Continental Shelf Research</i> , 2017, 37, 39-51.	0.9	32
25	Lateral circulation and suspended sediment transport in a curved estuarine channel: Winyah Bay, SC, USA. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	28
26	Analysis of Fluvial Suspended Sediment Load Contribution through Anthropocene History to the South Atlantic Bight Coastal Zone, U.S.A.. <i>Journal of Geology</i> , 2010, 118, 399-416.	0.7	26
27	Bulk versus Spectral Wave Parameters: Implications on Stokes Drift Estimates, Regional Wave Modeling, and HF Radars Applications. <i>Journal of Physical Oceanography</i> , 2017, 47, 1413-1431.	0.7	26
28	Net effect of rainfall activity on salt-marsh sediment distribution. <i>Marine Geology</i> , 2004, 207, 115-129.	0.9	25
29	Holocene sediment distribution on the inner continental shelf of northeastern South Carolina: Implications for the regional sediment budget and long-term shoreline response. <i>Continental Shelf Research</i> , 2013, 33, 56-70.	0.9	23
30	Turbulence, Sediment-induced Stratification, and Mixing Under Macrotidal Estuarine Conditions (Qiantang Estuary, China). <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 4058-4077.	1.0	22
31	Cross-shore variation of wind-driven flows on the inner shelf in Long Bay, South Carolina, United States. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	20
32	Inner-shelf circulation and sediment dynamics on a series of shoreface-connected ridges offshore of Fire Island, NY. <i>Ocean Dynamics</i> , 2014, 64, 1767-1781.	0.9	20
33	Temporal and spatial evolution of wave-induced ripple geometry: Regular versus irregular ripples. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 664-688.	1.0	20
34	Nearshore Impacts of Dredging for Beach Nourishment. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2004, 130, 303-311.	0.5	19
35	Effect of channel bifurcation on residual estuarine circulation: Winyah Bay, South Carolina. <i>Estuarine, Coastal and Shelf Science</i> , 2005, 65, 671-686.	0.9	18
36	Laboratory investigations into wave period effects on sand bed erodibility, under the combined action of waves and currents. <i>Coastal Engineering</i> , 1995, 26, 117-134.	1.7	17

#	ARTICLE	IF	CITATIONS
37	Tidal asymmetry and residual circulation over linear sandbanks and their implication on sediment transport: A process-oriented numerical study. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	17
38	The in situ passive acoustic measurement of shingle movement under waves and currents: instrument (TOSCA) development and preliminary results. <i>Continental Shelf Research</i> , 1995, 15, 1195-1211.	0.9	16
39	Alongshore momentum balance analysis on a cusped foreland. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 5280-5295.	1.0	16
40	Initial motion and pivoting characteristics of sand particles in uniform and heterogeneous beds: experiments and modelling. <i>Sedimentology</i> , 1999, 46, 17-32.	1.6	15
41	Wind Speed Dependence of Single-Site Wave-Height Retrievals from High-Frequency Radars. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010, 27, 1381-1394.	0.5	14
42	A spectral model for estimating temporal and spatial evolution of rippled seabeds. <i>Ocean Dynamics</i> , 2015, 65, 155-171.	0.9	14
43	A Long-Term Real Time Sea Bed Morphology Evolution System in the South Atlantic Bight. , 2008, , .		13
44	Assessment of WERA long-range HF-radar performance from the user's perspective. , 2011, , .		13
45	HF radar observations in the German Bight: Measurements and quality control. , 2011, , .		12
46	Waves Initiative within SEACOOS. <i>Marine Technology Society Journal</i> , 2008, 42, 68-80.	0.3	11
47	Sediment fluxes and the evolution of a riverine-supplied tectonically-active coastal system: Kyparissiakos Gulf, Ionian Sea (eastern Mediterranean). <i>Geological Society Special Publication</i> , 2002, 191, 247-266.	0.8	10
48	Constrained enrichment contributes to hypoxia formation in Long Bay, South Carolina (USA), an open water urbanized coastline. <i>Marine Ecology - Progress Series</i> , 2012, 461, 15-30.	0.9	10
49	Inner shelf circulation patterns and nearshore flow reversal under downwelling and stratified conditions off a curved coastline. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	9
50	Forcing and Dynamics of Seafloor-Water Column Exchange on a Broad Continental Shelf. <i>Oceanography</i> , 2008, 21, 179-184.	0.5	9
51	Shelf edge tide correlated eddies along the southeastern United States. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	8
52	Field observations of turbulence, sediment suspension, and transport under breaking tidal bores. <i>Marine Geology</i> , 2021, 437, 106498.	0.9	8
53	Internal waves revealed by Synthetic Aperture Radar (SAR) imagery in the vicinity of the eastern Cretan Arc Straits (Eastern Mediterranean). <i>Progress in Oceanography</i> , 1999, 44, 553-572.	1.5	7
54	Subtidal inner shelf currents off Cartagena de Indias, Caribbean coast of Colombia. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	7

#	ARTICLE	IF	CITATIONS
55	Parameterization of synoptic weather systems in the South Atlantic Bight for modeling applications. <i>Ocean Dynamics</i> , 2017, 67, 1231-1249.	0.9	6
56	Effects of Wind Stress and Surface Cooling on Cross-Shore Exchange. <i>Journal of Physical Oceanography</i> , 2018, 48, 2627-2647.	0.7	6
57	Shelf Cross-Shore Flows under Storm-Driven Conditions: Role of Stratification, Shoreline Orientation, and Bathymetry. <i>Journal of Physical Oceanography</i> , 2018, 48, 2533-2553.	0.7	6
58	Swell and Wind Wave Inversion Using a Single Very High Frequency (VHF) Radar. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019, 36, 987-1013.	0.5	6
59	Night Sky Radiation in Athens During the Summer. Influence of City Pollutants. <i>International Journal of Solar Energy</i> , 1988, 6, 279-289.	0.2	5
60	INDIA: Inlet Dynamics Initiative Algarve. , 0, , .		5
61	A Case History of the Science and Management Collaboration in Understanding Hypoxia Events in Long Bay, South Carolina, USA. <i>Environmental Management</i> , 2010, 46, 340-350.	1.2	5
62	2-D inner-shelf current observations from a single VHF WELLEN RADAR (WERA) station. , 2011, , .		5
63	Effects of Low Tide Rainfall on Intertidal Zone Material Cycling. <i>Coastal and Estuarine Studies</i> , 0, , 93-114.	0.4	5
64	Response of a Coastal Plume Formed by Tidally Modulated Estuarine Outflow to Light Upwelling-Favorable Wind. <i>Journal of Physical Oceanography</i> , 2019, 49, 691-703.	0.7	5
65	Evaluation of Beach Nourishment Evolution Models Using Data from Two South Carolina, USA Beaches: Folly Beach and Hunting Island. <i>Journal of Coastal Research</i> , 2013, 69, 84-98.	0.1	4
66	Sediment exchange between channel and sand ridges in the southern Yellow Sea: The importance of tidal asymmetries. <i>Continental Shelf Research</i> , 2020, 205, 104169.	0.9	4
67	A NEARSHORE PROCESSES FIELD EXPERIMENT AT CAPE HATTERAS, NORTH CAROLINA, U.S.A.. , 2011, , .		4
68	Linear features on side-scan sonar images: An algorithm for the correction of angular distortion. <i>Marine Geology</i> , 1991, 96, 187-190.	0.9	3
69	Laboratory investigations into wave period effects on sand bed erodibility under the combined action of waves and currents, by G. Voulgaris et al.: comments. <i>Coastal Engineering</i> , 1997, 30, 157-160.	1.7	3
70	Hydrodynamic Modelling of a Dynamic Inlet. , 2001, , 3472.		3
71	Future Challenges for Rip Current Research and Outreach. , 2011, , 17-46.		3
72	Offshore Spreading of a Supercritical Plume Under Upwelling Wind Forcing: A Case Study of the Winyah Bay Outflow. <i>Frontiers in Marine Science</i> , 2022, 8, .	1.2	3

#	ARTICLE	IF	CITATIONS
73	Turbulence Structure and Burst Events Observed in a Tidally Induced Bottom Boundary Layer. Journal of Geophysical Research: Oceans, 2022, 127, .	1.0	3
74	Evaluation and Validation of HF Radar Swell and Wind wave Inversion Method. Journal of Atmospheric and Oceanic Technology, 2021, , .	0.5	2
75	COASTAL PROCESS MEASUREMENT - WHAT YOU SHOULD BE DOING? REPORT.. Proceedings of the Institution of Civil Engineers: Water, Maritime and Energy, 1996, 118, 145-148.	0.6	1
76	Alongshore momentum balance over shoreface-connected ridges, Fire Island, NY,. Continental Shelf Research, 2019, 186, 21-33.	0.9	1
77	An Energetics Approach for Suspended Sand Transport on Macrotidal Ridge and Runnel Beaches. , 1997, , .		1
78	Laboratory investigations into wave period effects on sand bed erodibility under the combined action of waves and currents : reply to the comments of Z.-J. You. Coastal Engineering, 1997, 30, 161-166.	1.7	0
79	Sedimentary Processes in the Intertidal Zone. Estuaries and Coasts, 1999, 22, 728.	1.7	0
80	Enabling quality assessment through web services. , 2011, , .		0
81	Introduction and Tribute. Journal of Coastal Research, 2013, 69, iv-viii.	0.1	0
82	MESOSCALE WAVE ENERGY DISSIPATION OVER HETEROGENEOUS SEDIMENTS. , 2005, , .		0
83	IMPACTS OF SYNOPTIC WEATHER SYSTEMS ON SHORELINE STABILITY ALONG SOUTH CAROLINA COAST. , 2016, , .		0
84	COMPARISON BETWEEN HF RADAR MEASUREMENTS OF WAVES AND IN SITU MEASUREMENTS OFF CAPE HATTERAS. , 2016, , .		0