

Robert Guza

List of Publications by Year in descending order

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54
papers

2,612
citations

172207

29
h-index

182168

51
g-index

54
all docs

54
docs citations

54
times ranked

1473
citing authors

#	ARTICLE	IF	CITATIONS
1	Observations of bispectra of shoaling surface gravity waves. <i>Journal of Fluid Mechanics</i> , 1985, 161, 425.	1.4	357
2	Equilibrium shoreline response: Observations and modeling. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	227
3	Shoaling gravity waves: comparisons between field observations, linear theory, and a nonlinear model. <i>Journal of Fluid Mechanics</i> , 1985, 158, 47-70.	1.4	105
4	A GPS-Tracked Surf Zone Drifter*. <i>Journal of Atmospheric and Oceanic Technology</i> , 2003, 20, 1069-1075.	0.5	101
5	Observations of nearshore infragravity waves: Seaward and shoreward propagating components. <i>Journal of Geophysical Research</i> , 2002, 107, 10-1.	3.3	97
6	Tidal modulation of infragravity waves via nonlinear energy losses in the surfzone. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	90
7	Nonlinear generation and loss of infragravity wave energy. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	88
8	Observing Surf-Zone Dispersion with Drifters. <i>Journal of Physical Oceanography</i> , 2007, 37, 2920-2939.	0.7	86
9	Nonlinear model predictions of bispectra of shoaling surface gravity waves. <i>Journal of Fluid Mechanics</i> , 1986, 167, 1.	1.4	74
10	Effect of wave frequency and directional spread on shoreline runup. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	73
11	Effects of wave rollers and bottom stress on wave setup. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	70
12	Observations of nearshore circulation: Alongshore uniformity. <i>Journal of Geophysical Research</i> , 2003, 108, 6-1.	3.3	69
13	Sixteen years of bathymetry and waves at San Diego beaches. <i>Scientific Data</i> , 2019, 6, 161.	2.4	67
14	Observations of swash zone velocities: A note on friction coefficients. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	61
15	Short-term retreat statistics of a slowly eroding coastal cliff. <i>Natural Hazards and Earth System Sciences</i> , 2011, 11, 205-217.	1.5	61
16	Physical and biological processes underlying the sudden surface appearance of a red tide in the nearshore. <i>Limnology and Oceanography</i> , 2011, 56, 787-801.	1.6	56
17	Field observations of shear waves in the surf zone. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	55
18	Cross-shore surfzone tracer dispersion in an alongshore current. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	53

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19	Equilibrium shoreline response of a high wave energy beach. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	53
20	Field evidence of beach profile evolution toward equilibrium. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 7574-7597.	1.0	52
21	Cross-shore tracer exchange between the surfzone and inner-shelf. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 4367-4388.	1.0	48
22	Wave-driven setup and alongshore flows observed onshore of a submarine canyon. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	41
23	Observations of drifter dispersion in the surfzone: The effect of sheared alongshore currents. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	41
24	Modeling surf zone tracer plumes: 1. Waves, mean currents, and low-frequency eddies. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	41
25	Shoaling transformation of wave frequency-directional spectra. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	37
26	Episodic vertical nutrient fluxes and nearshore phytoplankton blooms in Southern California. <i>Limnology and Oceanography</i> , 2012, 57, 1673-1688.	1.6	34
27	Coastal cliff ground motions from local ocean swell and infragravity waves in southern California. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	32
28	Aerial Imaging of Fluorescent Dye in the Near Shore. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014, 31, 1410-1421.	0.5	30
29	Field observations of orbital velocities and pressure in weakly nonlinear surface gravity waves. <i>Journal of Fluid Mechanics</i> , 1992, 245, 413.	1.4	29
30	Surf zone currents over irregular bathymetry: Drifter observations and numerical simulations. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	29
31	Modeling surf zone tracer plumes: 2. Transport and dispersion. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	29
32	Surfzone to inner-shelf exchange estimated from dye tracer balances. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 6289-6308.	1.0	29
33	Observations and modeling of a tidal inlet dye tracer plume. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 7819-7844.	1.0	29
34	Southern California Coastal Response to the 2015-2016 El Niño. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 3069-3083.	1.0	28
35	Refraction and reflection of infragravity waves near submarine canyons. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	27
36	Mid-El Niño erosion at nourished and unnourished Southern California beaches. <i>Geophysical Research Letters</i> , 2016, 43, 4510-4516.	1.5	25

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37	Observed and modeled drifters at a tidal inlet. Journal of Geophysical Research: Oceans, 2015, 120, 4825-4844.	1.0	24
38	Predicting site-specific storm wave run-up. Natural Hazards, 2020, 104, 493-517.	1.6	18
39	Model-data comparisons of shear waves in the nearshore. Journal of Geophysical Research, 2005, 110, .	3.3	17
40	Cross-shore decay of cliff top ground motions driven by local ocean swell and infragravity waves. Journal of Geophysical Research, 2012, 117, .	3.3	16
41	An early warning system for wave-driven coastal flooding at Imperial Beach, CA. Natural Hazards, 2021, 108, 2591-2612.	1.6	16
42	A new estimator for directional properties of nearshore waves. Journal of Geophysical Research, 2005, 110, .	3.3	13
43	Resonant scattering of edge waves by longshore periodic topography. Journal of Fluid Mechanics, 1998, 369, 91-123.	1.4	12
44	Refraction of Surface Gravity Waves by Shear Waves. Journal of Physical Oceanography, 2006, 36, 629-635.	0.7	12
45	Relating Lagrangian and Eulerian horizontal eddy statistics in the surfzone. Journal of Geophysical Research: Oceans, 2014, 119, 1022-1037.	1.0	11
46	Resonant scattering of edge waves by longshore periodic topography: finite beach slope. Journal of Fluid Mechanics, 1999, 387, 255-269.	1.4	10
47	A Technique for Eliminating Water Returns from Lidar Beach Elevation Surveys. Journal of Atmospheric and Oceanic Technology, 2008, 25, 1671-1682.	0.5	9
48	Experimental study of the instabilities of waves obliquely incident on a beach. Journal of Fluid Mechanics, 1979, 95, 199-208.	1.4	8
49	Cusp and Mega Cusp Observations on a Mixed Sediment Beach. Earth and Space Science, 2020, 7, e2020EA001366.	1.1	7
50	Subharmonic edge wave excitation by narrow-band, random incident waves. Journal of Fluid Mechanics, 2019, 868, .	1.4	6
51	Regional Swell Transformation by Backward Ray Tracing and SWAN. Journal of Atmospheric and Oceanic Technology, 2019, 36, 217-229.	0.5	6
52	Estimating Changes in Near-Shore Bathymetry with Subaerial Surveys. Journal of Atmospheric and Oceanic Technology, 2013, 30, 2225-2232.	0.5	2
53	A NOTE ON SETUP SENSITIVITY AND PREDICTION ACCURACY. , 2007, , .		1
54	Monitoring Regional Shoreline Change. , 2005, , 14.		0