Robert Guza

List of Publications by Year
in descending order

54 papers	2,612 citations	172457 29 h-index	182427 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. Journal of Fluid Mechanics, 1985, 161, 425.	3.4	357
2	Equilibrium shoreline response: Observations and modeling. Journal of Geophysical Research, 2009, 114, .	3.3	227
3	Shoaling gravity waves: comparisons between field observations, linear theory, and a nonlinear model. Journal of Fluid Mechanics, 1985, 158, 47-70.	3.4	105
4	A GPS-Tracked Surf Zone Drifter*. Journal of Atmospheric and Oceanic Technology, 2003, 20, 1069-1075.	1.3	101
5	Observations of nearshore infragravity waves: Seaward and shoreward propagating components. Journal of Geophysical Research, 2002, 107, 10-1.	3.3	97
6	Tidal modulation of infragravity waves via nonlinear energy losses in the surfzone. Geophysical Research Letters, 2006, 33, .	4.0	90
7	Nonlinear generation and loss of infragravity wave energy. Journal of Geophysical Research, 2006, 111, .	3.3	88
8	Observing Surf-Zone Dispersion with Drifters. Journal of Physical Oceanography, 2007, 37, 2920-2939.	1.7	86
9	Nonlinear model predictions of bispectra of shoaling surface gravity waves. Journal of Fluid Mechanics, 1986, 167, 1.	3.4	74
10	Effect of wave frequency and directional spread on shoreline runup. Geophysical Research Letters, 2012, 39, .	4.0	73
11	Effects of wave rollers and bottom stress on wave setup. Journal of Geophysical Research, 2007, 112, .	3.3	70
12	Observations of nearshore circulation: Alongshore uniformity. Journal of Geophysical Research, 2003, 108, 6-1.	3.3	69
13	Sixteen years of bathymetry and waves at San Diego beaches. Scientific Data, 2019, 6, 161.	5.3	67
14	Observations of swash zone velocities: A note on friction coefficients. Journal of Geophysical Research, 2004, 109, .	3.3	61
15	Short-term retreat statistics of a slowly eroding coastal cliff. Natural Hazards and Earth System Sciences, 2011, 11, 205-217.	3.6	61
16	Physical and biological processes underlying the sudden surface appearance of a red tide in the nearshore. Limnology and Oceanography, 2011, 56, 787-801.	3.1	56
17	Field observations of shear waves in the surf zone. Journal of Geophysical Research, 2004, 109, .	3.3	55
18	Crossâ€shore surfzone tracer dispersion in an alongshore current. Journal of Geophysical Research, 2010, 115, .	3.3	53

#	Article	IF	Citations
19	Equilibrium shoreline response of a high wave energy beach. Journal of Geophysical Research, 2011, 116, .	3.3	53
20	Field evidence of beach profile evolution toward equilibrium. Journal of Geophysical Research: Oceans, 2015, 120, 7574-7597.	2.6	52
21	Crossâ€shore tracer exchange between the surfzone and innerâ€shelf. Journal of Geophysical Research: Oceans, 2014, 119, 4367-4388.	2.6	48
22	Waveâ€driven setup and alongshore flows observed onshore of a submarine canyon. Journal of Geophysical Research, 2008, 113, .	3.3	41
23	Observations of drifter dispersion in the surfzone: The effect of sheared alongshore currents. Journal of Geophysical Research, 2009, 114, .	3.3	41
24	Modeling surf zone tracer plumes: 1. Waves, mean currents, and lowâ€frequency eddies. Journal of Geophysical Research, 2011, 116, .	3.3	41
25	Shoaling transformation of wave frequency-directional spectra. Journal of Geophysical Research, 2003, 108, .	3.3	37
26	Episodic vertical nutrient fluxes and nearshore phytoplankton blooms in Southern California. Limnology and Oceanography, 2012, 57, 1673-1688.	3.1	34
27	Coastal cliff ground motions from local ocean swell and infragravity waves in southern California. Journal of Geophysical Research, 2011, 116, .	3.3	32
28	Aerial Imaging of Fluorescent Dye in the Near Shore. Journal of Atmospheric and Oceanic Technology, 2014, 31, 1410-1421.	1.3	30
29	Field observations of orbital velocities and pressure in weakly nonlinear surface gravity waves. Journal of Fluid Mechanics, 1992, 245, 413.	3.4	29
30	Surf zone currents over irregular bathymetry: Drifter observations and numerical simulations. Journal of Geophysical Research, 2005, 110, .	3.3	29
31	Modeling surf zone tracer plumes: 2. Transport and dispersion. Journal of Geophysical Research, 2011, 116, .	3.3	29
32	Surfzone to innerâ€shelf exchange estimated from dye tracer balances. Journal of Geophysical Research: Oceans, 2015, 120, 6289-6308.	2.6	29
33	Observations and modeling of a tidal inlet dye tracer plume. Journal of Geophysical Research: Oceans, 2016, 121, 7819-7844.	2.6	29
34	Southern California Coastal Response to the 2015â€“2016 El NiÃ±o. Journal of Geophysical Research F: Earth Surface, 2018, 123, 3069-3083.	2.8	28
35	Refraction and reflection of infragravity waves near submarine canyons. Journal of Geophysical Research, 2007, 112, .	3.3	27
36	Midâ€El NiÃ±o erosion at nourished and unnourished Southern California beaches. Geophysical Research Letters, 2016, 43, 4510-4516.	4.0	25

#	Article	IF	Citations
37	Observed and modeled drifters at a tidal inlet. Journal of Geophysical Research: Oceans, 2015, 120, 4825-4844.	2.6	24
38	Predicting site-specific storm wave run-up. Natural Hazards, 2020, 104, 493-517.	3.4	18
39	Model-data comparisons of shear waves in the nearshore. Journal of Geophysical Research, 2005, 110, .	3.3	17
40	Crossâ€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.	3.4	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.	3.4	12
44	Refraction of Surface Gravity Waves by Shear Waves. Journal of Physical Oceanography, 2006, 36, 629-635.	1.7	12
45	Relating Lagrangian and Eulerian horizontal eddy statistics in the surfzone. Journal of Geophysical Research: Oceans, 2014, 119, 1022-1037.	2.6	11
46	Resonant scattering of edge waves by longshore periodic topography: finite beach slope. Journal of Fluid Mechanics, 1999, 387, 255-269.	3.4	10
47	A Technique for Eliminating Water Returns from Lidar Beach Elevation Surveys. Journal of Atmospheric and Oceanic Technology, 2008, 25, 1671-1682.	1.3	9
48	Experimental study of the instabilities of waves obliquely incident on a beach. Journal of Fluid Mechanics, 1979, 95, 199-208.	3.4	8
49	Cusp and Mega Cusp Observations on a Mixed Sediment Beach. Earth and Space Science, 2020, 7, e2020EA001366.	2.6	7
50	Subharmonic edge wave excitation by narrow-band, random incident waves. Journal of Fluid Mechanics, 2019, 868, .	3.4	6
51	Regional Swell Transformation by Backward Ray Tracing and SWAN. Journal of Atmospheric and Oceanic Technology, 2019, 36, 217-229.	1.3	6
52	Estimating Changes in Near-Shore Bathymetry with Subaerial Surveys. Journal of Atmospheric and Oceanic Technology, 2013, 30, 2225-2232.	1.3	2
53	A NOTE ON SETUP SENSITIVITY AND PREDICTION ACCURACY. , 2007, , .		1
54	Monitoring Regional Shoreline Change. , 2005, , 14.		0