

Bruce E Jaffe

List of Publications by Year in descending order

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87
papers

5,230
citations

101384

36
h-index

91712

69
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116
all docs

116
docs citations

116
times ranked

3292
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical criteria for distinguishing sandy tsunami and storm deposits using modern examples. <i>Sedimentary Geology</i> , 2007, 200, 184-207.	1.0	571
2	New insights of tsunami hazard from the 2011 Tohoku-oki event. <i>Marine Geology</i> , 2011, 290, 46-50.	0.9	271
3	Progress in palaeotsunami research. <i>Sedimentary Geology</i> , 2012, 243-244, 70-88.	1.0	256
4	Erosion and Sedimentation from the 17 July, 1998 Papua New Guinea Tsunami. <i>Pure and Applied Geophysics</i> , 2003, 160, 1969-1999.	0.8	238
5	Observations by the International Tsunami Survey Team in Sri Lanka. <i>Science</i> , 2005, 308, 1595-1595.	6.0	236
6	Probabilistic tsunami hazard assessment at Seaside, Oregon, for near- and far-field seismic sources. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	211
7	A simple model for calculating tsunami flow speed from tsunami deposits. <i>Sedimentary Geology</i> , 2007, 200, 347-361.	1.0	174
8	Erosion, deposition and landscape change on the Sendai coastal plain, Japan, resulting from the March 11, 2011 Tohoku-oki tsunami. <i>Sedimentary Geology</i> , 2012, 282, 27-39.	1.0	126
9	Anthropogenic influence on sedimentation and intertidal mudflat change in San Pablo Bay, California: 1856-1983. <i>Estuarine, Coastal and Shelf Science</i> , 2007, 73, 175-187.	0.9	113
10	Is "Morphodynamic Equilibrium" an oxymoron?. <i>Earth-Science Reviews</i> , 2017, 165, 257-267.	4.0	112
11	Flow speed estimated by inverse modeling of sandy tsunami deposits: results from the 11 March 2011 tsunami on the coastal plain near the Sendai Airport, Honshu, Japan. <i>Sedimentary Geology</i> , 2012, 282, 90-109.	1.0	107
12	Field Survey of the Samoa Tsunami of 29 September 2009. <i>Seismological Research Letters</i> , 2010, 81, 577-591.	0.8	101
13	The future of tsunami research following the 2011 Tohoku-oki event. <i>Sedimentary Geology</i> , 2012, 282, 1-13.	1.0	97
14	Numerical models of tsunami sediment transport " Current understanding and future directions. <i>Marine Geology</i> , 2014, 352, 295-320.	0.9	87
15	Northwest Sumatra and Offshore Islands Field Survey after the December 2004 Indian Ocean Tsunami. <i>Earthquake Spectra</i> , 2006, 22, 105-135.	1.6	79
16	Coarse-Clast Ridge Complexes of the Caribbean: A Preliminary Basis for Distinguishing Tsunami and Storm-Wave Origins. <i>Journal of Sedimentary Research</i> , 2008, 78, 624-637.	0.8	79
17	Distribution and sedimentary characteristics of tsunami deposits along the Cascadia margin of western North America. <i>Sedimentary Geology</i> , 2007, 200, 372-386.	1.0	78
18	Palaeotsunamis in the Pacific Islands. <i>Earth-Science Reviews</i> , 2011, 107, 141-146.	4.0	73

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19	Recent storm and tsunami coarse-clast deposit characteristics, southeast HawaiËi. <i>Marine Geology</i> , 2011, 283, 79-89.	0.9	73
20	Effects of fringing reefs on tsunami inundation: American Samoa. <i>Earth-Science Reviews</i> , 2011, 107, 12-22.	4.0	72
21	Sri Lanka Field Survey after the December 2004 Indian Ocean Tsunami. <i>Earthquake Spectra</i> , 2006, 22, 155-172.	1.6	71
22	Sediment transport in the San Francisco Bay Coastal System: An overview. <i>Marine Geology</i> , 2013, 345, 3-17.	0.9	68
23	Insights on the 2009 South Pacific tsunami in Samoa and Tonga from field surveys and numerical simulations. <i>Earth-Science Reviews</i> , 2011, 107, 66-75.	4.0	64
24	Accelerated relative sea-level rise and rapid coastal erosion:. <i>Marine Geology</i> , 1997, 140, 347-365.	0.9	62
25	Process-based, morphodynamic hindcast of decadal deposition patterns in San Pablo Bay, California, 1856-1887. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	61
26	Inverse modeling of velocities and inferred cause of overwash that emplaced inland fields of boulders at Aneгада, British Virgin Islands. <i>Natural Hazards</i> , 2012, 63, 133-149.	1.6	57
27	Application of an unstructured 3D finite volume numerical model to flows and salinity dynamics in the San Francisco Bay-Delta. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 192, 86-107.	0.9	57
28	Tsunami inundation and sediment transport in a sediment-limited embayment on American Samoa. <i>Earth-Science Reviews</i> , 2011, 107, 1-11.	4.0	56
29	Flow speed estimated by inverse modeling of sandy sediment deposited by the 29 September 2009 tsunami near Satitoo, east Upolu, Samoa. <i>Earth-Science Reviews</i> , 2011, 107, 23-37.	4.0	56
30	Bed composition generation for morphodynamic modeling: case study of San Pablo Bay in California, USA. <i>Ocean Dynamics</i> , 2011, 61, 173-186.	0.9	53
31	Process-based modeling of tsunami inundation and sediment transport. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	51
32	Geomorphic and stratigraphic evidence for an unusual tsunami or storm a few centuries ago at Aneгада, British Virgin Islands. <i>Natural Hazards</i> , 2012, 63, 51-84.	1.6	51
33	The relative contribution of processes driving variability in flow, shear, and turbidity over a fringing coral reef: West Maui, Hawaii. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 77, 549-564.	0.9	48
34	Nearshore Tsunami Inundation Model Validation: Toward Sediment Transport Applications. <i>Pure and Applied Geophysics</i> , 2011, 168, 2097-2119.	0.8	47
35	Hindcasting of decadal-scale estuarine bathymetric change with a tidal-scale model. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	46
36	The 2011 Tohoku-oki tsunami - Three years on. <i>Marine Geology</i> , 2014, 358, 2-11.	0.9	39

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37	Sandy signs of a tsunami's onshore depth and speed. <i>Eos</i> , 2007, 88, 577-578.	0.1	37
38	Uncertainty in Tsunami Sediment Transport Modeling. <i>Journal of Disaster Research</i> , 2016, 11, 647-661.	0.4	37
39	Mudflat Morphodynamics and the Impact of Sea Level Rise in South San Francisco Bay. <i>Estuaries and Coasts</i> , 2017, 40, 37-49.	1.0	36
40	Sedimentology and hydrodynamic implications of a coarse-grained hurricane sequence in a carbonate reef setting. <i>Geology</i> , 2009, 37, 839-842.	2.0	35
41	Tsunami Inundation and Sediment Transport in Vicinity of Coastal Mangrove Forest. , 2007, , 1117.		32
42	Spatial Trends in Tidal Flat Shape and Associated Environmental Parameters in South San Francisco Bay. <i>Journal of Coastal Research</i> , 2010, 262, 342-349.	0.1	32
43	Sediment scour and deposition within harbors in California (USA), caused by the March 11, 2011 Tohoku-oki tsunami. <i>Sedimentary Geology</i> , 2012, 282, 228-240.	1.0	32
44	Massive sediment bypassing on the lower shoreface offshore of a wide tidal inlet " Cat Island Pass, Louisiana. <i>Marine Geology</i> , 1997, 136, 131-149.	0.9	31
45	Towards a probabilistic assessment of process-based, morphodynamic models. <i>Coastal Engineering</i> , 2013, 75, 52-63.	1.7	31
46	Sedimentary organic biomarkers suggest detrimental effects of PAHs on estuarine microbial biomass during the 20th century in San Francisco Bay, CA, USA. <i>Chemosphere</i> , 2015, 119, 961-970.	4.2	30
47	Field Survey of the March 28, 2005 Nias-Simeulue Earthquake and Tsunami. <i>Pure and Applied Geophysics</i> , 2011, 168, 1075-1088.	0.8	29
48	Structure and Mechanics of the Hayward-Rodgers Creek Fault Step-Over, San Francisco Bay, California. <i>Bulletin of the Seismological Society of America</i> , 2003, 93, 2187-2200.	1.1	28
49	Wave characteristic and morphologic effects on the onshore hydrodynamic response of tsunamis. <i>Coastal Engineering</i> , 2011, 58, 1034-1048.	1.7	28
50	Using magnetic fabric to reconstruct the dynamics of tsunami deposition on the Sendai Plain, Japan " The 2011 Tohoku-oki tsunami. <i>Marine Geology</i> , 2014, 358, 89-106.	0.9	27
51	Using nonlinear forecasting to learn the magnitude and phasing of time-varying sediment suspension in the surf zone. <i>Journal of Geophysical Research</i> , 1996, 101, 14283-14296.	3.3	26
52	Intertidal Area Disappears Under Sea Level Rise: 250 Years of Morphodynamic Modeling in San Pablo Bay, California. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 38-59.	1.0	25
53	Anthropogenic pollutants and biomarkers for the identification of 2011 Tohoku-oki tsunami deposits (Japan). <i>Marine Geology</i> , 2020, 422, 106117.	0.9	24
54	Flow and sediment suspension events on the inner shelf of central California. <i>Marine Geology</i> , 2002, 181, 195-213.	0.9	23

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55	Reconstructing hydrodynamic flow parameters of the 1700 tsunami at Cannon Beach, Oregon, USA. <i>Natural Hazards</i> , 2012, 63, 223-240.	1.6	22
56	A 2-D process-based model for suspended sediment dynamics: a first step towards ecological modeling. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 2837-2857.	1.9	22
57	Using Tsunami Deposits to Improve Assessment of Tsunami Risk. , 2002, , 836.		21
58	Reconstructing sediment age profiles from historical bathymetry changes in San Pablo Bay, California. <i>Estuarine, Coastal and Shelf Science</i> , 2007, 73, 165-174.	0.9	21
59	Reply to Comments by Kelletat (2008) comments to Dawson, A.G. and Stewart, I. (2007) tsunami deposits in the geological record [<i>Sedimentary Geology</i> , 200, 166-183]. <i>Sedimentary Geology</i> , 2008, 211, 92-93.	1.0	20
60	Processes governing decadal-scale depositional narrowing of the major tidal channel in San Pablo Bay, California, USA. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 1136-1154.	1.0	20
61	Reply to Discussion of articles in "Sedimentary features of tsunami deposits", <i>Sedimentary Geology</i> , 2008, 211, 95-97.	1.0	18
62	Time-dependent onshore tsunami response. <i>Coastal Engineering</i> , 2012, 64, 73-86.	1.7	17
63	The application of microtextural and heavy mineral analysis to discriminate between storm and tsunami deposits. <i>Geological Society Special Publication</i> , 2018, 456, 167-190.	0.8	17
64	Organic geochemical investigation of far-field tsunami deposits of the Kahana Valley, Oahu, Hawaii. <i>Sedimentology</i> , 2020, 67, 1230-1248.	1.6	17
65	Inland fields of dispersed cobbles and boulders as evidence for a tsunami on Anegada, British Virgin Islands. <i>Natural Hazards</i> , 2012, 63, 119-131.	1.6	16
66	How can climate change and engineered water conveyance affect sediment dynamics in the San Francisco Bay-Delta system?. <i>Climatic Change</i> , 2017, 142, 375-389.	1.7	16
67	Mercury-Contaminated Hydraulic Mining Debris in San Francisco Bay. <i>San Francisco Estuary and Watershed Science</i> , 2010, 8, .	0.2	15
68	Mapping Elevations of Tidal Wetland Restoration Sites in San Francisco Bay: Comparing Accuracy of Aerial Lidar with a Singlebeam Echosounder. <i>Journal of Coastal Research</i> , 2010, 262, 312-319.	0.1	14
69	Discontinuous hindcast simulations of estuarine bathymetric change: A case study from Suisun Bay, California. <i>Estuarine, Coastal and Shelf Science</i> , 2011, 93, 142-150.	0.9	14
70	Sedimentary evidence of prehistoric distant-source tsunamis in the Hawaiian Islands. <i>Sedimentology</i> , 2020, 67, 1249-1273.	1.6	13
71	Tsunami. <i>Earthquake Spectra</i> , 2003, 19, 115-144.	1.6	10
72	Influence of history and environment on the sediment dynamics of intertidal flats. <i>Marine Geology</i> , 2013, 345, 294-303.	0.9	9

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73	Preface for Special Issue of Marine Geology: In the wake of the 2011 Tohoku-oki tsunami “ three years on. Marine Geology, 2014, 358, 1.	0.9	8
74	Suspended sediment dynamics in a tidal channel network under peak river flow. Ocean Dynamics, 2016, 66, 703-718.	0.9	8
75	Morphodynamic Resilience of Intertidal Mudflats on a Seasonal Time Scale. Journal of Geophysical Research: Oceans, 2019, 124, 8290-8308.	1.0	8
76	34. MODELING TIME-VARYING TSUNAMI SEDIMENT DEPOSITION. , 2009, , .		8
77	Influence of Near-surface Stratigraphy on Coastal Landslides at Sleeping Bear Dunes National Lakeshore, Lake Michigan, USA. Journal of Coastal Research, 2004, 202, 510-522.	0.1	7
78	Bed Shear Stress Estimation Under Wave Conditions Using near-bottom Measurements: Comparison of Methods. Journal of Coastal Research, 2018, 85, 241-245.	0.1	6
79	Slough evolution and legacy mercury remobilization induced by wetland restoration in South San Francisco Bay. Estuarine, Coastal and Shelf Science, 2019, 220, 1-12.	0.9	5
80	EXPLORING HYBRID MODELING OF TSUNAMI FLOW AND DEPOSIT CHARACTERISTICS. , 2015, , .		3
81	The Role of Deposits in Tsunami Risk Assessment. , 2008, , .		2
82	Does centennial morphodynamic evolution lead to higher channel efficiency in San Pablo Bay, California?. Marine Geology, 2013, 345, 254-265.	0.9	2
83	Preface for Special Issue of Marine Geology. Marine Geology, 2013, 345, 1-2.	0.9	2
84	Selective sediment transport during Hurricane Sandy on Fire Island (New York, USA): Inferences from heavy-mineral assemblages. Journal of Sedimentary Research, 2020, 90, 269-285.	0.8	1
85	Nearshore microfossil assemblages in a Caribbean reef environment show variable rates of recovery following Hurricane Irma. Sedimentology, 0, , .	1.6	1
86	Predicted Sedimentary Record of Reflected Bores. , 2007, , .		1
87	The Impact of an Extreme Event on the Sediment Budget: Hurricane Andrew in the Louisiana Barrier Islands. , 1997, , .		0