

Bruce E Jaffe

List of Publications by Citations

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103
papers

4,325
citations

35
h-index

64
g-index

116
ext. papers

4,705
ext. citations

3.9
avg, IF

5.41
L-index

#	Paper	IF	Citations
103	Physical criteria for distinguishing sandy tsunami and storm deposits using modern examples. <i>Sedimentary Geology</i> , 2007 , 200, 184-207	2.8	487
102	New insights of tsunami hazard from the 2011 Tohoku-oki event. <i>Marine Geology</i> , 2011 , 290, 46-50	3.3	231
101	Progress in palaeotsunami research. <i>Sedimentary Geology</i> , 2012 , 243-244, 70-88	2.8	217
100	Erosion and Sedimentation from the 17 July, 1998 Papua New Guinea Tsunami. <i>Pure and Applied Geophysics</i> , 2003 , 160, 1969-1999	2.2	206
99	Observations by the international tsunami survey team in Sri Lanka. <i>Science</i> , 2005 , 308, 1595	33.3	196
98	Probabilistic tsunami hazard assessment at Seaside, Oregon, for near- and far-field seismic sources. <i>Journal of Geophysical Research</i> , 2009 , 114,		177
97	A simple model for calculating tsunami flow speed from tsunami deposits. <i>Sedimentary Geology</i> , 2007 , 200, 347-361	2.8	153
96	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	2.8	100
95	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	2.9	100
94	The future of tsunami research following the 2011 Tohoku-oki event. <i>Sedimentary Geology</i> , 2012 , 282, 1-13	2.8	90
93	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	2.8	89
92	Is Morphodynamic Equilibrium an oxymoron?. <i>Earth-Science Reviews</i> , 2017 , 165, 257-267	10.2	88
91	Field Survey of the Samoa Tsunami of 29 September 2009. <i>Seismological Research Letters</i> , 2010 , 81, 577-591		85
90	Numerical models of tsunami sediment transport [Current understanding and future directions. <i>Marine Geology</i> , 2014 , 352, 295-320	3.3	80
89	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	2.1	71
88	Palaeotsunamis in the Pacific Islands. <i>Earth-Science Reviews</i> , 2011 , 107, 141-146	10.2	65
87	Northwest Sumatra and Offshore Islands Field Survey after the December 2004 Indian Ocean Tsunami. <i>Earthquake Spectra</i> , 2006 , 22, 105-135	3.4	63

86	Recent storm and tsunami coarse-clast deposit characteristics, southeast Hawai'i. <i>Marine Geology</i> , 2011 , 283, 79-89	3.3	62
85	Distribution and sedimentary characteristics of tsunami deposits along the Cascadia margin of western North America. <i>Sedimentary Geology</i> , 2007 , 200, 372-386	2.8	59
84	Process-based, morphodynamic hindcast of decadal deposition patterns in San Pablo Bay, California, 1856-1887. <i>Journal of Geophysical Research</i> , 2011 , 116,		57
83	Effects of fringing reefs on tsunami inundation: American Samoa. <i>Earth-Science Reviews</i> , 2011 , 107, 12-22	10.2	57
82	Sediment transport in the San Francisco Bay Coastal System: An overview. <i>Marine Geology</i> , 2013 , 345, 3-17	3.3	53
81	Flow speed estimated by inverse modeling of sandy sediment deposited by the 29 September 2009 tsunami near Satitua, east Upolu, Samoa. <i>Earth-Science Reviews</i> , 2011 , 107, 23-37	10.2	53
80	Accelerated relative sea-level rise and rapid coastal erosion. <i>Marine Geology</i> , 1997 , 140, 347-365	3.3	53
79	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	10.2	51
78	Sri Lanka Field Survey after the December 2004 Indian Ocean Tsunami. <i>Earthquake Spectra</i> , 2006 , 22, 155-172	3.4	50
77	Inverse modeling of velocities and inferred cause of overwash that emplaced inland fields of boulders at Anegada, British Virgin Islands. <i>Natural Hazards</i> , 2012 , 63, 133-149	3	49
76	Tsunami inundation and sediment transport in a sediment-limited embayment on American Samoa. <i>Earth-Science Reviews</i> , 2011 , 107, 1-11	10.2	49
75	Bed composition generation for morphodynamic modeling: case study of San Pablo Bay in California, USA. <i>Ocean Dynamics</i> , 2011 , 61, 173-186	2.3	46
74	Geomorphic and stratigraphic evidence for an unusual tsunami or storm a few centuries ago at Anegada, British Virgin Islands. <i>Natural Hazards</i> , 2012 , 63, 51-84	3	43
73	Process-based modeling of tsunami inundation and sediment transport. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		43
72	Hindcasting of decadal-timescale estuarine bathymetric change with a tidal-timescale model. <i>Journal of Geophysical Research</i> , 2009 , 114,		43
71	Nearshore Tsunami Inundation Model Validation: Toward Sediment Transport Applications. <i>Pure and Applied Geophysics</i> , 2011 , 168, 2097-2119	2.2	41
70	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	2.9	38
69	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	2.9	36

68	Sedimentation and bathymetric change in San Pablo Bay, 1856-1983. <i>US Geological Survey Open-File Report,</i>		35
67	Sedimentology and hydrodynamic implications of a coarse-grained hurricane sequence in a carbonate reef setting. <i>Geology</i> , 2009 , 37, 839-842	5	33
66	The 2011 Tohoku-oki tsunami □Three years on. <i>Marine Geology</i> , 2014 , 358, 2-11	3.3	32
65	Sandy signs of a tsunami's onshore depth and speed. <i>Eos</i> , 2007 , 88, 577	1.5	32
64	Uncertainty in Tsunami Sediment Transport Modeling. <i>Journal of Disaster Research</i> , 2016 , 11, 647-661	0.8	30
63	Sedimentation and bathymetry changes in Suisun Bay: 1867-1990. <i>US Geological Survey Open-File Report,</i>		29
62	Towards a probabilistic assessment of process-based, morphodynamic models. <i>Coastal Engineering</i> , 2013 , 75, 52-63	4.8	28
61	Mudflat Morphodynamics and the Impact of Sea Level Rise in South San Francisco Bay. <i>Estuaries and Coasts</i> , 2017 , 40, 37-49	2.8	27
60	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	8.4	26
59	Field Survey of the March 28, 2005 Nias-Simeulue Earthquake and Tsunami. <i>Pure and Applied Geophysics</i> , 2011 , 168, 1075-1088	2.2	26
58	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	0.6	26
57	Tsunami Inundation and Sediment Transport in Vicinity of Coastal Mangrove Forest 2007 , 1117		26
56	Reconnaissance investigation of Caribbean extreme wave deposits--Preliminary observations, interpretations, and research directions. <i>US Geological Survey Open-File Report</i> ,1-41		25
55	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	3.3	23
54	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	2.8	23
53	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	3.3	23
52	Wave characteristic and morphologic effects on the onshore hydrodynamic response of tsunamis. <i>Coastal Engineering</i> , 2011 , 58, 1034-1048	4.8	22
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		22

50	Identification of tsunami deposits in the geologic record; developing criteria using recent tsunami deposits. <i>US Geological Survey Open-File Report,</i>		22
49	Reconstructing hydrodynamic flow parameters of the 1700 tsunami at Cannon Beach, Oregon, USA. <i>Natural Hazards, 2012, 63, 223-240</i>	3	21
48	Deposition, erosion, and bathymetric change in South San Francisco Bay: 1858-1983. <i>US Geological Survey Open-File Report,</i>		21
47	A 2-D process-based model for suspended sediment dynamics: a first step towards ecological modeling. <i>Hydrology and Earth System Sciences, 2015, 19, 2837-2857</i>	5.5	20
46	Flow and sediment suspension events on the inner shelf of central California. <i>Marine Geology, 2002, 181, 195-213</i>	3.3	20
45	Reply to Comments by Kelletat (2008) comments to Dawson, A.G. and Stewart, I. (2007) tsunami deposits in the geological record [Sedimentary Geology, 200, 166-183]. <i>Sedimentary Geology, 2008, 211, 92-93</i>	2.8	19
44	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, 2014, 119, 1136-1154</i>	3.8	17
43	Structure and Mechanics of the Hayward-Rodgers Creek Fault Step-Over, San Francisco Bay, California. <i>Bulletin of the Seismological Society of America, 2003, 93, 2187-2200</i>	2.3	17
42	Reconstructing sediment age profiles from historical bathymetry changes in San Pablo Bay, California. <i>Estuarine, Coastal and Shelf Science, 2007, 73, 165-174</i>	2.9	16
41	Reply to Discussion of articles in Bedimentary features of tsunami deposits. <i>Sedimentary Geology, 2008, 211, 95-97</i>	2.8	16
40	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, 2019, 124, 38-59</i>	3.8	14
39	Time-dependent onshore tsunami response. <i>Coastal Engineering, 2012, 64, 73-86</i>	4.8	14
38	Discontinuous hindcast simulations of estuarine bathymetric change: A case study from Suisun Bay, California. <i>Estuarine, Coastal and Shelf Science, 2011, 93, 142-150</i>	2.9	14
37	Using Tsunami Deposits to Improve Assessment of Tsunami Risk 2002, 836		14
36	Cascadia Tsunami Deposit Database. <i>US Geological Survey Open-File Report,</i>		14
35	How can climate change and engineered water conveyance affect sediment dynamics in the San Francisco Bay-Delta system?. <i>Climatic Change, 2017, 142, 375-389</i>	4.5	13
34	Anthropogenic pollutants and biomarkers for the identification of 2011 Tohoku-oki tsunami deposits (Japan). <i>Marine Geology, 2020, 422, 106117</i>	3.3	12
33	The application of microtextural and heavy mineral analysis to discriminate between storm and tsunami deposits. <i>Geological Society Special Publication, 2018, 456, 167-190</i>	1.7	12

32	The Limit of Inundation of the September 29, 2009, Tsunami on Tutuila, American Samoa. <i>US Geological Survey Open-File Report</i> ,		11
31	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	3	10
30	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	0.6	10
29	Tsunami. <i>Earthquake Spectra</i> , 2003 , 19, 115-144	3.4	10
28	Organic geochemical investigation of far-field tsunami deposits of the Kahana Valley, Oahu, Hawaii. <i>Sedimentology</i> , 2020 , 67, 1230-1248	3.3	10
27	Mercury-Contaminated Hydraulic Mining Debris in San Francisco Bay. <i>San Francisco Estuary and Watershed Science</i> , 2010 , 8,	1.4	9
26	Influence of history and environment on the sediment dynamics of intertidal flats. <i>Marine Geology</i> , 2013 , 345, 294-303	3.3	8
25	Sedimentary evidence of prehistoric distant-source tsunamis in the Hawaiian Islands. <i>Sedimentology</i> , 2020 , 67, 1249-1273	3.3	8
24	Sediment Deposition, Erosion, and Bathymetric Change in Central San Francisco Bay: 1855-1979. <i>US Geological Survey Open-File Report</i> ,		7
23	Description of extreme-wave deposits on the northern coast of Bonaire, Netherlands Antilles. <i>US Geological Survey Open-File Report</i> ,		7
22	Preface for Special Issue of Marine Geology: In the wake of the 2011 Tohoku-oki tsunami 13three years on. <i>Marine Geology</i> , 2014 , 358, 1	3.3	6
21	34. MODELING TIME-VARYING TSUNAMI SEDIMENT DEPOSITION 2009 ,		6
20	Suspended sediment dynamics in a tidal channel network under peak river flow. <i>Ocean Dynamics</i> , 2016 , 66, 703-718	2.3	5
19	Influence of Near-surface Stratigraphy on Coastal Landslides at Sleeping Bear Dunes National Lakeshore, Lake Michigan, USA. <i>Journal of Coastal Research</i> , 2004 , 202, 510-522	0.6	5
18	Bathymetry and digital elevation models of Coyote Creek and Alviso Slough, South San Francisco Bay, California. <i>US Geological Survey Open-File Report</i> ,		4
17	Hurricane Sandy washover deposits on Fire Island, New York. <i>US Geological Survey Open-File Report</i> ,		4
16	Louisiana barrier island erosion study: Correction for the effect of relative sea level change on historical bathymetric survey comparisons, Isles Dernieres area, Louisiana. <i>US Geological Survey Open-File Report</i> ,		4
15	Slough evolution and legacy mercury remobilization induced by wetland restoration in South San Francisco Bay. <i>Estuarine, Coastal and Shelf Science</i> , 2019 , 220, 1-12	2.9	3

14	Coastal circulation and sediment dynamics along West Maui, Hawaii; Part I, Long-term measurements of currents, temperature, salinity and turbidity off Kahana, West Maui; 2001-2003. <i>US Geological Survey Open-File Report,</i>		3
13	Bathychronology: reconstructing historical sedimentation from bathymetric data in a GIS. <i>US Geological Survey Open-File Report,</i>		3
12	2010 bathymetric survey and digital elevation model of Corte Madera Bay, California. <i>US Geological Survey Open-File Report,</i> i-20		3
11	Morphodynamic Resilience of Intertidal Mudflats on a Seasonal Time Scale. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 8290-8308	3-3	3
10	Does centennial morphodynamic evolution lead to higher channel efficiency in San Pablo Bay, California?. <i>Marine Geology</i> , 2013 , 345, 254-265	3-3	2
9	Preface for Special Issue of Marine Geology. <i>Marine Geology</i> , 2013 , 345, 1-2	3-3	2
8	EXPLORING HYBRID MODELING OF TSUNAMI FLOW AND DEPOSIT CHARACTERISTICS 2015 ,		2
7	The Role of Deposits in Tsunami Risk Assessment 2008 ,		2
6	Estuarine sedimentation, sediment character, and foraminiferal distribution in central San Francisco Bay, California. <i>US Geological Survey Open-File Report,</i>		2
5	A new seamless, high-resolution digital elevation model of the San Francisco Bay-Delta Estuary, California. <i>US Geological Survey Open-File Report,</i> 1-27		2
4	Cartographic Production for the Louisiana Barrier Island Erosion Study: 2. Generation of Surface Grids. <i>US Geological Survey Open-File Report,</i>		2
3	High-resolution bathymetry and topography of south San Francisco Bay, California. <i>U S Geological Survey Scientific Investigations Map,</i>		2
2	Bed Shear Stress Estimation Under Wave Conditions Using near-bottom Measurements: Comparison of Methods. <i>Journal of Coastal Research</i> , 2018 , 85, 241-245	0.6	1
1	Selective sediment transport during Hurricane Sandy on Fire Island (New York, USA): Inferences from heavy-mineral assemblages. <i>Journal of Sedimentary Research</i> , 2020 , 90, 269-285	2.1	0