

# Bruce E Jaffe

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Selective sediment transport during Hurricane Sandy on Fire Island (New York, USA): Inferences from heavy-mineral assemblages. <i>Journal of Sedimentary Research</i> , <b>2020</b> , 90, 269-285	2.1	0
102	Anthropogenic pollutants and biomarkers for the identification of 2011 Tohoku-oki tsunami deposits (Japan). <i>Marine Geology</i> , <b>2020</b> , 422, 106117	3.3	12
101	Organic geochemical investigation of far-field tsunami deposits of the Kahana Valley, Oāhu, Hawaiī <i>Sedimentology</i> , <b>2020</b> , 67, 1230-1248	3.3	10
100	Sedimentary evidence of prehistoric distant-source tsunamis in the Hawaiian Islands. <i>Sedimentology</i> , <b>2020</b> , 67, 1249-1273	3.3	8
99	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> , <b>2019</b> , 124, 38-59	3.8	14
98	Slough evolution and legacy mercury remobilization induced by wetland restoration in South San Francisco Bay. <i>Estuarine, Coastal and Shelf Science</i> , <b>2019</b> , 220, 1-12	2.9	3
97	Morphodynamic Resilience of Intertidal Mudflats on a Seasonal Time Scale. <i>Journal of Geophysical Research: Oceans</i> , <b>2019</b> , 124, 8290-8308	3.3	3
96	The application of microtextural and heavy mineral analysis to discriminate between storm and tsunami deposits. <i>Geological Society Special Publication</i> , <b>2018</b> , 456, 167-190	1.7	12
95	Bed Shear Stress Estimation Under Wave Conditions Using near-bottom Measurements: Comparison of Methods. <i>Journal of Coastal Research</i> , <b>2018</b> , 85, 241-245	0.6	1
94	How can climate change and engineered water conveyance affect sediment dynamics in the San Francisco Bay-Delta system?. <i>Climatic Change</i> , <b>2017</b> , 142, 375-389	4.5	13
93	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> , <b>2017</b> , 192, 86-107	2.9	38
92	Mudflat Morphodynamics and the Impact of Sea Level Rise in South San Francisco Bay. <i>Estuaries and Coasts</i> , <b>2017</b> , 40, 37-49	2.8	27
91	Is Morphodynamic Equilibrium an oxymoron?. <i>Earth-Science Reviews</i> , <b>2017</b> , 165, 257-267	10.2	88
90	Suspended sediment dynamics in a tidal channel network under peak river flow. <i>Ocean Dynamics</i> , <b>2016</b> , 66, 703-718	2.3	5
89	Uncertainty in Tsunami Sediment Transport Modeling. <i>Journal of Disaster Research</i> , <b>2016</b> , 11, 647-661	0.8	30
88	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> , <b>2015</b> , 119, 961-970	8.4	26
87	EXPLORING HYBRID MODELING OF TSUNAMI FLOW AND DEPOSIT CHARACTERISTICS <b>2015</b> ,		2

86	A 2-D process-based model for suspended sediment dynamics: a first step towards ecological modeling. <i>Hydrology and Earth System Sciences</i> , <b>2015</b> , 19, 2837-2857	5.5	20
85	Numerical models of tsunami sediment transport [Current understanding and future directions. <i>Marine Geology</i> , <b>2014</b> , 352, 295-320	3.3	80
84	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> , <b>2014</b> , 119, 1136-1154	3.8	17
83	Preface for Special Issue of Marine Geology: In the wake of the 2011 Tohoku-oki tsunami [three years on. <i>Marine Geology</i> , <b>2014</b> , 358, 1	3.3	6
82	The 2011 Tohoku-oki tsunami [Three years on. <i>Marine Geology</i> , <b>2014</b> , 358, 2-11	3.3	32
81	Using magnetic fabric to reconstruct the dynamics of tsunami deposition on the Sendai Plain, Japan [The 2011 Tohoku-oki tsunami. <i>Marine Geology</i> , <b>2014</b> , 358, 89-106	3.3	23
80	Towards a probabilistic assessment of process-based, morphodynamic models. <i>Coastal Engineering</i> , <b>2013</b> , 75, 52-63	4.8	28
79	Does centennial morphodynamic evolution lead to higher channel efficiency in San Pablo Bay, California?. <i>Marine Geology</i> , <b>2013</b> , 345, 254-265	3.3	2
78	Influence of history and environment on the sediment dynamics of intertidal flats. <i>Marine Geology</i> , <b>2013</b> , 345, 294-303	3.3	8
77	Preface for Special Issue of Marine Geology. <i>Marine Geology</i> , <b>2013</b> , 345, 1-2	3.3	2
76	Sediment transport in the San Francisco Bay Coastal System: An overview. <i>Marine Geology</i> , <b>2013</b> , 345, 3-17	3.3	53
75	Progress in palaeotsunami research. <i>Sedimentary Geology</i> , <b>2012</b> , 243-244, 70-88	2.8	217
74	Sediment scour and deposition within harbors in California (USA), caused by the March 11, 2011 Tohoku-oki tsunami. <i>Sedimentary Geology</i> , <b>2012</b> , 282, 228-240	2.8	23
73	The future of tsunami research following the 2011 Tohoku-oki event. <i>Sedimentary Geology</i> , <b>2012</b> , 282, 1-13	2.8	90
72	Erosion, deposition and landscape change on the Sendai coastal plain, Japan, resulting from the March 11, 2011 Tohoku-oki tsunami. <i>Sedimentary Geology</i> , <b>2012</b> , 282, 27-39	2.8	100
71	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> , <b>2012</b> , 282, 90-109	2.8	89
70	Geomorphic and stratigraphic evidence for an unusual tsunami or storm a few centuries ago at Anegada, British Virgin Islands. <i>Natural Hazards</i> , <b>2012</b> , 63, 51-84	3	43
69	Inverse modeling of velocities and inferred cause of overwash that emplaced inland fields of boulders at Anegada, British Virgin Islands. <i>Natural Hazards</i> , <b>2012</b> , 63, 133-149	3	49

68	Inland fields of dispersed cobbles and boulders as evidence for a tsunami on Anegada, British Virgin Islands. <i>Natural Hazards</i> , <b>2012</b> , 63, 119-131	3	10
67	Reconstructing hydrodynamic flow parameters of the 1700 tsunami at Cannon Beach, Oregon, USA. <i>Natural Hazards</i> , <b>2012</b> , 63, 223-240	3	21
66	Time-dependent onshore tsunami response. <i>Coastal Engineering</i> , <b>2012</b> , 64, 73-86	4.8	14
65	Process-based, morphodynamic hindcast of decadal deposition patterns in San Pablo Bay, California, 1856-1887. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		57
64	Process-based modeling of tsunami inundation and sediment transport. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		43
63	New insights of tsunami hazard from the 2011 Tohoku-oki event. <i>Marine Geology</i> , <b>2011</b> , 290, 46-50	3.3	231
62	Palaeotsunamis in the Pacific Islands. <i>Earth-Science Reviews</i> , <b>2011</b> , 107, 141-146	10.2	65
61	Tsunami inundation and sediment transport in a sediment-limited embayment on American Samoa. <i>Earth-Science Reviews</i> , <b>2011</b> , 107, 1-11	10.2	49
60	Effects of fringing reefs on tsunami inundation: American Samoa. <i>Earth-Science Reviews</i> , <b>2011</b> , 107, 12-22	10.2	57
59	Insights on the 2009 South Pacific tsunami in Samoa and Tonga from field surveys and numerical simulations. <i>Earth-Science Reviews</i> , <b>2011</b> , 107, 66-75	10.2	51
58	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> , <b>2011</b> , 107, 23-37	10.2	53
57	Discontinuous hindcast simulations of estuarine bathymetric change: A case study from Suisun Bay, California. <i>Estuarine, Coastal and Shelf Science</i> , <b>2011</b> , 93, 142-150	2.9	14
56	Bed composition generation for morphodynamic modeling: case study of San Pablo Bay in California, USA. <i>Ocean Dynamics</i> , <b>2011</b> , 61, 173-186	2.3	46
55	Field Survey of the March 28, 2005 Nias-Simeulue Earthquake and Tsunami. <i>Pure and Applied Geophysics</i> , <b>2011</b> , 168, 1075-1088	2.2	26
54	Nearshore Tsunami Inundation Model Validation: Toward Sediment Transport Applications. <i>Pure and Applied Geophysics</i> , <b>2011</b> , 168, 2097-2119	2.2	41
53	Wave characteristic and morphologic effects on the onshore hydrodynamic response of tsunamis. <i>Coastal Engineering</i> , <b>2011</b> , 58, 1034-1048	4.8	22
52	Recent storm and tsunami coarse-clast deposit characteristics, southeast Hawaii. <i>Marine Geology</i> , <b>2011</b> , 283, 79-89	3.3	62
51	Mercury-Contaminated Hydraulic Mining Debris in San Francisco Bay. <i>San Francisco Estuary and Watershed Science</i> , <b>2010</b> , 8,	1.4	9

50	Field Survey of the Samoa Tsunami of 29 September 2009. <i>Seismological Research Letters</i> , <b>2010</b> , 81, 577-591		85
49	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> , <b>2010</b> , 262, 312-319	0.6	10
48	Spatial Trends in Tidal Flat Shape and Associated Environmental Parameters in South San Francisco Bay. <i>Journal of Coastal Research</i> , <b>2010</b> , 262, 342-349	0.6	26
47	Sedimentology and hydrodynamic implications of a coarse-grained hurricane sequence in a carbonate reef setting. <i>Geology</i> , <b>2009</b> , 37, 839-842	5	33
46	Probabilistic tsunami hazard assessment at Seaside, Oregon, for near- and far-field seismic sources. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		177
45	Hindcasting of decadal-timescale estuarine bathymetric change with a tidal-timescale model. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		43
44	34. MODELING TIME-VARYING TSUNAMI SEDIMENT DEPOSITION <b>2009</b> ,		6
43	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> , <b>2008</b> , 77, 549-564	2.9	36
42	The Role of Deposits in Tsunami Risk Assessment <b>2008</b> ,		2
41	Coarse-Clast Ridge Complexes of the Caribbean: A Preliminary Basis for Distinguishing Tsunami and Storm-Wave Origins. <i>Journal of Sedimentary Research</i> , <b>2008</b> , 78, 624-637	2.1	71
40	Reply to Discussion of articles in Bedimentary features of tsunami deposits [Sedimentary Geology, <b>2008</b> , 211, 95-97	2.8	16
39	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</i> , <b>2008</b> , 211, 92-93	2.8	19
38	Sandy signs of a tsunami's onshore depth and speed. <i>Eos</i> , <b>2007</b> , 88, 577	1.5	32
37	Physical criteria for distinguishing sandy tsunami and storm deposits using modern examples. <i>Sedimentary Geology</i> , <b>2007</b> , 200, 184-207	2.8	487
36	A simple model for calculating tsunami flow speed from tsunami deposits. <i>Sedimentary Geology</i> , <b>2007</b> , 200, 347-361	2.8	153
35	Reconstructing sediment age profiles from historical bathymetry changes in San Pablo Bay, California. <i>Estuarine, Coastal and Shelf Science</i> , <b>2007</b> , 73, 165-174	2.9	16
34	Anthropogenic influence on sedimentation and intertidal mudflat change in San Pablo Bay, California: 1856-1983. <i>Estuarine, Coastal and Shelf Science</i> , <b>2007</b> , 73, 175-187	2.9	100
33	Distribution and sedimentary characteristics of tsunami deposits along the Cascadia margin of western North America. <i>Sedimentary Geology</i> , <b>2007</b> , 200, 372-386	2.8	59

32	Tsunami Inundation and Sediment Transport in Vicinity of Coastal Mangrove Forest <b>2007</b> , 1117		26
31	Northwest Sumatra and Offshore Islands Field Survey after the December 2004 Indian Ocean Tsunami. <i>Earthquake Spectra</i> , <b>2006</b> , 22, 105-135	3.4	63
30	Sri Lanka Field Survey after the December 2004 Indian Ocean Tsunami. <i>Earthquake Spectra</i> , <b>2006</b> , 22, 155-172	3.4	50
29	Observations by the international tsunami survey team in Sri Lanka. <i>Science</i> , <b>2005</b> , 308, 1595	33.3	196
28	Influence of Near-surface Stratigraphy on Coastal Landslides at Sleeping Bear Dunes National Lakeshore, Lake Michigan, USA. <i>Journal of Coastal Research</i> , <b>2004</b> , 202, 510-522	0.6	5
27	Structure and Mechanics of the Hayward-Rodgers Creek Fault Step-Over, San Francisco Bay, California. <i>Bulletin of the Seismological Society of America</i> , <b>2003</b> , 93, 2187-2200	2.3	17
26	Erosion and Sedimentation from the 17 July, 1998 Papua New Guinea Tsunami. <i>Pure and Applied Geophysics</i> , <b>2003</b> , 160, 1969-1999	2.2	206
25	Tsunami. <i>Earthquake Spectra</i> , <b>2003</b> , 19, 115-144	3.4	10
24	Flow and sediment suspension events on the inner shelf of central California. <i>Marine Geology</i> , <b>2002</b> , 181, 195-213	3.3	20
23	Using Tsunami Deposits to Improve Assessment of Tsunami Risk <b>2002</b> , 836		14
22	Massive sediment bypassing on the lower shoreface offshore of a wide tidal inlet [Cat Island Pass, Louisiana. <i>Marine Geology</i> , <b>1997</b> , 136, 131-149	3.3	23
21	Accelerated relative sea-level rise and rapid coastal erosion:. <i>Marine Geology</i> , <b>1997</b> , 140, 347-365	3.3	53
20	Using nonlinear forecasting to learn the magnitude and phasing of time-varying sediment suspension in the surf zone. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 14283-14296		22
19	Cascadia Tsunami Deposit Database. <i>US Geological Survey Open-File Report</i> ,		14
18	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
17	Deposition, erosion, and bathymetric change in South San Francisco Bay: 1858-1983. <i>US Geological Survey Open-File Report</i> ,		21
16	Bathychronology: reconstructing historical sedimentation from bathymetric data in a GIS. <i>US Geological Survey Open-File Report</i> ,		3
15	Reconnaissance investigation of Caribbean extreme wave deposits--Preliminary observations, interpretations, and research directions. <i>US Geological Survey Open-File Report</i> ,1-41		25

14	Sediment Deposition, Erosion, and Bathymetric Change in Central San Francisco Bay: 1855-1979. <i>US Geological Survey Open-File Report,</i>	7
13	The Limit of Inundation of the September 29, 2009, Tsunami on Tutuila, American Samoa. <i>US Geological Survey Open-File Report,</i>	11
12	Estuarine sedimentation, sediment character, and foraminiferal distribution in central San Francisco Bay, California. <i>US Geological Survey Open-File Report,</i>	2
11	Description of extreme-wave deposits on the northern coast of Bonaire, Netherlands Antilles. <i>US Geological Survey Open-File Report,</i>	7
10	Identification of tsunami deposits in the geologic record; developing criteria using recent tsunami deposits. <i>US Geological Survey Open-File Report,</i>	22
9	2010 bathymetric survey and digital elevation model of Corte Madera Bay, California. <i>US Geological Survey Open-File Report,i-20</i>	3
8	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
7	Hurricane Sandy washover deposits on Fire Island, New York. <i>US Geological Survey Open-File Report,</i>	4
6	A new seamless, high-resolution digital elevation model of the San Francisco Bay-Delta Estuary, California. <i>US Geological Survey Open-File Report,1-27</i>	2
5	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
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	Sedimentation and bathymetric change in San Pablo Bay, 1856-1983. <i>US Geological Survey Open-File Report,</i>	35
2	Sedimentation and bathymetry changes in Suisun Bay: 1867-1990. <i>US Geological Survey Open-File Report,</i>	29
1	High-resolution bathymetry and topography of south San Francisco Bay, California. <i>US Geological Survey Scientific Investigations Map,</i>	2