Brett F Sanders

List of Publications by Year
in descending order

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104	6,777	57631	62479
papers	citations	44 h-index	80 g-index

105	105	105	5836
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rapid assessment of abrupt urban mega-gully and landslide events with structure-from-motion photogrammetric techniques validates link to water resources infrastructure failures in an urban periphery. Natural Hazards and Earth System Sciences, 2022, 22, 523-538.	1.5	3
2	Compound Postâ€Fire Flood Hazards Considering Infrastructure Sedimentation. Earth's Future, 2022, 10, .	2.4	6
3	Enabling incremental adaptation in disadvantaged communities: polycentric governance with a focus on non-financial capital. Climate Policy, 2021, 21, 396-405.	2.6	2
4	Multi-decadal simulation of estuarine sedimentation under sea level rise with a response-surface surrogate model. Advances in Water Resources, 2021, 150, 103876.	1.7	5
5	Predicting distribution of malaria vector larval habitats in Ethiopia by integrating distributed hydrologic modeling with remotely sensed data. Scientific Reports, 2021, 11, 10150.	1.6	6
6	Breaking Down the Computational Barriers to Realâ€Time Urban Flood Forecasting. Geophysical Research Letters, 2021, 48, e2021GL093585.	1.5	21
7	Barriers and opportunities for beneficial reuse of sediment to support coastal resilience. Ocean and Coastal Management, 2020, 195, 105287.	2.0	20
8	Stochastic Hydroâ€Financial Watershed Modeling for Environmental Impact Bonds. Water Resources Research, 2020, 56, e2020WR027328.	1.7	8
9	Addressing Pluvial Flash Flooding through Community-Based Collaborative Research in Tijuana, Mexico. Water (Switzerland), 2020, 12, 1257.	1.2	9
10	Reâ€envisioning stormwater infrastructure for ultrahazardous flooding. Wiley Interdisciplinary Reviews: Water, 2020, 7, e1414.	2.8	19
11	Collaborative Modeling With Fineâ€Resolution Data Enhances Flood Awareness, Minimizes Differences in Flood Perception, and Produces Actionable Flood Maps. Earth's Future, 2020, 8, e2019EF001391.	2.4	53
12	PRIMo: Parallel raster inundation model. Advances in Water Resources, 2019, 126, 79-95.	1.7	72
13	Linking statistical and hydrodynamic modeling for compound flood hazard assessment in tidal channels and estuaries. Advances in Water Resources, 2019, 128, 28-38.	1.7	107
14	The Influence of Hazard Maps and Trust of Flood Controls on Coastal Flood Spatial Awareness and Risk Perception. Environment and Behavior, 2019, 51, 347-375.	2.1	27
15	What Is Nuisance Flooding? Defining and Monitoring an Emerging Challenge. Water Resources Research, 2018, 54, 4218-4227.	1.7	123
16	Multihazard Scenarios for Analysis of Compound Extreme Events. Geophysical Research Letters, 2018, 45, 5470-5480.	1.5	139
17	Going beyond the flood insurance rate map: insights from flood hazard map co-production. Natural Hazards and Earth System Sciences, 2018, 18, 1097-1120.	1.5	60
18	Tidal asymmetry and residual sediment transport in a short tidal basin under sea level rise. Advances in Water Resources, 2018, 121, 1-8.	1.7	33

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19	Cumulative hazard: The case of nuisance flooding. Earth's Future, 2017, 5, 214-223.	2.4	168
20	Dual integral porosity shallow water model for urban flood modelling. Advances in Water Resources, 2017, 103, 16-31.	1.7	60
21	Compounding effects of sea level rise and fluvial flooding. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9785-9790.	3.3	294
22	A framework for the case-specific assessment of Green Infrastructure in mitigating urban flood hazards. Advances in Water Resources, 2017, 108, 55-68.	1.7	82
23	Predicting nonstationary flood frequencies: Evidence supports an updated stationarity thesis in the <scp>U</scp>nited <scp>S</scp>tates. Water Resources Research, 2017, 53, 5469-5494.	1.7	99
24	Translating Uncertain Sea Level Projections Into Infrastructure Impacts Using a Bayesian Framework. Geophysical Research Letters, 2017, 44, 11,914.	1.5	12
25	An intercomparison of remote sensing river discharge estimation algorithms from measurements of river height, width, and slope. Water Resources Research, 2016, 52, 4527-4549.	1.7	163
26	Integrating resident digital sketch maps with expert knowledge to assess spatial knowledge of flood risk: A case study of participatory mapping in Newport Beach, California. Applied Geography, 2016, 74, 56-64.	1.7	22
27	Projecting nuisance flooding in a warming climate using generalized linear models and Gaussian processes. Journal of Geophysical Research: Oceans, 2016, 121, 8008-8020.	1.0	29
28	Dam-Break Flood Model Uncertainty Assessment: Case Study of Extreme Flooding with Multiple Dam Failures in Gangneung, South Korea. Journal of Hydraulic Engineering, 2016, 142, .	0.7	31
29	A high resolution coupled hydrologicâ€“hydraulic model (HiResFlood-UCI) for flash flood modeling. Journal of Hydrology, 2016, 541, 401-420.	2.3	98
30	Communicating flood risk: Looking back and forward at traditional and social media outlets. International Journal of Disaster Risk Reduction, 2016, 15, 43-51.	1.8	70
31	Increased nuisance flooding along the coasts of the United States due to sea level rise: Past and future. Geophysical Research Letters, 2015, 42, 9846-9852.	1.5	144
32	Testing the impact of atâ€source stormwater management on urban flooding through a coupling of network and overland flow models. Wiley Interdisciplinary Reviews: Water, 2015, 2, 291-300.	2.8	34
33	Metric-Resolution 2D River Modeling at the Macroscale: Computational Methods and Applications in a Braided River. Frontiers in Earth Science, 2015, 3, .	0.8	8
34	Terrestrial Laser Scanning of Anthropogenic Beach Berm Erosion and Overtopping. Journal of Coastal Research, 2015, 31, 47.	0.1	13
35	A robust finite volume model to simulate granular flows. Computers and Geotechnics, 2015, 66, 96-112.	2.3	17
36	Urban flood modeling with porous shallow-water equations: A case study of model errors in the presence of anisotropic porosity. Journal of Hydrology, 2015, 523, 680-692.	2.3	83

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37	Hydraulic modeling of the 2011 New Madrid Floodway activation: a case study on floodway activation controls. Natural Hazards, 2015, 77, 1863-1887.	1.6	20
38	From Rain Tanks to Catchments: Use of Low-Impact Development To Address Hydrologic Symptoms of the Urban Stream Syndrome. Environmental Science & Technology, 2015, 49, 11264-11280.	4.6	129
39	Australia's Drought: Lessons for California. Science, 2014, 343, 1430-1431.	6.0	67
40	Small Drains, Big Problems: The Impact of Dry Weather Runoff on Shoreline Water Quality at Enclosed Beaches. Environmental Science & Technology, 2014, 48, 14168-14177.	4.6	15
41	Calibration of stormwater management model using flood extent data. Water Management, 2014, 167, 17-29.	0.4	13
42	The LHLLC scheme for Two-Layer and Two-Phase transcritical flows over a mobile bed with avalanching, wetting and drying. Advances in Water Resources, 2014, 67, 16-31.	1.7	14
43	Mesh type tradeoffs in 2D hydrodynamic modeling of flooding with a Godunov-based flow solver. Advances in Water Resources, 2014, 68, 42-61.	1.7	78
44	Urban coastal flood prediction: Integrating wave overtopping, flood defenses and drainage. Coastal Engineering, 2014, 91, 18-28.	1.7	112
45	Structural Damage Prediction in a High-Velocity Urban Dam-Break Flood: Field-Scale Assessment of Predictive Skill. Journal of Engineering Mechanics - ASCE, 2012, 138, 1249-1262.	1.6	25
46	A Parcel-Scale Coastal Flood Forecasting Prototype for a Southern California Urbanized Embayment. Journal of Coastal Research, 2012, 29, 642.	0.1	16
47	Taking the â€œWasteâ€•Out of â€œWastewaterâ€•for Human Water Security and Ecosystem Sustainability. Science, 2012, 337, 681-686.	6.0	513
48	Building treatments for urban flood inundation models and implications for predictive skill and modeling efficiency. Advances in Water Resources, 2012, 41, 49-64.	1.7	213
49	SEA LEVEL RISE IMPACT ASSESSMENT AND MITIGATION ALTERNATIVES DEVELOPMENT FOR BALBOA ISLANDS, CITY OF NEWPORT BEACH, CALIFORNIA. Coastal Engineering Proceedings, 2012, 1, 22.	0.1	0
50	Environmental Fate and Transport Modeling for Perfluorooctanoic Acid Emitted from the Washington Works Facility in West Virginia. Environmental Science & Technology, 2011, 45, 1435-1442.	4.6	154
51	Sea Level Rise Impact Assessment and Mitigation Alternatives Development for Balboa Island and Little Balboa Island, City of Newport Beach, California. , 2011, , .		2
52	Velocity Contour Weighting Method. I: Algorithm Development and Laboratory Testing. Journal of Hydraulic Engineering, 2011, 137, 1359-1367.	0.7	2
53	Velocity Contour Weighting Method. II: Evaluation in Trapezoidal Channels and Roughness Sensitivity. Journal of Hydraulic Engineering, 2011, 137, 1368-1374.	0.7	0
54	Predicting tidal flooding of urbanized embayments: A modeling framework and data requirements. Coastal Engineering, 2011, 58, 567-577.	1.7	106

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55	Earthen Embankment Breaching. Journal of Hydraulic Engineering, 2011, 137, 1549-1564.	0.7	170
56	Network Implementation of the Two-Component Pressure Approach for Transient Flow in Storm Sewers. Journal of Hydraulic Engineering, 2011, 137, 158-172.	0.7	38
57	A balanced treatment of secondary currents, turbulence and dispersion in a depth-integrated hydrodynamic and bed deformation model for channel bends. Advances in Water Resources, 2010, 33, 17-33.	1.7	36
58	ParBreZo: A parallel, unstructured grid, Godunov-type, shallow-water code for high-resolution flood inundation modeling at the regional scale. Advances in Water Resources, 2010, 33, 1456-1467.	1.7	129
59	Subcritical Contraction for Improved Open-Channel Flow Measurement Accuracy with an Upward-Looking ADVM. Journal of Irrigation and Drainage Engineering - ASCE, 2010, 136, 617-626.	0.6	11
60	Beach Boundary Layer: A Framework for Addressing Recreational Water Quality Impairment at Enclosed Beaches. Environmental Science & Technology, 2010, 44, 8804-8813.	4.6	19
61	Two-dimensional, high-resolution modeling of urban dam-break flooding: A case study of Baldwin Hills, California. Advances in Water Resources, 2009, 32, 1323-1335.	1.7	194
62	Unstructured mesh generation and landcover-based resistance for hydrodynamic modeling of urban flooding. Advances in Water Resources, 2008, 31, 1603-1621.	1.7	178
63	Integral formulation of shallow-water equations with anisotropic porosity for urban flood modeling. Journal of Hydrology, 2008, 362, 19-38.	2.3	158
64	Integration of a shallow water model with a local time step. Journal of Hydraulic Research/De Recherches Hydrauliques, 2008, 46, 466-475.	0.7	85
65	Treatment of Dry Weather Urban Runoff in Tidal Saltwater Marshes: A Longitudinal Study of the Talbert Marsh in Southern California. Environmental Science & Technology, 2008, 42, 3609-3614.	4.6	11
66	Adaptive Godunov-Based Model for Flood Simulation. Journal of Hydraulic Engineering, 2008, 134, 714-725.	0.7	95
67	Simulation of the St. Francis Dam-Break Flood. Journal of Engineering Mechanics - ASCE, 2007, 133, 1200-1212.	1.6	99
68	Conservative Wetting and Drying Methodology for Quadrilateral Grid Finite-Volume Models. Journal of Hydraulic Engineering, 2007, 133, 312-322.	0.7	66
69	Evaluation of on-line DEMs for flood inundation modeling. Advances in Water Resources, 2007, 30, 1831-1843.	1.7	314
70	Unstructured Grid Finite-Volume Algorithm for Shallow-Water Flow and Scalar Transport with Wetting and Drying. Journal of Hydraulic Engineering, 2006, 132, 371-384.	0.7	182
71	The Information Content of High-Frequency Environmental Monitoring Data Signals Pollution Events in the Coastal Ocean. Environmental Science & Technology, 2006, 40, 6215-6220.	4.6	12
72	Passive and active control of diversions to an off-line reservoir for flood stage reduction. Advances in Water Resources, 2006, 29, 861-871.	1.7	14

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73	Performance of Parallel Implementations of an Explicit Finite-Volume Shallow-Water Model. Journal of Computing in Civil Engineering, 2006, 20, 99-110.	2.5	22
74	Impact of Limiters on Accuracy of High-Resolution Flow and Transport Models. Journal of Engineering Mechanics - ASCE, 2006, 132, 87-98.	1.6	22
75	Early Results and Historical Data from NEOCO (Network for Environmental Observations of the) Tj ETQq1 1 0.784314 rgBT /Overlock		0
76	Performance of High-Resolution, Nonlevel Bed, Shallow-Water Models. Journal of Engineering Mechanics - ASCE, 2005, 131, 1073-1081.	1.6	28
77	Modeling the dry-weather tidal cycling of fecal indicator bacteria in surface waters of an intertidal wetland. Water Research, 2005, 39, 3394-3408.	5.3	72
78	Modeling Circulation and Mixing in Tidal Wetlands of the Santa Ana River. , 2004, , 751.		3
79	Random-Walk Suspended Sediment Transport and Settling Model. , 2004, , 713.		2
80	Dispersion Model for Tidal Wetlands. Journal of Hydraulic Engineering, 2004, 130, 739-754.	0.7	49
81	Longitudinal interpolation of parameters characterizing channel geometry by piece-wise polynomial and universal kriging methods: effect on flow modeling. Advances in Water Resources, 2004, 27, 1061-1073.	1.7	8
82	Locating Sources of Surf Zone Pollution:Â A Mass Budget Analysis of Fecal Indicator Bacteria at Huntington Beach, California. Environmental Science & Technology, 2004, 38, 2626-2636.	4.6	60
83	Scaling and Management of Fecal Indicator Bacteria in Runoff from a Coastal Urban Watershed in Southern California. Environmental Science & Technology, 2004, 38, 2637-2648.	4.6	149
84	Discretization of Integral Equations Describing Flow in Nonprismatic Channels with Uneven Beds. Journal of Hydraulic Engineering, 2003, 129, 235-244.	0.7	22
85	Data Requirements for Load Estimation in Well-Mixed Tidal Channels. Journal of Environmental Engineering, ASCE, 2003, 129, 765-773.	0.7	0
86	Finite-Volume Models for Unidirectional, Nonlinear, Dispersive Waves. Journal of Waterway, Port, Coastal and Ocean Engineering, 2002, 128, 173-182.	0.5	17
87	Modeling Flows with Moving Boundaries due to Flooding, Recession, and Wave Run-Up. , 2002, , 695.		2
88	Optimization of Multiple Freshwater Diversions in Well-Mixed Estuaries. Journal of Water Resources Planning and Management - ASCE, 2002, 128, 74-84.	1.3	9
89	Finite-Volume Model for Shallow-Water Flooding of Arbitrary Topography. Journal of Hydraulic Engineering, 2002, 128, 289-298.	0.7	274
90	Mitigation of Salinity Intrusion in Well-mixed Estuaries by Optimization of Freshwater Diversion Rates. Journal of Hydraulic Engineering, 2002, 128, 64-77.	0.7	11

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91	Finite Volume Schemes for the Boussinesq Equations. , 2002, , 953.		4
92	Cross-Shelf Transport at Huntington Beach. Implications for the Fate of Sewage Discharged through an Offshore Ocean Outfall. Environmental Science & Technology, 2002, 36, 1899-1906.	4.6	67
93	Non-reflecting boundary flux function for finite volume shallow-water models. Advances in Water Resources, 2002, 25, 195-202.	1.7	37
94	High-resolution, monotone solution of the adjoint shallow-water equations. International Journal for Numerical Methods in Fluids, 2002, 38, 139-161.	0.9	3
95	High-resolution and non-oscillatory solution of the St. Venant equations in non-rectangular and non-prismatic channels. Journal of Hydraulic Research/De Recherches Hydrauliques, 2001, 39, 321-330.	0.7	80
96	Generation of Enterococci Bacteria in a Coastal Saltwater Marsh and Its Impact on Surf Zone Water Quality. Environmental Science & Technology, 2001, 35, 2407-2416.	4.6	166
97	Engineered Levee Breaches for Flood Mitigation. Journal of Hydraulic Engineering, 2001, 127, 471-479.	0.7	39
98	Case Study: Modeling Tidal Transport of Urban Runoff in Channels Using the Finite-Volume Method. Journal of Hydraulic Engineering, 2001, 127, 795-804.	0.7	30
99	Adjoint Sensitivity Analysis for Shallow-Water Wave Control. Journal of Engineering Mechanics - ASCE, 2000, 126, 909-919.	1.6	55
100	Active Flood Hazard Mitigation.â€ƒII: Omnidirectional Wave Control. Journal of Hydraulic Engineering, 1999, 125, 1071-1083.	0.7	11
101	Active Flood Hazard Mitigation.â€ƒI: Bidirectional Wave Control. Journal of Hydraulic Engineering, 1999, 125, 1057-1070.	0.7	16
102	Control of Canal Flow by Adjoint Sensitivity Method. Journal of Irrigation and Drainage Engineering - ASCE, 1999, 125, 287-297.	0.6	46
103	Spectral Modeling of Nonlinear Dispersive Waves. Journal of Hydraulic Engineering, 1998, 124, 2-12.	0.7	27
104	Short-Wave Behavior of Long-Wave Equations. Journal of Waterway, Port, Coastal and Ocean Engineering, 1998, 124, 238-247.	0.5	5