

Brandon Dugan

List of Publications by Year in descending order

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97
papers

4,952
citations

136950

32
h-index

98798

67
g-index

99
all docs

99
docs citations

99
times ranked

4525
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical properties of hydrate-bearing sediments. <i>Reviews of Geophysics</i> , 2009, 47, .	23.0	746
2	New approaches to measuring biochar density and porosity. <i>Biomass and Bioenergy</i> , 2014, 66, 176-185.	5.7	412
3	Hydrologic properties of biochars produced at different temperatures. <i>Biomass and Bioenergy</i> , 2012, 41, 34-43.	5.7	394
4	Overpressure and Fluid Flow in the New Jersey Continental Slope: Implications for Slope Failure and Cold Seeps. <i>Science</i> , 2000, 289, 288-291.	12.6	263
5	Biochar particle size, shape, and porosity act together to influence soil water properties. <i>PLoS ONE</i> , 2017, 12, e0179079.	2.5	200
6	Biochar-Induced Changes in Soil Hydraulic Conductivity and Dissolved Nutrient Fluxes Constrained by Laboratory Experiments. <i>PLoS ONE</i> , 2014, 9, e108340.	2.5	199
7	Impacts of biochar concentration and particle size on hydraulic conductivity and DOC leaching of biochar-sand mixtures. <i>Journal of Hydrology</i> , 2016, 533, 461-472.	5.4	149
8	Origin and Extent of Fresh Paleowaters on the Atlantic Continental Shelf, USA. <i>Ground Water</i> , 2010, 48, 143-158.	1.3	116
9	Biochar physico-chemical properties as affected by environmental exposure. <i>Science of the Total Environment</i> , 2016, 563-564, 237-246.	8.0	110
10	Pleistocene hydrogeology of the Atlantic continental shelf, New England. <i>Bulletin of the Geological Society of America</i> , 2003, 115, 1324.	3.3	107
11	Pore pressure penetrometers document high overpressure near the seafloor where multiple submarine landslides have occurred on the continental slope, offshore Louisiana, Gulf of Mexico. <i>Earth and Planetary Science Letters</i> , 2008, 269, 309-325.	4.4	105
12	Retrogressive failures recorded in mass transport deposits in the Ursa Basin, Northern Gulf of Mexico. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	99
13	Slow slip source characterized by lithological and geometric heterogeneity. <i>Science Advances</i> , 2020, 6, eaay3314.	10.3	95
14	Extending NMR data for permeability estimation in fine-grained sediments. <i>Marine and Petroleum Geology</i> , 2009, 26, 1419-1427.	3.3	92
15	Overpressure and earthquake initiated slope failure in the Ursa region, northern Gulf of Mexico. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	85
16	Pore water sulfate, alkalinity, and carbon isotope profiles in shallow sediment above marine gas hydrate systems: A numerical modeling perspective. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	83
17	Offshore sediment overpressures of passive margins: Mechanisms, measurement, and models. <i>Reviews of Geophysics</i> , 2012, 50, .	23.0	70
18	Fluid flow and stability of the US continental slope offshore New Jersey from the Pleistocene to the present. <i>Geofluids</i> , 2002, 2, 137-146.	0.7	68

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19	Controls on the size and geometry of landslides: Insights from discrete element numerical simulations. <i>Geomorphology</i> , 2014, 220, 104-113.	2.6	67
20	Generalization of gas hydrate distribution and saturation in marine sediments by scaling of thermodynamic and transport processes. <i>Numerische Mathematik</i> , 2007, 307, 861-900.	1.4	65
21	Origin and evolution of fracture-hosted methane hydrate deposits. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	60
22	Release of mineral-bound water prior to subduction tied to shallow seismogenic slip off Sumatra. <i>Science</i> , 2017, 356, 841-844.	12.6	57
23	Effects of rapid sedimentation on developing the Nyegga pockmark field: Constraints from hydrological modeling and 3D seismic data, offshore mid-Norway. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	53
24	Permeability anisotropy and fabric development: A mechanistic explanation. <i>Water Resources Research</i> , 2011, 47, .	4.2	51
25	Permeability-porosity relationships of shallow mudstones in the Ursa Basin, northern deepwater Gulf of Mexico. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	47
26	The impact of lithologic heterogeneity and focused fluid flow upon gas hydrate distribution in marine sediments. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 6705-6732.	3.4	46
27	Sulfate-methane transition as a proxy for average methane hydrate saturation in marine sediments. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	45
28	Capillary controls on methane hydrate distribution and fracturing in advective systems. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	45
29	An improved technique for computing permeability from NMR measurements in mudstones. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	38
30	Ice sheet-derived submarine groundwater discharge on Greenland's continental shelf. <i>Water Resources Research</i> , 2011, 47, .	4.2	38
31	Petrophysical and consolidation behavior of mass transport deposits from the northern Gulf of Mexico, IODP Expedition 308. <i>Marine Geology</i> , 2012, 315-318, 98-107.	2.1	38
32	Erratum to "Pore pressure penetrometers document high overpressure near the seafloor where multiple submarine landslides have occurred on the continental slope, offshore Louisiana, Gulf of Mexico" [<i>Earth and Planetary Science Letters</i> 269/3-4 (2008) 309-32]. <i>Earth and Planetary Science Letters</i> , 2008, 274, 269-283.	4.4	37
33	Transient hydraulic fracturing and gas release in methane hydrate settings: A case study from southern Hydrate Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	37
34	Near-seafloor overpressure in the deepwater Mississippi Canyon, northern Gulf of Mexico. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	34
35	Characterization of the Rapanui mass-transport deposit and the basal shear zone: Mount Messenger Formation, Taranaki Basin, New Zealand. <i>Sedimentology</i> , 2020, 67, 2111-2148.	3.1	31
36	Offshore Freshened Groundwater in Continental Margins. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000706.	23.0	31

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37	Physical properties of sediments from Keathley Canyon and Atwater Valley, IIP Gulf of Mexico gas hydrate drilling program. <i>Marine and Petroleum Geology</i> , 2008, 25, 896-905.	3.3	30
38	Use of a vertical $\delta^{18}O$ profile to constrain hydraulic properties and recharge rates across a glacio-lacustrine unit, Nantucket Island, Massachusetts, USA. <i>Hydrogeology Journal</i> , 2012, 20, 325-336.	2.1	30
39	Sedimentology, stratigraphy and architecture of the Nicobar Fan (Bengalâ€“Nicobar Fan System), Indian Ocean: Results from International Ocean Discovery Program Expedition 362. <i>Sedimentology</i> , 2020, 67, 2248-2281.	3.1	28
40	Overpressure and consolidation near the seafloor of Brazosâ€“Trinity Basin IV, northwest deepwater Gulf of Mexico. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	26
41	Analytical theory relating the depth of the sulfateâ€“methane transition to gas hydrate distribution and saturation. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, .	2.5	25
42	Data report: consolidation characteristics of sediments from IODP Expedition 308, Ursa Basin, Gulf of Mexico. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	24
43	Effects of multiphase methane supply on hydrate accumulation and fracture generation. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	23
44	Consolidation, effective stress, and fluid pressure of sediments from ODP Site 1073, US mid-Atlantic continental slope. <i>Earth and Planetary Science Letters</i> , 2003, 215, 13-26.	4.4	20
45	Expedition 372B/375 summary. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	20
46	Influence of late Pleistocene glaciations on the hydrogeology of the continental shelf offshore Massachusetts, USA. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 4651-4670.	2.5	19
47	Expedition 362 summary. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	19
48	Fluid flow in the Keathley Canyon 151 Mini-Basin, northern Gulf of Mexico. <i>Marine and Petroleum Geology</i> , 2008, 25, 919-923.	3.3	18
49	Effect of environmental exposure on charcoal density and porosity in a boreal forest. <i>Science of the Total Environment</i> , 2017, 592, 316-325.	8.0	18
50	Effect of freeze-thaw cycling on grain size of biochar. <i>PLoS ONE</i> , 2018, 13, e0191246.	2.5	18
51	Expedition 372B/375 methods. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	18
52	Site U1520. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	18
53	Geophysical evidence of a late Pleistocene glaciation and paleo-ice stream on the Atlantic Continental Shelf offshore Massachusetts, USA. <i>Marine Geology</i> , 2012, 303-306, 63-74.	2.1	17
54	Origin of a zone of anomalously high porosity in the subduction inputs to Nankai Trough. <i>Marine Geology</i> , 2015, 361, 147-162.	2.1	17

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55	Sedimentation Controls on Methane Hydrate Dynamics Across Glacial/Interglacial Stages: An Example From International Ocean Discovery Program Site U1517, Hikurangi Margin. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 4906-4921.	2.5	17
56	Data report: permeability, compressibility, stress state, and grain size of shallow sediments from Sites C0004, C0006, C0007, and C0008 of the Nankai accretionary complex. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	17
57	Data report: permeability, consolidation, stress state, and pore system characteristics of sediments from Sites C0011, C0012, and C0018 of the Nankai Trough. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	17
58	Integrating geophysical, hydrochemical, and hydrologic data to understand the freshwater resources on Nantucket Island, Massachusetts. <i>Geophysical Monograph Series</i> , 2007, , 143-159.	0.1	16
59	Site U1518. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	16
60	The Eastern North American Margin Community Seismic Experiment: An Amphibious Active and Passive Source Dataset. <i>Seismological Research Letters</i> , 2020, 91, 533-540.	1.9	15
61	Site U1517. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	14
62	Scientific Objectives of the Gulf of Mexico Gas Hydrate JIP Leg II Drilling. , 2008, , .		12
63	Expedition 362 methods. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	12
64	Glacially generated overpressure on the New England continental shelf: Integration of full waveform inversion and overpressure modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 3393-3409.	3.4	11
65	Pore size controls on the base of the methane hydrate stability zone in the Kumano Basin, offshore Japan. <i>Geophysical Research Letters</i> , 2014, 41, 8021-8028.	4.0	11
66	History of Pore Pressure Build Up and Slope Instability in Mud-Dominated Sediments of Ursa Basin, Gulf of Mexico Continental Slope. , 2010, , 179-190.		11
67	Site U1519. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	11
68	Data report: strength characteristics of sediments from IODP Expedition 308, Sites U1322 and U1324. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	10
69	Hydraulic and Poroelastic Rock Properties From Oscillating Pore Pressure Experiments. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 4473-4491.	3.4	9
70	Physical Properties of Mass Transport Complexes in the Ursa Region, Northern Gulf of Mexico (IODP) Tj ETQq0 0 0 rgBT /Overlock 10 Tf		
71	The influence of clay content on submarine slope failure: insights from laboratory experiments and numerical models. <i>Geological Society Special Publication</i> , 2020, 500, 301-309.	1.3	8
72	Recursive Failure Of The Gulf Of Mexico Continental Slope: Timing And Causes. , 2007, , 209-219.		8

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73	Site U1480. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	8
74	Data report: permeability of sediments from Sites C0011 and C0012, NanTroSEIZE Stage 2: subduction inputs. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	8
75	Investigating the Basal Shear Zone of the Submarine Tuaheni Landslide Complex, New Zealand: A Coreâ€Logâ€Seismic Integration Study. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	8
76	Microstructural Evolution of Porosity and Stress During the Formation of Brittle Shear Fractures: A Discrete Element Model Study. Journal of Geophysical Research: Solid Earth, 2018, 123, 2228-2245.	3.4	7
77	Data report: penetrometer measurements of in situ temperature and pressure, IODP Expedition 308. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	7
78	Injection of desalination brine into the saline part of the coastal aquifer; environmental and hydrological implications. Water Research, 2021, 207, 117820.	11.3	7
79	Integrated geophysical investigation for understanding agriculturally induced landslides in southern Peru. Environmental Earth Sciences, 2022, 81, .	2.7	7
80	The New Jersey margin: compaction and fluid flow. Journal of Geochemical Exploration, 2000, 69-70, 477-481.	3.2	6
81	Expedition 372A summary. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	6
82	Scaling of Thermodynamic and Transport Processes for Predicting Methane Hydrate Saturation in Marine Sediments Worldwide. , 2006, , .		5
83	Lateral Variations in Core, Log, and Seismic Attributes of a Mass Transport Complex in the Ursa Region, IODP Expedition 308, Northern Gulf of Mexico. , 2007, , .		5
84	Data report: clay mineral assemblages within and beneath the Tuaheni Landslide Complex, IODP Expedition 372A Site U1517, offshore New Zealand. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	5
85	Porosityâ€Permeability Relationships in Mudstone from Poreâ€Scale Fluid Flow Simulations using the Lattice Boltzmann Method. Water Resources Research, 2019, 55, 7060-7071.	4.2	4
86	Numerical Simulation of Oscillating Pore Pressure Experiments and Inversion for Permeability. Water Resources Research, 2020, 56, e2019WR025681.	4.2	4
87	Origin of Overpressure and Slope Failure in the Ursa Region, Northern Gulf of Mexico. , 2010, , 167-178.		4
88	Seismic waveform tomography with multicomponent data at a groundwater contamination site. , 2009, , .		4
89	Site U1481. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	4
90	A Review of Overpressure, Flow Focusing, and Slope Failure. , 2012, , 267-276.		3

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91	Assessing the sealing quality of submarine mass transport complexes and deposits. <i>Marine and Petroleum Geology</i> , 2022, 143, 105748.	3.3	3
92	Data Report: Compressibility, Permeability, and Grain Size of Shallow Sediments, Sites 1194 and 1198. , 0, , .		2
93	Expedition 372A methods. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	2
94	Late Miocene wood recovered in Bengalâ€“Nicobar submarine fan sediments by IODP Expedition 362. <i>Scientific Drilling</i> , 0, 27, 49-52.	0.6	2
95	Reply to comment by Chen et al. on â€œControls on the size and geometry of landslides: Insights from discrete element numerical simulationsâ€: <i>Geomorphology</i> , 2016, 253, 551-552.	2.6	1
96	Effects of stress on failure behaviour of shallow-marine muds from the northern Gulf of Mexico. <i>Geological Society Special Publication</i> , 2019, 477, 523-536.	1.3	1
97	Reply to Comments by N. Sultan on â€œSedimentation Controls on Methaneâ€Hydrate Dynamics Across Glacial/Interglacial Stages: An Example From International Ocean Discovery Program Site U1517, Hikurangi Marginâ€: <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009005.	2.5	1