

Brian L Polagye

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

732
citations

686830

13
h-index

552369

26
g-index

41
all docs

41
docs citations

41
times ranked

658
citing authors

#	ARTICLE	IF	CITATIONS
1	An economic analysis of bio-energy options using thinnings from overstocked forests. <i>Biomass and Bioenergy</i> , 2007, 31, 105-125.	2.9	100
2	Robust principal component analysis for modal decomposition of corrupt fluid flows. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	71
3	A vessel noise budget for Admiralty Inlet, Puget Sound, Washington (USA). <i>Journal of the Acoustical Society of America</i> , 2012, 132, 3706-3719.	0.5	59
4	An experimental assessment of analytical blockage corrections for turbines. <i>Renewable Energy</i> , 2020, 152, 1328-1341.	4.3	44
5	Intracycle angular velocity control of cross-flow turbines. <i>Nature Energy</i> , 2017, 2, .	19.8	42
6	Flow-noise and turbulence in two tidal channels. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 1764-1774.	0.5	40
7	Noise correction of turbulent spectra obtained from acoustic doppler velocimeters. <i>Flow Measurement and Instrumentation</i> , 2014, 37, 29-41.	1.0	33
8	Far-field dynamics of tidal energy extraction in channel networks. <i>Renewable Energy</i> , 2011, 36, 222-234.	4.3	32
9	Sediment-generated noise and bed stress in a tidal channel. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 2249-2265.	1.0	30
10	Method for identification of Doppler noise levels in turbulent flow measurements dedicated to tidal energy. <i>International Journal of Marine Energy</i> , 2013, 3-4, 52-64.	1.8	23
11	Resource Mapping at Tidal Energy Sites. <i>IEEE Journal of Oceanic Engineering</i> , 2013, 38, 433-446.	2.1	21
12	Demonstration of Biofouling Mitigation Methods for Long-Term Deployments of Optical Cameras. <i>Marine Technology Society Journal</i> , 2015, 49, 88-96.	0.3	17
13	Impact of blade mounting structures on cross-flow turbine performance. <i>Journal of Renewable and Sustainable Energy</i> , 2018, 10, 034504.	0.8	17
14	Adaptable Monitoring Package Development and Deployment: Lessons Learned for Integrated Instrumentation at Marine Energy Sites. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 553.	1.2	14
15	Automatic Classification of Biological Targets in a Tidal Channel Using a Multibeam Sonar. <i>Journal of Atmospheric and Oceanic Technology</i> , 2020, 37, 1437-1455.	0.5	14
16	Benchmarking sensor fusion capabilities of an integrated instrumentation package. <i>International Journal of Marine Energy</i> , 2017, 20, 64-79.	1.8	12
17	Effect of aspect ratio on cross-flow turbine performance. <i>Journal of Renewable and Sustainable Energy</i> , 2020, 12, .	0.8	12
18	Comparison of cross-flow turbine performance under torque-regulated and speed-regulated control. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, 044501.	0.8	11

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19	Power-tracking control for cross-flow turbines. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, .	0.8	11
20	Simulations of Intracycle Angular Velocity Control for a Crossflow Turbine. <i>AIAA Journal</i> , 2021, 59, 812-824.	1.5	11
21	Performance characterization of a cross-flow hydrokinetic turbine in sheared inflow. <i>International Journal of Marine Energy</i> , 2016, 16, 150-161.	1.8	9
22	Multi-mode evaluation of power-maximizing cross-flow turbine controllers. <i>International Journal of Marine Energy</i> , 2017, 20, 80-96.	1.8	9
23	Predicting Deep Water Intrusions to Puget Sound, WA (USA), and the Seasonal Modulation of Dissolved Oxygen. <i>Estuaries and Coasts</i> , 2018, 41, 114-127.	1.0	9
24	Hydrodynamics of an asymmetric heave plate for a point absorber wave energy converter. <i>Ocean Engineering</i> , 2020, 215, 107915.	1.9	9
25	An experimental evaluation of blockage effects on the wake of a cross-flow current turbine. <i>Journal of Ocean Engineering and Marine Energy</i> , 2020, 6, 263-275.	0.9	9
26	Detection and classification capabilities of two multibeam sonars. <i>Limnology and Oceanography: Methods</i> , 2020, 18, 673-680.	1.0	9
27	Implications of biofouling on cross-flow turbine performance. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	9
28	Geometric and control optimization of a two cross-flow turbine array. <i>Journal of Renewable and Sustainable Energy</i> , 2020, 12, .	0.8	8
29	Field performance assessment of a hydrokinetic turbine. <i>International Journal of Marine Energy</i> , 2016, 14, 125-142.	1.8	7
30	Near-wake dynamics of a vertical-axis turbine. <i>Journal of Fluid Mechanics</i> , 2022, 935, .	1.4	7
31	Acoustic characterization of sensors used for marine environmental monitoring. <i>Marine Pollution Bulletin</i> , 2019, 144, 205-215.	2.3	5
32	Experimental comparison of blade pitch and speed control strategies for horizontal-axis current turbines. <i>Journal of Ocean Engineering and Marine Energy</i> , 2021, 7, 83-96.	0.9	5
33	Cost-optimal wave-powered persistent oceanographic observation. <i>Renewable Energy</i> , 2022, 181, 504-521.	4.3	5
34	Clearing a Path to Commercialization of Marine Renewable Energy Technologies Through Public-Private Collaboration. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	4
35	Development of a stereo-optical camera system for monitoring tidal turbines. <i>Journal of Applied Remote Sensing</i> , 2014, 8, 1.	0.6	3
36	Comparative Evaluation of Volumetric Current Measurements in a Tidally Dominated Coastal Setting: A Virtual Field Experiment. <i>Journal of Atmospheric and Oceanic Technology</i> , 2020, 37, 533-552.	0.5	3

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37	Underwater Noise Measurements around a Tidal Turbine in a Busy Port Setting. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 632.	1.2	3
38	Design and implementation of a power smoothing system for cross-flow current turbines. <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	1
39	Influence of heave plate topology on reaction force. <i>Ocean Engineering</i> , 2021, 241, 110054.	1.9	1