

Brenden P Epps

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,096
citations

759233

12
h-index

580821

25
g-index

30
all docs

30
docs citations

30
times ranked

1092
citing authors

#	ARTICLE	IF	CITATIONS
1	Water Entry of Projectiles. Annual Review of Fluid Mechanics, 2014, 46, 355-378.	25.0	265
2	Hydrokinetic energy conversion: Technology, research, and outlook. Renewable and Sustainable Energy Reviews, 2016, 57, 1245-1259.	16.4	170
3	Unsteady forces on spheres during free-surface water entry. Journal of Fluid Mechanics, 2012, 704, 173-210.	3.4	112
4	Swimming performance of a biomimetic compliant fish-like robot. Experiments in Fluids, 2009, 47, 927-939.	2.4	89
5	On the utility death spiral and the impact of utility rate structures on the adoption of residential solar photovoltaics and energy storage. Applied Energy, 2017, 185, 627-641.	10.1	76
6	Review of Vortex Identification Methods. , 2017, , .		65
7	Impulse generated during unsteady maneuvering of swimming fish. Experiments in Fluids, 2007, 43, 691-700.	2.4	58
8	An error threshold criterion for singular value decomposition modes extracted from PIV data. Experiments in Fluids, 2010, 48, 355-367.	2.4	50
9	Cavitation of a submerged jet. Experiments in Fluids, 2013, 54, 1.	2.4	39
10	Singular value decomposition of noisy data: noise filtering. Experiments in Fluids, 2019, 60, 1.	2.4	26
11	Unified Rotor Lifting Line Theory. Journal of Ship Research, 2013, 57, 181-201.	1.1	24
12	Vortex Sheet Strength in the Sears, Küssner, Theodorsen, and Wagner Aerodynamics Problems. AIAA Journal, 2018, 56, 889-904.	2.6	15
13	Rheological properties of corn stover slurries during fermentation by Clostridium thermocellum. Biotechnology for Biofuels, 2018, 11, 246.	6.2	14
14	Discretization Requirements for Vortex Lattice Methods to Match Unsteady Aerodynamics Theory. AIAA Journal, 2018, 56, 2478-2483.	2.6	14
15	Unified Rotor Lifting Line Theory. Journal of Ship Research, 2013, 57, 181-201.	1.1	11
16	Singular value decomposition of noisy data: mode corruption. Experiments in Fluids, 2019, 60, 1.	2.4	9
17	A viscous vortex lattice method for analysis of cross-flow propellers and turbines. Renewable Energy, 2019, 143, 1035-1052.	8.9	8
18	Experimental Performance of a Novel Trochoidal Propeller. Journal of Ship Research, 2016, 60, 48-60.	1.1	7

#	ARTICLE	IF	CITATIONS
19	A Method for Propeller Blade Optimization and Cavitation Inception Mitigation. Journal of Ship Production and Design, 2015, 31, 88-99.	0.4	6
20	Experimental Performance of a Novel Trochoidal Propeller. Journal of Ship Research, 2016, 60, 48-60.	1.1	6
21	On the Interfoil Spacing and Phase Lag of Tandem Flapping Foil Propulsors. Journal of Ship Production and Design, 2017, 33, 276-282.	0.4	6
22	On the Rotor Lifting Line Wake Model. Journal of Ship Production and Design, 2017, 33, 31-45.	0.4	5
23	Variational optimization of hydrokinetic turbines and propellers operating in a non-uniform flow field. Ocean Engineering, 2017, 135, 207-220.	4.3	4
24	A dynamic stall model for analysis of cross-flow turbines using discrete vortex methods. Renewable Energy, 2019, 130, 1130-1145.	8.9	4
25	Design and Analysis of Trochoidal Propulsors Using Nonlinear Programming Optimization Techniques. , 2014, , .		3
26	Singularity Methods for Modeling Airfoil Flows with Dynamic Stall and Fast Flap Deflections. , 2017, , .		3
27	A Method for Propeller Blade Optimization and Cavitation Inception Mitigation. Journal of Ship Production and Design, 2015, 31, 88-98.	0.4	3
28	Next-Generation Hydrokinetic Power Take-Off via a Novel Variable-Stroke Hydraulic System. , 2014, , .		2
29	A Quasi-Continuous Vortex Lattice Method for Unsteady Aerodynamics Analysis. , 2018, , .		1
30	On the Rotor Lifting Line Wake Model. Journal of Ship Production and Design, 2017, 33, 31-45.	0.4	1