

Paul A Brandner

List of Publications by Year in descending order

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51
papers

1,014
citations

394286

19
h-index

454834

30
g-index

51
all docs

51
docs citations

51
times ranked

556
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of fluid-structure interaction on cloud cavitation about a rigid and a flexible hydrofoil. Part 3. Journal of Fluid Mechanics, 2022, 934, .	1.4	7
2	Static Calibration and Dynamic Behaviour of a Six-Component Force Balance for Variable Pressure Water Tunnel Facilities. Experimental Techniques, 2021, 45, 157-167.	0.9	1
3	Steady and unsteady loading on a hydrofoil immersed in a turbulent boundary layer. Journal of Fluids and Structures, 2021, 102, 103225.	1.5	0
4	Nucleation and cavitation number effects on tip vortex cavitation dynamics and noise. Experiments in Fluids, 2021, 62, 1.	1.1	11
5	Hydrodynamic response of a passive shape-adaptive composite hydrofoil. Marine Structures, 2021, 80, 103084.	1.6	9
6	The influence of fluid-structure interaction on cloud cavitation about a stiff hydrofoil. Part 1.. Journal of Fluid Mechanics, 2020, 896, .	1.4	40
7	Statistical aspects of tip vortex cavitation inception and desinence in a nuclei depleted flow. Experiments in Fluids, 2020, 61, 1.	1.1	7
8	The influence of fluid-structure interaction on cloud cavitation about a flexible hydrofoil. Part 2.. Journal of Fluid Mechanics, 2020, 897, .	1.4	35
9	Calibration of Mie scattering imaging for microbubble measurement in hydrodynamic test facilities. Experiments in Fluids, 2020, 61, 1.	1.1	10
10	Measurement of nuclei seeding in hydrodynamic test facilities. Experiments in Fluids, 2020, 61, 1.	1.1	14
11	Natural nuclei population dynamics in cavitation tunnels. Experiments in Fluids, 2020, 61, 1.	1.1	19
12	Control of Cloud Cavitation through Microbubbles. , 2020, , .		1
13	On the unsteady behaviour of cavity flow over a two-dimensional wall-mounted fence. Journal of Fluid Mechanics, 2019, 874, 483-525.	1.4	22
14	Cloud Cavitation Behavior on a Hydrofoil Due to Fluid-Structure Interaction. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, .	0.8	20
15	Experimental investigation of a hydrofoil designed via hydrostructural optimization. Journal of Fluids and Structures, 2019, 84, 243-262.	1.5	38
16	Effect of residual air bubbles on diesel spray structure at the start of injection. Fuel, 2019, 241, 25-32.	3.4	8
17	Modelling thermal effects in cavitating high-pressure diesel sprays using an improved compressible multiphase approach. Fuel, 2018, 222, 125-145.	3.4	27
18	Background nuclei measurements and implications for cavitation inception in hydrodynamic test facilities. Experiments in Fluids, 2018, 59, 1.	1.1	22

#	ARTICLE	IF	CITATIONS
19	Load-dependent bend-twist coupling effects on the steady-state hydroelastic response of composite hydrofoils. <i>Composite Structures</i> , 2018, 189, 398-418.	3.1	44
20	An experimental study of cavity flow over a 2-D wall-mounted fence in a variable boundary layer. <i>International Journal of Multiphase Flow</i> , 2018, 105, 234-249.	1.6	11
21	Wavelet analysis techniques in cavitating flows. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170242.	1.6	9
22	END OF INJECTION PROCESS IN A SINGLE-HOLE DIESEL INJECTOR. <i>Atomization and Sprays</i> , 2018, 28, 23-45.	0.3	2
23	Development of a compressible multiphase cavitation approach for diesel spray modelling. <i>Applied Mathematical Modelling</i> , 2017, 45, 705-727.	2.2	50
24	A parallel volume of fluid-Lagrangian Parcel Tracking coupling procedure for diesel spray modelling. <i>Computers and Fluids</i> , 2017, 150, 46-65.	1.3	18
25	Spectral content of cloud cavitation about a sphere. <i>Journal of Fluid Mechanics</i> , 2017, 812, .	1.4	24
26	Numerical analysis of ventilated cavity flow over a 2-D wall mounted fence. <i>Ocean Engineering</i> , 2017, 141, 143-153.	1.9	8
27	Experimental study of ventilated cavity flow over a 3-D wall-mounted fence. <i>International Journal of Multiphase Flow</i> , 2017, 97, 10-22.	1.6	15
28	Analysis of diesel spray dynamics using a compressible Eulerian/VOF/LES model and microscopic shadowgraphy. <i>Fuel</i> , 2017, 188, 352-366.	3.4	60
29	Rapid Reserve Generation from a Francis Turbine for System Frequency Control. <i>Energies</i> , 2017, 10, 496.	1.6	9
30	Artificial thickening and thinning of cavitation tunnel boundary layers. <i>Experimental Thermal and Fluid Science</i> , 2016, 78, 75-89.	1.5	8
31	Physics Based Hydraulic Turbine Model for System Dynamics Studies. <i>IEEE Transactions on Power Systems</i> , 2016, , 1-1.	4.6	9
32	Numerical and experimental investigation of early stage diesel sprays. <i>Fuel</i> , 2016, 175, 274-286.	3.4	50
33	Structural and Acoustic Responses of a Fluid Loaded Shell Due to Propeller Forces. <i>Lecture Notes in Mechanical Engineering</i> , 2016, , 95-100.	0.3	0
34	Cavitation about a jet in crossflow. <i>Journal of Fluid Mechanics</i> , 2015, 768, 141-174.	1.4	19
35	Cavitation due to an impacting sphere. <i>Journal of Physics: Conference Series</i> , 2015, 656, 012014.	0.3	1
36	Bubble breakup in a turbulent shear layer. <i>Journal of Physics: Conference Series</i> , 2015, 656, 012015.	0.3	2

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37	Ventilated cavity flow over a backward-facing step. Journal of Physics: Conference Series, 2015, 656, 012164.	0.3	6
38	Numerical analysis of base-ventilated intercepted supercavitating hydrofoil sections. Ocean Engineering, 2015, 104, 63-76.	1.9	4
39	Numerical analysis of basic base-ventilated supercavitating hydrofoil sections. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2015, 229, 291-302.	0.3	3
40	Design and performance evaluation of a pump-as-turbine micro-hydro test facility with incorporated inlet flow control. Renewable Energy, 2015, 78, 1-6.	4.3	63
41	The pressure field generated by a seismic airgun. Experimental Thermal and Fluid Science, 2014, 55, 239-249.	1.5	25
42	Bubble dynamics of a seismic airgun. Experimental Thermal and Fluid Science, 2014, 55, 228-238.	1.5	40
43	Experimental study of the steady fluid-structure interaction of flexible hydrofoils. Journal of Fluids and Structures, 2014, 51, 326-343.	1.5	79
44	Inviscid cavity flow over a wall-mounted fence. Ocean Engineering, 2014, 80, 13-24.	1.9	7
45	Modelling of seismic airgun bubble dynamics and pressure field using the Gilmore equation with additional damping factors. Ocean Engineering, 2014, 76, 32-39.	1.9	50
46	MEASUREMENTS OF DIESEL SPRAY DYNAMICS AND THE INFLUENCE OF FUEL VISCOSITY USING PIV AND SHADOWGRAPHY. Atomization and Sprays, 2011, 21, 167-178.	0.3	19
47	An experimental investigation of cloud cavitation about a sphere. Journal of Fluid Mechanics, 2010, 656, 147-176.	1.4	63
48	Breaking wave prediction with boundary elements and finite volumes for use with small boat capsized studies: Convergence and resource requirements. Ocean Engineering, 2010, 37, 464-472.	1.9	1
49	Dynamic interaction of breaking waves and inverted sailing yachts: Explaining the efficacy of mast height retention relative to vertical centre of gravity. Ocean Engineering, 2008, 35, 1759-1768.	1.9	3
50	The Influence of Viscous Effects and Physical Scale on Cavitation Tunnel Contraction Performance. Journal of Fluids Engineering, Transactions of the ASME, 2008, 130, .	0.8	2
51	Hydrodynamic performance of a vortex generator. Experimental Thermal and Fluid Science, 2003, 27, 573-582.	1.5	19