

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	Experimental study of the steady fluid-structure interaction of flexible hydrofoils. <i>Journal of Fluids and Structures</i> , 2014, 51, 326-343.	1.5	79
2	An experimental investigation of cloud cavitation about a sphere. <i>Journal of Fluid Mechanics</i> , 2010, 656, 147-176.	1.4	63
3	Design and performance evaluation of a pump-as-turbine micro-hydro test facility with incorporated inlet flow control. <i>Renewable Energy</i> , 2015, 78, 1-6.	4.3	63
4	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
5	Modelling of seismic airgun bubble dynamics and pressure field using the Gilmore equation with additional damping factors. <i>Ocean Engineering</i> , 2014, 76, 32-39.	1.9	50
6	Numerical and experimental investigation of early stage diesel sprays. <i>Fuel</i> , 2016, 175, 274-286.	3.4	50
7	Development of a compressible multiphase cavitation approach for diesel spray modelling. <i>Applied Mathematical Modelling</i> , 2017, 45, 705-727.	2.2	50
8	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
9	Bubble dynamics of a seismic airgun. <i>Experimental Thermal and Fluid Science</i> , 2014, 55, 228-238.	1.5	40
10	The influence of fluid-structure interaction on cloud cavitation about a stiff hydrofoil. Part 1.. <i>Journal of Fluid Mechanics</i> , 2020, 896, .	1.4	40
11	Experimental investigation of a hydrofoil designed via hydrostructural optimization. <i>Journal of Fluids and Structures</i> , 2019, 84, 243-262.	1.5	38
12	The influence of fluid-structure interaction on cloud cavitation about a flexible hydrofoil. Part 2.. <i>Journal of Fluid Mechanics</i> , 2020, 897, .	1.4	35
13	Modelling thermal effects in cavitating high-pressure diesel sprays using an improved compressible multiphase approach. <i>Fuel</i> , 2018, 222, 125-145.	3.4	27
14	The pressure field generated by a seismic airgun. <i>Experimental Thermal and Fluid Science</i> , 2014, 55, 239-249.	1.5	25
15	Spectral content of cloud cavitation about a sphere. <i>Journal of Fluid Mechanics</i> , 2017, 812, .	1.4	24
16	Background nuclei measurements and implications for cavitation inception in hydrodynamic test facilities. <i>Experiments in Fluids</i> , 2018, 59, 1.	1.1	22
17	On the unsteady behaviour of cavity flow over a two-dimensional wall-mounted fence. <i>Journal of Fluid Mechanics</i> , 2019, 874, 483-525.	1.4	22
18	Cloud Cavitation Behavior on a Hydrofoil Due to Fluid-Structure Interaction. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2019, 141, .	0.8	20

#	ARTICLE	IF	CITATIONS
19	Hydrodynamic performance of a vortex generator. <i>Experimental Thermal and Fluid Science</i> , 2003, 27, 573-582.	1.5	19
20	MEASUREMENTS OF DIESEL SPRAY DYNAMICS AND THE INFLUENCE OF FUEL VISCOSITY USING PIV AND SHADOWGRAPHY. <i>Atomization and Sprays</i> , 2011, 21, 167-178.	0.3	19
21	Cavitation about a jet in crossflow. <i>Journal of Fluid Mechanics</i> , 2015, 768, 141-174.	1.4	19
22	Natural nuclei population dynamics in cavitation tunnels. <i>Experiments in Fluids</i> , 2020, 61, 1.	1.1	19
23	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
24	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
25	Measurement of nuclei seeding in hydrodynamic test facilities. <i>Experiments in Fluids</i> , 2020, 61, 1.	1.1	14
26	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
27	Nucleation and cavitation number effects on tip vortex cavitation dynamics and noise. <i>Experiments in Fluids</i> , 2021, 62, 1.	1.1	11
28	Calibration of Mie scattering imaging for microbubble measurement in hydrodynamic test facilities. <i>Experiments in Fluids</i> , 2020, 61, 1.	1.1	10
29	Physics Based Hydraulic Turbine Model for System Dynamics Studies. <i>IEEE Transactions on Power Systems</i> , 2016, , 1-1.	4.6	9
30	Rapid Reserve Generation from a Francis Turbine for System Frequency Control. <i>Energies</i> , 2017, 10, 496.	1.6	9
31	Wavelet analysis techniques in cavitating flows. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170242.	1.6	9
32	Hydrodynamic response of a passive shape-adaptive composite hydrofoil. <i>Marine Structures</i> , 2021, 80, 103084.	1.6	9
33	Artificial thickening and thinning of cavitation tunnel boundary layers. <i>Experimental Thermal and Fluid Science</i> , 2016, 78, 75-89.	1.5	8
34	Numerical analysis of ventilated cavity flow over a 2-D wall mounted fence. <i>Ocean Engineering</i> , 2017, 141, 143-153.	1.9	8
35	Effect of residual air bubbles on diesel spray structure at the start of injection. <i>Fuel</i> , 2019, 241, 25-32.	3.4	8
36	Inviscid cavity flow over a wall-mounted fence. <i>Ocean Engineering</i> , 2014, 80, 13-24.	1.9	7

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37	Statistical aspects of tip vortex cavitation inception and desinence in a nuclei deplete flow. Experiments in Fluids, 2020, 61, 1.	1.1	7
38	The influence of fluidâ€™structure interaction on cloud cavitation about a rigid and a flexible hydrofoil. Part 3. Journal of Fluid Mechanics, 2022, 934, .	1.4	7
39	Ventilated cavity flow over a backward-facing step. Journal of Physics: Conference Series, 2015, 656, 012164.	0.3	6
40	Numerical analysis of base-ventilated intercepted supercavitating hydrofoil sections. Ocean Engineering, 2015, 104, 63-76.	1.9	4
41	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
42	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
43	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
44	Bubble breakup in a turbulent shear layer. Journal of Physics: Conference Series, 2015, 656, 012015.	0.3	2
45	END OF INJECTION PROCESS IN A SINGLE-HOLE DIESEL INJECTOR. Atomization and Sprays, 2018, 28, 23-45.	0.3	2
46	Breaking wave prediction with boundary elements and finite volumes for use with small boat capsizes studies: Convergence and resource requirements. Ocean Engineering, 2010, 37, 464-472.	1.9	1
47	Cavitation due to an impacting sphere. Journal of Physics: Conference Series, 2015, 656, 012014.	0.3	1
48	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
49	Control of Cloud Cavitation through Microbubbles. , 2020, , .		1
50	Steady and unsteady loading on a hydrofoil immersed in a turbulent boundary layer. Journal of Fluids and Structures, 2021, 102, 103225.	1.5	0
51	Structural and Acoustic Responses of a Fluid Loaded Shell Due to Propeller Forces. Lecture Notes in Mechanical Engineering, 2016, , 95-100.	0.3	0