

Farhat Mohamed

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4685076/farhat-mohamed-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101
papers

2,945
citations

30
h-index

51
g-index

108
ext. papers

3,529
ext. citations

2.8
avg, IF

5.44
L-index

#	Paper	IF	Citations
101	Detection of cavitation in hydraulic turbines. <i>Mechanical Systems and Signal Processing</i> , 2006 , 20, 983-1007	7.8	227
100	Large eddy simulation of the tip-leakage cavitating flow with an insight on how cavitation influences vorticity and turbulence. <i>Applied Mathematical Modelling</i> , 2020 , 77, 788-809	4.5	140
99	Mind the gap: a new insight into the tip leakage vortex using stereo-PIV. <i>Experiments in Fluids</i> , 2014 , 55, 1	2.5	119
98	Effect of flow diverter porosity on intraaneurysmal blood flow. <i>Klinische Neuroradiologie</i> , 2009 , 19, 204-14		117
97	Scaling laws for jets of single cavitation bubbles. <i>Journal of Fluid Mechanics</i> , 2016 , 802, 263-293	3.7	104
96	Experimental Evidence of Rotating Stall in a Pump-Turbine at Off-Design Conditions in Generating Mode. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2011 , 133,	2.1	100
95	Cavitation bubble dynamics inside liquid drops in microgravity. <i>Physical Review Letters</i> , 2006 , 97, 094502	7.4	84
94	Numerical simulation of fluid added mass effect on a francis turbine runner. <i>Computers and Fluids</i> , 2007 , 36, 1106-1118	2.8	79
93	Simulation of bubble expansion and collapse in the vicinity of a free surface. <i>Physics of Fluids</i> , 2016 , 28, 052103	4.4	79
92	Cavitation Influence on von Kármán Vortex Shedding and Induced Hydrofoil Vibrations. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2007 , 129, 966-973	2.1	77
91	Shock waves from nonspherical cavitation bubbles. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	77
90	RANS and LES computations of the tip-leakage vortex for different gap widths. <i>Journal of Turbulence</i> , 2015 , 16, 309-341	2.1	71
89	Experimental investigation of added mass effects on a hydrofoil under cavitation conditions. <i>Journal of Fluids and Structures</i> , 2013 , 39, 173-187	3.1	66
88	Fluid-structure coupling for an oscillating hydrofoil. <i>Journal of Fluids and Structures</i> , 2010 , 26, 1018-1033	3.1	64
87	Universal scaling law for jets of collapsing bubbles. <i>Physical Review Letters</i> , 2011 , 107, 204501	7.4	63
86	Numerical simulation of a collapsing bubble subject to gravity. <i>Physics of Fluids</i> , 2016 , 28, 032110	4.4	58
85	Determination of a scale-up factor from mixing time studies in orbitally shaken bioreactors. <i>Biochemical Engineering Journal</i> , 2010 , 52, 181-186	4.2	57

84	One-Dimensional Analysis of Full Load Draft Tube Surge. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2008 , 130,	2.1	56
83	Cavitation in impacted drops and jets and the effect on erosion damage thresholds. <i>Wear</i> , 2012 , 290-291, 154-160	3.5	54
82	Flow in a Pelton Turbine Bucket: Numerical and Experimental Investigations. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2006 , 128, 350-358	2.1	53
81	Particle imaging velocimetry evaluation of intracranial stents in sidewall aneurysm: hemodynamic transition related to the stent design. <i>PLoS ONE</i> , 2014 , 9, e113762	3.7	46
80	How oblique trailing edge of a hydrofoil reduces the vortex-induced vibration. <i>Journal of Fluids and Structures</i> , 2012 , 32, 78-89	3.1	45
79	Non-intrusive detection of rotating stall in pump-turbines. <i>Mechanical Systems and Signal Processing</i> , 2014 , 48, 162-173	7.8	44
78	Surface wave dynamics in orbital shaken cylindrical containers. <i>Physics of Fluids</i> , 2014 , 26, 052104	4.4	42
77	The quest for the most spherical bubble: experimental setup and data overview. <i>Experiments in Fluids</i> , 2013 , 54, 1	2.5	41
76	Effect of trailing edge shape on hydrodynamic damping for a hydrofoil. <i>Journal of Fluids and Structures</i> , 2014 , 51, 189-198	3.1	37
75	Radial Shock Wave Devices Generate Cavitation. <i>PLoS ONE</i> , 2015 , 10, e0140541	3.7	37
74	A new Euler-Lagrangian cavitation model for tip-vortex cavitation with the effect of non-condensable gas. <i>International Journal of Multiphase Flow</i> , 2021 , 134, 103441	3.6	37
73	RANS computations of a confined cavitating tip-leakage vortex. <i>European Journal of Mechanics, B/Fluids</i> , 2018 , 67, 198-210	2.4	33
72	Energy partition at the collapse of spherical cavitation bubbles. <i>Physical Review E</i> , 2012 , 86, 046315	2.4	29
71	Analytical approximations for the collapse of an empty spherical bubble. <i>Physical Review E</i> , 2012 , 85, 066303	2.4	29
70	Confined shocks inside isolated liquid volumes: A new path of erosion?. <i>Physics of Fluids</i> , 2011 , 23, 101702	4.4	28
69	Computational fluid dynamics with stents: quantitative comparison with particle image velocimetry for three commercial off the shelf intracranial stents. <i>Journal of NeuroInterventional Surgery</i> , 2016 , 8, 309-15	7.8	26
68	Cavitation luminescence from flow over a hydrofoil in a cavitation tunnel. <i>Journal of Fluid Mechanics</i> , 2003 , 480, 43-60	3.7	26
67	Hemodynamic transition driven by stent porosity in sidewall aneurysms. <i>Journal of Biomechanics</i> , 2015 , 48, 1300-9	2.9	24

66	LES investigation of the influence of cavitation on flow patterns in a confined tip-leakage flow. <i>Ocean Engineering</i> , 2019 , 186, 106115	3.9	23
65	Cavitation erosion tests on a 2D hydrofoil using surface-mounted obstacles. <i>Wear</i> , 2003 , 254, 441-449	3.5	23
64	A review of cavitation in tip-leakage flow and its control. <i>Journal of Hydrodynamics</i> , 2021 , 33, 226-242	3.3	23
63	3D phase contrast MRI: Partial volume correction for robust blood flow quantification in small intracranial vessels. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 129-140	4.4	22
62	Multi-time-lag PIV analysis of steady and pulsatile flows in a sidewall aneurysm. <i>Experiments in Fluids</i> , 2014 , 55, 1	2.5	22
61	Evidence for hydrogen generation in laser- or spark-induced cavitation bubbles. <i>Applied Physics Letters</i> , 2013 , 102, 074105	3.4	22
60	Efficient and reproducible mammalian cell bioprocesses without probes and controllers?. <i>New Biotechnology</i> , 2011 , 28, 382-90	6.4	20
59	Numerical and experimental study of a nearby solid boundary and partial submergence effects on hydrofoil added mass. <i>Computers and Fluids</i> , 2014 , 91, 1-9	2.8	19
58	The Effects of a Tripped Turbulent Boundary Layer on Vortex Shedding from a Blunt Trailing Edge Hydrofoil. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2012 , 134,	2.1	19
57	Rebounds of deformed cavitation bubbles. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	19
56	Geometrical deployment for braided stent. <i>Medical Image Analysis</i> , 2016 , 30, 85-94	15.4	18
55	On the physical mechanism of tip vortex cavitation hysteresis. <i>Experiments in Fluids</i> , 2019 , 60, 1	2.5	18
54	High-speed flow visualization in a pump-turbine under off-design operating conditions. <i>IOP Conference Series: Earth and Environmental Science</i> , 2010 , 12, 012059	0.3	18
53	Cavitation bubble behavior inside a liquid jet. <i>Physics of Fluids</i> , 2007 , 19, 067106	4.4	18
52	Methodologies to assess blood flow in cerebral aneurysms: current state of research and perspectives. <i>Journal of Neuroradiology</i> , 2009 , 36, 270-7	3.1	17
51	Mind the gap - tip leakage vortex in axial turbines. <i>IOP Conference Series: Earth and Environmental Science</i> , 2014 , 22, 052023	0.3	16
50	Experimental Study and Numerical Simulation of Cavity Oscillation in a Conical Diffuser. <i>International Journal of Fluid Machinery and Systems</i> , 2010 , 3, 91-101	1.1	16
49	Cavitation induction by projectile impacting on a water jet. <i>International Journal of Multiphase Flow</i> , 2019 , 114, 128-139	3.6	15

48	Suppressing tip vortex cavitation by winglets. <i>Experiments in Fluids</i> , 2019 , 60, 1	2.5	15
47	Experimental Investigation of Flow Instabilities and Rotating Stall in a High-Energy Centrifugal Pump Stage 2009 ,		15
46	Detailed experiments on weakly deformed cavitation bubbles. <i>Experiments in Fluids</i> , 2019 , 60, 1	2.5	14
45	Dynamics and Intensity of Erosive Partial Cavitation. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2007 , 129, 886-893	2.1	13
44	Luminescence from hydrodynamic cavitation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011 , 467, 591-606	2.4	12
43	Experimental Study and Numerical Simulation of Cavity Oscillation in a Diffuser with Swirling Flow. <i>International Journal of Fluid Machinery and Systems</i> , 2010 , 3, 80-90	1.1	12
42	Virtual-versus-Real Implantation of Flow Diverters: Clinical Potential and Influence of Vascular Geometry. <i>American Journal of Neuroradiology</i> , 2016 , 37, 2079-2086	4.4	12
41	Obstacle-induced spiral vortex breakdown. <i>Experiments in Fluids</i> , 2014 , 55, 1	2.5	11
40	Techniques for generating centimetric drops in microgravity and application to cavitation studies. <i>Experiments in Fluids</i> , 2009 , 47, 39-48	2.5	11
39	Suppressing tip-leakage vortex cavitation by overhanging grooves. <i>Experiments in Fluids</i> , 2020 , 61, 1	2.5	10
38	Luminescence from cavitation bubbles deformed in uniform pressure gradients. <i>Physical Review E</i> , 2017 , 96, 033114	2.4	9
37	Hydrodynamic mechanisms of aggressive collapse events in leading edge cavitation. <i>Journal of Hydrodynamics</i> , 2020 , 32, 6-19	3.3	9
36	Neurovascular stent artifacts in 3D-TOF and 3D-PCMRI: Influence of stent design on flow measurement. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 560-572	4.4	9
35	Cavitation Erosion Prediction on Francis Turbines-Part 1 Measurements on the Prototype 1996 , 534-543		9
34	Signal analysis of an actively generated cavitation bubble in pressurized pipes for detection of wall stiffness drops. <i>Journal of Fluids and Structures</i> , 2016 , 65, 60-75	3.1	8
33	Comminution limit (CL) of particles and possible implications for pumped storage reservoirs. <i>Journal of Materials Science</i> , 2014 , 49, 3780-3784	4.3	8
32	Analysis of the dynamic response of pump-turbine runners-Part I: Experiment. <i>IOP Conference Series: Earth and Environmental Science</i> , 2012 , 15, 052015	0.3	8
31	Experimental mode shape determination of a cantilevered hydrofoil under different flow conditions. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2016 , 230, 3408-3419	1.3	7

30	How Flow Reduction Influences the Intracranial Aneurysm Occlusion: A Prospective 4D Phase-Contrast MRI Study. <i>American Journal of Neuroradiology</i> , 2019 , 40, 2117-2123	4.4	7
29	Detailed Jet Dynamics in a Collapsing Bubble. <i>Journal of Physics: Conference Series</i> , 2015 , 656, 012038	0.3	7
28	Mitigating tip vortex cavitation by a flexible trailing thread. <i>Physics of Fluids</i> , 2019 , 31, 127103	4.4	7
27	Modal behavior of a reduced scale pump turbine impeller. Part II: Numerical simulation. <i>IOP Conference Series: Earth and Environmental Science</i> , 2010 , 12, 012117	0.3	6
26	Thermal shocks and magnetohydrodynamics in high power mercury jet targets. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2003 , 29, 1621-1627	2.9	6
25	Jetting from cavitation bubbles due to multiple shockwaves. <i>Applied Physics Letters</i> , 2018 , 113, 193703	3.4	6
24	Hysteresis phenomena in hydraulic measurement. <i>IOP Conference Series: Earth and Environmental Science</i> , 2012 , 15, 062048	0.3	5
23	Modal behavior of a reduced scale pump-turbine impeller. Part 1: Experiments. <i>IOP Conference Series: Earth and Environmental Science</i> , 2010 , 12, 012116	0.3	5
22	Hydrodynamics of a Pump-Turbine at Off-Design Operating Conditions: Numerical Simulation 2011 ,		4
21	Fluid-structure coupling in the guide vanes cascade of a pump-turbine scale model. <i>IOP Conference Series: Earth and Environmental Science</i> , 2010 , 12, 012074	0.3	4
20	The Leading Edge Cavitation Dynamics 2002 , 337		4
19	Dynamic calibration of transient sensors by spark generated cavity. <i>Fluid Mechanics and Its Applications</i> , 1994 , 227-240	0.2	4
18	The detection of cavitation in hydraulic machines by use of ultrasonic signal analysis. <i>IOP Conference Series: Earth and Environmental Science</i> , 2014 , 22, 052005	0.3	3
17	Rotor-Stator Interaction Induced Pressure Fluctuations: CFD and Hydroacoustic Simulations in the Stationary Components of a Multistage Centrifugal Pump 2007 , 963		3
16	High Speed Flow Visualisation of an Impinging Jet on a Pelton Turbine Bucket 2007 , 165		3
15	Pressions instationnaires g�n�es par une poche de cavitation partielle. <i>Houille Blanche</i> , 1992 , 78, 579-585	0.3	3
14	High-speed imaging of high pressures produced by cavitation bubbles 2019 ,		3
13	The detection of cavitation in hydraulic machines by use of ultrasonic signal analysis. <i>International Journal of Fluid Machinery and Systems</i> , 2015 , 8, 264-273	1.1	3

12	Review of parameters influencing the structural response of a submerged body under cavitation conditions. <i>Journal of Physics: Conference Series</i> , 2015 , 656, 012150	0.3	2
11	FLOW VISUALIZATION APPROACH FOR PERIODICALLY REVERSED FLOWS. <i>Journal of Flow Visualization and Image Processing</i> , 2012 , 19, 309-321	0.8	2
10	Advanced Instrumentation for Measuring Fluid-Structure Coupling Phenomena in the Guide Vanes Cascade of a Pump-Turbine Scale Model 2010 ,		2
9	Boundary layer effects on the vortex shedding in a Donaldson- type hydrofoil. <i>IOP Conference Series: Earth and Environmental Science</i> , 2014 , 22, 032045	0.3	1
8	Experimental Investigation of the Vortex Shedding in the Wake of Oblique and Blunt Trailing Edge Hydrofoils Using PIV-POD Method 2010 ,		1
7	On the numerical simulation of a confined cavitating tip leakage vortex under geometrical and operational uncertainties. <i>Computers and Fluids</i> , 2021 , 220, 104881	2.8	1
6	Effect of the winglet on reduction of blade tip vortex from elliptical hydrofoil. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 774, 012054	0.3	1
5	Observation of the Formation of Multiple Shock Waves at the Collapse of Cavitation Bubbles for Improvement of Energy Convergence. <i>Energies</i> , 2022 , 15, 2305	3.1	1
4	On the hysteresis of cavitation incipience and desinence in hydraulic machines. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 240, 062060	0.3	
3	Roll-up region of tip vortex: numerical investigation. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 240, 072027	0.3	
2	RANS computations of tip vortex cavitation. <i>Journal of Physics: Conference Series</i> , 2015 , 656, 012183	0.3	
1	Cavitation in Karman Vortex Shedding From 2D Hydrofoil: Wall Roughness Effects 2007 , 489		