Atef Mohany

List of Publications by Year in descending order

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97 papers	1,280 citations	304743 22 h-index	434195 31 g-index
120 all docs	120 docs citations	120 times ranked	711 citing authors

#	Article	IF	Citations
1	Applicability of the Equivalent Diameter Approach to Estimate Vortex Shedding Frequency and Acoustic Resonance Excitation From Different Finned Cylinders in Cross-Flow. Journal of Pressure Vessel Technology, Transactions of the ASME, 2022, 144, .	0.6	3
2	The Flow-Structure Couplings of Fluidelastic Instability and the Effect of Frequency Detuning in Triangular Tube Bundles Subjected to a Two-Phase Flow. Journal of Pressure Vessel Technology, Transactions of the ASME, 2022, 144, .	0.6	2
3	Flowâ€“acoustic coupling around rectangular rods of different aspect ratios and incidence angles. Experiments in Fluids, 2022, 63, 1.	2.4	1
4	Vortex dynamics of tandem bare and spiral finned cylinders in cross-flow and their susceptibility to acoustic resonance excitation. Physics of Fluids, 2022, 34, 045105.	4.0	4
5	Experimental investigation of low-frequency sound absorption characteristics of electro-spun Polyvinylpyrrolidone (PVP) membranes. Polymer, 2022, 245, 124704.	3.8	3
6	Estimation of temperature in machining with self-propelled rotary tools using finite element method. Journal of Manufacturing Processes, 2021, 61, 100-110.	5.9	17
7	A journey of wastewater to clean hydrogen: A perspective. International Journal of Energy Research, 2021, 45, 6475-6482.	4.5	3
8	Flow-Induced Acoustic Resonance of Finned Cylinders With Varying Fin Heights. Journal of Pressure Vessel Technology, Transactions of the ASME, 2021, 143, .	0.6	4
9	On machining hardened steel AISI 4140 with self-propelled rotary tools: experimental investigation and analysis. International Journal of Advanced Manufacturing Technology, 2021, 113, 3163-3176.	3.0	5
10	Control of the self-sustained shear layer oscillations over rectangular cavities using high-frequency vortex generators. Physics of Fluids, 2021, 33, 045115.	4.0	10
11	Development of efficient sonoreactor geometries for hydrogen production. International Journal of Hydrogen Energy, 2021, 46, 15219-15240.	7.1	8
12	10.1063/5.0048582.5. , 2021, , .		0
13	Modelling of fluidelastic instability in tube bundles under two-phase bubbly flow conditions. Journal of Fluids and Structures, 2021, 103, 103256.	3.4	4
14	Analytical modeling of metal cutting process with self-propelled rotary tools. CIRP Journal of Manufacturing Science and Technology, 2021, 33, 115-122.	4.5	5
15	Modelling of fully-flexible fuel bundles. Nuclear Engineering and Design, 2021, 378, 111014.	1.7	3
16	A review on the importance of operating conditions and process parameters in sonic hydrogen production. International Journal of Hydrogen Energy, 2021, 46, 28418-28434.	7.1	11
17	Synchronous vortex shedding from aerodynamically isolated side-by-side cylinders imposed by flow-excited resonant acoustic modes. Experiments in Fluids, 2021, 62, 1.	2.4	4
18	The prediction of fluidelastic forces in triangular tube bundles subjected to a two-phase flow: The effect of the flow approach angle. Journal of Fluids and Structures, 2021, 106, 103386.	3.4	1

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19	Sustainability assessment of difficult-to-cut materials using rotary tools: a step towards sustainable machining environment. Procedia Manufacturing, 2021, 53, 92-98.	1.9	5
20	Parametric Investigation of the Flow-Sound Interaction Mechanism for Single Cylinders in Cross-Flow. Journal of Pressure Vessel Technology, Transactions of the ASME, 2021, 143, .	0.6	9
21	Vorticity Shedding and Acoustic Resonance Excitation of Two Tandem Spirally Finned Cylinders in Cross-Flow. Journal of Pressure Vessel Technology, Transactions of the ASME, 2021, 143, .	0.6	4
22	Analysis and Optimization of Machining Hardened Steel AISI 4140 with Self-Propelled Rotary Tools. Materials, 2021, 14, 6106.	2.9	4
23	Investigation of self-induced thermoacoustic instabilities in gas turbine combustors. Energy, 2020, 190, 116362.	8.8	16
24	Simulation of motion-dependent fluid forces in fuel bundles. Nuclear Engineering and Design, 2020, 356, 110373.	1.7	4
25	Evaluation of electro-spun polymeric nanofibers for sound absorption applications. , 2020, , .		6
26	Numerical simulation of streamwise fluidelastic instability of tube bundles subjected to two-phase cross flow. Journal of Fluids and Structures, 2020, 92, 102816.	3.4	10
27	Effect of the flow approach angle on the dynamics of loosely-supported tube arrays. Nuclear Engineering and Design, 2020, 368, 110802.	1.7	9
28	A unique study on the effect of dissolved gases and bubble temperatures on the ultrasonic hydrogen (sonohydrogen) production. International Journal of Hydrogen Energy, 2020, 45, 20808-20819.	7.1	17
29	On the three-dimensional flow development around circular finned cylinders. Physics of Fluids, 2020, 32, 115116.	4.0	12
30	Vortex dynamics and acoustic sources in the wake of finned cylinders during resonance excitation. Physics of Fluids, 2020, 32, 075117.	4.0	13
31	The role of co 2 in improving sonic hydrogen production. International Journal of Energy Research, 2020, 44, 9804-9807.	4.5	2
32	Flow dynamics and azimuthal behavior of the self-excited acoustic modes in axisymmetric shallow cavities. Physics of Fluids, 2020, 32, 115109.	4.0	15
33	An investigation of ultrasonic based hydrogen production. Energy, 2020, 205, 118006.	8.8	23
34	Effect of Incident Acoustic Pressure Amplitude on the Transmission Loss of Helmholtz Resonators. Vibration, 2020, 3, 34-41.	1.9	0
35	Vortex shedding characteristics in the wake of circular finned cylinders. Physics of Fluids, 2020, 32, .	4.0	29
36	Experimental study of the self-excited resonance effect on the dynamic lift and flow structure around inline cylinders. Journal of Fluids and Structures, 2020, 96, 103015.	3.4	13

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37	Investigation of acoustic and geometric effects on the sonoreactor performance. Ultrasonics Sonochemistry, 2020, 68, 105174.	8.2	27
38	Experimental Study on Damping Acoustic Pressure Pulsations in Pipeline Systems Using Helmholtz Resonators. Journal of Pressure Vessel Technology, Transactions of the ASME, 2020, 142, .	0.6	5
39	10.1063/5.0026552.4. , 2020, , .		0
40	A model for machining with nano-additives based minimum quantity lubrication. International Journal of Advanced Manufacturing Technology, 2019, 102, 2013-2028.	3.0	46
41	The Sono-Hydro-Gen process (Ultrasound induced hydrogen production): Challenges and opportunities. International Journal of Hydrogen Energy, 2019, 44, 14500-14526.	7.1	51
42	Phase-resolved PIV measurements of flow over three unevenly spaced cylinders and its coupling with acoustic resonance. Experiments in Fluids, 2019, 60, 1.	2.4	20
43	Analysis and assessment of cascaded closed loop type organic Rankine cycle. Energy Conversion and Management, 2019, 184, 416-426.	9.2	24
44	Wake structures and acoustic resonance excitation of a single finned cylinder in cross-flow. Journal of Fluids and Structures, 2019, 86, 70-93.	3.4	23
45	Passive damping of pressure pulsations in pipelines using Herschel-Quincke tubes. Journal of Sound and Vibration, 2019, 448, 160-177.	3.9	21
46	A passive damping device for suppressing acoustic pressure pulsations: The infinity tube. Journal of the Acoustical Society of America, 2019, 146, 4534-4544.	1.1	9
47	Passive noise control technique for suppressing acoustic resonance excitation of spirally finned cylinders in cross-flow. Experimental Thermal and Fluid Science, 2019, 102, 38-51.	2.7	12
48	Sonication to hydrogenization: Sono-hydro-gen. International Journal of Energy Research, 2019, 43, 1045-1048.	4.5	14
49	Characteristics of Acoustic Resonance Excitation by Flow Around Inline Cylinders. Journal of Pressure Vessel Technology, Transactions of the ASME, 2019, 141, .	0.6	12
50	Phase-Locked PIV Measurements of Vortex Shedding Characteristics Downstream of Straight Circular Finned Cylinders During Acoustic Resonance. , 2019, , .		1
51	Effect of Flow Approach Angle on Acoustic Resonance Excitation of In-Line Tube Bundles in Cross-Flow. , 2019, , .		0
52	Simulations of Fully-Flexible Fuel Bundle Response due to Turbulence Excitation. , 2019, , .		0
53	Numerical investigation of the cross flow fluidelastic forces of two-phase flow in tube bundle. Journal of Fluids and Structures, 2018, 79, 171-186.	3.4	27
54	Modeling and optimization of electrospinning of polyvinyl alcohol (PVA). Advances in Polymer Technology, 2018, 37, 2114-2122.	1.7	29

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55	Flow-induced vibration of three unevenly spaced in-line cylinders in cross-flow. Journal of Fluids and Structures, 2018, 76, 367-383.	3.4	38
56	Near-Wake Characteristics and Acoustic Resonance Excitation of Crimped Spirally Finned Cylinders in Cross-Flow. Journal of Pressure Vessel Technology, Transactions of the ASME, 2018, 140, .	0.6	23
57	Application of acoustic emissions in machining processes: analysis and critical review. International Journal of Advanced Manufacturing Technology, 2018, 98, 1391-1407.	3.0	74
58	An Experimental Investigation of the Dynamics of a Loosely Supported Tube Array. , 2017, , .		1
59	Flow-Excited Acoustic Resonance of Isolated Cylinders in Cross-Flow. Journal of Pressure Vessel Technology, Transactions of the ASME, 2016, 138, .	0.6	21
60	The effect of upstream edge geometry on the acoustic resonance excitation in shallow rectangular cavities. International Journal of Aeroacoustics, 2016, 15, 253-275.	1.3	14
61	Effect of impingement edge geometry on the acoustic resonance excitation and Strouhal numbers in a ducted shallow cavity. Wind and Structures, an International Journal, 2016, 23, 91-107.	0.8	7
62	Simulations of fluidelastic forces and fretting wear in U-bend tube bundles of steam generators: Effect of tube-support conditions. Wind and Structures, an International Journal, 2016, 23, 157-169.	0.8	17
63	Suppression of Acoustic Resonance in Rectangular Cavities Using Spanwise Control Cylinder. , 2015, , .		1
64	Parametric Investigation of the Flow-Excited Acoustic Resonance From Multiple In-Line Cylinders in Cross-Flow. , 2015, , .		2
65	Numerical and experimental characterisation of the dynamic behaviour of a passenger aircraft seat during a takeoff condition. International Journal of Heavy Vehicle Systems, 2015, 22, 21.	0.2	0
66	Assessment of the whole body vibration exposure and the dynamic seat comfort in passenger aircraft. International Journal of Industrial Ergonomics, 2015, 45, 116-123.	2.6	57
67	Aeroacoustic Response of a Single Cylinder With Straight Circular Fins in Cross-Flow. Journal of Pressure Vessel Technology, Transactions of the ASME, 2015, 137, .	0.6	16
68	Passive control of flow-excited acoustic resonance in rectangular cavities using upstream mounted blocks. Experiments in Fluids, 2015, 56, 1.	2.4	21
69	Development of a semi-autonomous directional and spectroscopic radiation detection mobile platform. Radiation Measurements, 2015, 72, 53-59.	1.4	26
70	Nuclear Power Plants Safety and Maintenance. Science and Technology of Nuclear Installations, 2014, 2014, 1-1.	0.8	0
71	Model Predictive Control of Vibration in a Two Flexible Link Manipulator â€" Part I. Journal of Low Frequency Noise Vibration and Active Control, 2014, 33, 455-468.	2.9	7
72	Model Predictive Control of Vibration in a Two Flexible Link Manipulator â€" Part 2. Journal of Low Frequency Noise Vibration and Active Control, 2014, 33, 469-483.	2.9	4

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73	On the Flow-Excited Acoustic Resonance of Isolated Cylinder(s) in Cross-Flow. , 2014, , .		0
74	The Effect of Upstream Edge Geometry on the Acoustic Resonance Excitation in Shallow Rectangular Cavities. , 2014, , .		0
75	Flow-Excited Acoustic Resonance of Single Finned Cylinder in Cross-Flow. , 2014, , .		0
76	Modelling of fluidelastic instability in a square inline tube array including the boundary layer effect. Journal of Fluids and Structures, 2014, 48, 362-375.	3.4	22
77	Numerical and experimental investigation of flow-acoustic resonance of side-by-side cylinders in a duct. Journal of Fluids and Structures, 2014, 48, 316-331.	3.4	34
78	Numerical Characterization of the Area Perturbation and Timelag for a Vibrating Tube Subjected to Cross-Flow. , 2014, , .		3
79	Modelling of fuel bundle vibration and the associated fretting wear in a CANDU fuel channel. Nuclear Engineering and Design, 2013, 264, 214-222.	1.7	25
80	Numerical and Experimental Investigation of Flow-Acoustic Resonance of Side-by-Side Cylinders in a Duct. , 2013, , .		2
81	Fluidelastic Instability Modeling of Loosely Supported Multispan U-Tubes in Nuclear Steam Generators. Journal of Pressure Vessel Technology, Transactions of the ASME, 2013, 135, .	0.6	21
82	Experimental and Numerical Characterization of Flow-Induced Vibration of Multispan U-tubes. Journal of Pressure Vessel Technology, Transactions of the ASME, 2012, 134, .	0.6	19
83	Self-Excited Acoustic Resonance of Isolated Cylinders in Cross-Flow. AECL Nuclear Review, 2012, 1, 45-55.	0.1	12
84	Developments and Recent Patents on Thermoacoustic Devices. Recent Patents on Mechanical Engineering, 2012, 5, 79-88.	0.3	2
85	Numerical Simulation of the Flow-Sound Interaction Mechanisms of Two Side-by-Side Cylinders in Cross-Flow. , 2011, , .		2
86	A Numerical Characterization of Flow-Induced Vibration and Fretting Wear Potential in Nuclear Steam Generator Tube Bundles. , 2011, , .		1
87	Measurements of the dynamic lift force acting on a circular cylinder in cross-flow and exposed to acoustic resonance. Journal of Fluids and Structures, 2011, 27, 1149-1164.	3.4	25
88	Experimental and Numerical Characterization of Flow-Induced Vibration of Multi-Span U-Tubes. , 2010, , .		0
89	Numerical Simulation of the Flow-Sound Interaction Mechanisms of a Single and Two-Tandem Cylinders in Cross-Flow. Journal of Pressure Vessel Technology, Transactions of the ASME, 2009, 131, .	0.6	35
90	Flow-excited acoustic resonance of two side-by-side cylinders in cross-flow. Journal of Fluids and Structures, 2009, 25, 80-94.	3.4	29

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91	Effect of acoustic resonance on the dynamic lift forces acting on two tandem cylinders in cross-flow. Journal of Fluids and Structures, 2009, 25, 461-478.	3.4	27
92	Flow-Induced Vibration and Fretting-Wear Performance of CANDUâ„¢ Steam Generator U-Tubes: Instrumentation. , 2009, , .		2
93	A Parametric Study of the Resonance Mechanism of Two Tandem Cylinders in Cross-Flow. Journal of Pressure Vessel Technology, Transactions of the ASME, 2009, 131, .	0.6	22
94	A Parametric Study of the Resonance Mechanism of Two Tandem Cylinders in Cross-Flow. , 2006, , 63.		0
95	Flow Excited Acoustic Resonance of Two Side-by-Side Cylinders in Cross Flow. , 2006, , .		0
96	Effect of Acoustic Resonance on the Dynamic Lift Forces Acting on Two Tandem Cylinders in Cross-Flow. , 2006, , .		0
97	Flow-excited acoustic resonance of two tandem cylinders in cross-flow. Journal of Fluids and Structures, 2005, 21, 103-119.	3.4	66