

Robert J Martinuzzi

List of Publications by Year in descending order

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69
papers

1,996
citations

257450

24
h-index

243625

44
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72
all docs

72
docs citations

72
times ranked

1658
citing authors

#	ARTICLE	IF	CITATIONS
1	The Flow Around Surface-Mounted, Prismatic Obstacles Placed in a Fully Developed Channel Flow (Data Bank Contribution). <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1993, 115, 85-92.	1.5	437
2	Alternating half-loop shedding in the turbulent wake of a finite surface-mounted square cylinder with a thin boundary layer. <i>Physics of Fluids</i> , 2011, 23, .	4.0	114
3	Analysis of Fluid Flow and Wall Shear Stress Patterns Inside Partially Filled Agitated Culture Well Plates. <i>Annals of Biomedical Engineering</i> , 2012, 40, 707-728.	2.5	94
4	Large-scale structures in dipole and quadrupole wakes of a wall-mounted finite rectangular cylinder. <i>Experiments in Fluids</i> , 2013, 54, 1.	2.4	86
5	Influence of wall proximity on vortex shedding from a square cylinder. <i>Experiments in Fluids</i> , 2003, 34, 585-596.	2.4	78
6	Proper orthogonal decomposition analysis of a circular cylinder undergoing vortex-induced vibrations. <i>Physics of Fluids</i> , 2018, 30, .	4.0	76
7	On the vortex dynamics in the wake of a finite surface-mounted square cylinder. <i>Experiments in Fluids</i> , 2012, 52, 1149-1167.	2.4	70
8	Generalized phase average with applications to sensor-based flow estimation of the wall-mounted square cylinder wake. <i>Journal of Fluid Mechanics</i> , 2013, 736, 316-350.	3.4	68
9	Turbulent Flow Around Two Interfering Surface-Mounted Cubic Obstacles in Tandem Arrangement. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2000, 122, 24-31.	1.5	64
10	The effects of wall proximity on vortex shedding from a square cylinder: Three-dimensional effects. <i>Physics of Fluids</i> , 2002, 14, 4160-4177.	4.0	55
11	Vortex shedding from two surface-mounted cubes in tandem. <i>International Journal of Heat and Fluid Flow</i> , 2004, 25, 364-372.	2.4	55
12	Structure of <i>Proteus mirabilis</i> biofilms grown in artificial urine and standard laboratory media. <i>FEMS Microbiology Letters</i> , 2007, 268, 16-21.	1.8	52
13	Boundary layer effect on the vortex shedding of wall-mounted rectangular cylinder. <i>Experiments in Fluids</i> , 2015, 56, 1.	2.4	51
14	Increased tolerance of <i>Staphylococcus aureus</i> to vancomycin in viscous media. <i>FEMS Immunology and Medical Microbiology</i> , 2007, 51, 277-288.	2.7	41
15	Growth and separation of a start-up vortex from a two-dimensional shear layer. <i>Physics of Fluids</i> , 2012, 24, .	4.0	41
16	Machine learning strategies applied to the control of a fluidic pinball. <i>Physics of Fluids</i> , 2020, 32, .	4.0	41
17	Sensor-based estimation of the velocity in the wake of a low-aspect-ratio pyramid. <i>Experiments in Fluids</i> , 2015, 56, 1.	2.4	38
18	Study of the flow around surface-mounted pyramids. <i>Experiments in Fluids</i> , 2003, 34, 379-389.	2.4	33

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19	Characteristics of distinct flow regimes in the wake of an infinite span normal thin flat plate. <i>International Journal of Heat and Fluid Flow</i> , 2016, 62, 423-436.	2.4	33
20	Dynamics of the recirculating areas of a forward-facing step. <i>Experiments in Fluids</i> , 2018, 59, 1.	2.4	33
21	The influence of flow cell geometry related shear stresses on the distribution, structure and susceptibility of <i>Pseudomonas aeruginosa</i> biofilms. <i>Biofouling</i> , 2009, 25, 711-725.	2.2	31
22	Experimental investigation of the wall shear stress in a circular impinging jet. <i>Physics of Fluids</i> , 2013, 25, .	4.0	31
23	A two-step procedure for automatic and accurate segmentation of volumetric CLSM biofilm images. <i>Journal of Microbiological Methods</i> , 2007, 70, 424-433.	1.6	29
24	Low-frequency dynamics in the turbulent wake of cantilevered square and circular cylinders protruding a thin laminar boundary layer. <i>Experiments in Fluids</i> , 2018, 59, 1.	2.4	25
25	On simulating the flow past a normal thin flat plate. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018, 174, 170-187.	3.9	24
26	On the validity of the perturbation approach for the flow inside weakly modulated channels. <i>International Journal for Numerical Methods in Fluids</i> , 2002, 39, 1139-1159.	1.6	21
27	Modal energy flow analysis of a highly modulated wake behind a wall-mounted pyramid. <i>Journal of Fluid Mechanics</i> , 2016, 798, 717-750.	3.4	19
28	Vortex shedding from a square cylinder near a wall. <i>Journal of Turbulence</i> , 2002, 3, N3.	1.4	18
29	Suppression of fluctuating lift on a cylinder via evolutionary algorithms: Control with interfering small cylinder. <i>Physics of Fluids</i> , 2018, 30, 127104.	4.0	16
30	Vortical structures around a surface-mounted pyramid in a thin boundary layer. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2008, 96, 769-778.	3.9	14
31	Mean Flow Field of a Nonbuoyant Rectangular Surface Jet. <i>Journal of Hydraulic Engineering</i> , 2007, 133, 234-239.	1.5	13
32	Effect of side-edge vortices and secondary induced flow on the wake of normal thin flat plates. <i>International Journal of Heat and Fluid Flow</i> , 2016, 61, 197-212.	2.4	13
33	Investigation of the Performance of Turbulence Models With Respect to High Flow Curvature in Centrifugal Compressors. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2016, 138, .	1.5	13
34	Investigation of bluff body asymmetry on the properties of vortex shedding. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2008, 96, 1152-1163.	3.9	12
35	Dual vortex structure shedding from low aspect ratio, surface-mounted pyramids. <i>Journal of Turbulence</i> , 2008, 9, N28.	1.4	11
36	The turbulence structure of the wake of a thin flat plate at post-stall angles of attack. <i>Experiments in Fluids</i> , 2017, 58, 1.	2.4	11

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37	Tomographic PIV investigation of vortex shedding topology for a cantilevered circular cylinder. <i>Journal of Fluid Mechanics</i> , 2022, 931, .	3.4	11
38	Wake dynamics of a cantilevered circular cylinder of aspect ratio 4. <i>International Journal of Heat and Fluid Flow</i> , 2018, 72, 109-122.	2.4	10
39	Wake dynamics and surface pressure variations on two-dimensional normal flat plates. <i>AIP Advances</i> , 2019, 9, 045209.	1.3	9
40	Shedding of dual structures in the wake of a surface-mounted low aspect ratio cone. <i>Physics of Fluids</i> , 2018, 30, 045107.	4.0	8
41	Influence of control cylinder placement on vortex shedding from a circular cylinder. <i>Experiments in Fluids</i> , 2018, 59, 1.	2.4	8
42	Influence of obstacle aspect ratio on tripped cylinder wakes. <i>International Journal of Heat and Fluid Flow</i> , 2012, 35, 109-118.	2.4	7
43	Enhanced Delignification of Wheat Straw by the Combined Effect of Hydrothermal and Fungal Treatments. <i>Chemical Engineering Communications</i> , 2017, 204, 803-812.	2.6	7
44	Orthotropic hydraulic permeability of arrays of parallel cylinders. <i>Physical Review E</i> , 2017, 96, 033112.	2.1	6
45	Effect of thickness-to-chord ratio on the wake of two-dimensional rectangular cylinders. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	6
46	Towards robust data-driven reduced-order modelling for turbulent flows: application to vortex-induced vibrations. <i>Theoretical and Computational Fluid Dynamics</i> , 2022, 36, 517-543.	2.2	6
47	Evaluation of the Thermofluid Performance of an Automotive Engine Cooling-Fan System Motor. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2011, 225, 74-89.	1.9	5
48	Induction and suppression of <i>Dichomitus squalens</i> and <i>Ceriporiopsis subvermispora</i> peroxidase activity by manganese sulphate in response to carbon and nitrogen sources. <i>Canadian Journal of Chemical Engineering</i> , 2014, 92, 779-786.	1.7	5
49	Visualizing three-dimensional vortex shedding through evolution surface clusters. <i>Journal of Visualization</i> , 2020, 23, 17-34.	1.8	5
50	Visualizing vortex clusters in the wake of a high-speed train. , 2017, , .		4
51	Evolution Surfaces for Spatiotemporal Visualization of Vortex Features. <i>Canadian Journal of Electrical and Computer Engineering</i> , 2020, 43, 30-42.	2.0	4
52	Effect of area ratio and heat release method on the Ma \approx 2-6 operation performance of rocket-based combined cycle engine. <i>Aerospace Science and Technology</i> , 2022, 126, 107617.	4.8	4
53	Comparison of Far-Field Turbulent Structure of a Rectangular Surface Jet to Three-Dimensional Free and Wall Jets. <i>Journal of Engineering Mechanics - ASCE</i> , 2008, 134, 224-233.	2.9	3
54	Development of a new high-efficiency simple structure cyclone. <i>Canadian Journal of Chemical Engineering</i> , 2009, 87, 343-349.	1.7	3

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55	Quasi-Periodic Structure of Vortical Flows Produced in the Wake of Finite Bluff Bodies Partially Immersed in a Boundary Layer. , 2010, , .		3
56	Open and closed-loop control of a triangular bluff body using rotating cylinders. IFAC-PapersOnLine, 2017, 50, 12291-12295.	0.9	3
57	End effects of nominally two-dimensional thin flat plates. International Journal of Heat and Fluid Flow, 2020, 86, 108719.	2.4	3
58	Investigation of the influence of low-frequency forcing on the 3-D turbulent wake of a cantilevered triangular prism. Journal of Fluid Mechanics, 2021, 913, .	3.4	3
59	Ejector mode performance improvement of rocket-based combined cycle engine designed for dual-ramjet mode. Aerospace Science and Technology, 2022, 126, 107637.	4.8	3
60	An Exploratory Analysis of Wind Patterns of Alberta, Canada. Environmental Modeling and Assessment, 2021, 26, 737-761.	2.2	2
61	Wake Dynamics Behind a Normal Thin Flat Plate at Moderate Reynolds Numbers. Springer Proceedings in Physics, 2016, , 265-269.	0.2	2
62	Unsteady actuation and feedback control of the experimental fluidic pinball using genetic programming. Experiments in Fluids, 2021, 62, 1.	2.4	2
63	What do biofilms sense in agitated well plates? A combined CFD and experimental study on spatial and temporal wall shear stress distribution. , 2010, , .		1
64	Clustering-based threshold estimation for vortex extraction and visualization. , 2017, , .		1
65	Lagrangian interpolation algorithm for PIV data. International Journal of Heat and Fluid Flow, 2020, 86, 108733.	2.4	1
66	Pre-processing unsteady flows for clutter reduction in vortex visualization. , 2016, , .		0
67	Towards a virtual environment for interactive analysis of cluster-based flow pattern abstraction. , 2017, , .		0
68	Topological Differences in Mean Wakes of Circular and Square Cantilevered Cylinders. Springer Proceedings in Physics, 2021, , 203-208.	0.2	0
69	Vortex Merging in the Wake of a Surface-Mounted Low Aspect Ratio Cone. Springer Proceedings in Physics, 2019, , 229-234.	0.2	0