

Karen Mulleners

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

732
citations

686830

13
h-index

525886

27
g-index

35
all docs

35
docs citations

35
times ranked

449
citing authors

#	ARTICLE	IF	CITATIONS
1	The onset of dynamic stall revisited. Experiments in Fluids, 2012, 52, 779-793.	1.1	179
2	Dynamic stall development. Experiments in Fluids, 2013, 54, 1.	1.1	115
3	Dynamic Stall Control by Passive Disturbance Generators. AIAA Journal, 2013, 51, 2086-2097.	1.5	60
4	Modeling the interplay between the shear layer and leading edge suction during dynamic stall. Physics of Fluids, 2019, 31, .	1.6	52
5	Dynamic stall of an experimental wind turbine blade. Physics of Fluids, 2016, 28, .	1.6	36
6	Aperiodicity in the near field of full-scale rotor blade tip vortices. Experiments in Fluids, 2011, 50, 1601-1610.	1.1	35
7	Characterizing a burst leading-edge vortex on a rotating flat plate wing. Experiments in Fluids, 2016, 57, 1.	1.1	28
8	Flow Development on a Flat-Plate Wing Subjected to a Streamwise Acceleration. AIAA Journal, 2017, 55, 2118-2122.	1.5	27
9	Impact of an invasive species, <i>Crepidula fornicata</i> , on the hydrodynamics and transport properties of the benthic boundary layer. Aquatic Living Resources, 2007, 20, 15-31.	0.5	25
10	Flowfield and Force Evolution for a Symmetric Hovering Flat-Plate Wing. AIAA Journal, 2018, 56, 1360-1371.	1.5	24
11	Unsteady lift on a high-amplitude pitching aerofoil. Experiments in Fluids, 2021, 62, 1.	1.1	19
12	Stall Delay and Leading-Edge Suction for a Pitching Airfoil with Trailing-Edge Flap. AIAA Journal, 2020, 58, 5146-5155.	1.5	16
13	Multiscale Vortex Characteristics of Dynamic Stall from Empirical Mode Decomposition. AIAA Journal, 2020, 58, 600-617.	1.5	15
14	Density tagging velocimetry. Experiments in Fluids, 2011, 51, 573-578.	1.1	13
15	Cross-correlation analysis of synchronized PIV and microphone measurements of an oscillating airfoil. Journal of Visualization, 2018, 21, 381-395.	1.1	9
16	The role of surface vorticity during unsteady separation. Physics of Fluids, 2018, 30, .	1.6	9
17	Effect of pitch on the flow behavior around a hovering wing. Experiments in Fluids, 2019, 60, 1.	1.1	9
18	Phenomenology and scaling of optimal flapping wing kinematics. Bioinspiration and Biomimetics, 2021, 16, 026016.	1.5	9

#	ARTICLE	IF	CITATIONS
19	The dynamics and timescales of static stall. <i>Journal of Fluids and Structures</i> , 2021, 104, 103304.	1.5	9
20	Analysis of Intermittent Trailing-Edge Vortex Shedding Using Recurrence Plots. <i>AIAA Journal</i> , 2018, 56, 571-580.	1.5	6
21	Scaling of the translational velocity of vortex rings behind conical objects. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	6
22	Genetic Algorithm Based Optimization of Wing Rotation in Hover. <i>Fluids</i> , 2018, 3, 59.	0.8	5
23	Estimating the non-dimensional energy of vortex rings by modelling their roll-up. <i>Journal of Fluid Mechanics</i> , 2022, 940, .	1.4	4
24	Experimental quantification of unsteady leading-edge flow separation. <i>Journal of Fluid Mechanics</i> , 2022, 941, .	1.4	4
25	All you need is time to generalise the Gomanâ€™Khrabrov dynamic stall model. <i>Journal of Fluid Mechanics</i> , 2022, 942, .	1.4	4
26	Resulting Aerodynamic Losses of Combinations of Localized Roughness Patches on Turbine Blades. <i>AIAA Journal</i> , 2016, 54, 2552-2555.	1.5	3
27	Discrete shedding of secondary vortices along a modified Kaden spiral. <i>Journal of Fluid Mechanics</i> , 2021, 917, .	1.4	3
28	Coherent Structure Interaction During Unsteady Separation. <i>AIAA Journal</i> , 2019, 57, 3239-3249.	1.5	2
29	On the parametrisation of motion kinematics for experimental aerodynamic optimisation. <i>Experiments in Fluids</i> , 2022, 63, 1.	1.1	2
30	Predicting unsteady flow separation in response to a flow disturbance. , 2020, , .		1
31	Experimental Analysis of Multiscale Vortex Shedding in Turbulent Turbomachine Blade Wakes. <i>AIAA Journal</i> , 2020, 58, 5183-5190.	1.5	1
32	Modulation of the Leading-Edge Vortex Shedding Rate in Discrete-Vortex Methods. , 2022, , .		1
33	Asymmetry of timescales, loads, and flow structures for a vertical-axis wind turbine blade. , 2022, , .		1
34	Greenbergâ€™s Force Prediction for Vertical-Axis Wind Turbine Blades. <i>AIAA Journal</i> , 0, , 1-4.	1.5	0
35	Lagrangian analysis of bio-inspired vortex ring formation. <i>Flow</i> , 2022, 2, .	1.0	0