Karen Mulleners

List of Publications by Year
in descending order

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	Modulation of the Leading-Edge Vortex Shedding Rate in Discrete-Vortex Methods. , 2022, , .		1
2	Asymmetry of timescales, loads, and flow structures for a vertical-axis wind turbine blade. , 2022, , .		1
3	On the parametrisation of motion kinematics for experimental aerodynamic optimisation. Experiments in Fluids, 2022, 63, 1.	1.1	2
4	Estimating the non-dimensional energy of vortex rings by modelling their roll-up. Journal of Fluid Mechanics, 2022, 940, .	1.4	4
5	Experimental quantification of unsteady leading-edge flow separation. Journal of Fluid Mechanics, 2022, 941, .	1.4	4
6	All you need is time to generalise the Gomanâ€“Khrabrov dynamic stall model. Journal of Fluid Mechanics, 2022, 942, .	1.4	4
7	Lagrangian analysis of bio-inspired vortex ring formation. Flow, 2022, 2, .	1.0	0
8	Phenomenology and scaling of optimal flapping wing kinematics. Bioinspiration and Biomimetics, 2021, 16, 026016.	1.5	9
9	Scaling of the translational velocity of vortex rings behind conical objects. Physical Review Fluids, 2021, 6, .	1.0	6
10	Discrete shedding of secondary vortices along a modified Kaden spiral. Journal of Fluid Mechanics, 2021, 917, .	1.4	3
11	The dynamics and timescales of static stall. Journal of Fluids and Structures, 2021, 104, 103304.	1.5	9
12	Unsteady lift on a high-amplitude pitching aerofoil. Experiments in Fluids, 2021, 62, 1.	1.1	19
13	Multiscale Vortex Characteristics of Dynamic Stall from Empirical Mode Decomposition. AIAA Journal, 2020, 58, 600-617.	1.5	15
14	Stall Delay and Leading-Edge Suction for a Pitching Airfoil with Trailing-Edge Flap. AIAA Journal, 2020, 58, 5146-5155.	1.5	16
15	Predicting unsteady flow separation in response to a flow disturbance. , 2020, , .		1
16	Experimental Analysis of Multiscale Vortex Shedding in Turbulent Turbomachine Blade Wakes. AIAA Journal, 2020, 58, 5183-5190.	1.5	1
17	Coherent Structure Interaction During Unsteady Separation. AIAA Journal, 2019, 57, 3239-3249.	1.5	2
18	Modeling the interplay between the shear layer and leading edge suction during dynamic stall. Physics of Fluids, 2019, 31, .	1.6	52

#	Article	IF	Citations
19	Effect of pitch on the flow behavior around a hovering wing. Experiments in Fluids, 2019, 60, 1.	1.1	9
20	Cross-correlation analysis of synchronized PIV and microphone measurements of an oscillating airfoil. Journal of Visualization, 2018, 21, 381-395.	1.1	9
21	Flowfield and Force Evolution for a Symmetric Hovering Flat-Plate Wing. AIAA Journal, 2018, 56, 1360-1371.	1.5	24
22	The role of surface vorticity during unsteady separation. Physics of Fluids, 2018, 30, .	1.6	9
23	Analysis of Intermittent Trailing-Edge Vortex Shedding Using Recurrence Plots. AIAA Journal, 2018, 56, 571-580.	1.5	6
24	Genetic Algorithm Based Optimization of Wing Rotation in Hover. Fluids, 2018, 3, 59.	0.8	5
25	Flow Development on a Flat-Plate Wing Subjected to a Streamwise Acceleration. AIAA Journal, 2017, 55, 2118-2122.	1.5	27
26	Resulting Aerodynamic Losses of Combinations of Localized Roughness Patches on Turbine Blades. AIAA Journal, 2016, 54, 2552-2555.	1.5	3
27	Dynamic stall of an experimental wind turbine blade. Physics of Fluids, 2016, 28, .	1.6	36
28	Characterizing a burst leading-edge vortex on a rotating flat plate wing. Experiments in Fluids, 2016, 57, 1.	1.1	28
29	Dynamic stall development. Experiments in Fluids, 2013, 54, 1.	1.1	115
30	Dynamic Stall Control by Passive Disturbance Generators. AIAA Journal, 2013, 51, 2086-2097.	1.5	60
31	The onset of dynamic stall revisited. Experiments in Fluids, 2012, 52, 779-793.	1.1	179
32	Aperiodicity in the near field of full-scale rotor blade tip vortices. Experiments in Fluids, 2011, 50, 1601-1610.	1.1	35
33	Density tagging velocimetry. Experiments in Fluids, 2011, 51, 573-578.	1.1	13
34	Impact of an invasive species,Crepidula fornicata, on the hydrodynamics and transport properties of the benthic boundary layer. Aquatic Living Resources, 2007, 20, 15-31.	0.5	25
35	Greenbergâ€™s Force Prediction for Vertical-Axis Wind Turbine Blades. AIAA Journal, 0, , 1-4.	1.5	0