Karen Mulleners

List of Publications by Year
in descending order

35 papers	732 citations	687363 13 h-index	526287 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.	2.4	179
2	Dynamic stall development. Experiments in Fluids, 2013, 54, 1.	2.4	115
3	Dynamic Stall Control by Passive Disturbance Generators. AIAA Journal, 2013, 51, 2086-2097.	2.6	60
4	Modeling the interplay between the shear layer and leading edge suction during dynamic stall. Physics of Fluids, 2019, 31, .	4.0	52
5	Dynamic stall of an experimental wind turbine blade. Physics of Fluids, 2016, 28, .	4.0	36
6	Aperiodicity in the near field of full-scale rotor blade tip vortices. Experiments in Fluids, 2011, 50, 1601-1610.	2.4	35
7	Characterizing a burst leading-edge vortex on a rotating flat plate wing. Experiments in Fluids, 2016, 57, 1.	2.4	28
8	Flow Development on a Flat-Plate Wing Subjected to a Streamwise Acceleration. AIAA Journal, 2017, 55, 2118-2122.	2.6	27
9	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.	1.2	25
10	Flowfield and Force Evolution for a Symmetric Hovering Flat-Plate Wing. AIAA Journal, 2018, 56, 1360-1371.	2.6	24
11	Unsteady lift on a high-amplitude pitching aerofoil. Experiments in Fluids, 2021, 62, 1.	2.4	19
12	Stall Delay and Leading-Edge Suction for a Pitching Airfoil with Trailing-Edge Flap. AIAA Journal, 2020, 58, 5146-5155.	2.6	16
13	Multiscale Vortex Characteristics of Dynamic Stall from Empirical Mode Decomposition. AIAA Journal, 2020, 58, 600-617.	2.6	15
14	Density tagging velocimetry. Experiments in Fluids, 2011, 51, 573-578.	2.4	13
15	Cross-correlation analysis of synchronized PIV and microphone measurements of an oscillating airfoil. Journal of Visualization, 2018, 21, 381-395.	1.8	9
16	The role of surface vorticity during unsteady separation. Physics of Fluids, 2018, 30, .	4.0	9
17	Effect of pitch on the flow behavior around a hovering wing. Experiments in Fluids, 2019, 60, 1.	2.4	9
18	Phenomenology and scaling of optimal flapping wing kinematics. Bioinspiration and Biomimetics, 2021, 16, 026016.	2.9	9

#	Article	IF	Citations
19	The dynamics and timescales of static stall. Journal of Fluids and Structures, 2021, 104, 103304.	3.4	9
20	Analysis of Intermittent Trailing-Edge Vortex Shedding Using Recurrence Plots. AIAA Journal, 2018, 56, 571-580.	2.6	6
21	Scaling of the translational velocity of vortex rings behind conical objects. Physical Review Fluids, 2021, 6, .	2.5	6
22	Genetic Algorithm Based Optimization of Wing Rotation in Hover. Fluids, 2018, 3, 59.	1.7	5
23	Estimating the non-dimensional energy of vortex rings by modelling their roll-up. Journal of Fluid Mechanics, 2022, 940, .	3.4	4
24	Experimental quantification of unsteady leading-edge flow separation. Journal of Fluid Mechanics, 2022, 941, .	3.4	4
25	All you need is time to generalise the Gomanâ€“Khrabrov dynamic stall model. Journal of Fluid Mechanics, 2022, 942, .	3.4	4
26	Resulting Aerodynamic Losses of Combinations of Localized Roughness Patches on Turbine Blades. AIAA Journal, 2016, 54, 2552-2555.	2.6	3
27	Discrete shedding of secondary vortices along a modified Kaden spiral. Journal of Fluid Mechanics, 2021, 917, .	3.4	3
28	Coherent Structure Interaction During Unsteady Separation. AIAA Journal, 2019, 57, 3239-3249.	2.6	2
29	On the parametrisation of motion kinematics for experimental aerodynamic optimisation. Experiments in Fluids, 2022, 63, 1.	2.4	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. AIAA Journal, 2020, 58, 5183-5190.	2.6	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. AIAA Journal, 0, , 1-4.	2.6	0
35	Lagrangian analysis of bio-inspired vortex ring formation. Flow, 2022, 2, .	2.6	0