

# Kenneth Granlund

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,128  
citations

687363

13  
h-index

434195

31  
g-index

54  
all docs

54  
docs citations

54  
times ranked

495  
citing authors

#	ARTICLE	IF	CITATIONS
1	Discrete-vortex method with novel shedding criterion for unsteady aerofoil flows with intermittent leading-edge vortex shedding. <i>Journal of Fluid Mechanics</i> , 2014, 751, 500-538.	3.4	206
2	Unsteady force generation and vortex dynamics of pitching and plunging aerofoils. <i>Journal of Fluid Mechanics</i> , 2012, 709, 37-68.	3.4	161
3	An unsteady airfoil theory applied to pitching motions validated against experiment and computation. <i>Theoretical and Computational Fluid Dynamics</i> , 2013, 27, 843-864.	2.2	90
4	Airfoil longitudinal gust response in separated vs. attached flows. <i>Physics of Fluids</i> , 2014, 26, .	4.0	84
5	Unsteady pitching flat plates. <i>Journal of Fluid Mechanics</i> , 2013, 733, .	3.4	80
6	Investigations of Lift-Based Pitch-Plunge Equivalence for Airfoils at Low Reynolds Numbers. <i>AIAA Journal</i> , 2011, 49, 1511-1524.	2.6	73
7	Unsteady aerodynamic characteristics of a translating rigid wing at low Reynolds number. <i>Physics of Fluids</i> , 2015, 27, .	4.0	49
8	Vortex dynamics around pitching plates. <i>Physics of Fluids</i> , 2014, 26, .	4.0	47
9	Leading-edge flow criticality as a governing factor in leading-edge vortex initiation in unsteady airfoil flows. <i>Theoretical and Computational Fluid Dynamics</i> , 2018, 32, 109-136.	2.2	38
10	Experiments and Computations on Abstractions of Perching. , 2010, , .		35
11	Effect of Root Cutout on Force Coefficients of Rotating Wings. <i>AIAA Journal</i> , 2014, 52, 1322-1325.	2.6	20
12	Passive flow control for drag reduction in vehicle platoons. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019, 189, 104-117.	3.9	20
13	Augmentation of Inviscid Airfoil Theory to Predict and Model 2D Unsteady Vortex Dominated Flows. , 2011, , .		19
14	Streamwise Oscillation of Airfoils into Reverse Flow. <i>AIAA Journal</i> , 2016, 54, 1628-1636.	2.6	19
15	Lab-Scale, Closed-Loop Experimental Characterization, Model Refinement, and Validation of a Hydrokinetic Energy-Harvesting Ocean Kite. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2020, 142, .	1.6	15
16	Theoretical, Computational and Experimental Studies of a Flat Plate Undergoing High-Amplitude Pitching Motion. , 2011, , .		13
17	Experiments and Computations on the Lift of Accelerating Flat Plates at Incidence. <i>AIAA Journal</i> , 2017, 55, 3255-3265.	2.6	12
18	Supersonic Cavity Flow Subjected to Continuous and Transient Leading-Edge Blowing. <i>AIAA Journal</i> , 2020, 58, 4415-4425.	2.6	11

#	ARTICLE	IF	CITATIONS
19	Quasi-steady response of free-to-pivot flat plates in hover. <i>Journal of Fluids and Structures</i> , 2013, 40, 337-355.	3.4	10
20	High Advance-Ratio Airfoil Streamwise Oscillations: Wind Tunnel vs. Water Tunnel. , 2016, , .		10
21	Autonomous Closed-Loop Experimental Characterization and Dynamic Model Validation of a Scaled Underwater Kite. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2022, 144, .	1.6	10
22	Theoretical Modeling of Leading Edge Vortices Using the Leading Edge Suction Parameter. , 2012, , .		8
23	Dual-Actuator Disc Theory for Turbines in Yaw. <i>AIAA Journal</i> , 2019, 57, 2204-2208.	2.6	8
24	Stochastic Store Trajectory of Ice Models from a Cavity into Supersonic Flow. <i>Journal of Aircraft</i> , 2019, 56, 1313-1319.	2.4	8
25	Experimental analysis of dual coaxial turbines in skew. <i>Ocean Engineering</i> , 2020, 215, 107877.	4.3	8
26	Low-frequency, spanwise oscillation in a finite-width cavity at Mach 1.5. <i>Physics of Fluids</i> , 2021, 33, .	4.0	8
27	Unsteady Aerodynamic Response of a Rapidly Started Flexible Wing. <i>International Journal of Micro Air Vehicles</i> , 2015, 7, 147-157.	1.3	7
28	Modeling, simulation, and equilibrium analysis of tethered coaxial dual-rotor ocean current turbines. <i>Energy Conversion and Management</i> , 2021, 243, 113929.	9.2	7
29	Time-Dependent Aerodynamic Loads on Single and Tandem Stores in a Supersonic Cavity. <i>Journal of Aircraft</i> , 2020, 57, 702-714.	2.4	7
30	Unsteady PSP measurements on a cylinder translating out from a supersonic cavity. , 2017, , .		6
31	Lift Equivalence and Cancellation for Airfoil Surgeâ€“Pitchâ€“Plunge Oscillations. <i>AIAA Journal</i> , 2020, 58, 4629-4643.	2.6	6
32	Theoretical Analysis of Perching and Hovering Maneuvers. , 2013, , .		5
33	Abstraction of Aerodynamics of Flapping-Wings: Is it Quasi-Steady?. , 2012, , .		3
34	Time-dependent airloads on a cylinder in a supersonic cavity. , 2016, , .		3
35	Investigation of a Novel Approach for Ocean Current Power Generation: The Inclined-Axis Coaxial Turbine. , 2018, , .		3
36	Back-imaging of polymer-ceramic pressure-sensitive paint. <i>Measurement Science and Technology</i> , 2021, 32, 104008.	2.6	3

#	ARTICLE	IF	CITATIONS
37	Heaving Inverted Wing in Extreme Ground Effect. Journal of Fluids Engineering, Transactions of the ASME, 2020, 142, .	1.5	3
38	The Validity Bounds of Analytical Force and Moment Predictions for Pitch- and Plunge Oscillating Low Reynolds Number Airfoils. , 2010, , .		2
39	Airfoil Longitudinal Gust Response in Separated vs. Attached Flows. , 2012, , .		2
40	Non-linearity of apparent mass for multi-element bodies. , 2014, , .		2
41	Streamwise oscillation of airfoils into reverse flow. , 2015, , .		2
42	Resonance Start-up in a Rectangular Cavity. , 2018, , .		1
43	Finite wing lift during water-to-air transition. Physical Review Fluids, 2021, 6, .	2.5	1
44	Store Separation Trajectory Clusters from Machine Learning. Journal of Aircraft, 2022, 59, 117-125.	2.4	1
45	Supersonic cavity flow with a downstream-sliding door. Experiments in Fluids, 2021, 62, 1.	2.4	1
46	Novel Surface Flow-Reversal Sensor Applied to Detection of Airfoil Stall. Journal of Aircraft, 2022, 59, 1382-1389.	2.4	1
47	Parameter Studies on Rotational and Translational Accelerations of Flat Plates. , 2013, , .		0
48	Free-to-Pivot Flat Plates in Hover for Reynolds Numbers 14 to 21,200. AIAA Journal, 2014, 52, 2083-2086.	2.6	0
49	Nonlinearity of Apparent Mass for Multielement Bodies. AIAA Journal, 2016, 54, 771-776.	2.6	0
50	Investigations of Lift-Based Equivalence of a NACA 0018 Airfoil for Surge-Pitch-Plunge Oscillations. , 2019, , .		0
51	Aerodynamic Force Modeling for Unsteady Wing Maneuvers. , 2014, , .		0