

Anya R Jones

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

1,644
citations

279798

23
h-index

345221

36
g-index

90
all docs

90
docs citations

90
times ranked

563
citing authors

#	ARTICLE	IF	CITATIONS
1	Leading-Edge Vortices: Mechanics and Modeling. Annual Review of Fluid Mechanics, 2019, 51, 75-104.	25.0	209
2	Airframe Design for Silent Fuel-Efficient Aircraft. Journal of Aircraft, 2010, 47, 956-969.	2.4	84
3	Unsteady Lift Generation on Rotating Wings at Low Reynolds Numbers. Journal of Aircraft, 2010, 47, 1013-1021.	2.4	77
4	Reynolds number effects on leading edge vortex development on a waving wing. Experiments in Fluids, 2011, 51, 197-210.	2.4	64
5	Unsteady forcing on a flat-plate wing in large transverse gusts. Experiments in Fluids, 2017, 58, 1.	2.4	61
6	Unsteady aerodynamic characteristics of a translating rigid wing at low Reynolds number. Physics of Fluids, 2015, 27, .	4.0	49
7	Experimental and Computational Investigation of Transverse Gust Encounters. AIAA Journal, 2019, 57, 4608-4622.	2.6	49
8	Time-Averaged Aerodynamics of Sharp and Blunt Trailing-Edge Static Airfoils in Reverse Flow. AIAA Journal, 2014, 52, 2751-2764.	2.6	41
9	Physics and Modeling of Large Flow Disturbances: Discrete Gust Encounters for Modern Air Vehicles. Annual Review of Fluid Mechanics, 2022, 54, 469-493.	25.0	37
10	Three-Dimensional Effects on Sliding and Waving Wings. Journal of Aircraft, 2011, 48, 633-644.	2.4	36
11	Leading-Edge Vortex Structure over Multiple Revolutions of a Rotating Wing. Journal of Aircraft, 2013, 50, 1312-1316.	2.4	33
12	Unsteady aerodynamics of reverse flow dynamic stall on an oscillating blade section. Physics of Fluids, 2016, 28, .	4.0	32
13	Lift Regulation During Transverse Gust Encounters Using a Modified Gomanâ€™Khrabrov Model. AIAA Journal, 2020, 58, 3788-3798.	2.6	32
14	Low Reynolds Number Aerodynamics of Leading-Edge Flaps. Journal of Aircraft, 2008, 45, 342-345.	2.4	31
15	Leading-edge vortex burst on a low-aspect-ratio rotating flat plate. Physical Review Fluids, 2016, 1, .	2.5	31
16	Collaborative Investigation of the Aerodynamic Behavior of Airfoils in Reverse Flow. Journal of the American Helicopter Society, 2016, 61, 1-15.	0.8	30
17	Vortex Shedding from Airfoils in Reverse Flow. AIAA Journal, 2015, 53, 2621-2633.	2.6	29
18	Tip vortex structure and aerodynamic loading on rotating wings in confined spaces. Experiments in Fluids, 2014, 55, 1.	2.4	28

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19	Characterizing a burst leading-edge vortex on a rotating flat plate wing. Experiments in Fluids, 2016, 57, 1.	2.4	28
20	Comparison of Rotating and Translating Wings: Force Production and Vortex Characteristics. AIAA Journal, 2016, 54, 519-530.	2.6	28
21	Flow Development on a Flat-Plate Wing Subjected to a Streamwise Acceleration. AIAA Journal, 2017, 55, 2118-2122.	2.6	27
22	Low Order Modelling of Lift Forces for Unsteady Pitching and Surging Wings. , 2016, , .		26
23	Effect of Transverse Gust Velocity Profiles. AIAA Journal, 2020, 58, 5123-5133.	2.6	26
24	Data-Driven Estimation of the Unsteady Flowfield Near an Actuated Airfoil. Journal of Guidance, Control, and Dynamics, 2019, 42, 2279-2287.	2.8	25
25	Reynolds Number Effects on Rotor Blade Sections in Reverse Flow. Journal of Aircraft, 2016, 53, 1248-1260.	2.4	23
26	Experimental Investigation of Airfoil Performance in the Wake of a Circular Cylinder. AIAA Journal, 2019, 57, 2808-2818.	2.6	22
27	Effect of Root Cutout on Force Coefficients of Rotating Wings. AIAA Journal, 2014, 52, 1322-1325.	2.6	20
28	Revisiting Conventional Flaps at High Deflection Rate. AIAA Journal, 2017, 55, 2676-2685.	2.6	20
29	Streamwise Oscillation of Airfoils into Reverse Flow. AIAA Journal, 2016, 54, 1628-1636.	2.6	19
30	Vortex formation on surging aerofoils with application to reverse flow modelling. Journal of Fluid Mechanics, 2019, 859, 59-88.	3.4	19
31	Evaluation of potential flow models for unsteady separated flow with respect to experimental data. Physical Review Fluids, 2019, 4, .	2.5	19
32	Unsteady aerodynamics of lift regulation during a transverse gust encounter. Physical Review Fluids, 2020, 5, .	2.5	19
33	Experimental Investigation of Transverse and Vortex Gust Encounters at Low Reynolds Numbers. AIAA Journal, 2021, 59, 786-799.	2.6	18
34	Gust encounters of rigid wings: Taming the parameter space. Physical Review Fluids, 2020, 5, .	2.5	18
35	Lift Production by a Passively Flexible Rotating Wing. AIAA Journal, 2015, 53, 2995-3005.	2.6	17
36	Unsteady airloads on static airfoils through high angles of attack and in reverse flow. Journal of Fluids and Structures, 2016, 63, 259-279.	3.4	17

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37	Application of Prescribed Velocity Methods to a Large-Amplitude Flat-Plate Gust Encounter. AIAA Journal, 2019, 57, 3261-3273.	2.6	15
38	Quasi-Steady Approximation of Forces on Flat Plate due to Large-Amplitude Plunging Maneuvers. AIAA Journal, 2018, 56, 4232-4242.	2.6	14
39	Overview of Unsteady Aerodynamic Response of Rigid Wings in Gust Encounters. AIAA Journal, 2021, 59, 731-736.	2.6	14
40	Low Reynolds Number Acceleration of Flat Plate Wings at High Incidence (Invited). , 2016, , .		13
41	Flow field studies on a micro-air-vehicle-scale cycloidal rotor in forward flight. Experiments in Fluids, 2014, 55, 1.	2.4	12
42	Transient aerodynamics of large transverse gusts and geometrically similar maneuvers. , 2016, , .		11
43	Unsteady DMD-Based Flow Field Estimation From Embedded Pressure Sensors in an Actuated Airfoil. , 2019, , .		11
44	Vortex formation on a pitching aerofoil at high surging amplitudes. Journal of Fluid Mechanics, 2020, 905, .	3.4	11
45	Physics of gust response mitigation in open-loop pitching manoeuvres. Journal of Fluid Mechanics, 2022, 944, .	3.4	11
46	Leading Edge Vortex Evolution and Lift Production on Rotating Wings (Invited). , 2016, , .		10
47	Flowfield measurements of reverse flow on a high advance ratio rotor. Experiments in Fluids, 2018, 59, 1.	2.4	10
48	Force Coefficients of Low Reynolds Number Rotating Wings. , 2013, , .		8
49	Experimental Investigation of Reverse Flow over Sharp and Blunt Trailing Edge Airfoils. , 2013, , .		8
50	Parametric Variations in Aspect Ratio, Leading Edge and Planform Shapes for the Rectilinear Pitch Cases of AVT-202 (Invited). , 2016, , .		8
51	Experimental and computational investigation of transverse gust encounters. , 2018, , .		8
52	The Effect of Tip Clearance on Low Reynolds Number Rotating Wings. , 2014, , .		7
53	Unsteady Aerodynamic Response of a Rapidly Started Flexible Wing. International Journal of Micro Air Vehicles, 2015, 7, 147-157.	1.3	7
54	Experimental and analytical investigation into lift prediction on large trailing edge flaps. Physics of Fluids, 2019, 31, .	4.0	7

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55	Characterization of Aerodynamic Forces on Wings in Plunge Maneuvers. AIAA Journal, 2021, 59, 751-762.	2.6	7
56	Measurements on a yawed rotor blade pitching in reverse flow. Physical Review Fluids, 2019, 4, .	2.5	7
57	Experimental Comparison of a Sinusoidal and Trapezoidal Transverse Gust. AIAA Journal, 2022, 60, 3347-3351.	2.6	7
58	Reynolds Number Effects on Airfoils in Reverse Flow. , 2015, , .		6
59	Stereoscopic PIV analysis on rotary plates in bursting. , 2015, , .		6
60	Transient Response of a Single Degree-of-Freedom Wing at High Angle-of-Attack. AIAA Journal, 2017, 55, 3681-3692.	2.6	6
61	Wing-Gust Interactions: The Effect of Transverse Velocity Profile. , 2020, , .		6
62	Evolution and Breakdown of a Leading Edge Vortex on a Rotating Wing. , 2013, , .		6
63	Unsteady Lift Generation on Sliding and Rotating Flat Plate Wings. , 2009, , .		5
64	Three-Dimensional Effects on a Waving Wing. , 2010, , .		5
65	Leading Edge Vortex Development on a Waving Wing at Reynolds Numbers Between 10,000 and 60,000. , 2011, , .		5
66	Parameter Studies on Translating Rigid and Flexible Wings. , 2014, , .		5
67	The role of rotary motion on vortices in reverse flow. Journal of Fluid Mechanics, 2019, 880, 723-742.	3.4	5
68	Effects of Acceleration and Pitch Variations on a Rotating Wing.. , 2012, , .		4
69	The Effects of Wall Boundaries on the Flow Field of a Rotating Wing. , 2012, , .		4
70	The initial growth of normalized circulation of the leading-edge vortex on surging and rotating wings. , 2020, , .		4
71	Overview of NATO AVT-282: Unsteady Aerodynamic Response of Rigid Wings in Gust Encounters. , 2020, , .		4
72	Vortex Characterization and Force Production on Two- and Three-Dimensional Wing Kinematics. , 2015, , .		3

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73	The Unsteady Aerodynamics of a Transverse Wing-Gust Encounter with Closed-Loop Pitch Control. , 2020, , .		3
74	Force prediction during transverse and vortex gust encounters. , 2020, , .		3
75	Three-Dimensional Waving Wings at Low Reynolds Numbers. , 2009, , .		2
76	Effects of Model Scaling on Sediment Transport in Brownout. , 2012, , .		2
77	Streamwise oscillation of airfoils into reverse flow. , 2015, , .		2
78	An Experimental Study of the Effects of Winglets and Serrations on the Wake of a Wind Turbine. , 2015, , .		1
79	Similarity Parameters for the Characterization of Sediment Mobilization by Unsteady Rotor Wakes. Journal of Aircraft, 2015, 52, 2090-2095.	2.4	1
80	Unsteady Vortex Formation on Airfoils with High Surging and Pitching Amplitudes. , 2020, , .		1
81	A Computational Study of the Impact of Fluid Structure Interaction on the Development and Persistence of 2D LEVs in Low Reynolds Number Flow Applications. , 2020, , .		1
82	Reverse Flow Aerodynamics of Low Reynolds Number Rotors with Blunt Trailing-Edged Blades at High Advance Ratios. , 2022, , .		1
83	Transverse Gust Velocity Gradients at Low Reynolds Number Flows. , 2022, , .		1
84	Experiments in transverse gust mitigation using open-loop pitch maneuvers. , 2022, , .		1
85	Lift and vortex development during transverse wing-gust encounters for a blunt-edge airfoil. , 2022, , .		1
86	Distributed Multidisciplinary Optimization of Aircraft Design and Takeoff Operations for Low Noise. , 2007, , .		0
87	Leading Edge Flaps at Low Reynolds Numbers. , 2008, , .		0
88	The Effect of Passive Deformation on the Lift Produced by a Rotating Hinged Wing. , 2014, , .		0
89	Experimental analysis of the flow development on an airfoil harmonically surging into reverse flow. , 2016, , .		0
90	Vorticity Transport in the Reverse Flow Region of a Rotor at High Advance Ratio. , 2019, , .		0