

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	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
2	Reverse Flow Aerodynamics of Low Reynolds Number Rotors with Blunt Trailing-Edged Blades at High Advance Ratios. , 2022, , .		1
3	Experimental Comparison of a Sinusoidal and Trapezoidal Transverse Gust. AIAA Journal, 2022, 60, 3347-3351.	2.6	7
4	Transverse Gust Velocity Gradients at Low Reynolds Number Flows. , 2022, , .		1
5	Experiments in transverse gust mitigation using open-loop pitch maneuvers. , 2022, , .		1
6	Lift and vortex development during transverse wing-gust encounters for a blunt-edge airfoil. , 2022, , .		1
7	Physics of gust response mitigation in open-loop pitching manoeuvres. Journal of Fluid Mechanics, 2022, 944, .	3.4	11
8	Characterization of Aerodynamic Forces on Wings in Plunge Maneuvers. AIAA Journal, 2021, 59, 751-762.	2.6	7
9	Overview of Unsteady Aerodynamic Response of Rigid Wings in Gust Encounters. AIAA Journal, 2021, 59, 731-736.	2.6	14
10	Experimental Investigation of Transverse and Vortex Gust Encounters at Low Reynolds Numbers. AIAA Journal, 2021, 59, 786-799.	2.6	18
11	Wing-Gust Interactions: The Effect of Transverse Velocity Profile. , 2020, , .		6
12	Vortex formation on a pitching aerofoil at high surging amplitudes. Journal of Fluid Mechanics, 2020, 905, .	3.4	11
13	Lift Regulation During Transverse Gust Encounters Using a Modified Gomanâ€™Khrabrov Model. AIAA Journal, 2020, 58, 3788-3798.	2.6	32
14	The initial growth of normalized circulation of the leading-edge vortex on surging and rotating wings. , 2020, , .		4
15	The Unsteady Aerodynamics of a Transverse Wing-Gust Encounter with Closed-Loop Pitch Control. , 2020, , .		3
16	Unsteady Vortex Formation on Airfoils with High Surging and Pitching Amplitudes. , 2020, , .		1
17	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
18	Force prediction during transverse and vortex gust encounters. , 2020, , .		3

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19	Overview of NATO AVT-282: Unsteady Aerodynamic Response of Rigid Wings in Gust Encounters. , 2020, , .		4
20	Unsteady aerodynamics of lift regulation during a transverse gust encounter. Physical Review Fluids, 2020, 5, .	2.5	19
21	Effect of Transverse Gust Velocity Profiles. AIAA Journal, 2020, 58, 5123-5133.	2.6	26
22	Gust encounters of rigid wings: Taming the parameter space. Physical Review Fluids, 2020, 5, .	2.5	18
23	Leading-Edge Vortices: Mechanics and Modeling. Annual Review of Fluid Mechanics, 2019, 51, 75-104.	25.0	209
24	Experimental Investigation of Airfoil Performance in the Wake of a Circular Cylinder. AIAA Journal, 2019, 57, 2808-2818.	2.6	22
25	Application of Prescribed Velocity Methods to a Large-Amplitude Flat-Plate Gust Encounter. AIAA Journal, 2019, 57, 3261-3273.	2.6	15
26	The role of rotary motion on vortices in reverse flow. Journal of Fluid Mechanics, 2019, 880, 723-742.	3.4	5
27	Experimental and Computational Investigation of Transverse Gust Encounters. AIAA Journal, 2019, 57, 4608-4622.	2.6	49
28	Vorticity Transport in the Reverse Flow Region of a Rotor at High Advance Ratio. , 2019, , .		0
29	Unsteady DMD-Based Flow Field Estimation From Embedded Pressure Sensors in an Actuated Airfoil. , 2019, , .		11
30	Experimental and analytical investigation into lift prediction on large trailing edge flaps. Physics of Fluids, 2019, 31, .	4.0	7
31	Data-Driven Estimation of the Unsteady Flowfield Near an Actuated Airfoil. Journal of Guidance, Control, and Dynamics, 2019, 42, 2279-2287.	2.8	25
32	Vortex formation on surging aerofoils with application to reverse flow modelling. Journal of Fluid Mechanics, 2019, 859, 59-88.	3.4	19
33	Evaluation of potential flow models for unsteady separated flow with respect to experimental data. Physical Review Fluids, 2019, 4, .	2.5	19
34	Measurements on a yawed rotor blade pitching in reverse flow. Physical Review Fluids, 2019, 4, .	2.5	7
35	Experimental and computational investigation of transverse gust encounters. , 2018, , .		8
36	Flowfield measurements of reverse flow on a high advance ratio rotor. Experiments in Fluids, 2018, 59, 1.	2.4	10

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37	Quasi-Steady Approximation of Forces on Flat Plate due to Large-Amplitude Plunging Maneuvers. AIAA Journal, 2018, 56, 4232-4242.	2.6	14
38	Flow Development on a Flat-Plate Wing Subjected to a Streamwise Acceleration. AIAA Journal, 2017, 55, 2118-2122.	2.6	27
39	Revisiting Conventional Flaps at High Deflection Rate. AIAA Journal, 2017, 55, 2676-2685.	2.6	20
40	Transient Response of a Single Degree-of-Freedom Wing at High Angle-of-Attack. AIAA Journal, 2017, 55, 3681-3692.	2.6	6
41	Unsteady forcing on a flat-plate wing in large transverse gusts. Experiments in Fluids, 2017, 58, 1.	2.4	61
42	Collaborative Investigation of the Aerodynamic Behavior of Airfoils in Reverse Flow. Journal of the American Helicopter Society, 2016, 61, 1-15.	0.8	30
43	Unsteady aerodynamics of reverse flow dynamic stall on an oscillating blade section. Physics of Fluids, 2016, 28, .	4.0	32
44	Characterizing a burst leading-edge vortex on a rotating flat plate wing. Experiments in Fluids, 2016, 57, 1.	2.4	28
45	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
46	Streamwise Oscillation of Airfoils into Reverse Flow. AIAA Journal, 2016, 54, 1628-1636.	2.6	19
47	Leading Edge Vortex Evolution and Lift Production on Rotating Wings (Invited). , 2016, , .		10
48	Low Order Modelling of Lift Forces for Unsteady Pitching and Surging Wings. , 2016, , .		26
49	Low Reynolds Number Acceleration of Flat Plate Wings at High Incidence (Invited). , 2016, , .		13
50	Parametric Variations in Aspect Ratio, Leading Edge and Planform Shapes for the Rectilinear Pitch Cases of AVT-202 (Invited). , 2016, , .		8
51	Experimental analysis of the flow development on an airfoil harmonically surging into reverse flow. , 2016, , .		0
52	Reynolds Number Effects on Rotor Blade Sections in Reverse Flow. Journal of Aircraft, 2016, 53, 1248-1260.	2.4	23
53	Comparison of Rotating and Translating Wings: Force Production and Vortex Characteristics. AIAA Journal, 2016, 54, 519-530.	2.6	28
54	Transient aerodynamics of large transverse gusts and geometrically similar maneuvers. , 2016, , .		11

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55	Leading-edge vortex burst on a low-aspect-ratio rotating flat plate. <i>Physical Review Fluids</i> , 2016, 1, .	2.5	31
56	Unsteady aerodynamic characteristics of a translating rigid wing at low Reynolds number. <i>Physics of Fluids</i> , 2015, 27, .	4.0	49
57	Unsteady Aerodynamic Response of a Rapidly Started Flexible Wing. <i>International Journal of Micro Air Vehicles</i> , 2015, 7, 147-157.	1.3	7
58	Streamwise oscillation of airfoils into reverse flow. , 2015, , .		2
59	Vortex Characterization and Force Production on Two- and Three-Dimensional Wing Kinematics. , 2015, , .		3
60	An Experimental Study of the Effects of Winglets and Serrations on the Wake of a Wind Turbine. , 2015, , .		1
61	Lift Production by a Passively Flexible Rotating Wing. <i>AIAA Journal</i> , 2015, 53, 2995-3005.	2.6	17
62	Reynolds Number Effects on Airfoils in Reverse Flow. , 2015, , .		6
63	Similarity Parameters for the Characterization of Sediment Mobilization by Unsteady Rotor Wakes. <i>Journal of Aircraft</i> , 2015, 52, 2090-2095.	2.4	1
64	Vortex Shedding from Airfoils in Reverse Flow. <i>AIAA Journal</i> , 2015, 53, 2621-2633.	2.6	29
65	Stereoscopic PIV analysis on rotary plates in bursting. , 2015, , .		6
66	Time-Averaged Aerodynamics of Sharp and Blunt Trailing-Edge Static Airfoils in Reverse Flow. <i>AIAA Journal</i> , 2014, 52, 2751-2764.	2.6	41
67	Parameter Studies on Translating Rigid and Flexible Wings. , 2014, , .		5
68	The Effect of Tip Clearance on Low Reynolds Number Rotating Wings. , 2014, , .		7
69	Flow field studies on a micro-air-vehicle-scale cycloidal rotor in forward flight. <i>Experiments in Fluids</i> , 2014, 55, 1.	2.4	12
70	Tip vortex structure and aerodynamic loading on rotating wings in confined spaces. <i>Experiments in Fluids</i> , 2014, 55, 1.	2.4	28
71	Effect of Root Cutout on Force Coefficients of Rotating Wings. <i>AIAA Journal</i> , 2014, 52, 1322-1325.	2.6	20
72	The Effect of Passive Deformation on the Lift Produced by a Rotating Hinged Wing. , 2014, , .		0

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73	Force Coefficients of Low Reynolds Number Rotating Wings. , 2013, , .		8
74	Experimental Investigation of Reverse Flow over Sharp and Blunt Trailing Edge Airfoils. , 2013, , .		8
75	Leading-Edge Vortex Structure over Multiple Revolutions of a Rotating Wing. Journal of Aircraft, 2013, 50, 1312-1316.	2.4	33
76	Evolution and Breakdown of a Leading Edge Vortex on a Rotating Wing. , 2013, , .		6
77	Effects of Model Scaling on Sediment Transport in Brownout. , 2012, , .		2
78	Effects of Acceleration and Pitch Variations on a Rotating Wing.. , 2012, , .		4
79	The Effects of Wall Boundaries on the Flow Field of a Rotating Wing. , 2012, , .		4
80	Leading Edge Vortex Development on a Waving Wing at Reynolds Numbers Between 10,000 and 60,000. , 2011, , .		5
81	Reynolds number effects on leading edge vortex development on a waving wing. Experiments in Fluids, 2011, 51, 197-210.	2.4	64
82	Three-Dimensional Effects on Sliding and Waving Wings. Journal of Aircraft, 2011, 48, 633-644.	2.4	36
83	Airframe Design for Silent Fuel-Efficient Aircraft. Journal of Aircraft, 2010, 47, 956-969.	2.4	84
84	Unsteady Lift Generation on Rotating Wings at Low Reynolds Numbers. Journal of Aircraft, 2010, 47, 1013-1021.	2.4	77
85	Three-Dimensional Effects on a Waving Wing. , 2010, , .		5
86	Unsteady Lift Generation on Sliding and Rotating Flat Plate Wings. , 2009, , .		5
87	Three-Dimensional Waving Wings at Low Reynolds Numbers. , 2009, , .		2
88	Leading Edge Flaps at Low Reynolds Numbers. , 2008, , .		0
89	Low Reynolds Number Aerodynamics of Leading-Edge Flaps. Journal of Aircraft, 2008, 45, 342-345.	2.4	31
90	Distributed Multidisciplinary Optimization of Aircraft Design and Takeoff Operations for Low Noise. , 2007, , .		0