

Kevin Knowles

List of Publications by Year in descending order

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75
papers

1,168
citations

516561

16
h-index

414303

32
g-index

79
all docs

79
docs citations

79
times ranked

793
citing authors

#	ARTICLE	IF	CITATIONS
1	Aerodynamic modelling of insect-like flapping flight for micro air vehicles. Progress in Aerospace Sciences, 2006, 42, 129-172.	6.3	247
2	Insectlike Flapping Wings in the Hover Part II: Effect of Wing Geometry. Journal of Aircraft, 2008, 45, 1976-1990.	1.7	76
3	The vortex structure behind an Ahmed reference model in the presence of a moving ground plane. Experiments in Fluids, 2007, 42, 659-669.	1.1	70
4	Experimental investigation of some aspects of insect-like flapping flight aerodynamics for application to micro air vehicles. Experiments in Fluids, 2009, 46, 777-798.	1.1	62
5	Turbulence measurements in radial wall-jets. Experimental Thermal and Fluid Science, 1998, 17, 71-78.	1.5	61
6	The effect of aspect ratio on the leading-edge vortex over an insect-like flapping wing. Bioinspiration and Biomimetics, 2015, 10, 056020.	1.5	61
7	Insectlike Flapping Wings in the Hover Part I: Effect of Wing Kinematics. Journal of Aircraft, 2008, 45, 1945-1954.	1.7	57
8	Laser Doppler anemometry measurements in the near-wake of an isolated Formula One wheel. Experiments in Fluids, 2007, 42, 671-681.	1.1	42
9	Energy conservation based fuzzy tracking for unmanned aerial vehicle missions under a priori known wind information. Engineering Applications of Artificial Intelligence, 2011, 24, 278-294.	4.3	32
10	Comparison of Passive Flow Control Methods for a Cavity in Transonic Flow. Journal of Aircraft, 2016, 53, 1439-1447.	1.7	29
11	On mathematical modelling of insect flight dynamics in the context of micro air vehicles. Bioinspiration and Biomimetics, 2006, 1, R26-R37.	1.5	25
12	Petiolate wings: effects on the leading-edge vortex in flapping flight. Interface Focus, 2017, 7, 20160084.	1.5	25
13	A neurofuzzy-controlled power management strategy for a series hybrid electric vehicle. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2014, 228, 1034-1050.	1.1	22
14	Infra-red signature reduction study on a small-scale jet engine. Aeronautical Journal, 2005, 109, 83-88.	1.1	18
15	The leading-edge vortex and aerodynamics of insect-based flapping-wing micro air vehicles. Aeronautical Journal, 2009, 113, 253-262.	1.1	18
16	Ground vortex formed by impinging jets in crossflow. Journal of Aircraft, 1993, 30, 872-878.	1.7	16
17	COMPUTATIONAL STUDIES OF IMPINGING JETS USING K- ϵ TURBULENCE MODELS. International Journal for Numerical Methods in Fluids, 1996, 22, 799-810.	0.9	16
18	Fuzzy Logic control strategy for Fuel Cell/Battery aerospace propulsion system. , 2008, , .		15

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19	PIV measurements in a twin-jet STOVL fountain flow. <i>Aeronautical Journal</i> , 2005, 109, 439-449.	1.1	13
20	Investigation of aerodynamics relevant to flapping-wing micro air vehicles. , 2007, , .		13
21	Scale effects on a single-element inverted wing in ground effect. <i>Aeronautical Journal</i> , 2014, 118, 797-809.	1.1	13
22	Aerodynamic characteristics of a wing-and-flap configuration in ground effect and yaw. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2016, 230, 841-854.	1.1	13
23	Effects of Scaling on High Subsonic Cavity Flow Oscillations and Control. <i>Journal of Aircraft</i> , 2014, 51, 424-433.	1.7	12
24	An Experimental and Numerical Investigation of an Open Transonic Cavity. , 2003, , .		11
25	Flow Measurements in a Short Takeoff, Vertical Landing Fountain: Parallel Jets. <i>Journal of Aircraft</i> , 2008, 45, 1736-1743.	1.7	11
26	On the near wake of a Formula One front wheel. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2013, 227, 1491-1502.	1.1	10
27	Computation of normal impinging jets in cross-flow and comparison with experiment. <i>International Journal for Numerical Methods in Fluids</i> , 1991, 13, 1225-1233.	0.9	9
28	Unsteady pressures under impinging jets in crossflows. <i>AIAA Journal</i> , 1993, 31, 2374-2375.	1.5	8
29	On the Near Wake of Rotating, 40%-Scale Champ Car Wheels. , 2002, , .		8
30	Flow Measurements in a Short Takeoff, Vertical Landing Fountain: Splayed Jets. <i>Journal of Aircraft</i> , 2009, 46, 874-882.	1.7	8
31	Formation of vortices and spanwise flow on an insect-like flapping wing throughout a flapping half cycle. <i>Aeronautical Journal</i> , 2013, 117, 471-490.	1.1	8
32	Importance of broadband noise for advanced turboprops. <i>Journal of Aircraft</i> , 1987, 24, 386-391.	1.7	7
33	Subcritical swirling flows in convergent, annular nozzles. <i>AIAA Journal</i> , 1989, 27, 184-191.	1.5	7
34	Unsteady Features of Twin-jet STOVL Ground Effects. , 2002, , .		7
35	A review of out-of-ground-effect propulsion-induced interference on STOVL aircraft. <i>Progress in Aerospace Sciences</i> , 2005, 41, 175-191.	6.3	7
36	Positive and Negative Spanwise Flow Development on an Insect-Like Rotating Wing. <i>Journal of Aircraft</i> , 2013, 50, 1321-1332.	1.7	7

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37	Force and moment measurements for a generic car model in proximity to a side wall. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2012, 226, 1352-1364.	1.1	6
38	Use of swirl for flow control in propulsion nozzles. Journal of Propulsion and Power, 1990, 6, 158-164.	1.3	5
39	Experimental investigation into transonic flows over tandem cavities. Aeronautical Journal, 2001, 105, 119-124.	1.1	5
40	Application of Particle Image Velocimetry to Transonic Cavity Flows. , 2005, , .		5
41	Intelligent power management (IPM) for transient recognition and control of PEM fuel cell / battery hybrid system. , 2009, , .		5
42	On the characteristics of a twin-jet STOVL fountain. Aeronautical Journal, 2009, 113, 139-148.	1.1	5
43	Computational investigation of cavity flow control using a passive device. Aeronautical Journal, 2012, 116, 153-174.	1.1	5
44	The Effects of Scaling on High Subsonic Cavity Flow Oscillations and Control. , 2012, , .		5
45	An Investigation of Passive Control Methods for a Large Scale Cavity Model in High Subsonic Flow. , 2013, , .		5
46	Forcing Boundary-Layer Transition on a Single-Element Wing in Ground Effect. Journal of Fluids Engineering, Transactions of the ASME, 2017, 139, .	0.8	5
47	Experimental investigation of some aspects of insect-like flapping flight aerodynamics for application to micro air vehicles. , 2010, , 215-236.		5
48	Flow Visualization and Measurements in a short take of vertical landing Fountain Flow. , 2007, , .		4
49	Computational Study of Cavity Flowfield at Transonic Speeds. , 2009, , .		4
50	Forcing Boundary-Layer Transition on an Inverted Airfoil in Ground Effect. Journal of Aircraft, 2017, 54, 2165-2172.	1.7	4
51	Multi-Mode Electric Actuator Dynamic Modelling for Missile Fin Control. Aerospace, 2017, 4, 30.	1.1	4
52	Digraph matrix reliability analysis for fault assessment for A UAV platform application. A fault-tree analysis approach. , 2008, , .		3
53	Driverless Vehicles and LIDAR: Evaluation of Possible Security Threats on the Open Road. , 2015, , .		3
54	Characteristics of Boundary-Layer Transition and Reynolds-Number Sensitivity of Three-Dimensional Wings of Varying Complexity Operating in Ground Effect. Journal of Fluids Engineering, Transactions of the ASME, 2016, 138, .	0.8	3

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55	Jet/Intake Interference in Short Take off, Vertical Landing Aircraft. Journal of Aircraft, 2001, 38, 924-931.	1.7	2
56	Aerospace energy conservation utilizing optimum methods. , 2008, , .		2
57	Fuzzy-hybrid land vehicle driveline modelling based on a moving window subtractive clustering approach. International Journal of Systems Science, 2011, 42, 303-317.	3.7	2
58	Dynamic control of fuel cell air supply system with power management. , 2011, , .		2
59	Turbulence Measurements in a Short Take-Off Vertical-Landing Fountain. Journal of Aircraft, 2013, 50, 667-670.	1.7	2
60	Statistical modelling for prediction of axis-switching in rectangular jets. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2013, 227, 1325-1337.	0.7	2
61	Kinetic energy storage using a dual-braking system for an unmanned parallel hybrid electric vehicle. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2017, 231, 1353-1373.	1.1	2
62	Spanwise Flow on an Impulsively-Started Rotating Wing at Low Reynolds Numbers. , 2009, , .		1
63	Aero-Optical Effects of a Directional Infrared Countermeasure Pod in the Transonic Regime. AIAA Journal, 2011, 49, 1551-1555.	1.5	1
64	Mathematically consistent boundary conditions and turbulence matching at block interfaces for computational aeroacoustics. International Journal of Computational Fluid Dynamics, 2011, 25, 449-468.	0.5	1
65	Control System for a PEM Fuel Cell Powered Heavy Duty Tactical Mobility Truck with Auxiliary Power Generation Capabilities. SAE International Journal of Alternative Powertrains, 2013, 2, 413-427.	0.8	1
66	On the Near-Wake of a Ground-Effect Diffuser with Passive Flow Control. International Journal of Automotive Technology, 2019, 20, 11-23.	0.7	1
67	A Study Using PIV and LDA of a Compressible STOVL Ground Vortex Flow. , 2002, , .		0
68	Design Guidelines for Flapping-Wing Micro UAVs. , 2005, , .		0
69	Sugeno Inference Perturbation Analysis for Electric Aerial Vehicles. , 0, , .		0
70	Energy Management System for Electrified Tactical Mobility Platforms. , 2014, , .		0
71	UAS Behaviour and Consistency Monitoring System for Countering Cyber Security Threats. , 0, , .		0
72	Forcing Boundary-Layer Transition on an Inverted Airfoil in Ground Effect at Varying Incidence. , 2016, , .		0

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73	An Efficiently Parallelized High-Order Aeroacoustics Solver Using a Characteristic-Based Multi-Block Interface Treatment and Optimized Compact Finite Differencing. <i>Aerospace</i> , 2017, 4, 29.	1.1	0
74	Quasi-real-time confined environment path generation for mobile robotic manipulator arms. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2018, 232, 270-284.	0.7	0
75	Passive Flow Control on a Ground-Effect Diffuser Using an Inverted Wing. <i>SAE International Journal of Passenger Cars - Mechanical Systems</i> , 2018, 11, 273-296.	0.4	0