Review of research on low-profile vortex generators to separation

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Citation Report

#	Article	IF	Citations
1	Control of Compressor Face Total Pressure Distortion on a High Bypass Turbofan Intake Using Air-Jet Vortex Generators. , 2004, , .		6
2	Active Flow Control on a Boundary-Layer-Ingesting Inlet. , 2004, , .		45
3	A Vortex Generator Model and its Application to Flow Control. , 2004, , .		17
4	Heat Transfer Enhancement From Single Vortex Generators. , 2005, , 121.		5
5	A review of recent developments in flow control. Aeronautical Journal, 2005, 109, 205-232.	1.6	111
6	The effect of streamwise vortices on the turbulence structure of a separating boundary layer. European Journal of Mechanics, B/Fluids, 2005, 24, 539-554.	2.5	28
7	Vortex-Generator Model and Its Application to Flow Control. Journal of Aircraft, 2005, 42, 1486-1491.	2.4	90
8	An Investigation of Active Flowfield Control for Inlet Shock/Boundary Layer Interaction. , 2005, , .		11
9	Influence of Sub-Boundary Layer Vortex Generators on Wall Shear Stress. , 2005, , .		1
10	Sub-Boundary Layer Vortex Generator Control of a Separated Diffuser Flow. , 2005, , .		5
11	Efficient Control of Separation Using Microjets. , 2005, , .		14
12	Management of Vortices Trailing Flapped Wings via Separation Control. , 2005, , .		15
13	Numerical Simulation on Active Separation Control of MEL001 Airfoil by MJVG. , 2005, , .		0
14	The Effect of Core Flow Turbulence on Planar Lobed-Mixer Nozzle Effectiveness. , 2006, , .		0
15	PIV Measurements of the Effect of Pitch and Skew on a Circular Orifice Synthetic Jet in a Turbulent Boundary Layer. , 2006, , .		2
16	Vortex Flowfields Due to a Single Surface Perturbation on a Forebody at a High Angle of Attack. , 2006, , .		1
17	Boundary-Layer-Ingesting Inlet Flow Control. , 2006, , .		36
18	A Tuning-free Body-Force Vortex Generator Model. , 2006, , .		7

#	Article	IF	Citations
19	Experiments in Unsteady Forcing of Mach 2 Shock Wave/Boundary Layer Interactions. , 2006, , .		12
20	Experimental study of heat transfer enhancement in a drag-reducing two-dimensional channel flow. International Journal of Heat and Mass Transfer, 2006, 49, 1462-1471.	4.8	24
21	Application of theoretical principles to swimsuit drag reduction. Sports Engineering, 2006, 9, 65-76.	1.1	24
22	Separation Control on a Trailing-Edge Flap Using Air Jet Vortex Generators. Journal of Aircraft, 2006, 43, 1589-1593.	2.4	23
23	Managing Flap Vortices via Separation Control. AIAA Journal, 2006, 44, 2755-2764.	2.6	16
24	Use of High-Speed Microjets for Active Separation Control in Diffusers. AIAA Journal, 2006, 44, 273-281.	2.6	83
25	Effect of Microvortex Generators On Seperated Normal Shock/ Boundary Layer Interactions. Journal of Aircraft, 2007, 44, 170-174.	2.4	119
26	Experimental Study of Passive Heat Transfer Enhancement in a Drag-Reducing Flow. Heat Transfer Engineering, 2007, 28, 9-18.	1.9	2
27	Experimental and numerical investigation of the performance of vortex generators on separation control. Journal of Physics: Conference Series, 2007, 75, 012030.	0.4	9
28	Heat Transfer Around Longitudinal and Parallel Arranged Wedge-Shaped Vortex Generators. , 2007, , 693.		4
29	Magnetically Driven Surface Discharges for Shock-Wave Induced Boundary-Layer Separation Control. , 2007, , .		11
30	Shock / Boundary-Layer Interaction Control Using Three-Dimensional Bumps for Transonic Wings. , 2007, , .		7
31	Flow Measurement of Synthetic Jets in a Boundary Layer. , 2007, , .		8
32	Outlook for theoretical modeling of isolated roughness-induced perturbations in turbulent boundary layers (Invited). , 2007, , .		1
33	Micro-Ramp Control for Oblique Shock Wave / Boundary Layer Interactions. , 2007, , .		26
34	Non-Thermal Control of Shock-Wave Induced Boundary Layer Separation using Magneto-Hydrodynamics. , 2007, , .		11
35	Dynamic Analysis of Wind Tunnel Data from an Isentropic Relaxed Compression Inlet. , 2007, , .		9
36	Instantaneous Behavior of Streamwise Vortices for Turbulent Boundary Layer Separation Control. Journal of Fluids Engineering, Transactions of the ASME, 2007, 129, 226-235.	1.5	40

#	Article	IF	Citations
37	Pulsed Air-jet Actuators for Flow Separation Control. Flow, Turbulence and Combustion, 2007, 78, 255-281.	2.6	35
38	Towards the Design of Synthetic-jet Actuators for Full-scale Flight Conditions. Flow, Turbulence and Combustion, 2007, 78, 283-307.	2.6	83
39	SBLI control for wings and inlets. Shock Waves, 2008, 18, 89-96.	1.9	89
40	Passive flow control of bileaflet mechanical heart valve leakage flow. Journal of Biomechanics, 2008, 41, 1166-1173.	2.1	27
41	Numerical study of passive and active flow separation control over a NACA0012 airfoil. Computers and Fluids, 2008, 37, 975-992.	2.5	92
42	Non-Linear Modulation of a Boundary Layer Induced by Vortex Generators. , 2008, , .		6
43	Shockwave Induced Turbulent Boundary Layer Separation Control with Plasma Actuators. , 2008, , .		7
44	Numerical Study of Shockwave Induced Boundary Layer Separation Control using Plasma Actuators. , 2008, , .		6
45	Broadband Noise Reduction on a mini-UAV Propeller. , 2008, , .		26
46	RANS and Hybrid LES/RANS Simulation of the Effects of Micro Vortex Generators Using Immersed Boundary Methods. , 2008, , .		23
47	Flow Separation Control With Vortex Generators. , 2008, , .		5
48	Effect of Vibrational Mode Excitation of N2 in Plasma Actuators on Shockwave Induced Boundary Layer Separation Control.. , 2008, , .		0
49	Shock / Boundary-Layer Interaction Control Using Three-Dimensional Bumps in Supersonic Engine Inlets. , 2008, , .		12
50	Unsteady Normal Shock Wave Boundary Layer Interactions with Control. , 2008, , .		2
51	Passive Control of Compressible Dynamic Stall. , 2008, , .		25
52	CFD Results for an Axisymmetric Isentropic Relaxed Compression Inlet. , 2008, , .		7
53	Control of Flow Over a Bluff Body. Annual Review of Fluid Mechanics, 2008, 40, 113-139.	25.0	769
54	Shock-Wave/Boundary-Layer Interaction Control Using Three-Dimensional Bumps for Transonic Wings. AIAA Journal, 2008, 46, 1442-1452.	2.6	109

#	Article	IF	Citations
55	A Parametric Study of Passive Flow Control for a Short, High Area Ratio 90deg Curved Diffuser. Journal of Fluids Engineering, Transactions of the ASME, 2008, 130, .	1.5	41
56	Aerodynamics of Scaled Runback Ice Accretions. Journal of Aircraft, 2008, 45, 591-603.	2.4	9
57	Aerodynamics of Scaled Runback Ice Accretions. Journal of Aircraft, 2008, 45, 1076-1088.	2.4	9
58	Boundary-Layer-Ingesting Inlet Flow Control. Journal of Aircraft, 2008, 45, 1431-1440.	2.4	64
59	Control of a separating boundary layer with Lorentz force actuators. Physics of Fluids, 2008, 20, .	4.0	4
60	Flow analysis of vortex generators on wing sections by stereoscopic particle image velocimetry measurements. Environmental Research Letters, 2008, 3, 015006.	5.2	38
61	On the relation between centrifugal force and radial pressure gradient in flow inside curved and S-shaped ducts. Physics of Fluids, 2008, 20, .	4.0	20
62	Comment on â€œHow Bumps on Whale Flippers Delay Stall: An Aerodynamic Modelâ€• Physical Review Letters, 2008, 101, 109401; author reply 109402.	7.8	4
63	Analysis of Passive Wake Mixing Techniques Using Time Resolved Digital Particle Image Velocimetry. , 2008, , .		0
64	Self-Sustaining Process through Streak Generation in a Flat-Plate Boundary Layer. Physical Review Letters, 2009, 103, 144502.	7.8	26
65	Effect of Submerged Vortex Generators on Shock-Induced Separation in Supersonic Flow. Journal of Aircraft, 2009, 46, 856-863.	2.4	9
66	Toward Understanding and Optimizing Separation Control Using Microjets. AIAA Journal, 2009, 47, 2544-2557.	2.6	48
67	Microramp Control of Supersonic Oblique Shock-Wave/Boundary-Layer Interactions. AIAA Journal, 2009, 47, 668-675.	2.6	274
68	Experimental Study of the Flow Induced by a Sinusoidal Dielectric Barrier Discharge Actuator and Its Effects on a Flat Plate Natural Boundary Layer. Journal of Fluids Engineering, Transactions of the ASME, 2009, 131, .	1.5	10
69	An Experimental Study on the Influence of Vortex Generators on the Shock-Induced Boundary Layer Separation at M=1.4. Journal of Applied Mechanics, Transactions ASME, 2009, 76, .	2.2	1
70	Flow Physics of a Race Car Wing With Vortex Generators in Ground Effect. Journal of Fluids Engineering, Transactions of the ASME, 2009, 131, .	1.5	13
73	Effects of micro-ramps on a shock wave/turbulent boundary layer interaction. Shock Waves, 2009, 19, 507-520.	1.9	118
74	Separation control by vortex generator devices in a transonic channel flow. Shock Waves, 2009, 19, 521-530.	1.9	61

#	Article	IF	Citations
75	The flow structure behind vortex generators embedded in a decelerating turbulent boundary layer. Journal of Turbulence, 2009, 10, N42.	1.4	9
76	Numerical study of boundary layer separation control using magnetogasdynamic plasma actuators. Physics of Fluids, 2009, 21, .	4.0	26
77	Streamwise evolution of longitudinal vortices in a turbulent boundary layer. Journal of Fluid Mechanics, 2009, 623, 27-58.	3.4	61
78	Shockwave Induced Turbulent Boundary Layer Separation Control with Plasma Actuators. , 2009, , .		5
79	Cavity Flow Characterization of the Bristled Shark Skin Microgeometry. , 2009, , .		0
80	Statistical modelling of the influence of turbulent flow separation control devices. , 2009, , .		7
81	Behaviour of unsteady transonic shock/boundary layer interactions with three-dimensional effects. , 2009, , .		5
82	Optimal Surrogate Modelling Approaches for Combining Experimental and Computational Fluid Dynamics Datasets. , 2009, , .		1
83	Effects of Micro-Ramps on a Shock Wave/Turbulent Boundary Layer Interaction. , 2009, , .		3
84	Controlled Streamwise Vorticity in Diffuser Boundary Layer Using Hybrid Synthetic Jet Actuation. , 2009, , .		16
85	Meander of a Fin Trailing Vortex Measured using Particle Image Velocimetry. , 2009, , .		3
86	Fundamental Challenges of Micro-Vanes and Micro-Ramps for High-Speed Inlet Applications: A Computational Fluid Dynamics Investigation. , 2009, , .		2
87	Experimental Investigation of the Application of Microramp Flow Control to an Oblique Shock Interaction. , 2009, , .		11
88	Flow Separation Control on a Race Car Wing With Vortex Generators in Ground Effect. Journal of Fluids Engineering, Transactions of the ASME, 2009, 131, .	1.5	19
89	Helical structure of longitudinal vortices embedded in turbulent wall-bounded flow. Journal of Fluid Mechanics, 2009, 619, 167-177.	3.4	48
90	Surface oil flow visualization. European Physical Journal: Special Topics, 2010, 182, 51-63.	2.6	30
91	Drag and lift reduction of a 3D bluff-body using active vortex generators. Experiments in Fluids, 2010, 48, 771-789.	2.4	86
92	An experimental investigation into the effect of vortex generators on the near-wake flow of a circular cylinder. Experiments in Fluids, 2010, 48, 1059-1079.	2.4	54

#	Article	IF	Citations
93	Meander of a fin trailing vortex and the origin of its turbulence. Experiments in Fluids, 2010, 49, 599-611.	2.4	42
94	Effect of air jet vortex generators on a shock wave boundary layer interaction. Experiments in Fluids, 2010, 49, 1053-1064.	2.4	93
95	Drag reduction of a 3D bluff body using coherent streamwise streaks. Experiments in Fluids, 2010, 49, 1085-1094.	2.4	92
96	Study of control effects of vortex generators on a supercritical wing. Science China Technological Sciences, 2010, 53, 2038-2048.	4.0	10
97	On the robustness of separation control by streamwise vortices. European Journal of Mechanics, B/Fluids, 2010, 29, 9-17.	2.5	16
98	An overview of active load control techniques for wind turbines with an emphasis on microtabs. Wind Energy, 2010, 13, 239-253.	4.2	126
99	The Application of Low-Profile Vortex Generators in an Intermediate Turbine Diffuser. , 2010, , .		1
100	Evaluation of active flow control applied to wind turbine blade section. Journal of Renewable and Sustainable Energy, 2010, 2, .	2.0	34
101	Numerical Simulations of Effects of Micro Vortex Generators Using Immersed-Boundary Methods. AIAA Journal, 2010, 48, 92-103.	2.6	97
102	VGs for a Normal SBLI with a Downstream Diffuser. , 2010, , .		11
103	Numerical Simulation of the Effects of Mesoflaps in Controlling Shock / Boundary Layer Interactions. , 2010, , .		1
104	Manipulation of Streamwise Vorticity in an Emulated Diffuser Boundary Layer Using Hybrid Flow Control. , 2010, , .		6
105	Microramp Flow Control for Oblique Shock Interactions: Comparisons of Computational and Experimental Data. , 2010, , .		2
106	An improved passive vortex generator model for flow separation control. , 2010, , .		4
107	LES for Supersonic Ramp Control Flow Using MVG at M=2.5 and Re?=1440. , 2010, , .		37
108	Velocity Measurements in Synthetic Jet Using Magnetically Driven Surface Discharges. , 2010, , .		0
109	Large-eddy simulations of control of a separated flow over a 2D bump by means of pulsed jets. Journal of Turbulence, 2010, 11, N52.	1.4	6
110	Multifidelity Surrogate Modeling of Experimental and Computational Aerodynamic Data Sets. AIAA Journal, 2011, 49, 289-298.	2.6	110

#	Article	IF	Citations
111	Review Paper on Wind Turbine Aerodynamics. Journal of Fluids Engineering, Transactions of the ASME, 2011, 133, .	1.5	69
112	New Seeding and Surface Treatment Methods for Particle Image Velocimetry. , 2011, , .		4
113	Dynamics of Hybrid Flow Control in a Boundary-Layer-Ingesting Offset Diffuser. , 2011, , .		4
114	Review of Micro Vortex Generators in High-Speed Flow. , 2011, , .		18
115	Interaction of Microvortex Generator Flow with Ramp-Induced Shock/Boundary-Layer Interactions. , 2011, , .		7
116	Numerical Investigation of Oblique Shock-Wave/Turbulent Boundary-Layer Interaction Control Using Plasma Actuators. , 2011, , .		0
117	Experiments on the Influence of a Microramp Array on a Hypersonic Shock Turbulent Boundary Layer Interaction. , 2011, , .		11
118	Distortion Management in a BLI Inlet Diffuser using Synthetic-Jet Hybrid Flow Control. , 2011, , .		9
119	Characterization of Micro-Vortex Generators in Supersonic Flows. , 2011, , .		18
120	Numerical Investigation of Shock-wave/Boundary-Layer Interaction Control Using Plasma Actuators. , 2011, , .		4
121	Evaluation of a Vortex Generator Model in Adverse Pressure Gradient Boundary Layers. AIAA Journal, 2011, 49, 982-993.	2.6	20
122	Near Wall Measurements in a Separating Turbulent Boundary LayerÂwithÂandÂwithoutÂPassive Flow Control. ERCOFTAC Series, 2011, , 151-159.	0.1	0
123	Influence of approach flow conditions on heat transfer behind vortex generators. International Journal of Heat and Mass Transfer, 2011, 54, 279-287.	4.8	32
124	Shark Skin Separation Control Mechanisms. Marine Technology Society Journal, 2011, 45, 208-215.	0.4	54
125	Surface Flow and PSP Measurements in the Large-Scale Low-Boom Inlet (Invited). , 2011, , .		1
126	Aerofoil flow separation suppression using dimples. Aeronautical Journal, 2011, 115, 335-344.	1.6	13
127	Steady longitudinal vortices in supersonic turbulent separated flows. Journal of Fluid Mechanics, 2011, 672, 451-476.	3.4	19
128	Transient growth of coherent streaks for control of turbulent flow separation. International Journal of Aerodynamics, 2011, 1, 318.	0.1	3

#	Article	IF	Citations
129	Study of Separation Control of Vortex Generators on Transonic Wings. Journal of Fluid Science and Technology, 2011, 6, 85-97.	0.6	10
130	Transonic Shock Wave???Boundary-Layer Interactions. , 2011, , 87-136.		12
131	Experimental and Numerical Investigation of the Effects of Passive Vortex Generators on Aludra UAV Performance. Chinese Journal of Aeronautics, 2011, 24, 577-583.	5.3	38
132	Turbulent boundary layer separation control and loss evaluation of low profile vortex generators. Experimental Thermal and Fluid Science, 2011, 35, 1505-1513.	2.7	21
133	Shockwaveâ€“turbulent boundary layer interaction control using magnetically driven surface discharges. Experiments in Fluids, 2011, 50, 547-559.	2.4	35
134	Flow and heat transfer characteristics behind vortex generators â€“ A benchmark dataset. International Journal of Heat and Fluid Flow, 2011, 32, 318-328.	2.4	46
135	Research on the aerodynamics of intermediate turbine diffusers. Progress in Aerospace Sciences, 2011, 47, 249-279.	12.1	61
136	Implicit LES for Supersonic Microramp Vortex Generator: New Discoveries and New Mechanisms. Modelling and Simulation in Engineering, 2011, 2011, 1-15.	0.7	18
137	Effect of Vortex Generators on the Flow Around a Circular Cylinder: Computational Investigation with Two-Equation Turbulence Models. Engineering Applications of Computational Fluid Mechanics, 2011, 5, 99-116.	3.1	15
138	Performance Variations of Leading-Edge Tubercles for Distinct Airfoil Profiles. AIAA Journal, 2011, 49, 185-194.	2.6	295
139	Three Techniques to Control Flow Separation in an S-Shaped Duct. AIAA Journal, 2011, 49, 1825-1832.	2.6	21
140	Numerical Investigation of Shock Buffet on an OAT15A Airfoil and Control Effects of Vortex Generators. , 2012, , .		6
141	A Parametric Investigation of Plasma Streamwise Vortex Generator Performance. , 2012, , .		12
142	Control of a Shock-Wave/Boundary-Layer Interaction and Subsequent Subsonic Diffuser Using a Combination of Vortex Generators and Bleed. , 2012, , .		7
143	The three-dimensional flow organization past a micro-ramp in a supersonic boundary layer. Physics of Fluids, 2012, 24, .	4.0	57
144	Experimental investigation of the micro-ramp based shock wave and turbulent boundary layer interaction control. Physics of Fluids, 2012, 24, .	4.0	68
145	Control of separated flow in a reflected shock interaction using a magnetically-accelerated surface discharge. Physics of Fluids, 2012, 24, .	4.0	20
146	Numerical Simulation of the Effects of Mesoflaps in Controlling Shock/Boundary-Layer Interactions. Journal of Propulsion and Power, 2012, 28, 955-970.	2.2	23

#	Article	IF	Citations
147	The Application of Low-Profile Vortex Generators in an Intermediate Turbine Diffuser. Journal of Turbomachinery, 2012, 134, .	1.7	12
148	Vortex Generators for Wind Turbine Blades: A Combined Wind Tunnel and Wind Turbine Parametric Study. , 2012, , .		36
149	Surface-Flow Visualization and Pressure-Sensitive Paint Measurements in the Large-Scale Low-Boom Inlet. Journal of Propulsion and Power, 2012, 28, 1243-1257.	2.2	5
150	Micro-Ramps in Mach 5 Hypersonic Flow. , 2012, , .		3
151	Effect of Microjet Spacing on the Control of a Highly Separated Flowfield. , 2012, , .		3
152	Flow Control in an Aggressive Inter-Turbine Duct Using Low Profile Vortex Generators. , 2012, , .		2
153	Instability of secondary vortices generated by a vortex pair in ground effect. Journal of Fluid Mechanics, 2012, 700, 148-186.	3.4	31
154	Experimental Analysis of the Turbulent Flow Behavior of a Textured Surface Proposed for Asymmetric Heat Exchangers. Flow, Turbulence and Combustion, 2012, 89, 149-169.	2.6	19
155	Measurement of surface shear stress vector distribution using shear-sensitive liquid crystal coatings. Acta Mechanica Sinica/Lixue Xuebao, 2012, 28, 1261-1270.	3.4	7
156	Dynamic Stall Control Using Deployable Leading-Edge Vortex Generators. AIAA Journal, 2012, 50, 2135-2145.	2.6	68
157	Evaluation and Parameterization of Round Vortex Generator Jet Experiments for Flow Control. AIAA Journal, 2012, 50, 2508-2524.	2.6	13
158	Shockwave/Boundary-Layer Interaction Control on a Compression Ramp Using Steady Micro Jets. AIAA Journal, 2012, 50, 2753-2764.	2.6	59
159	Microvortex generators in high-speed flow. Progress in Aerospace Sciences, 2012, 53, 30-45.	12.1	98
160	Vortex-Generator Models for Zero- and Adverse-Pressure-Gradient Flows. AIAA Journal, 2012, 50, 855-866.	2.6	13
161	Micro-Ramps for Hypersonic Flow Control. Micromachines, 2012, 3, 364-378.	2.9	47
162	Experimental Study of Boundary Layer Flow Control Using an Array of Ramp-Shaped Vortex Generators. , 2012, , .		3
163	Blade sections for wind turbine and tidal current turbine applications-current status and future challenges. International Journal of Energy Research, 2012, 36, 829-844.	4.5	56
164	Investigation of micro vortex generators on controlling flow separation over SCCH high-lift configuration. Science China Technological Sciences, 2012, 55, 1943-1953.	4.0	5

#	Article	IF	Citations
165	Review of actuators for high speed active flow control. Science China Technological Sciences, 2012, 55, 2225-2240.	4.0	50
166	A Karman-Vortex Generator for passive separation control in a conical diffuser. Science China: Physics, Mechanics and Astronomy, 2012, 55, 828-836.	5.1	14
167	Control of shock unsteadiness in shock boundary-layer interaction on a compression corner using mechanical vortex generators. Shock Waves, 2012, 22, 327-339.	1.9	37
168	Numerical investigation of a jet-and-vortex-actuator without and with cross-flow boundary layer. International Journal of Heat and Fluid Flow, 2012, 33, 35-44.	2.4	0
169	Imaging of the Space-time Structure of a Vortex Generator in Supersonic Flow. Chinese Journal of Aeronautics, 2012, 25, 57-63.	5.3	6
170	Simulation of shock wave buffet and its suppression on an OAT15A supercritical airfoil by IDDES. Science China: Physics, Mechanics and Astronomy, 2012, 55, 260-271.	5.1	59
171	Sensitivity of an asymmetric 3D diffuser to vortex-generator induced inlet condition perturbations. Experiments in Fluids, 2012, 52, 11-21.	2.4	12
172	Dielectric-barrier-discharge vortex generators: characterisation and optimisation for flow separation control. Experiments in Fluids, 2012, 52, 329-345.	2.4	74
173	Investigation of flow behind vortex generators by stereo particle image velocimetry on a thick airfoil near stall. Wind Energy, 2013, 16, 775-785.	4.2	37
174	Study on the initial evolution of ring-like vortices generated by MVG. CEAS Aeronautical Journal, 2013, 4, 433-442.	1.7	10
175	Recent developments in DBD plasma flow control. Progress in Aerospace Sciences, 2013, 62, 52-78.	12.1	366
176	Aerodynamic Control of Low-Reynolds-Number Airfoil with Leading-Edge Protuberances. AIAA Journal, 2013, 51, 1960-1971.	2.6	108
177	Separation control and efficiency improvement in a 2D diffuser by means of contoured cavities. European Journal of Mechanics, B/Fluids, 2013, 41, 138-149.	2.5	23
178	Plasma Control of a Turbulent Shock Boundary-Layer Interaction. AIAA Journal, 2013, 51, 1789-1804.	2.6	80
179	Open and closed-loop experiments to identify the separated flow dynamics of a thick turbulent boundary layer. Experiments in Fluids, 2013, 54, 1.	2.4	18
180	Further Examination of the Mechanism of Round Synthetic Jets in Delaying Turbulent Flow Separation. Flow, Turbulence and Combustion, 2013, 91, 177-208.	2.6	26
181	Study on shock wave-vortex ring interaction by the micro vortex generator controlled ramp flow with turbulent inflow. Aerospace Science and Technology, 2013, 30, 226-231.	4.8	28
182	Dielectric Barrier Discharge-Induced Vortex Generation With Discharge-Actuated Boundary Layer Bleed. IEEE Transactions on Plasma Science, 2013, 41, 3245-3253.	1.3	0

#	Article	IF	Citations
183	On the formation of streamwise vortices by plasma vortex generators. Journal of Fluid Mechanics, 2013, 733, 370-393.	3.4	80
184	Aerodynamic technologies to improve aircraft performance. Aerospace Science and Technology, 2013, 28, 100-132.	4.8	165
185	Vortical Interactions Behind Deployable Vortex Generator for Airfoil Static Stall Control. AIAA Journal, 2013, 51, 240-252.	2.6	11
186	Effects of Vortex Generator Application on the Performance of a Compressor Cascade. Journal of Turbomachinery, 2013, 135, .	1.7	72
187	Control of Shock Boundary Layer Interaction Using Pulsed Plasma Jets. , 2013, , .		6
188	Active Shock Control in a Transonic Flow. , 2013, , .		2
189	The Effect of Micro-ramps on Supersonic Flow over a Forward-Facing Step. Chinese Physics Letters, 2013, 30, 044701.	3.3	9
190	Investigation of Passive Flow Control Techniques to Enhance the Stall Characteristics of a Microlight Aircraft. International Journal of Flow Control, 2013, 5, 215-242.	0.4	2
191	Experimental Study on Airfoil Circulation Control using Plasma Actuators. , 2013, , .		3
192	Shear Layer Stability Analysis in Later Boundary Layer Transition and MVG controlled flow. , 2013, , .		7
193	The Validation of a Generalized Aerodynamic Model for a Multi-Body Bio-Inspired Wing. , 2013, , .		1
194	Further Investigation on Shock Wave -Vortex Ring Interaction by the MVG Controlled Ramp Flow. , 2013, , .		2
195	Numerical and Experimental Investigations of the Flow behind a Supersonic Micro-Ramp. , 2013, , .		3
196	Fluidic Control of Transonic Shock-Induced Separation. , 2013, , .		7
197	Effect of Longitudinal Ridges on the Aerodynamic Characteristics of an Airfoil. , 2013, , .		1
198	Origin of Ring-like Vortices in the MVG Controlled Turbulent Boundary Layer. , 2013, , .		1
199	Experimental Studies of Active and Passive Flow Control Techniques Applied in a Twin Air-Intake. Scientific World Journal, The, 2013, 2013, 1-8.	2.1	14
200	An Investigation on Fundamental Characteristics of Excited Synthetic Jet Actuator Under Cavity and Diaphragm Resonances. Procedia Engineering, 2014, 79, 35-44.	1.2	5

#	Article	IF	Citations
201	Quasi-streamwise counter-rotating vortices generated by convergent riblets in flat plate boundary layer. Journal of Visualization, 2014, 17, 319-325.	1.8	8
202	Flow Separation Control Using Plasma Vortex Generator. Procedia Engineering, 2014, 90, 232-237.	1.2	3
203	Vortex Generators Contribution to the Enhancement of the Aerodynamic Performances. Advanced Materials Research, 0, 950, 268-274.	0.3	1
204	Flow Control in an Aggressive Interturbine Transition Duct Using Low Profile Vortex Generators. Journal of Engineering for Gas Turbines and Power, 2014, 136, .	1.1	13
205	Numerical Investigation on the Effect of Vortex Generator on Axial Compressor Performance. , 2014, , .		3
206	Fully-Resolved Lattice-Boltzmann Simulation of Vane-Type Vortex Generators. , 2014, , .		12
207	Secondary Flow Control on Axial Flow Compressor Cascade Using Vortex Generators. , 2014, , .		5
208	A Novel Vortex Generator for Mitigation of Shock-Induced Separation. , 2014, , .		3
209	Energy and fluid transportation in turbulent boundary-layer under the micro-ramp control. , 2014, , .		2
210	Flow Separation Control Over a Ramp Using Sweeping Jet Actuators. , 2014, , .		23
211	Study on the ring-like vortical structure in MVG controlled supersonic ramp flow with different inflow conditions. Aerospace Science and Technology, 2014, 35, 106-115.	4.8	19
212	Control of the turbulent flow in a plane diffuser through optimized contoured cavities. European Journal of Mechanics, B/Fluids, 2014, 48, 254-265.	2.5	20
213	Effect of Microramps on Separated Swept Shock Waveâ€“Boundary-Layer Interactions. AIAA Journal, 2014, 52, 591-603.	2.6	19
214	Experimental study of flow separation control on a low-Re airfoil using leading-edge protuberance method. Experiments in Fluids, 2014, 55, 1.	2.4	63
215	On the efficiency of active flow control with pneumatic jets at Mach numbers between 0.3 and 0.7. Experiments in Fluids, 2014, 55, 1.	2.4	2
216	Decay of the supersonic turbulent wakes from micro-ramps. Physics of Fluids, 2014, 26, .	4.0	36
217	Streakline-based closed-loop control of a bluff body flow. Physics of Fluids, 2014, 26, 047102.	4.0	5
218	Distortion Management in a Boundary Layer Ingestion Inlet Diffuser Using Hybrid Flow Control. Journal of Propulsion and Power, 2014, 30, 834-844.	2.2	26

#	Article	IF	Citations
219	Flow control of an oblique shock wave reflection with micro-ramp vortex generators: Effects of location and size. Physics of Fluids, 2014, 26, .	4.0	73
220	Movable shark scales act as a passive dynamic micro-roughness to control flow separation. Bioinspiration and Biomimetics, 2014, 9, 036017.	2.9	40
221	Dynamics of flow control in an emulated boundary layer-ingesting offset diffuser. Experiments in Fluids, 2014, 55, 1.	2.4	7
222	Numerical and Experimental Investigations of the Supersonic Microramp Wake. AIAA Journal, 2014, 52, 1518-1527.	2.6	22
223	LES investigation into the generation of momentum deficits in the supersonic wake of a micro-ramp. Journal of Mechanical Science and Technology, 2014, 28, 1327-1337.	1.5	5
224	Influence of circulation on a rounded-trailing-edge airfoil using plasma actuators. Experiments in Fluids, 2014, 55, 1.	2.4	23
225	LES and analyses on the vortex structure behind supersonic MVG with turbulent inflow. Applied Mathematical Modelling, 2014, 38, 196-211.	4.2	15
226	Control of Supersonic Inlet-Isolator Unstart Using Active and Passive Vortex Generators. AIAA Journal, 2014, 52, 1207-1218.	2.6	80
227	Vorticity and Turbulence Properties of Microjet Arrays for Active Flow Control. , 2014, , .		0
228	Three-dimensional aspects of cylinder drag reduction by suction and oscillatory blowing. International Journal of Heat and Fluid Flow, 2014, 45, 109-127.	2.4	30
229	Separation control on NACA 0012 airfoil using momentum and wall-normal vorticity injection. , 2014, , .		3
230	A Preliminary Study of Three-Dimensional Turbulent Flow over Vortex Generators with a Plenoptic Camera. , 2014, , .		0
231	Active Transonic Shock Control. , 2014, , .		3
232	Experimental Investigation of a Vortex-Generator-Controlled Intermediate Turbine Duct under the Influence of Rotating Wakes. , 2014, , .		0
233	Interaction of streamwise vortex pair induced by counter type plasma jet with flow past a circular cylinder. Journal of Fluid Science and Technology, 2014, 9, JFST0050-JFST0050.	0.6	1
234	Assessment of the CFD capabilities to predict aerodynamic flows in presence of VG arrays. Journal of Physics: Conference Series, 2014, 524, 012029.	0.4	9
235	Self-Similarity and helical symmetry in vortex generator flow simulations. Journal of Physics: Conference Series, 2014, 555, 012036.	0.4	2
236	Separation Control of a Generic Airfoil using Longitudinal Ridges. International Journal of Flow Control, 2015, 7, 87-98.	0.4	0

#	Article	IF	Citations
237	Grid Topology Study of the S-duct Inlet with Vortex Generators. , 2015, , .		1
238	Passive Flow Control in Boundary Layer Ingesting Semi Submerged Inlet. , 2015, , .		1
239	A numerical study of oscillating sub-boundary layer vortex generators application. AIP Conference Proceedings, 2015, , .	0.4	0
240	Transition control of Mach to regular reflection induced interaction using an array of micro ramp vane-type vortex generators. Physics of Fluids, 2015, 27, .	4.0	21
241	Suppression of vortex shedding from a pantograph head using vortex generator-type plasma actuators. Journal of Fluid Science and Technology, 2015, 10, JFST0006-JFST0006.	0.6	6
242	Effect of a New Vortex Generator on the Performance of an Axial Compressor Cascade at Design and Off-Design Conditions. , 2015, , .		5
243	Numerical investigation on wind turbine vortex generators employing transition models. Journal of Renewable and Sustainable Energy, 2015, 7, .	2.0	9
244	Interaction between a vortex generator and a synthetic jet in a crossflow. Physics of Fluids, 2015, 27, .	4.0	13
245	LES Study on Mechanism of Reduction of Shock Induced Flow Separation by MVG. , 2015, , .		6
246	On generating counter-rotating streamwise vortices. IOP Conference Series: Materials Science and Engineering, 2015, 88, 012001.	0.6	2
247	Numerical Investigation of Streamwise Vortex Interaction. , 0, , .		1
248	Effects of vortex generator on junction flow. , 2015, , .		1
249	The Effects of Sweeping Jet Actuator Parameters on Flow Separation Control. , 2015, , .		18
250	Numerical Analysis on Axial Compressor Stage Performance With Vortex Generators. , 2015, , .		3
251	Experimental and Numerical Research on Aerodynamic Characteristics of Rectangular Fin Mounted Vertically over the Wing. , 2015, , .		0
252	Effects of a Vortex Generator Pair on Jet Impingement Heat Transfer in Cross-Flow. , 2015, , .		5
253	Control of Shock/Boundary-Layer Interaction for Hypersonic Inlets by Highly Swept Microramps. Journal of Propulsion and Power, 2015, 31, 133-143.	2.2	29
254	Heat and fluid flow characteristics of a rectangular channel with a small diameter circular cylinder as vortex generator. International Journal of Thermal Sciences, 2015, 92, 1-13.	4.9	27

#	Article	IF	Citations
255	Adaptive Vortex Generator Structures for the Reduction of Turbulent Separation. , 2015, , .		2
256	Simulation of a MW rotor equipped with vortex generators using CFD and an actuator shape model. , 2015, , .		11
257	Micro-vortex generators for shock wave/boundary layer interactions. Progress in Aerospace Sciences, 2015, 74, 16-47.	12.1	103
258	Control of mean separation in shock boundary layer interaction using pulsed plasma jets. Shock Waves, 2015, 25, 495-505.	1.9	67
259	The Function of the Alula in Avian Flight. Scientific Reports, 2015, 5, 9914.	3.3	42
260	Effect of Pulsed Plasma Jets on Boundary Layer Recovery Downstream of a Reflected Shock Wave-Boundary Layer Interaction. , 2015, , .		4
261	Surface vorticity flux analysis in separation control on NACA 0012 airfoil. , 2015, , .		1
262	Flow Control in a Mach 4.0 Inlet by Slotted Wedge-shaped Vortex Generators. , 2015, , .		1
263	The effects of Mach and Reynolds number on the flow mixing properties of micro-ramp vortex generators in a supersonic boundary layer. , 2015, , .		3
264	Experimental investigation of the flow past passive vortex generators on an airfoil experiencing three-dimensional separation. Journal of Wind Engineering and Industrial Aerodynamics, 2015, 142, 130-148.	3.9	76
265	A review of the use of vortex generators for mitigating shock-induced separation. Shock Waves, 2015, 25, 473-494.	1.9	70
266	Evaluation of Vortex Generators for Separation Control in a Transcritical Cylinder Flow. AIAA Journal, 2015, 53, 2967-2977.	2.6	9
267	A novel control of jet impingement heat transfer in cross-flow by a vortex generator pair. International Journal of Heat and Mass Transfer, 2015, 88, 82-90.	4.8	43
268	Smart control of a horizontal axis wind turbine using dielectric barrier discharge plasma actuators. Renewable Energy, 2015, 80, 644-654.	8.9	32
269	Helicopter drag reduction by vortex generators. Aerospace Science and Technology, 2015, 47, 324-339.	4.8	22
270	Optimization of MVG Position for Control of Shock Boundary Layer Interaction. , 2015, , .		1
271	Experimental Study on the Effect of Vortex Generator on the Aerodynamic Characteristics of NASA LS-0417 Airfoil. Applied Mechanics and Materials, 0, 758, 63-69.	0.2	4
272	Mechanism of Vorticity Generation in Plasma Streamwise Vortex Generators. AIAA Journal, 2015, 53, 3404-3413.	2.6	29

#	Article	IF	Citations
273	An improved micro-vortex generator in supersonic flows. Aerospace Science and Technology, 2015, 47, 210-215.	4.8	27
274	Feedback flow control of a low-Re airfoil by flap actuators. Journal of Fluids and Structures, 2015, 58, 319-330.	3.4	6
275	An experimental study on flow separation control of hydrofoils with leading-edge tubercles at low Reynolds number. Ocean Engineering, 2015, 108, 336-349.	4.3	111
276	Towards integral boundary layer modelling of vane-type vortex generators. , 2015, , .		6
277	Effect of endwall vortex generator jets on flow separation control in a linear compressor cascade. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2015, 229, 2221-2230.	1.3	13
278	Parametric studying of low-profile vortex generators flow control in an aggressive inter-turbine duct. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2015, 229, 849-861.	1.4	2
279	Fluid Redistribution in the Turbulent Boundary Layer Under the Microramp Control. AIAA Journal, 2015, 53, 3777-3787.	2.6	13
280	Effects of vortex generators on a blunt trailing-edge airfoil for wind turbines. Renewable Energy, 2015, 76, 303-311.	8.9	107
281	Control of shock-wave boundary layer interaction using steady micro-jets. Shock Waves, 2015, 25, 535-543.	1.9	28
282	Micro vortex generator control of axisymmetric high-speed laminar boundary layer separation. Shock Waves, 2015, 25, 521-533.	1.9	22
283	Enhancing the Performance of an Axial Compressor Cascade using Vortex Generators. Journal of Aeronautics & Aerospace Engineering, 2016, 05, .	0.1	1
284	Jet flow control at the blade scale to manipulate lift. Journal of Physics: Conference Series, 2016, 753, 022031.	0.4	5
285	INVESTIGATION OF CHARACTERISTICS OF SHEAR LAYER: APPLICATION OF SYNTHETIC JET IN BACKWARD-FACING STEP FLOW FIELD. Transactions of the Canadian Society for Mechanical Engineering, 2016, 40, 787-797.	0.8	2
286	Robustness and Limits of Vortex Generator Effectiveness in Helicopter Drag Reduction. Journal of the American Helicopter Society, 2016, 61, 1-7.	0.8	3
287	Testing of selfâ€similarity and helical symmetry in vortex generator flow simulations. Wind Energy, 2016, 19, 1043-1052.	4.2	37
288	Mach and Reynolds Number Effects on the Wake Properties of Microramps. AIAA Journal, 2016, 54, 3481-3494.	2.6	7
289	Computing the flow past Vortex Generators: Comparison between RANS Simulations and Experiments. Journal of Physics: Conference Series, 2016, 753, 022014.	0.4	8
290	Numerical research on effect of transition on aerodynamic performance of wind turbine blade with vortex generators. Journal of Renewable and Sustainable Energy, 2016, 8, .	2.0	13

#	Article	IF	Citations
291	Simulations of wind turbine rotor with vortex generators. Journal of Physics: Conference Series, 2016, 753, 022057.	0.4	25
292	Energy Harvesting from Vortex Induced Vibrations Using Vented Cylinders Mounted on Light Rail Locomotive. , 2016, , .		2
293	Streamwise vortex generator for separation reduction on wind turbine profile. Journal of Physics: Conference Series, 2016, 760, 012018.	0.4	7
294	Boundary layer transition mechanisms behind a micro-ramp. Journal of Fluid Mechanics, 2016, 793, 132-161.	3.4	36
295	Influence of vortex generator on cylindrical protrusion aerodynamics at various Mach numbers. Aerospace Science and Technology, 2016, 58, 267-274.	4.8	6
296	LARGE-EDDY SIMULATION OF SHOCK-WAVE/TURBULENT BOUNDARY LAYER INTERACTION AND ITS CONTROL USING SPARKJET. International Journal of Modern Physics Conference Series, 2016, 42, 1660186.	0.7	1
297	Improvement of Wind Turbine Blade Performance by Means of Rod Vortex Generators. , 2016, , 81-102.		1
298	The Use of Vortex Generators to Reduce the Aerodynamic Drag of Athletic Apparel. Procedia Engineering, 2016, 147, 20-25.	1.2	6
299	Formation of vortices on a tubercled wing, and their effects on drag. Aerospace Science and Technology, 2016, 56, 46-55.	4.8	32
300	Novel Vortex Generator for Mitigation of Shock-Induced Flow Separation. Journal of Propulsion and Power, 2016, 32, 1264-1274.	2.2	19
301	Nonlinear Adaptive Approach to Microjet-Based Flow Separation Control. AIAA Journal, 2016, 54, 3002-3014.	2.6	6
302	Design and Scaling of Plasma Streamwise Vortex Generators for Flow Separation Control. AIAA Journal, 2016, 54, 3397-3408.	2.6	15
303	ILES for mechanism of ramp-type MVG reducing shock induced flow separation. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	5.1	13
304	Novel design of delta winglet pair vortex generator for heat transfer enhancement. International Journal of Thermal Sciences, 2016, 109, 1-9.	4.9	97
305	Waste Energy for Life Cycle Assessment. Green Energy and Technology, 2016, , .	0.6	5
306	Comparison of vortex generators effect on shock wave induced separation. , 2016, , .		3
307	An Aerodynamic Model for Vane-Type Vortex Generators. , 2016, , .		1
308	Large-eddy simulation of shock-wave/turbulent boundary layer interaction with and without SparkJet control. Chinese Journal of Aeronautics, 2016, 29, 617-629.	5.3	19

#	Article	IF	Citations
309	Flow separation over a backward-facing ramp with and without a vortex generator. , 2016, , .		8
310	Unconventional Energy Sources. Green Energy and Technology, 2016, , 71-122.	0.6	1
311	Numerical investigation of aerodynamic flow actuation produced by surface plasma actuator on 2D oscillating airfoil. Chinese Journal of Aeronautics, 2016, 29, 882-892.	5.3	15
312	Experimental investigation of asymmetric steamwise vortices in a turbulent boundary layer. , 2016, , .		0
313	Large-Eddy Simulation of Shock-Induced Flow Separation Control Using SparkJet Concept. , 2016, , .		3
314	LES Analysis on Shock-Vortex Ring Interaction. , 2016, , .		3
315	Evaluation of Miniature Vortex Generators for Flow Control in Falkner-Skan Boundary Layers. , 2016, , .		0
316	Application of a Passive Flow Control Device on Helicopter Rotor Blades. Journal of the American Helicopter Society, 2016, 61, 1-13.	0.8	6
317	Design optimization of the aerodynamic passive flow control on NACA 4415 airfoil using vortex generators. European Journal of Mechanics, B/Fluids, 2016, 56, 82-96.	2.5	66
318	Effects of vortex generators on the jet impingement heat transfer at different cross-flow Reynolds numbers. International Journal of Heat and Mass Transfer, 2016, 96, 278-286.	4.8	47
319	Closed-loop separation control over a sharp edge ramp using genetic programming. Experiments in Fluids, 2016, 57, 1.	2.4	41
320	Effects of tip injection on the performance and near wake characteristics of a model wind turbine rotor. Renewable Energy, 2016, 88, 73-82.	8.9	6
321	Multiple vortex structures in the wake of a rectangular winglet in ground effect. Experimental Thermal and Fluid Science, 2016, 72, 31-39.	2.7	33
322	Methods to control dynamic stall for wind turbine applications. Renewable Energy, 2016, 86, 26-37.	8.9	71
323	Development of pre-set counter-rotating streamwise vortices in wavy channel. Experimental Thermal and Fluid Science, 2016, 71, 77-85.	2.7	8
324	Tubercles and Their Applications. Journal of Aerospace Engineering, 2016, 29, .	1.4	41
325	Numerical study of micro-ramp vortex generator for supersonic ramp flow control at Mach 2.5. Shock Waves, 2017, 27, 79-96.	1.9	29
326	Miniature Vortex Generators for Flow Control in Falknerâ€“Skan Boundary Layers. AIAA Journal, 2017, 55, 352-364.	2.6	4

#	Article	IF	Citations
327	The Wingtip Vortex of a Dimpled Wing With an Endplate. Journal of Fluids Engineering, Transactions of the ASME, 2017, 139, .	1.5	3
328	Comparison of Sweeping Jet Actuators with Different Flow-Control Techniques for Flow-Separation Control. AIAA Journal, 2017, 55, 848-860.	2.6	48
329	Aerodynamics of nominally circular cylinders: A review of experimental results for Civil Engineering applications. Engineering Structures, 2017, 137, 76-114.	5.3	66
330	Numerical Investigation on the Oblique Shock and High-speed Vortex Rings Interaction. , 2017, , .		0
331	Particle Swarm Optimization with Surrogate Modelling for Passive Vortex Generators. , 2017, , .		1
332	Separation Control over a NACA0015 Airfoil Using Nanosecond Pulsed Plasma Actuator. , 2017, , .		4
333	Spanwise modulation effects of local body force on downstream turbulence growth around two-dimensional hump. International Journal of Heat and Fluid Flow, 2017, 63, 108-118.	2.4	6
334	Separation control over a grooved surface inspired by dolphin skin. Bioinspiration and Biomimetics, 2017, 12, 026005.	2.9	33
335	Supersonic flow over rounded contour bumps with vortex generators or passive longitudinal jets. Experimental Thermal and Fluid Science, 2017, 85, 213-228.	2.7	7
336	Computational characterization of the vortex generated by a Vortex Generator on a flat plate for different vane angles. Aerospace Science and Technology, 2017, 65, 18-25.	4.8	33
337	Influence of single rectangular groove on the flow past a circular cylinder. International Journal of Heat and Fluid Flow, 2017, 64, 79-88.	2.4	26
338	Optimization of wind power generation using shaking energy. Energy Sources, Part B: Economics, Planning and Policy, 2017, 12, 326-331.	3.4	2
339	Adaptive Surrogate-Based Optimization of Vortex Generators for Tiltrotor Geometry. Journal of Aircraft, 2017, 54, 1011-1024.	2.4	15
340	Characterization of Tab-Induced Counter-Rotating Vortex Pair for Mixing Applications. Journal of Fluids Engineering, Transactions of the ASME, 2017, 139, .	1.5	6
341	Development of streamwise counter-rotating vortices in flat plate boundary layer pre-set by leading edge patterns. Experimental Thermal and Fluid Science, 2017, 86, 168-179.	2.7	4
342	Flow Control in Mach 4.0 Inlet by Slotted Wedge-Shaped Vortex Generators. Journal of Propulsion and Power, 2017, 33, 1428-1438.	2.2	12
343	CFD Studies on Triangular Micro-Vortex Generators in Flow Control. IOP Conference Series: Materials Science and Engineering, 2017, 184, 012007.	0.6	2
344	Introduction and Literature Survey. , 2017, , 3-19.		0

#	Article	IF	Citations
345	Drag reduction by herringbone riblet texture in direct numerical simulations of turbulent channel flow. Journal of Turbulence, 2017, 18, 717-759.	1.4	42
346	Assessment of Various Low-Profile Mechanical Vortex Generators in Controlling a Shock-Induced Separation. AIAA Journal, 2017, 55, 2228-2240.	2.6	36
347	Plasma Actuator with Arc Breakdown in a Magnetic Field for Active Flow Control Applications. , 2017, , .		8
348	Parametric study of low-profile vortex generators. International Journal of Hydrogen Energy, 2017, 42, 17700-17712.	7.1	46
349	Effectiveness of Side Force Models for Flow Simulations Downstream of Vortex Generators. AIAA Journal, 2017, 55, 1373-1384.	2.6	8
350	Experimental study of laminar and turbulent boundary layer separation control of shark skin. Bioinspiration and Biomimetics, 2017, 12, 016009.	2.9	25
351	Numerical simulation of vortex generators on a winglet control surface. Aerospace Science and Technology, 2017, 71, 651-660.	4.8	12
352	Optimal Position of Rectangular Vortex Generator for Heat Transfer Enhancement in a Flat-Plate Channel. , 2017, , .		2
353	Reduction of Pressure Losses in a Linear Cascade Using Herringbone Riblets. , 2017, , .		3
354	Passive flow control of a stalled airfoil using a microcylinder. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 170, 256-273.	3.9	41
355	The effects of Mach number on the flow separation control of airfoil with a small plate near the leading edge. Computers and Fluids, 2017, 156, 274-282.	2.5	17
356	Study on Vortex Generators for Control of Attached Cavitation. , 2017, , .		1
357	Application of Sweeping Jet Actuators on the NASA Hump Model and Comparison with CFDVAL2004 Experiments. , 2017, , .		8
358	Supersonic Flow Control of Swept Shock Wave / Turbulent Boundary Layer Interactions using Plasma Actuators. , 2017, , .		3
359	Parametric study of fluid flow manipulation with piezoelectric macrofiber composite flaps. Proceedings of SPIE, 2017, , .	0.8	0
360	Mini-Spoilers for Afterbody Base Drag Reduction. , 2017, , .		1
361	Flow Control Using Passive Vortex Generators. , 2017, , .		3
362	Vortex Control through Forebody Strakes and Vortex Generators. , 2017, , .		0

#	Article	IF	Citations
363	Flow-Control Effectiveness of Convergent Surface Indentations on an Aerofoil at Low Reynolds Numbers. , 2017, , .		0
364	Flow control on the NREL S809 wind turbine airfoil using vortex generators. Energy, 2017, 118, 1210-1221.	8.8	104
365	Turbulent heat transfer and nanofluid flow in a triangular duct with vortex generators. International Journal of Heat and Mass Transfer, 2017, 105, 495-504.	4.8	38
366	Experimental Investigation of Three-Dimensional Vortex Structures Downstream of Vortex Generators Over a Backward-Facing Step. Flow, Turbulence and Combustion, 2017, 98, 389-415.	2.6	14
367	A numerical study on efficient recovery of fine-grained minerals with vortex generators in pipe flow unit of a cyclonic-static micro bubble flotation column. Chemical Engineering Science, 2017, 158, 304-313.	3.8	30
368	Experimental investigation on flow improvement in compressor cascades. International Journal of Energy Research, 2017, 41, 526-539.	4.5	6
369	Five Megawatt Wind Turbine Power Output Improvements by Passive Flow Control Devices. Energies, 2017, 10, 742.	3.1	51
370	Fuel Diffusion Immediately behind a Finite-Width Wedge within Supersonic Boundary Layer. Aerospace Technology Japan the Japan Society for Aeronautical and Space Sciences, 2017, 16, 19-25.	0.1	0
371	CFD Simulations of a Finned Projectile with Microflaps for Flow Control. International Journal of Aerospace Engineering, 2017, 2017, 1-15.	0.9	6
372	Experimental study on mitigating vortex-induced vibration of a bridge by using passive vortex generators. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 175, 100-110.	3.9	23
373	Vortices enable the complex aerobatics of peregrine falcons. Communications Biology, 2018, 1, 27.	4.4	10
374	A review of Backward-Facing Step (BFS) flow mechanisms, heat transfer and control. Thermal Science and Engineering Progress, 2018, 6, 194-216.	2.7	136
375	Design method of internal waverider inlet under non-uniform upstream for inlet/forebody integration. Aerospace Science and Technology, 2018, 74, 160-172.	4.8	32
376	Control of Incident Shock-Induced Separation Using Vane-Type Vortex-Generating Devices. AIAA Journal, 2018, 56, 1600-1615.	2.6	27
377	CFD Investigation of Vortex Generator Additions to the General Atomics MQ-9 Reaper. , 2018, , .		1
378	Shark skin-inspired designs that improve aerodynamic performance. Journal of the Royal Society Interface, 2018, 15, 20170828.	3.4	112
379	Adjoint-based optimization of a source-term representation of vortex generators. Computers and Fluids, 2018, 162, 139-151.	2.5	6
380	Control of flow separation around an airfoil at low Reynolds numbers using periodic surface morphing. Journal of Fluids and Structures, 2018, 76, 536-557.	3.4	34

#	Article	IF	Citations
381	On Reynolds number dependence of micro-ramp-induced transition. Journal of Fluid Mechanics, 2018, 837, 597-626.	3.4	15
382	The Drag Reducing Effort of Vortex Generators on Tractor-Trailer Vehicles. , 2018, , .		2
383	Computational Investigation of Nominally-Orthogonal Pneumatic Active Flow Control for High-Lift Systems. , 2018, , .		7
384	A Numerical and Experimental Investigation of Flow Separation Control over a Wall-Mounted Hump Model. , 2018, , .		3
385	Development of a Plasma Actuator with Arc Breakdown in a Magnetic Field. , 2018, , .		5
386	Effects of Wall-Normal and Angular Momentum Injections in Airfoil Separation Control. AIAA Journal, 2018, 56, 1830-1842.	2.6	16
387	Direct numerical simulation of turbulent channel flow with spanwise alternatively distributed strips control. Modern Physics Letters B, 2018, 32, 1840004.	1.9	1
388	Flow Separation Control over a NACA 0015 Airfoil Using Nanosecond-Pulsed Plasma Actuator. AIAA Journal, 2018, 56, 2220-2234.	2.6	17
389	The potential of hybrid micro-vortex generators to control flow separation of NACA 4415 airfoil in subsonic flow. AIP Conference Proceedings, 2018, , .	0.4	3
390	Control of low Reynolds number flow around an airfoil using periodic surface morphing: A numerical study. Journal of Fluids and Structures, 2018, 76, 95-115.	3.4	32
391	Visualization of separated shear layer streaks generated by micro vortex generators based on tomographic PIV. Journal of Visualization, 2018, 21, 185-190.	1.8	3
392	Secondary wake instability of a bridge model and its application in wake control. Computers and Fluids, 2018, 160, 108-119.	2.5	10
393	Investigation on aerodynamic performance of horizontal axis wind turbine by setting micro-cylinder in front of the blade leading edge. Energy, 2018, 143, 1107-1124.	8.8	50
394	Two-Step Stall Characteristic of an Airfoil with a Single Leading-Edge Protuberance. AIAA Journal, 2018, 56, 64-77.	2.6	19
395	Effects of Sweeping Jet Actuator Parameters on Flow Separation Control. AIAA Journal, 2018, 56, 100-110.	2.6	40
396	Vortex Generators in a Two-Dimensional External-Compression Supersonic Inlet. Journal of Propulsion and Power, 2018, 34, 521-538.	2.2	14
397	Quasi-radial wall jets as a new concept in boundary layer flow control. Journal of Turbulence, 2018, 19, 25-48.	1.4	0
398	Control of a Mach reflection-induced interaction using an array of vane-type vortex generators. Shock Waves, 2018, 28, 815-828.	1.9	6

#	Article	IF	Citations
399	Optimal Configuration of Vortex Generator for Heat Transfer Enhancement in a Plate-Fin Channel. Journal of Thermal Science and Engineering Applications, 2018, 10, .	1.5	18
400	Improved State Space Model Using Iterative PSO for Unsteady Aerodynamic System at High AOA. International Journal of Cognitive Informatics and Natural Intelligence, 2018, 12, 1-17.	0.4	0
401	Computational Modelling of Three Different Sub-Boundary Layer Vortex Generators on a Flat Plate. Energies, 2018, 11, 3107.	3.1	20
402	Microfiber Coating for Drag Reduction by Flocking Technology. Coatings, 2018, 8, 464.	2.6	11
403	Microvane in controlling noise in open cavity flow. IOP Conference Series: Materials Science and Engineering, 2018, 370, 012016.	0.6	1
404	A Development and Assessment of Variable-Incidence Angle Vortex Generator at Low Reynolds Number of ~â€‰5Ã—104. International Journal of Aeronautical and Space Sciences, 2018, 19, 836-842.	2.0	5
405	Control of turbulent boundary layer by plasma-based actuator. AIP Conference Proceedings, 2018, , .	0.4	1
407	Vortex Generator. , 2018, , 48-64.		1
408	CFD Simulation of a Finned Smart Bullet with Microactuator. Journal of Physics: Conference Series, 2018, 1064, 012021.	0.4	4
409	On ramped vanes to control normal shock boundary layer interactions. Aeronautical Journal, 2018, 122, 1568-1585.	1.6	15
410	The need for prediction in feedback control of a mixing layer. Fluid Dynamics Research, 2018, 50, 065514.	1.3	8
411	UAV flight test of plasma slats and ailerons with microsecond dielectric barrier discharge. Chinese Physics B, 2018, 27, 105205.	1.4	11
412	A review of flow control techniques and optimisation in s-shaped ducts. International Journal of Heat and Fluid Flow, 2018, 74, 223-235.	2.4	24
413	Configuration Studies for a Plasma Actuator Technique using Arc Breakdown in a Magnetic Field. , 2018, , .		2
414	Real-time processing methods to characterize streamwise vortices. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 179, 14-25.	3.9	3
415	Effects of synthetic jet disturbances on the movement of the shear layer. , 2018, , .		0
416	Near-Wake Flow Modulation by A Cube On A Backward-Facing Ramp. , 2018, , .		2
417	Comparison of Different Vortex Generating Devices for Flow Control on a Vertical Tail. , 2018, , .		3

#	Article	IF	Citations
418	Modulating the Near-Wall Velocity Fields in Wall-Bounded Turbulence via Discrete Surface Roughness. AIAA Journal, 2018, 56, 2642-2652.	2.6	8
419	Application of rod vortex generators for flow separation reduction on wind turbine rotor. Wind Energy, 2018, 21, 1202-1215.	4.2	25
420	Flow Control of Swept Shock-Wave/Boundary-Layer Interaction Using Plasma Actuators. Journal of Spacecraft and Rockets, 2018, 55, 1198-1207.	1.9	19
421	Computational Modelling of Rectangular Sub-Boundary Layer Vortex Generators. Applied Sciences (Switzerland), 2018, 8, 138.	2.5	27
422	Flow Control Methods and Their Applicability in Low-Reynolds-Number Centrifugal Compressorsâ€"A Review. International Journal of Turbomachinery, Propulsion and Power, 2018, 3, 2.	1.1	17
423	Experimental parameter study for passive vortex generators on a 30% thick airfoil. Wind Energy, 2018, 21, 745-765.	4.2	64
424	Simulations of shock wave/turbulent boundary layer interaction with upstream micro vortex generators. International Journal of Heat and Fluid Flow, 2018, 72, 73-85.	2.4	34
425	Wake Instability Behind Low-Profile â€œConvergent Ribletâ€•Vortex Generators in Incompressible Laminar Flow. AIAA Journal, 2018, 56, 3008-3023.	2.6	1
426	Drag Reduction by Manipulation of Afterbody Vortices. Journal of Aircraft, 2018, 55, 2380-2391.	2.4	10
427	Effects of modified micro-vortex generators on aerodynamic performance in a high-load compressor cascade. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2019, 233, 309-323.	1.4	10
428	Numerical Simulation Study on Aeroacoustic Characteristics within Deformable Cavities. Shock and Vibration, 2019, 2019, 1-8.	0.6	1
429	A numerical study on controlling flow separation via surface morphing in the form of backward traveling waves. , 2019, , .		8
430	Control of Compression-Ramp-Induced Interaction with Steady Microjets. AIAA Journal, 2019, 57, 2892-2904.	2.6	38
431	Introduction to the Flow Control Virtual Collection. AIAA Journal, 2019, 57, 3111-3114.	2.6	18
432	Reducing flow separation of an inclined plate via travelling waves. Journal of Fluid Mechanics, 2019, 880, 831-863.	3.4	28
433	The discovery and prediction of vortex flow aerodynamics. Aeronautical Journal, 2019, 123, 729-804.	1.6	27
434	Dynamic stall control of the wind turbine airfoil via single-row and double-row passive vortex generators. Energy, 2019, 189, 116272.	8.8	52
435	Influence of microcylinders with different vibration laws on the flow control effect of a horizontal axis wind turbine. Wind Energy, 2019, 22, 1800-1824.	4.2	5

#	Article	IF	Citations
436	Laminar Boundary Layer Scaling Over a Conformal Vortex Generator. , 2019, , .		2
437	Wake control using spanwise-varying vortex generators on bridge decks: AÂcomputational study. Journal of Wind Engineering and Industrial Aerodynamics, 2019, 184, 185-197.	3.9	21
438	Effects of Installation Conditions of Fluidic Oscillators on Control of Flow Separation. AIAA Journal, 2019, 57, 5208-5219.	2.6	17
439	Parametric study of vane-type vortex generators under adverse pressure gradient by source term modelling in OpenFOAM. Journal of Physics: Conference Series, 2019, 1222, 012031.	0.4	1
440	Suppression of the Hydrodynamic Noise Induced by the Horseshoe Vortex through Mechanical Vortex Generators. Applied Sciences (Switzerland), 2019, 9, 737.	2.5	2
441	Study of combined flow control strategies based on a quantitative analysis in a high-load compressor cascade. Aerospace Science and Technology, 2019, 93, 105346.	4.8	12
442	Effect of acicular vortex generators on the aerodynamic features of a slender delta wing. Aerospace Science and Technology, 2019, 86, 327-340.	4.8	16
443	Strategies to reduce the risk of side wind induced accident on heavy truck. Journal of Fluids and Structures, 2019, 88, 331-351.	3.4	13
444	A triangular vortex generator modeling on a DU97-W-300 airfoil by a source term model. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2019, 233, 635-645.	1.4	5
445	Computational Characterization of a Rectangular Vortex Generator on a Flat Plate for Different Vane Heights and Angles. Applied Sciences (Switzerland), 2019, 9, 995.	2.5	5
446	Experimental Studies on Micro-Vortex Generator Controlled Shock/Boundary-Layer Interactions in Mach 2.2 Intake. International Journal of Aeronautical and Space Sciences, 2019, 20, 584-595.	2.0	15
447	Streamwise vortex generation by the rod. Chinese Journal of Aeronautics, 2019, 32, 1903-1911.	5.3	8
448	Improvement of performance of S1210 hydrofoil with vortex generators and modified trailing edge. Renewable Energy, 2019, 142, 643-657.	8.9	34
449	Improvement in wing performance using a wing with sinusoidal leading edge (The effect of the wing) Tj ETQq1 1 0.784314 rgBT /Ove	1.0	2
450	Hypersonic wavecatcher intakes and variable-geometry turbine based combined cycle engines. Progress in Aerospace Sciences, 2019, 106, 108-144.	12.1	47
451	Numerical Investigation of Passive Vortex Generators on a Wind Turbine Airfoil Undergoing Pitch Oscillations. Energies, 2019, 12, 654.	3.1	19
452	Numerical/experimental investigations on reducing drag penalty of passive vortex generators on a NACA 4415 airfoil. Wind Energy, 2019, 22, 1003-1017.	4.2	8
453	Efficient Design Method for Applying Vortex Generators in Turbomachinery. Journal of Turbomachinery, 2019, 141, .	1.7	18

#	Article	IF	Citations
454	Source Term Modelling of Vane-Type Vortex Generators under Adverse Pressure Gradient in OpenFOAM. Energies, 2019, 12, 605.	3.1	11
455	Experimental and Numerical Analysis of the Effect of Vortex Generator Height on Vortex Characteristics and Airfoil Aerodynamic Performance. Energies, 2019, 12, 959.	3.1	25
456	Investigation of pre-stall flow control on wind turbine blade airfoil using roughness element. Energy, 2019, 176, 320-334.	8.8	68
457	Improved performance of a slotted blade using a novel slot design. Journal of Wind Engineering and Industrial Aerodynamics, 2019, 189, 34-44.	3.9	28
458	Control effect of micro vortex generators on leading edge of attached cavitation. Physics of Fluids, 2019, 31, .	4.0	36
459	Drag Reduction of a Passenger Car Using Flow Control Techniques. International Journal of Automotive Technology, 2019, 20, 397-410.	1.4	12
460	Effect of velocity ratio on the interaction between plasma synthetic jets and turbulent cross-flow. Journal of Fluid Mechanics, 2019, 865, 928-962.	3.4	22
461	Microfiber Coating for Flow Control over a Blunt Surface. Coatings, 2019, 9, 664.	2.6	7
462	Circuit Studies for Cyclotronic Plasma Actuators. , 2019, , .		3
463	Adaptive flow control laws: A simulation based comparison with low order models. , 2019, , .		0
464	Understanding the dependence of turbulent flow modulation on the spacing between adjacent cubes on a backward-facing ramp. , 2019, , .		0
465	Direct numerical simulation of effects of a micro-ramp on a hypersonic shock wave/boundary layer interaction. Physics of Fluids, 2019, 31, .	4.0	24
466	Analysis of the Effect of Vortex Generator Spacing on Boundary Layer Flow Separation Control. Applied Sciences (Switzerland), 2019, 9, 5495.	2.5	16
467	Experimental and Numerical Analysis of the Effect of Vortex Generator Installation Angle on Flow Separation Control. Energies, 2019, 12, 4583.	3.1	11
468	Suppression of transonic buffet with plasma vortex generators. Thermophysics and Aeromechanics, 2019, 26, 465-480.	0.5	12
469	Reduction of Pressure Gradient and Turbulence Using Vortex Generators in Prosthetic Heart Valves. Annals of Biomedical Engineering, 2019, 47, 85-96.	2.5	19
470	A complementary numerical and experimental study of the influence of Reynolds number on theoretical models for wingtip vortices. Computers and Fluids, 2019, 180, 176-189.	2.5	13
471	Large-eddy simulation of shock-wave/boundary-layer interaction control using a backward facing step. Aerospace Science and Technology, 2019, 84, 1011-1019.	4.8	27

#	Article	IF	Citations
472	Turbulent structures in a statistically three-dimensional boundary layer. Journal of Fluid Mechanics, 2019, 859, 543-565.	3.4	40
473	Flow separation control over a rounded ramp with spanwise alternating wall actuation. Physics of Fluids, 2019, 31, .	4.0	12
474	Towards a Vortex Generator Model for Integral Boundary Layer Methods. , 2019, , .		0
475	POD Study on vortex Structures in MVG wake. , 2019, , .		2
476	Scaling Studies of Cyclotronic Plasma Actuators for Active Flow Control Applications. , 2019, , .		3
477	Investigation of Wake Survey over a Wing with Conformal Vortex Generators. , 2019, , .		2
478	Effect of Jet Spacing in Separation Control with Air Jet Vortex Generators. , 2019, , .		1
479	Computational Investigation of the Conformal Vortex Generator. , 2019, , .		4
480	Analysis of source term modeling of vortex generator. , 2019, , .		0
481	Source term model for rod vortex generator. Aircraft Engineering and Aerospace Technology, 2019, 91, 1169-1179.	1.2	1
482	Influence of shock waves on supersonic transpiration cooling. International Journal of Heat and Mass Transfer, 2019, 129, 965-974.	4.8	23
483	Influence of multi-wall separation control on normal-shock-induced separation in supersonic duct flows. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 3184-3192.	1.3	8
484	Three-Dimensional Wake of Nonconventional Vortex Generators. AIAA Journal, 2019, 57, 949-961.	2.6	3
485	Noise reduction by feedback rotary oscillation of a three-dimensional circular cylinder. Journal of Fluids and Structures, 2019, 84, 421-439.	3.4	8
486	Heat transfer enhancement in panel type radiators using delta-wing vortex generators. International Journal of Thermal Sciences, 2019, 137, 64-74.	4.9	30
487	Impact of an oscillating guide vane on the thermo-hydraulic fields in a square cavity with single inlet and outlet ports. International Journal of Heat and Mass Transfer, 2019, 128, 1184-1200.	4.8	8
488	Control of incident shock-induced boundary-layer separation using steady micro-jet actuators at Mâˆžâ€‰=â€‰3.5. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 1284-1306.	1.3	8
489	Revisiting the assumptions and implementation details of the BAY model for vortex generator flows. Renewable Energy, 2020, 146, 1249-1261.	8.9	15

#	Article	IF	Citations
490	Transitional Flow Dynamics Behind a Micro-Ramp. Flow, Turbulence and Combustion, 2020, 104, 533-552.	2.6	10
491	A vortex pair in ground effect, dynamics and optimal control. Journal of Fluid Mechanics, 2020, 885, .	3.4	6
492	Separation Control by Plasma Actuators: Effects of Direct Momentum Injection and Vortex Generation. Flow, Turbulence and Combustion, 2020, 104, 895-926.	2.6	3
493	Noise reduction technologies for aircraft landing gear-A bibliographic review. Progress in Aerospace Sciences, 2020, 112, 100589.	12.1	33
494	Algorithmic-driven design of shark denticle bioinspired structures for superior aerodynamic properties. Bioinspiration and Biomimetics, 2020, 15, 026001.	2.9	19
495	The influence of edge undulation on vortex formation for low-aspect-ratio propulsors. Journal of Fluid Mechanics, 2020, 883, .	3.4	3
496	Optimization of a Fluidic Vortex Generatorâ€™s Control in a Transonic Channel Flow. AIAA Journal, 2020, 58, 5216-5227.	2.6	3
497	Flow separation control in a conical diffuser with a Karman-vortex generator. Aerospace Science and Technology, 2020, 106, 106076.	4.8	16
498	Effect of Vortex Generators on NREL Wind Turbine: Aerodynamic Performance and Far-Field Noise. Journal of Physics: Conference Series, 2020, 1618, 052077.	0.4	3
499	Polysaccharide-stabilized oil-laden foam for enhancing oil recovery. Journal of Petroleum Science and Engineering, 2020, 195, 107597.	4.2	15
500	Aerodynamic efficacy of adding yaw-wise rotational degree of freedom to an airplane flap. Aerospace Systems, 2020, 3, 207-217.	1.4	2
501	CFD Investigation of a Mobula Birostris-Based Bionic Vortex Generator on Mitigating the Influence of Surface Roughness Sensitivity of a Wind Turbine Airfoil. IEEE Access, 2020, 8, 223889-223896.	4.2	5
502	Cell-Set Modelling for a Microtab Implementation on a DU91W(2)250 Airfoil. Energies, 2020, 13, 6723.	3.1	3
503	On the wake structure of a micro-ramp vortex generator in hypersonic flow. Physics of Fluids, 2020, 32, .	4.0	17
504	Experimental investigation of a pitch-oscillating wind turbine airfoil with vortex generators. Journal of Renewable and Sustainable Energy, 2020, 12, 063304.	2.0	9
505	An Approach to Suppress Flow Separation by Plasma Vortex Generator as a Combined Active and Passive Control Mechanism. IOP Conference Series: Materials Science and Engineering, 2020, 926, 012005.	0.6	1
506	Numerical study of passive forcing on the secondary instability of a laminar planar free shear layer. Journal of Turbulence, 2020, 21, 259-285.	1.4	1
507	Improvement of Defogging Performance of Automobile Defroster using Vortex Generators. Heat and Mass Transfer, 2020, 56, 2595-2604.	2.1	1

#	Article	IF	Citations
508	Effect of Single-Row and Double-Row Passive Vortex Generators on the Deep Dynamic Stall of a Wind Turbine Airfoil. Energies, 2020, 13, 2535.	3.1	12
509	Gas dynamics of the pulsed electric arc in the transversal magnetic field. Journal Physics D: Applied Physics, 2020, 53, 425203.	2.8	19
510	On the manipulation of flow and acoustic fields of a blunt trailing edge aerofoil by serrated leading edges. Journal of the Acoustical Society of America, 2020, 147, 3932-3947.	1.1	14
511	Control of laminar flow separation over a backward-facing rounded ramp with C-D riblets â€“ The effects of riblet height, spacing and yaw angle. International Journal of Heat and Fluid Flow, 2020, 85, 108629.	2.4	13
512	jBAY Modeling of Vane-Type Vortex Generators and Study on Airfoil Aerodynamic Performance. Energies, 2020, 13, 2423.	3.1	15
513	Towards Design of Airfoil Pressure Tap Locations for Real-Time Predictions Under Uncertainty Using Bayesian Neural Networks. , 2020, , .		2
514	Separation Control in 2-D Closed Channel Bend. , 2020, , .		0
515	Novel Parameters for the Performance Evaluations of Leading Edge Tubercles on Airfoils. , 2020, , .		2
516	Characteristics of flow modulation on a backward-facing ramp by a line array of wall-mounted cubes. , 2020, , .		0
517	Wind tunnel and flight tests of glider flow separation control by microsecond dielectric barrier discharge. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2023, 237, 4090-4099.	2.1	0
518	Unsteady flow control of a plane diffuser based on a Karman-vortex generator. AIP Advances, 2020, 10, .	1.3	3
519	Computational modelling of TRIANGULAR sub-boundary-layer vortex generators. MATEC Web of Conferences, 2020, 307, 01054.	0.2	1
520	Experimental investigation of flow and distortion mitigation by mechanical vortex generators in a coupled serpentine inlet-turbofan engine system. Chinese Journal of Aeronautics, 2020, 33, 1375-1391.	5.3	10
521	Flow analysis of the deep dynamic stall of wind turbine airfoil with single-row and double-row passive vortex generators. IOP Conference Series: Earth and Environmental Science, 2020, 463, 012118.	0.3	4
523	Wall suction & slip effect of spherical-grooved bionic metasurface for controlling the aerodynamic noise. Applied Acoustics, 2021, 171, 107537.	3.3	10
524	Investigation of leading-edge slat on aerodynamic performance of wind turbine blade. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 1329-1343.	2.1	5
525	Measurement of Drag Force Acting on a Linke Hofmann Busch Design Railway Coach Through Wind Tunnel Testing. Journal of the Institution of Engineers (India): Series C, 2021, 102, 145-155.	1.2	0
526	Analysis of inlet flow passage conditions and their influence on the performance of an axial-flow pump. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2021, 235, 733-746.	1.4	9

#	Article	IF	Citations
527	Design and analysis of micro-nano scale nested-grooved surface structure for drag reduction based on â€˜Vortex-Driven Designâ€™. European Journal of Mechanics, B/Fluids, 2021, 85, 335-350.	2.5	12
528	Aerodynamic performance enhancement of an Airfoil using trapezoidal vortex generators. Aircraft Engineering and Aerospace Technology, 2021, 93, 76-84.	1.2	4
529	Heat Transfer Enhancement and Vortex Interaction of Delta Winglet Vortex Generators with Slots. , 2021, , .		0
530	Accurate CFD Measurements of Vortex Generators Effects on a Wing Subject to Shock-Induced Separation. , 2021, , .		0
531	Performance Improvement of Turbine Blade Using Flow Control Techniques: A Review. Lecture Notes in Mechanical Engineering, 2021, , 823-828.	0.4	0
532	Normal Shock Dynamics in Internal Supersonic Flows. Lecture Notes in Mechanical Engineering, 2021, , 177-184.	0.4	0
533	Numerical Analysis of Enhanced Heat Transfer Using a Pair of Similar Porous Baffles in a Backward-Facing Step Flow. Journal of Fluid Flow, Heat and Mass Transfer, 0, , .	0.0	1
534	Design of Assisted Transonic Pressure Recovery using Passive Flow Control for Airfoil Geometries. , 2021, , .		0
535	The Role of Amplitude on Controlling Flow Separation Using Traveling Wave Morphing. , 2021, , .		4
536	Airfoil Shaped Vortex Generators applied on a Research Wind Turbine. , 2021, , .		0
537	Performance Assessment of Fluidic Oscillators Tested on the NASA Hump Model. Fluids, 2021, 6, 74.	1.7	4
538	Experimental Investigation on Effects of Elastic Agitator to Turbulence Enhancement. , 0, , .		0
539	Review of Flow-Control Devices for Wind-Turbine Performance Enhancement. Energies, 2021, 14, 1268.	3.1	31
540	Aerodynamic Characteristics of Shark Scale-Based Vortex Generators upon Symmetrical Airfoil. Energies, 2021, 14, 1808.	3.1	11
541	Microvortex Generator Controlled Shockâ€“Boundary Layer Interactions in Hypersonic Intake. Journal of Aerospace Engineering, 2021, 34, .	1.4	7
542	Control of Shock-Induced Separation of a Turbulent Boundary Layer Using Air-Jet Vortex Generators. AIAA Journal, 2021, 59, 927-939.	2.6	32
543	Flow behavior of skewed vortex generators on a backward-facing ramp. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 0, , 095441002199618.	1.3	5
544	Testing the Accuracy of the Cell-Set Model Applied on Vane-Type Sub-Boundary Layer Vortex Generators. Processes, 2021, 9, 503.	2.8	10

#	Article	IF	Citations
545	Vortex-Generating Shock Control Bumps for Robust Drag Reduction at Transonic Speeds. AIAA Journal, 2021, 59, 3900-3909.	2.6	4
546	Relation Between Geometry and Wake Characteristics of a Supersonic Microramp. AIAA Journal, 2021, 59, 4501-4513.	2.6	5
547	Numerical investigation into rotational augmentation with passive vortex generators on the NREL Phase VI blade. Energy, 2021, 223, 120089.	8.8	18
548	Microfiber coating for drag reduction on a cylinder. Journal of Fluids and Structures, 2021, 103, 103287.	3.4	5
549	Research on parametric modeling methods for vortex generators on flat plate. Journal of Renewable and Sustainable Energy, 2021, 13, .	2.0	5
550	Full-Span Topology of Trailing-Edge Separation at Different Angles of Attack. AIAA Journal, 0, , 1-12.	2.6	1
551	Influence of a Microramp Array on a Hypersonic Shock-Wave/Turbulent Boundary-Layer Interaction. AIAA Journal, 2021, 59, 1924-1939.	2.6	9
552	The Effect of Vortex Generators on Shock-Induced Boundary Layer Separation in a Transonic Convex-Corner Flow. Aerospace, 2021, 8, 157.	2.2	12
553	Turbulence Characteristics of the Flexible Circular Cylinder Agitator. Fluids, 2021, 6, 238.	1.7	5
554	Size effects of vane-type rectangular vortex generators installed on high-lift swept-back wing flap on lift force and flow fields. Experiments in Fluids, 2021, 62, 1.	2.4	4
555	Cyclist aerodynamics through time: Better, faster, stronger. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 214, 104673.	3.9	17
556	Hybrid Flow Control on Boundary Layer Ingestion Inlet. Journal of Physics: Conference Series, 2021, 1985, 012025.	0.4	0
557	Numerical Study of Drag Reduction by Conventional and Micro Vortex Generators. , 2021, , .		1
558	Off- and on-surface studies on flow development from various vortex generators configurations at Mach 2.0. Physics of Fluids, 2021, 33, .	4.0	5
559	Analysis and Robust Method for Source-Term Modeling of Vortex Generator. Journal of Aircraft, 2021, 58, 958-970.	2.4	1
560	Experimental and numerical simulations of simple frigate with suction flow control over the deck. Ocean Engineering, 2021, 236, 109464.	4.3	5
561	Numerical study on the ring-like vortex structure generated by MVG in high-speed flows with different Mach numbers. Japan Journal of Industrial and Applied Mathematics, 0, , 1.	0.9	2
562	Micro-Vortex Generators on Transonic Convex-Corner Flow. Aerospace, 2021, 8, 268.	2.2	2

#	Article	IF	Citations
563	A parametric study of the effect of leading edge spherical tubercle amplitudes on the aerodynamic performance of a 2D wind turbine airfoil at low Reynolds numbers using computational fluid dynamics. Energy Reports, 2021, 7, 4184-4196.	5.1	13
564	Effects of upstream vortex generators on the intake duct performance for a waterjet propulsion system. Ocean Engineering, 2021, 239, 109838.	4.3	4
565	Parametric Study on Influence of an Array of Air Jets on the Performance of Supersonic Air Intake by Varying the Jet Injection and Back Pressure. Journal of Aerospace Engineering, 2021, 34, .	1.4	3
566	Investigation on aerodynamic performance of horizontal axis wind turbine by setting micro-plate in front of the blade leading edge. Renewable Energy, 2021, 179, 2309-2321.	8.9	16
567	Flow control and separation delay in morphing wing aircraft using traveling wave actuation. Smart Materials and Structures, 2021, 30, 025028.	3.5	13
568	Influence of interaction strength on separation control with air-jet vortex generators. , 2021, , .		0
570	Shark Skin Boundary Layer Control. The IMA Volumes in Mathematics and Its Applications, 2012, , 139-150.	0.5	10
571	Flow Control by Hydrofoils with Leading-Edge Tubercles. , 2020, , 85-109.		2
572	Control of Boundary Layer Separation in Supersonic Flow Using Injection Through Microramps. , 2017, , 1183-1188.		2
574	Investigation of Practical Flow Control Methodologies with RANS/LES Hybrid Methods. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2010, , 41-58.	0.3	1
575	Numerical Simulation of the Turbulent Detached Flow Around a Thick Flat Plate. , 2011, , 317-323.		1
576	Shark Skin Drag Reduction. , 2015, , 1-8.		1
577	Large Eddy Simulations of Flows with Moving Boundaries. Heat and Mass Transfer, 2020, , 201-225.	0.5	8
578	Flow control based 5ÂMW wind turbine enhanced energy production for hydrogen generation cost reduction. International Journal of Hydrogen Energy, 2022, 47, 7049-7061.	7.1	9
580	Control of flow around a low Reynolds number airfoil using longitudinal strips. Physical Review Fluids, 2018, 3, .	2.5	8
581	Effects of Bio-Inspired Micro-Scale Surface Patterns on the Profile Losses in a Linear Cascade. Journal of Turbomachinery, 2019, 141, .	1.7	16
582	Numerical simulations of the flow in a converging-diverging channel with control through a spanwise slot. International Journal of Flow Control, 2010, 2, 289-310.	0.4	3
583	New Vortex Generator Design for Nozzle Internal Modification. International Journal of Aerospace Innovations, 2011, 3, 249-260.	0.2	6

#	Article	IF	Citations
584	Circular cylinder drag reduction using piezoelectric actuators. Advances in Aircraft and Spacecraft Science, 2014, 1, 27-41.	0.5	2
585	Multi-Objective Optimization of Vortex Generators Positions and Angles in Fin-Tube Compact Heat Exchanger at Low Reynolds Number Using Neural Network and Genetic Algorithm. , 2014, , .		2
586	Experimental investigation on flow characteristics of a transverse jet with an upstream vortex generator. Journal of Zhejiang University: Science A, 2020, 21, 636-651.	2.4	10
587	Analysis of external flow characteristics in two-dimensional synthetic jets under excitation produced by cavity resonance. Journal of Vibroengineering, 2016, 18, 4042-4050.	1.0	1
588	RÃ¼zgar TÃ¼rbini KanadÄ± Ãœzerindeki YÃ¼zey PÃ¼rÃ¼zlÃ¼lÃ¼ÄŸÃ¼ Etkisinin Deneysel Ä°ncelenmesi. Ã‡ukurova Ãœniversitesi MÃ¼hendislik-MimarlÄ±k FakÃ¼ltesi Dergisi, 2016, 31, 127-134.	0.1	6
590	Momentum Increase in Wall Adjacent Flow via Hexagonal Embedded Cavities. , 2010, , .		1
591	Influence of Different Inlet Flow on the Ring-like Vortex Structure in MVG Controlled Supersonic Ramp Flow. , 2014, , .		1
592	Computational Prediction of Speed Performance for a Ship with Vortex Generators. Journal of the Society of Naval Architects of Korea, 2009, 46, 136-147.	0.5	9
593	Microjet-Based Active Flow Control on a Fixed Wing UAV. Journal of Flow Control Measurement &amp Visualization, 2014, 02, 32-41.	0.1	3
594	Wake Characteristics of Vane-Type Vortex Generators in a Flat Plate Laminar Boundary Layer. International Journal of Aeronautical and Space Sciences, 2015, 16, 325-338.	2.0	2
596	Flow Separation Control on Flapped Airfoil. IOSR Journal of Engineering, 2012, 02, 137-140.	0.1	3
597	Control of Vortex-Induced Vibration of a Long-Span Bridge by Inclined Railings. Journal of Bridge Engineering, 2021, 26, .	2.9	6
598	Experimental study on mitigating extreme roof suctions by passive vortex generators. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 219, 104807.	3.9	1
599	Performance investigation of Wells turbine for wave energy conversion with stall cylinders. Ocean Engineering, 2021, 241, 110052.	4.3	7
600	The Effects of Vortex Generator Arrays on Heat Transfer and Flow Field. , 2007, , 365-380.		0
601	SBLI control for wings and inlets. , 2009, , 51-58.		1
602	Interactions between vortex generators and a flat plate boundary layer. Application to the control of separated flows.. Springer Proceedings in Physics, 2009, , 213-216.	0.2	0
603	Nozzle Forced Shock Oscillations with Wall Bump (Reynald Bur). Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2010, , 135-161.	0.3	0

#	Article	IF	Citations
604	Study into Effects of Vortex Generators on a Supercritical Wing. , 2011, , 309-314.		0
605	Flow Improvement in Rectangular Air Intake by Submerged Vortex Generators. Journal of Applied Fluid Mechanics, 2011, 4, .	0.2	5
606	CFD Simulation of the Intermediate Passage of Gas Turbine with Energy Promoters. Journal of Applied Sciences, 2012, 12, 2511-2518.	0.3	0
607	Drag Reduction of a Truck Using Append Devices and Optimization. Communications in Computer and Information Science, 2014, , 332-343.	0.5	0
608	Micro-Ramps Flow Characteristics at Mach 1.9 & 5. , 2015, , 1229-1234.		0
609	Shark Skin Drag Reduction. , 2016, , 3632-3639.		0
610	Experimental Investigation of Vortex Generators for Flow Separation Control on the Hinge Line of Leading-Edge Flap. Journal of the Japan Society for Aeronautical and Space Sciences, 2016, 64, 35-40.	0.1	0
611	Durma NoktasÄ±na YerleÅŸtirilen Bir Ã‡entiÄŸin Silindirin Ã–lÃ¼ AkÄ±ÅŸ BÃ¶lgesine Etkileri. Ã‡ukurova Ãœniversitesi MÃ¼hendislik-MimarlÄ±k FakÃ¼ltesi Dergisi, 0, , 451-458.	0.1	0
612	Fuel Diffusion Immediately behind a Finite-Width Wedge within Supersonic Boundary Layer. Aerospace Technology Japan the Japan Society for Aeronautical and Space Sciences, 2017, 16, 9-17.	0.1	0
613	STUDY OF BOUNDARY LAYER SEPARATION ON FUSELAGE DUE TO TAIL ENGINE. International Journal of Research in Engineering and Technology, 2017, 06, 26-30.	0.1	0
614	Numerical and Parametric Study of MVGs on a UAV Geometry in Subsonic Flow. Computational Methods in Applied Sciences (Springer), 2018, , 207-222.	0.3	0
615	Study and Numerical Analysis of Compressor Transition Duct. , 0, , .		0
616	Aerodynamic Improvements of Airfoils at Low Reynolds Number by Moving Surface Method. Aerospace Technology Japan the Japan Society for Aeronautical and Space Sciences, 2018, 17, 227-236.	0.1	1
618	Control of Laminar Separation Bubble using Vortex Generators. Journal of Applied Fluid Mechanics, 2019, 12, 891-905.	0.2	2
619	Near-Field Effectiveness of the Sub-Boundary Layer Vortex Generators Deployed in a Supersonic Intake. Lecture Notes in Mechanical Engineering, 2021, , 383-393.	0.4	0
620	Numerical investigation of the effects of vortex generators on the Bell A821201 airfoil. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	2
621	Tubercled Wing Flow Physics and Performance. , 2020, , 41-68.		1
622	Flow Analysis of Vortex Generators in the Shroud of a Horizontal Axis Wind Turbine. Lecture Notes in Mechanical Engineering, 2020, , 51-64.	0.4	0

#	Article	IF	Citations
623	The Effect of Flow Control on Wing-In-Ground Craft Hull-Fuselage for Improved Aerodynamics Performance. Lecture Notes in Mechanical Engineering, 2020, , 501-510.	0.4	1
624	An experimental investigation of drag and noise reduction from a circular cylinder using longitudinal grooves. Physics of Fluids, 2021, 33, .	4.0	17
625	Numerical Simulation of the Effects of Mesoflaps in Controlling Shock/Boundary-Layer Interactions. Journal of Propulsion and Power, 2012, 28, 955-970.	2.2	0
626	Surface-Flow Visualization and Pressure-Sensitive Paint Measurements in the Large-Scale Low-Boom Inlet. Journal of Propulsion and Power, 2012, 28, 1243-1257.	2.2	0
627	Experimental study on highâ€energy surface arc plasma excitation control of cylindrical detached shock wave. Contributions To Plasma Physics, 2021, 61, e202000067.	1.1	5
628	A review: Approaches for aerodynamic performance improvement of lift-type vertical axis wind turbine. Sustainable Energy Technologies and Assessments, 2022, 49, 101789.	2.7	26
629	Proper Orthogonal Decomposition Analysis of Coherent Structure in a Turbulent Flow after a Micro-vortex Generator. Applied Mathematical Modelling, 2022, 104, 140-162.	4.2	2
630	Combined effect of passive vortex generators and leading-edge roughness on dynamic stall of the wind turbine airfoil. Energy Conversion and Management, 2022, 251, 115015.	9.2	21
631	Influence of sub boundary layer vortex generator height and attack angle on cross-flows in the hub region of compressors. Chinese Journal of Aeronautics, 2022, 35, 30-44.	5.3	5
632	Flow Separation Control and Drag Reduction in an Asymmetric Diffuser Using Vortex Generators. , 2022, , .		0
633	Unsteady flow organisation of shock-wave/boundary-layer interactions controlled with air-jet vortex generators. , 2022, , .		0
634	Numerical Investigation of Aerodynamic Performance of Low Aspect Ratio Wing with Leading Edge Vortex Generators. , 2021, , .		0
635	A comprehensive review of the application of bio-inspired tubercles on the horizontal axis wind turbine blade. International Journal of Environmental Science and Technology, 2023, 20, 4695-4722.	3.5	5
636	Influence of crossflow Mach number on spanwise-inclined jet injection. , 2022, , .		2
637	A Low Cost Oscillating Membrane for Underwater Applications at Low Reynolds Numbers. Journal of Marine Science and Engineering, 2022, 10, 77.	2.6	0
638	Efficient Optimization Design of Vortex Generators in a Highly Loaded Compressor Stator. Journal of Engineering for Gas Turbines and Power, 2022, 144, .	1.1	1
639	The Influence of Modelling in Predictions of Vortex Interactions About a Generic Missile Airframe: RANS. , 2022, , .		10
640	Numerical investigation of double sided plasma vortex generator in separation control. Fluid Dynamics Research, 2022, 54, 015508.	1.3	2

#	Article	IF	Citations
641	Global pressure measurement of transonic convex corner model with vortex generators. , 2022, , .		0
642	Effect of Dynamic Variation of Shock Strength on Shockwave Boundary Layer Interaction. , 2022, , .		0
643	Numerical study on the influence of vortex generators on wind turbine aerodynamic performance considering rotational effect. Renewable Energy, 2022, 186, 730-741.	8.9	14
644	Investigation of the influence of miniature vortex generators on the large-scale motions of a turbulent boundary layer. Journal of Fluid Mechanics, 2022, 932, .	3.4	4
645	Effect of Spacing of Two Co-rotating Vortex Generators Arranged in Low-Speed Flat-Plate Boundary Layer on Its Vortices Flow. Aerospace Technology Japan the Japan Society for Aeronautical and Space Sciences, 2022, 21, 9-20.	0.1	0
646	Control of leading-edge separation on bioinspired airfoil with fluttering coverts. Physical Review E, 2022, 105, 025107.	2.1	4
647	Numerical study on adjustment of the main flow field with guide vanes in transition zone for an S-duct. Advances in Mechanical Engineering, 2022, 14, 168781402110734.	1.6	1
648	Calculation of the Strength of Vortex Currents Induced by Vortex Generators on Flat Plates and the Evaluation of Their Performance. Energies, 2022, 15, 2442.	3.1	0
649	Planar laser scattering visualization of streamwise vortex pairs in a Mach 6 flow. Chinese Journal of Aeronautics, 2023, 36, 166-177.	5.3	1
650	Design of Control-Assisted Transonic Pressure Recovery Profiles Using Vortex Generators. AIAA Journal, 2022, 60, 2207-2222.	2.6	3
651	A numerical investigation on flow past skewed vortex generators ahead of a backward facing ramp. Aerospace Science and Technology, 2022, 123, 107435.	4.8	5
652	Numerical Study on the Effect of Vortex Generators on S-Shaped Intake in Propeller Slipstream. Journal of Aerospace Engineering, 2022, 35, .	1.4	3
653	Cavitation control using passive flow control techniques. Physics of Fluids, 2021, 33, .	4.0	23
654	Controlling the Flow Separation in Heart Valves Using Vortex Generators. Annals of Biomedical Engineering, 2022, , 1.	2.5	0
655	Effects of Jet-to-Jet Spacing of Air-Jet Vortex Generators in Shock-Induced Flow-Separation Control. Flow, Turbulence and Combustion, 2022, 109, 35-64.	2.6	10
656	Researches on vortex generators applied to wind turbines: A review. Ocean Engineering, 2022, 253, 111266.	4.3	31
657	Using Vortex Generators for Flow Separation Control on Tidal Turbine Profiles and Blades. SSRN Electronic Journal, 0, , .	0.4	0
658	High-Reynolds-number wind turbine blade equipped with root spoilers â€“ PartÂ1: Unsteady aerodynamic analysis using URANS simulations. Wind Energy Science, 2022, 7, 647-657.	3.3	2

#	Article	IF	Citations
659	Experimental investigation of mini Gurney flaps in combination with vortex generators for improved wind turbine blade performance. Wind Energy Science, 2022, 7, 943-965.	3.3	3
660	On the Aerodynamic Loads and Flow Statistics of Airfoil with Deformable Vortex Generators. Physics of Fluids, 0, , .	4.0	4
661	Aerodynamic Devices to Reduce/Suppress Vortex Induced Vibrations on a Wind Turbine Tower: A Review. Journal of Physics: Conference Series, 2022, 2265, 032053.	0.4	2
662	Experimental Study on Performance of Transonic Compressor Cascade with Microgroove Polyurethane Coatings. Fluids, 2022, 7, 190.	1.7	0
663	Dependence of Mainstream Angle of Vortex Generator Arrays on Heat Transfer Enhancement in Boundary Layer Flow on Flat Plate Based on Direct Numerical Simulation. SSRN Electronic Journal, 0, , .	0.4	0
664	Active Flow Control of Supersonic Jet Using Streamwise Pulsed Blowing. AIAA Journal, 2022, 60, 5150-5164.	2.6	4
665	Fluid-structure interaction of a bio-inspired passively deployable flap for lift enhancement. Physical Review Fluids, 2022, 7, .	2.5	8
666	Metasurface zero-impedance matching mechanism for aerodynamic noise reduction. Journal of Sound and Vibration, 2022, 536, 117147.	3.9	7
667	Effect of Micro Vortex Generator Width on Vortex Characteristics. , 2022, , .		0
668	Spanwise-inclined Injection of Unsteady Jets in Supersonic Crossflow. , 2022, , .		0
669	Investigation on the adaptive control of shock wave/turbulent boundary layer interaction based on the secondary circulation jets. Acta Astronautica, 2022, 198, 233-250.	3.2	14
670	Modeling of the compartmentalization effect induced by leading-edge tubercles. Physics of Fluids, 2022, 34, .	4.0	5
671	Characteristics of boundary-layer transition driven by diverse streamwise vortices. Physics of Fluids, 2022, 34, 074113.	4.0	0
672	Fabrication and performance evaluation of full-inkjet-printed dielectric-barrier-discharge plasma actuators. Sensors and Actuators A: Physical, 2022, 344, 113751.	4.1	1
673	Current state and future trends in boundary layer control on lifting surfaces. Advances in Mechanical Engineering, 2022, 14, 168781322211121.	1.6	8
674	Experimental study of self-sustained spanwise streaks and turbulent mixing in separated shear flow. International Journal of Heat and Fluid Flow, 2022, 96, 109012.	2.4	0
675	A biomimetic design of steam turbine blade to improve aerodynamic performance. International Journal of Thermal Sciences, 2022, 181, 107782.	4.9	4
676	Modal Analysis on MVG Controlled Supersonic Flow at Different Mach Numbers. Processes, 2022, 10, 1456.	2.8	0

#	Article	IF	Citations
677	Review of passive control of flow past a circular cylinder. Journal of Visualization, 2023, 26, 1-44.	1.8	9
678	Swept Fin-Induced Shock/Boundary-Layer Separation Control Using Corotating Vortex Generators. AIAA Journal, 2022, 60, 6240-6251.	2.6	4
679	Survey of control techniques to alleviate repercussions of shock-wave and boundary-layer interactions. Advances in Aerodynamics, 2022, 4, .	2.5	3
680	Study on the Sensitivity of the Streamwise Location of MVG on SWBLI in MVG-Based Supersonic Flow Control. Fluids, 2022, 7, 285.	1.7	0
681	Control mechanism of micro vortex generator and secondary recirculation jet combination in the shock wave/boundary layer interaction. Acta Astronautica, 2022, 200, 56-76.	3.2	8
682	Dependence of mainstream angle of vortex generator arrays on heat transfer enhancement in boundary layer flow on flat plate based on direct numerical simulation. International Journal of Heat and Mass Transfer, 2022, 198, 123362.	4.8	2
683	Numerical investigation on the inhibition mechanisms of unsteady cavitating flow around stepped hydrofoils. Ocean Engineering, 2022, 265, 112540.	4.3	4
684	Effect of Dynamic Microvortex Generator on SWBLI Based on FD-06 Wind Tunnel. Journal of Aerospace Engineering, 2023, 36, .	1.4	0
685	Numerical investigation on streamwise vortex generation by plasma actuator. Physics of Fluids, 2022, 34, .	4.0	3
686	Effect of Dynamic Micro Vortex Generator on Corner Shock Wave Boundary Layer Interactions Based on DES. Lecture Notes in Electrical Engineering, 2023, , 103-114.	0.4	0
687	Efficiency Enhancement in Active Separation Control Through Optimizing the Duty Cycle of Pulsed Jets. AIAA Journal, 2022, 60, 6566-6580.	2.6	4
688	Distributed Fluidic Control Method for Alleviating Rapid Movement of Shock Train. AIAA Journal, 0, , 1-18.	2.6	0
689	Drag reduction study of a microfiber-coated cylinder. Scientific Reports, 2022, 12, .	3.3	0
690	The Aerodynamic Effect of an Alula-like Vortex Generator on a Revolving Wing. Biomimetics, 2022, 7, 128.	3.3	1
691	An experimental study regarding the effect of streamwise vorticity on trailing edge vortex induced vibrations of a hydrofoil. Journal of Sound and Vibration, 2023, 542, 117349.	3.9	2
692	Stability analysis of roughness-disturbed boundary layer controlled by wall-blowing. Physics of Fluids, 2022, 34, .	4.0	4
693	Separation Control for a Transonic Convex Corner Flow Using Ramp-Type Vortex Generators. International Journal of Aerospace Engineering, 2022, 2022, 1-9.	0.9	2
694	Study of the streamwise location of a micro vortex generator for a separation-control mechanism in supersonic flow. Physics of Fluids, 2022, 34, .	4.0	15

#	Article	IF	Citations
695	Underwater radiated noise from marine vessels: A review of noise reduction methods and technology. Ocean Engineering, 2022, 266, 112863.	4.3	21
696	Numerical study on a novel flapping-foil energy harvester with 2D vortex generator. Ocean Engineering, 2022, 266, 112415.	4.3	3
697	Direct numerical simulations of a turbulent channel flow developing over convergentâ€“divergent riblets. International Journal of Heat and Fluid Flow, 2022, 98, 109069.	2.4	4
698	DECAY OF THE TURBULENT WAKE FROM THE SUPERSONIC MICRO RAMP. , 2013, , .		0
699	Flow Structures of Wishbone Vortex Generators and Their Interactions with a Backward-Facing Ramp. Journal of Aerospace Engineering, 2023, 36, .	1.4	3
700	Effects of the height and chordwise installation of the vane-type vortex generators on the unsteady aerodynamics of a wind turbine airfoil undergoing dynamic stall. Energy, 2023, 266, 126418.	8.8	7
701	Numerical investigation of double row vortex generators. AIP Conference Proceedings, 2022, , .	0.4	0
702	An experimental investigation and flow field analysis on cycling clothing fabrics with grooved surface. Journal of Industrial Textiles, 2022, 52, 152808372211420.	2.4	0
703	Aerodynamic Effects of Knitted Wire Meshesâ€”CFD Simulations of the Flow Field and Influence on the Flow Separation of a Backward-Facing Ramp. Fluids, 2022, 7, 370.	1.7	1
704	The Wake of a Rectangular Flat Plate. Fluid Dynamics Research, 0, , .	1.3	0
705	The first and second law analyses of thermodynamics for CoFe2O4/H2O flow in a sudden expansion tube inserted elliptical dimpled fins. International Journal of Mechanical Sciences, 2023, 246, 108144.	6.7	11
706	Mechanisms of Morphing Wall Flow Control by Traveling Waves over an Airfoil. AIAA Journal, 2023, 61, 1687-1707.	2.6	2
707	Cluster-based control for net drag reduction of the fluidic pinball. Physics of Fluids, 2023, 35, .	4.0	4
708	Dynamic mode decomposition analysis of flow separation control on wind turbine airfoil using leadingâ˜edge rod. Energy, 2023, 268, 126656.	8.8	4
709	CFD analysis of flow control in compressor cascade using MVGs. International Journal of Turbo and Jet Engines, 2024, 40, s507-s515.	0.7	0
710	Validation of CFD Analysis of Steady Blowing for Control of the Unstable Pitch Break on a FlyingWing. , 2023, , .		0
711	Numerical Study of Turbulent Characteristics behind Novel Vortex Generating Structures. , 2023, , .		0
712	Numerical study on aerodynamic resistance reduction of high-speed train using vortex generator. Engineering Applications of Computational Fluid Mechanics, 2023, 17, .	3.1	11

#	Article	IF	Citations
713	Mach 3.5 Compression Corner Control using Micro-Vortex Generators. , 2023, , .		0
714	Control of SWBLI in a 24deg Compression Ramp Flow with Air-jet Vortex-generator. , 2023, , .		5
715	Effect of Interference Between Two Facing Plasma Actuators on Discharge and Flow Field. , 2023, , .		0
716	Numerical investigation of aerodynamic performance of an axial fan blade equipped with vortex generators. AIP Advances, 2023, 13, .	1.3	1
717	Structured porous blunt trailing edge with uniform and non-uniform parameters for vortex shedding noise reduction. Applied Acoustics, 2023, 206, 109302.	3.3	2
718	Development of a Low-Noise and High-Efficiency Propeller Using Divergent Riblet Surface Pattern. AIAA Journal, 2023, 61, 1876-1880.	2.6	0
719	Flow separation control and performance evaluation of an asymmetric diffuser using vortex generators. Aerospace Science and Technology, 2023, 136, 108237.	4.8	1
720	Effect of vortex generator spanwise height distribution pattern on aerodynamic characteristics of a straight wing. Advances in Aerodynamics, 2023, 5, .	2.5	1
721	Using vortex generators for flow separation control on tidal turbine profiles and blades. Renewable Energy, 2023, 205, 1025-1039.	8.9	4
722	Flow organization in the near wake of isolated and sheltered two-dimensional bar roughness elements. Physical Review Fluids, 2023, 8, .	2.5	2
723	Effects of vortex generator on the hydrodynamic characteristics of hydrofoil and horizontal axis tidal turbine. Physics of Fluids, 2023, 35, .	4.0	5
724	Comparative analysis of machine learning methods for active flow control. Journal of Fluid Mechanics, 2023, 958, .	3.4	20
725	Numerical study of microjet and heat flux effects on flow separation and heat transfer over a ramp. Physics of Fluids, 2023, 35, .	4.0	3
726	Study of Plasma-Based Vortex Generator in Supersonic Turbulent Boundary Layer. Aerospace, 2023, 10, 363.	2.2	3
727	Effective Distance for Vortex Generators in High Subsonic Flows. Aerospace, 2023, 10, 369.	2.2	1
728	GENERATION OF LONGITUDINAL VORTICES USING SURFACE CORRUGATIONS. , 2023, , .		0
730	Investigation on the influence of vortex generator on particle resuspension. Particuology, 2024, 86, 126-136.	3.6	0
731	Separation control with elliptical air-jet vortex generators. Experiments in Fluids, 2023, 64, .	2.4	3

#	Article	IF	Citations
732	Control of separation shock unsteadiness in an incident-shock-induced interaction. Shock Waves, 2023, 33, 81-97.	1.9	1
733	Investigation of the effect of hidden vortex generator-flap integrated mechanism revealed in low velocities on wind turbine blade flow. Energy Conversion and Management, 2023, 287, 117107.	9.2	2
734	Spanwise-Inclined Jets in Supersonic Crossflow: Effects of Injection Pressure and Separation-Control Effectiveness. AIAA Journal, 2023, 61, 3833-3847.	2.6	8
735	Increasing the Aerodynamic Performance of a Small Flying Wing UAV Using Passive Bio-inspired Microfibers. , 2023, , .		1
736	Forced Control of SWBLI in a 24deg Compression Ramp Flow with Air-jet Vortex-generator. , 2023, , .		1
737	Experimental Comparison of Flow Control techniques on Helicopter flight deck of Frigates. , 2023, , .		1
738	Effect of Air Jet Vortex Generators on the Shock Wave Boundary Layer Interaction of Transonic Wing. Aerospace, 2023, 10, 553.	2.2	0
739	Passive control of boundary layer flow separation on a wind turbine airfoil using vortex generators and slot. Ocean Engineering, 2023, 283, 115170.	4.3	5
740	POD analysis of the turbulent boundary layer flow downstream of miniature vortex generators. International Journal of Heat and Fluid Flow, 2023, 103, 109175.	2.4	1
741	Microramp wake impinging on canonical shock/boundary-layer interaction. Physics of Fluids, 2023, 35, .	4.0	2
742	Numerical study on the placement of vortex generator in a serpentine air intake duct. Sadhana - Academy Proceedings in Engineering Sciences, 2023, 48, .	1.3	0
743	Passive flow control in wind turbine blade by geometrical optimization of vortex generator. E3S Web of Conferences, 2023, 399, 03006.	0.5	0
744	A graph neural network-based framework to identify flow phenomena on unstructured meshes. Physics of Fluids, 2023, 35, .	4.0	7
745	Turbulent drag reduction by spanwise wall forcing. Part 1. Large-eddy simulations. Journal of Fluid Mechanics, 2023, 968, .	3.4	3
746	è^ªç©ºæ©Ÿé«˜æ€§èƒ½åŠ›å½¢æ…‹ã®CFDè§£æžã«ã‚ˆã‚‹æ¼¸è¿‘å¾Œé€€ç¿¼ã®ç©ºåŠ›å¼¾æ€§”¹å–„. Journal of the Japan Society for Aeronautical and Spac	0.1	0
747	On the drag reduction of an inclined wing via microstructures with the immersed boundary-lattice Boltzmann flux solver. Physics of Fluids, 2023, 35, .	4.0	2
748	A systematic investigation into the effect of roughness on self-propelled swimming plates. Journal of Fluid Mechanics, 2023, 971, .	3.4	0
749	Forced Injection of a Spanwise-Inclined Jet in Supersonic Crossflow. AIAA Journal, 2024, 62, 52-64.	2.6	2

#	Article	IF	Citations
750	Lattice Boltzmann modeling of backward-facing step flow controlled by a synthetic jet. Journal of Hydrodynamics, 0, , .	3.2	0
751	Sweep effects on a canonical shock wave/boundary layer interaction. International Journal of Heat and Fluid Flow, 2023, 104, 109227.	2.4	0
752	Addressing the Primary and Subharmonic Resonances of the Swing Equation. WSEAS Transactions on Applied and Theoretical Mechanics, 2023, 18, 199-215.	1.1	1
753	Simulations of Compression Ramp Shock Wave/Turbulent Boundary Layer Interaction Controlled via Steady Jets at High Reynolds Number. Aerospace, 2023, 10, 892.	2.2	0
754	Turbulent Boundary Layer Separation Control Using Magnetohydrodynamic Plasma Actuator. Aerospace, 2023, 10, 907.	2.2	0
755	On the anti-rolling performance of a train using a vortex generator array. Engineering Applications of Computational Fluid Mechanics, 2023, 17, .	3.1	0
756	Direct numerical simulation of supersonic boundary layers over a microramp: effect of the Reynolds number. Journal of Fluid Mechanics, 2023, 974, .	3.4	1
757	Effects of jet-injection-pipe length on the flow-control effectiveness of spanwise-inclined jets in supersonic crossflow. Physical Review Fluids, 2023, 8, .	2.5	2
758	Downstream influence of turbulent flow past vortex generators. Journal of Mechanics, 0, , .	1.4	0
759	Effect of aero-shaped vortex generators on NACA 4415 airfoil. Ocean Engineering, 2024, 291, 116482.	4.3	0
760	Numerical investigation of the flow over a two-dimensional square cylinder with a synthetic jet generated by different exciting signals. Journal of Visualization, 0, , .	1.8	0
761	Flow control over a circular cylinder using vortex generators: Particle image velocimetry analysis and machine-learning-based prediction of flow characteristics. Ocean Engineering, 2023, 288, 116055.	4.3	4
762	Direct numerical simulation of compression ramp shock wave/boundary layer interaction controlled by plasma actuator array. Physics of Fluids, 2023, 35, .	4.0	1
763	Evaluation of a Serrated Edge to Mitigate the Adverse Effects of a Backward-Facing Step on an Airfoil. Inventions, 2023, 8, 160.	2.5	0
765	Experimental investigation of expansive bending pipe flow separation control using a surface dielectric barrier discharge plasma actuator. Science Progress, 2023, 106, .	1.9	0
766	Flow fields around asymmetrical micro vortex generators in supersonic flow. Aerospace Science and Technology, 2024, 145, 108838.	4.8	1
767	Opportunities for Utilizing Vortex Generators on Vertical Axis Ocean Current Turbines: A Review. BIO Web of Conferences, 2024, 89, 10003.	0.2	0
768	Control of a Streamwise Vortex Using a Finite Span Synthetic Jet. , 2024, , .		0

#	Article	IF	Citations
769	Parametric study of a switchable vortex generator for load alleviation in transonic conditions. , 2024, , .		0
770	Flow Control on a Swept Wing Using Aerodynamically Shaped Vortex Generators. , 2024, , .		0
771	Perturbation, manipulation, and destruction of wall-bounded vortex structures using synthetic jets on a flat plate. , 2024, , .		0
772	Effect of protuberances on the aerodynamic performance of a wind turbine blade â€“ a review. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2024, 46, 3416-3431.	2.3	0
773	Design considerations for efficient spanwise-inclined air-jet vortex generators for separation control in supersonic and hypersonic flows. Aerospace Science and Technology, 2024, 147, 109033.	4.8	0
774	Flow control by leading edge prism cylinders for a wave energy harvesting turbine. Journal of Ocean Engineering and Marine Energy, 2024, 10, 365-382.	1.7	0
775	Effect of Pressure Distribution of NREL S809 Airfoil with Vortex Generator. Advances in Science, Technology and Innovation, 2024, , 161-168.	0.4	0
776	Active flow control for bluff body drag reduction using reinforcement learning with partial measurements. Journal of Fluid Mechanics, 2024, 981, .	3.4	0
777	Mach 3.5 Compression Corner Control Using Microvortex Generators. AIAA Journal, 2024, 62, 1731-1743.	2.6	0