

Vladimir V Golubev

List of Publications by Year in descending order

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108
papers

782
citations

840585

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677027

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109
all docs

109
docs citations

109
times ranked

217
citing authors

#	ARTICLE	IF	CITATIONS
1	ACOUSTIC“VORTICITY WAVES IN SWIRLING FLOWS. Journal of Sound and Vibration, 1998, 209, 203-222.	2.1	118
2	SOUND PROPAGATION IN AN ANNULAR DUCT WITH MEAN POTENTIAL SWIRLING FLOW. Journal of Sound and Vibration, 1996, 198, 601-616.	2.1	67
3	Application of a Nonlinear Computational Aeroacoustics Code to the Gust-Airfoil Problem. AIAA Journal, 2006, 44, 323-328.	1.5	52
4	Unsteady Swirling Flows in Annular Cascades, Part 1: Evolution of Incident Disturbances. AIAA Journal, 2000, 38, 1142-1149.	1.5	30
5	Modeling MAV Response in Gusty Urban Environment. International Journal of Micro Air Vehicles, 2012, 4, 79-92.	1.0	26
6	Experimental and Analytical Investigation of the Tonal Trailing-Edge Noise Radiated by Low Reynolds Number Aerofoils. Acoustics, 2020, 2, 293-329.	0.8	24
7	On Flow-Acoustic Resonant Interactions in Transitional Airfoils. International Journal of Aeroacoustics, 2014, 13, 1-38.	0.8	23
8	Space-Time Mapping Analysis of Airfoil Nonlinear Interaction With Unsteady Inviscid Flow. AIAA Journal, 2005, 43, 2147-2156.	1.5	21
9	Unsteady Swirling Flows in Annular Cascades, Part 2: Aerodynamic Blade Response. AIAA Journal, 2000, 38, 1150-1158.	1.5	20
10	High-Fidelity Simulations of Transitional Airfoil Interacting with Upstream Vortical Structure. , 2011, , .		19
11	Parametric Viscous Analysis of Gust Interaction with SD7003 Airfoil. , 2010, , .		17
12	Numerical Study of Transitional SD7003 Airfoil Interacting with Canonical Upstream Flow Disturbances. AIAA Journal, 2018, 56, 158-181.	1.5	17
13	High-Accuracy Low-Re Simulations of Airfoil-Gust and Airfoil-Vortex Interactions. , 2010, , .		14
14	Hybrid LES-RANS simulations of a jet impinging on a flat plate. International Journal of Aeroacoustics, 2016, 15, 535-553.	0.8	14
15	Numerical Inviscid Analysis of Nonlinear Airfoil Response to Impinging High-Intensity High-Frequency Gust. , 2004, , .		11
16	High-Accuracy Simulations of Robust LCO Control Using Synthetic Jet Actuators. , 2015, , .		11
17	Recent Advances in Acoustics of Transitional Airfoils with Feedback-Loop Interactions: A Review. Applied Sciences (Switzerland), 2021, 11, 1057.	1.3	11
18	A robust nonlinear output feedback control method for limit cycle oscillation suppression using synthetic jet actuators. Aerospace Science and Technology, 2017, 64, 16-23.	2.5	10

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19	Acoustic-vorticity modes in an annular duct with mean vortical swirling flow. , 1997, , .		9
20	Nonlinear Analysis of Airfoil High-Intensity Gust Response Using a High-Order Prefactored Compact Code. , 2002, , .		9
21	An Automated Optimal Design of a Fan Blade Using an Integrated CFD/MDO Computer Environment. Engineering Applications of Computational Fluid Mechanics, 2008, 2, 141-154.	1.5	9
22	High-Accuracy Viscous Simulations of Gust Interaction with Stationary and Pitching Wing Sections. , 2009, , .		9
23	High-Accuracy Viscous Simulation of Gust-Airfoil Nonlinear Aeroelastic Interaction. , 2009, , .		9
24	Parametric Analysis of Icing Control Using Synthetic Jet Actuators. , 2013, , .		9
25	Robust Nonlinear Regulation of Limit Cycle Oscillations in UAVs Using Synthetic Jet Actuators. Robotics, 2014, 3, 330-348.	2.1	9
26	Numerical Investigation of Tonal Trailing-Edge Noise Radiated by Low Reynolds Number Airfoils. Applied Sciences (Switzerland), 2021, 11, 2257.	1.3	9
27	Modeling Synthetic Jets for Low-Re Airfoil Unsteady Flow Control. International Journal of Emerging Multidisciplinary Fluid Sciences, 2011, 3, 145-158.	0.5	9
28	A Parametric Study of Nonlinear Gust-Airfoil Interaction. , 2006, , .		8
29	High-Accuracy Viscous Analysis of Unsteady Flexible Airfoil Response to Impinging Gust. , 2009, , .		8
30	On Interaction of Airfoil Leading and Trailing Edge Noise Sources in Turbulent Flow. , 2011, , .		8
31	Application of Distributed Automated MDO Environment to Aero/Acoustic Shape Optimization of a Fan Blade. , 2005, , .		7
32	High-Fidelity Simulations of Airfoil Interaction with Upstream Turbulence. , 2012, , .		7
33	Detached Eddy Simulations of Supersonic Jets Impinging on Flat Plates. , 2013, , .		7
34	On Icing Control Using Thermally Activated Synthetic Jets. , 2013, , .		7
35	Bio-Inspired Opportunistic Approaches in Energy-Conserving/Harnessing Flight-Path Modeling for UAS. , 2016, , .		7
36	Numerical Aspects of Rocket Lift-off Noise with Launch-Pad Aqueous Injection. , 2018, , .		7

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37	Effect of a Synthetic Jet Actuator on Airfoil Trailing Edge Noise. International Journal of Aeroacoustics, 2015, 14, 553-568.	0.8	6
38	Preliminary Feasibility Study of a Multi-Purpose Aircraft Concept with a Leading-Edge Embedded Cross-Flow Fan. , 2018, , .		6
39	Robust Nonlinear Control of Airfoil Gust-Induced Limit Cycle Oscillations Using Synthetic Jet Actuators. , 2014, , .		5
40	Sliding mode estimation and closed-loop active flow control under actuator uncertainty. International Journal of Robust and Nonlinear Control, 2020, 30, 6645-6660.	2.1	5
41	Coherent fundamental-harmonic interactions in a compressible shear layer via integral nonlinear instability approach. AIP Advances, 2022, 12, .	0.6	5
42	Application of Space-Time Mapping Analysis Method to Unsteady Nonlinear Gust-Airfoil Interaction Problem. , 2003, , .		4
43	New Approach to Modeling Airfoil Interaction with Upstream Turbulence. , 2011, , .		4
44	High-Accuracy Simulations of Synthetic Jets for Low-Re Flow Control. , 2011, , .		4
45	High-Accuracy Simulations of Flow-Acoustic Resonant Interactions in Airfoil Transitional Boundary Layers. , 2012, , .		4
46	High-Fidelity Simulations of Transitional Airfoil Interacting with Canonical Upstream Flow Disturbances. , 2012, , .		4
47	An Integrated Study of Laminar Separation Bubble Effect on Tonal Noise Generation in Transitional Airfoils. , 2016, , .		4
48	Effects of Ground Surface Conditions on Aircraft Wake Vortex Evolution. , 2017, , .		4
49	Simulations of Broadband Noise of a Small UAV Propeller. , 2020, , .		4
50	Interaction of acoustic-vorticity waves with an annular cascade in a swirling flow. , 1997, , .		3
51	Market undervaluation of risky convertible offerings: Evidence from the airline industry. Journal of Economics and Finance, 2010, 34, 30-45.	0.8	3
52	High-Fidelity Viscous Simulations of Airfoil Noise Radiation in Nonuniform Unsteady Flow. , 2010, , .		3
53	Numerical Prediction of an Acoustic Field of a Supersonic Jet Impinging on a Plate at Different Inclination Angles. , 2014, , .		3
54	Parametric Investigations of Tonal Trailing-Edge Noise Generation by Low-Reynolds Number Airfoils. Part I - Experimental Studies. , 2015, , .		3

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55	Terminal-zone Wake Vortex Safety Assessment in the Context of UAS Integration in the NAS. Transportation Research Procedia, 2016, 14, 1364-1373.	0.8	3
56	Towards High-fidelity Analysis of Noise Radiation and Control of Propeller-driven UAV. , 2019, , .		3
57	Bio-Inspired Methodologies for Energy Conservation and Harvesting Flight-Path Modeling for Unmanned Aerial System. Journal of Aerospace Information Systems, 2019, 16, 289-295.	1.0	3
58	A sliding mode estimation method for fluid flow fields using a differential inclusions-based analysis. International Journal of Control, 2020, , 1-10.	1.2	3
59	An Automated Optimal Design of a Fan Blade Using an Integrated CFD/MDO Computer Environment. , 2006, , .		2
60	Numerical Simulation of Unsteady Response of an Oscillating Airfoil Subject to a High-Intensity Gust. , 2007, , .		2
61	Investigations of Nonlinear Unsteady Aerodynamic and Aeroacoustic Responses of Oscillating Airfoils in Non-Uniform Flow. , 2008, , .		2
62	Design, Modeling and Testing of Synthetic Jet Actuators for MAV Flight Control. , 2014, , .		2
63	Analysis of safety implications for SJA-based robust UAS flight control technology. , 2015, , .		2
64	Effect of Flow-Acoustic Resonant Interactions on Aerodynamic Response of Transitional Airfoils. , 2016, , .		2
65	On Ladder-Type Structure of Acoustic Tones Radiated by Transitional Airfoils. , 2017, , .		2
66	Comparison of Probabilistic Approaches for Predicting the Cone of Uncertainty in Aircraft Wake Vortex Evolution. , 2017, , .		2
67	A Biomimetic Energy-Conserving/Harvesting Trajectory Planning for a sUAV. , 2017, , .		2
68	Parametric Study of Aerodynamic Performance of an Airfoil with Active Circulation Control using Leading Edge Embedded Cross-Flow Fan. , 2019, , .		2
69	Towards Development of a Dynamic-Soaring, Morphing-Wing UAV. , 2020, , .		2
70	Prediction of the Acoustic Field Associated with Instability Wave Source Model for a Compressible Jet. , 2002, , .		1
71	On Noise Control in Turbomachinery Using an Automated Multidisciplinary Design Optimization System. , 2005, , 231.		1
72	Coupled Nonlinear Aeroelastic and Aeroacoustic Response of an Airfoil to Upstream Vortical Flow Disturbances. , 2008, , .		1

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73	Acoustic Feedback-Loop Interactions in Transitional Airfoils. , 2013, , .		1
74	Analysis of safety implications for SJA-based robust UAS flight control technology. , 2015, , .		1
75	A new method of synthetic jet actuator-based LCO suppression using an output feedback control strategy. , 2015, , .		1
76	Numerical Study of Synthetic-Jet Actuation Effect on Leading and Trailing Edge Noise. , 2015, , .		1
77	Robust SJA-Based Nonlinear Trajectory Tracking Control Using Unmanned Aircraft LPV Model. , 2016, , .		1
78	A Numerical Study of Synthetic-Jet Actuation Effect on Airfoil Trailing Edge Noise. , 2016, , .		1
79	Towards Experimental Validation of Robust Control of Gust-induced Airfoil Limit Cycle Oscillations Using Synthetic Jet Actuators. , 2016, , .		1
80	A Variable-Fidelity Approach to Wake Safety Analysis in the Context of UAS Integration in the NAS. , 2016, , .		1
81	Effects of 3D Time-Harmonic Gust and Turbulence on Unsteady Aerodynamic Responses of Loaded Low-Speed Airfoils. , 2016, , .		1
82	A Volume-Force Synthetic Turbulence Approach For Modeling Unsteady Fluid-Structure Interactions. , 2017, , .		1
83	Robust Nonlinear Tracking Control for Unmanned Aircraft with Virtual Control Surfaces. , 2017, , .		1
84	High-Fidelity Simulations of Terminal-Zone Heterogeneous Terrain Effects On Aircraft Wake Vortex Evolution. , 2018, , .		1
85	New results in wake vortex evolution, interaction and control. AIP Conference Proceedings, 2018, , .	0.3	1
86	On Acoustic Signature of a Conceptual Airfoil Design with Leading-Edge Embedded Cross-Flow Fan. , 2019, , .		1
87	Feasibility Study of a Multi-Purpose Aircraft Concept with a Leading-Edge Embedded Cross-Flow Fan. Unmanned Systems, 2020, 08, 21-32.	2.7	1
88	Meshless modeling of coupled transdermal pharmacokinetics with analytical validation. Engineering Analysis With Boundary Elements, 2021, 122, 62-74.	2.0	1
89	Towards Development of a Dynamic-Soaring, Morphing-Wing UAV: Simulation Results. , 2021, , .		1
90	Robust Nonlinear Tracking Control for Unmanned Aircraft in the Presence of Wake Vortex. Electronics (Switzerland), 2021, 10, 1890.	1.8	1

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91	Sound Propagation in Swirling Flows. International Journal of Acoustics and Vibrations, 1997, 2, .	0.3	1
92	Direct Simulation of Sound Generated by Viscous Flow Over a Cylinder Using a TVD Method. , 2003, , .		0
93	Review of Two Numerical Approaches to Predict Nonlinear Airfoil Response to High-Amplitude Incident Gust. , 2004, , 165.		0
94	Effect of Synthetic-Jet Actuation on Airfoil Acoustic Radiation. , 2012, , .		0
95	Effect of Upstream Turbulence on Flow-Acoustic Resonance Interactions in Transitional Airfoils. , 2014, , .		0
96	Lyapunov-based Adaptive Regulation of Limit Cycle Oscillations in Aircraft Wings Using Synthetic Jet Actuators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5079-5084.	0.4	0
97	Parametric Investigations of Tonal Trailing-Edge Noise Generation by Low-Reynolds Number Airfoils. Part II - Numerical Studies. , 2015, , .		0
98	Modeling SJA-based UAV Flight Control in Extraterrestrial Conditions. , 2016, , .		0
99	Comparison of Far-Field Acoustic Prediction Techniques in Application to Tonal Noise Radiation of Transitional Airfoils. , 2016, , .		0
100	A Summary of High-Fidelity Numerical Studies of Flow Acoustic Resonant Interactions in Transitional Airfoils. , 2016, , .		0
101	Effect of Freejet Upstream Flow Conditions on Flow-Acoustic Resonant Interactions in Transitional Airfoils. , 2016, , .		0
102	A Validation of High-Order Compact ILES Code for Trailing-Edge Noise at High Reynolds Numbers. , 2018, , .		0
103	On 3D effects in Gust-Airfoil and Turbulence-Airfoil Interaction Responses. , 2019, , .		0
104	Towards Efficient 2-DOF LCO Control Using a Closed-loop Nonlinear Active Flow Control Technique. , 2020, , .		0
105	Time-Harmonic 2D and 3D Gust-Airfoil Interactions: Comparison of Numerical Predictions with Analytical Models. , 2020, , .		0
106	Effect of swirling flow on sound radiated from a fan subject to a gust. , 1999, , .		0
107	SJA-Based Robust Nonlinear Control of Airfoil Gust-Induced LCO. , 2014, , .		0
108	Towards Robust Nonlinear Closed-Loop Transition Control Using Local Dynamic Surface Modification. , 2022, , .		0