

Nikolai v Semionov

List of Publications by Year in descending order

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59
papers

429
citations

840776

11
h-index

839539

18
g-index

59
all docs

59
docs citations

59
times ranked

42
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of localized artificial disturbance in 2D and 3D supersonic boundary layers. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2020, 234, 115-123.	1.3	11
2	The influence of moderate angle-of-attack variation on disturbances evolution and transition to turbulence in supersonic boundary layer on swept wing. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2020, 234, 96-101.	1.3	9
3	Experimental study of excitation and evolution of contrarotating longitudinal vortices in a boundary layer of a flat plate at $M = 2$. AIP Conference Proceedings, 2020, , .	0.4	2
4	Influence of small attack angles on the transition on the wing with the subsonic leading edge at $M=2$. AIP Conference Proceedings, 2020, , .	0.4	1
5	Experimental study of heat transfer in the boundary layer of a flat plate with the impact of weak shock waves on the leading edge. AIP Conference Proceedings, 2020, , .	0.4	2
6	Flow inhomogeneity influence on the wave packet development in a swept wing boundary layer at Mach number of 2.0. AIP Conference Proceedings, 2020, , .	0.4	0
7	Correlation measurement of supersonic flow pulsations and boundary layer disturbances in wind tunnel at Mach 2. AIP Conference Proceedings, 2020, , .	0.4	1
8	Evolution of mass flow and total temperature pulsations in flat-plate and swept-wing boundary layers at Mach 2 and 2.5. Journal of Physics: Conference Series, 2020, 1677, 012033.	0.4	0
9	Experimental investigation of effect of an external wave on supersonic boundary layer of the blunt flat plate. AIP Conference Proceedings, 2019, , .	0.4	7
10	Experimental Investigation of the Weak Shock Wave Influence on the Boundary Layer of a Flat Blunt Plate at the Mach Number 2.5. Fluid Dynamics, 2019, 54, 257-263.	0.9	14
11	Experimental study of the natural disturbance development in a supersonic flat plate boundary layer with a wavy surface. AIP Conference Proceedings, 2019, , .	0.4	1
12	The laminar-turbulent transition experiments in supersonic boundary layers. AIP Conference Proceedings, 2019, , .	0.4	8
13	An Investigation of the Influence of the Parameters of a Pulse Discharge on Localized Disturbances Generated in a Supersonic Boundary Layer. Technical Physics Letters, 2019, 45, 242-245.	0.7	2
14	The impact of weak shock waves on the flow in the boundary layer of a flat plate with a variable sweep angle of the leading edge. Thermophysics and Aeromechanics, 2019, 26, 803-809.	0.5	11
15	Experimental investigation of the natural and controlled disturbance development in a supersonic boundary layer on the swept wing. Journal of Physics: Conference Series, 2019, 1382, 012029.	0.4	0
16	Evolution of a localized wave packet in the boundary layer of the swept wing at $M = 2$. Journal of Physics: Conference Series, 2019, 1382, 012048.	0.4	3
17	An effect of small angle of attack on disturbances evolution in swept wing boundary layer at Mach number $M=2$. AIP Conference Proceedings, 2018, , .	0.4	8
18	Investigation of laminar-turbulent transition of supersonic boundary layer by scanning constant temperature hot-wire anemometer. AIP Conference Proceedings, 2018, , .	0.4	22

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19	Hot-wire measurements of the evolution of total temperature and mass flow pulsations in supersonic boundary layer on flat plate with coating permeability. AIP Conference Proceedings, 2018, , .	0.4	8
20	The wave packet development in the 3D supersonic boundary layers. AIP Conference Proceedings, 2018, , .	0.4	1
21	On introduction of controlled disturbances into a longitudinal vortex in a supersonic boundary layer. AIP Conference Proceedings, 2018, , .	0.4	3
22	Experimental study of effect of a couple of weak shock waves on boundary layer of the blunt flat plate. AIP Conference Proceedings, 2018, , .	0.4	11
23	Effect of unit Reynolds number on the laminar-turbulent transition on a swept wing in supersonic flow. Thermophysics and Aeromechanics, 2018, 25, 659-665.	0.5	11
24	Hot-wire measurements of the evolution of total temperature and mass flow pulsations in a modulated 3D supersonic boundary layer. AIP Conference Proceedings, 2018, , .	0.4	6
25	Hot-wire visualization of the evolution of localized wave packets in a supersonic flat-plate boundary layer. Journal of Visualization, 2017, 20, 549-557.	1.8	12
26	Propagation of the wave packet in a boundary layer of swept wing at Mach number 2. AIP Conference Proceedings, 2017, , .	0.4	0
27	Excitation of localized wave packet in swept-wing supersonic boundary layer. MATEC Web of Conferences, 2017, 115, 02015.	0.2	3
28	The evolution of mass flow and total temperature pulsations in flat plate boundary layer at M=2.5. AIP Conference Proceedings, 2017, , .	0.4	8
29	On mechanisms of the action of weak shock waves on laminar-turbulent transition in supersonic boundary layer. AIP Conference Proceedings, 2017, , .	0.4	10
30	The effect of small angle of attack on the laminar-turbulent transition in boundary layer on swept wing at Mach number M=2. AIP Conference Proceedings, 2017, , .	0.4	1
31	On the nonlinear development of controlled disturbances in the supersonic boundary layer of a swept wing. AIP Conference Proceedings, 2017, , .	0.4	0
32	To the analysis of the natural pulsation development during laminar-turbulent transition in supersonic boundary layer. AIP Conference Proceedings, 2017, , .	0.4	4
33	On the oblique breakdown mechanism in a supersonic boundary layer on a swept wing at Mach 2. AIP Conference Proceedings, 2017, , .	0.4	2
34	Wave analysis of the evolution of a single wave packet in supersonic boundary layer. AIP Conference Proceedings, 2016, , .	0.4	3
35	To nonlinear disturbance interactions in 3D supersonic boundary-layer. AIP Conference Proceedings, 2016, , .	0.4	3
36	Impact of incident Mach wave on supersonic boundary layer. Thermophysics and Aeromechanics, 2016, 23, 43-48.	0.5	34

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37	Combined influence of coating permeability and roughness on supersonic boundary layer stability and transition. <i>Journal of Fluid Mechanics</i> , 2016, 798, 751-773.	3.4	23
38	Influence of coating permeability and roughness on supersonic boundary layer stability. AIP Conference Proceedings, 2016, , .	0.4	1
39	On the artificial disturbance evolution in 2D/3D spanwise modulated supersonic boundary layers. AIP Conference Proceedings, 2016, , .	0.4	1
40	Experimental study of the effects of couple weak waves on laminar-turbulent transition on attachment-line of a swept cylinder. AIP Conference Proceedings, 2016, , .	0.4	11
41	The influence of flow parameters on the transition to turbulence in supersonic boundary layer on swept wing. AIP Conference Proceedings, 2016, , .	0.4	4
42	Linear development of controlled disturbances in the supersonic boundary layer on a swept wing at Mach 2. <i>Physics of Fluids</i> , 2016, 28, 064101.	4.0	24
43	Evolution of wave packets in supersonic flat-plate boundary layer. <i>Thermophysics and Aeromechanics</i> , 2015, 22, 17-27.	0.5	33
44	Experiments on the Artificial Disturbance Evolution in 2D and 3D Spanwise Modulated Boundary Layers at Mach 2 and 2.5. <i>Procedia IUTAM</i> , 2015, 14, 48-57.	1.2	5
45	Experimental study of nonlinear processes in a swept-wing boundary layer at the mach number M=2. <i>Journal of Applied Mechanics and Technical Physics</i> , 2014, 55, 764-772.	0.5	11
46	Joint permeability and roughness effect on the supersonic flat-plate boundary layer stability and transition. <i>Fluid Dynamics</i> , 2014, 49, 608-613.	0.9	4
47	Linear evolution of controlled disturbances in the supersonic boundary layer on a swept wing. <i>Fluid Dynamics</i> , 2014, 49, 188-197.	0.9	9
48	Experimental study of mean and pulsation flow characteristics in the 2D/3D supersonic boundary layer behind flat roughness elements. <i>Thermophysics and Aeromechanics</i> , 2014, 21, 3-13.	0.5	16
49	Experimental Study of Turbulence Beginning of Supersonic Boundary Layer on Swept Wing at Mach Numbers 2 – 4. <i>Journal of Physics: Conference Series</i> , 2011, 318, 032018.	0.4	6
50	Experiments on the wave train development in 3D boundary layer at Mach 2. <i>Journal of Physics: Conference Series</i> , 2011, 318, 032011.	0.4	0
51	The influence of surface porosity on the stability and transition of supersonic boundary layer on a flat plate. <i>Thermophysics and Aeromechanics</i> , 2010, 17, 259-268.	0.5	9
52	Evolution of disturbances in a laminarized supersonic boundary layer on a swept wing. <i>Journal of Applied Mechanics and Technical Physics</i> , 2008, 49, 188-193.	0.5	5
53	Stability of a supersonic flat-plate wake (Comparison of numerical and experimental results). <i>Fluid Dynamics</i> , 2008, 43, 869-872.	0.9	0
54	Method laminar-turbulent transition control of supersonic boundary layer on a swept wing. <i>Thermophysics and Aeromechanics</i> , 2007, 14, 337-341.	0.5	21

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55	Instability of a three-dimensional supersonic boundary layer. Journal of Applied Mechanics and Technical Physics, 1995, 36, 840-843.	0.5	9
56	Stability of a wake behind a flat plate in a supersonic flow. Journal of Applied Mechanics and Technical Physics, 1995, 36, 844-847.	0.5	1
57	Wave structure of artificial perturbations in a supersonic boundary layer on a plate. Journal of Applied Mechanics and Technical Physics, 1990, 31, 250-252.	0.5	0
58	Structure of artificial disturbances induced by an external acoustic field in a supersonic boundary layer. Fluid Dynamics, 1989, 24, 394-398.	0.9	2
59	Excitation of natural oscillations in a boundary layer by an external acoustic field. Fluid Dynamics, 1986, 21, 400-404.	0.9	12