

Vladimir Borodulin

List of Publications by Year in descending order

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papers

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citing authors

#	ARTICLE	IF	CITATIONS
1	Receptivity coefficients at excitation of cross-flow waves by free-stream vortices in the presence of surface roughness. <i>Journal of Fluid Mechanics</i> , 2013, 716, 487-527.	3.4	28
2	Swept-wing boundary-layer transition at various external perturbations: Scenarios, criteria, and problems of prediction. <i>Physics of Fluids</i> , 2017, 29, .	4.0	21
3	Experimental and theoretical study of swept-wing boundary-layer instabilities. Unsteady crossflow instability. <i>Physics of Fluids</i> , 2019, 31, .	4.0	19
4	Weakly nonlinear stages of boundary-layer transition initiated by modulated Tollmien-Schlichting waves. <i>Journal of Fluid Mechanics</i> , 2013, 732, 571-615.	3.4	16
5	Detuned resonances of Tollmien-Schlichting waves in an airfoil boundary layer: Experiment, theory, and direct numerical simulation. <i>Physics of Fluids</i> , 2012, 24, 094103.	4.0	15
6	Receptivity coefficients at excitation of cross-flow waves due to scattering of free-stream vortices on surface vibrations. <i>Journal of Fluid Mechanics</i> , 2016, 793, 162-208.	3.4	14
7	Distributed two-dimensional boundary-layer receptivity to non-stationary vortical disturbances in the presence of surface roughness. <i>Thermophysics and Aeromechanics</i> , 2006, 13, 183-208.	0.5	12
8	Experimental and theoretical study of swept-wing boundary-layer instabilities. Three-dimensional Tollmien-Schlichting instability. <i>Physics of Fluids</i> , 2019, 31, 114104.	4.0	12
9	Characteristics of 3D instability of a 35-degree swept wing to CF and TS modes. Experiment and theory. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	4
10	Distributed vortex receptivity of a swept-wing boundary layer. Part 1. Efficient excitation of CF modes. <i>Journal of Fluid Mechanics</i> , 2021, 908, .	3.4	4
11	Problem of calculation of swept-wing boundary-layer transition to turbulence at elevated freestream turbulence levels. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	3
12	Comparison of distributed vortex receptivity coefficients at excitation of 3D TS-waves in presence and absence of surface waviness and pressure gradient. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	3
13	Distributed vortex receptivity of a swept-wing boundary layer. Part 2. Receptivity characteristics. <i>Journal of Fluid Mechanics</i> , 2021, 908, .	3.4	2
14	On the development of methods of the laminar-turbulent transition prediction. <i>AIP Conference Proceedings</i> , 2021, , .	0.4	1