

# Vasily V Vedeneev

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

535  
citations

686830

13  
h-index

713013

21  
g-index

54  
all docs

54  
docs citations

54  
times ranked

177  
citing authors

#	ARTICLE	IF	CITATIONS
1	Panel flutter at low supersonic speeds. <i>Journal of Fluids and Structures</i> , 2012, 29, 79-96.	1.5	68
2	Nonlinear single-mode and multi-mode panel flutter oscillations at low supersonic speeds. <i>Journal of Fluids and Structures</i> , 2015, 56, 205-223.	1.5	50
3	Effect of damping on flutter of simply supported and clamped panels at low supersonic speeds. <i>Journal of Fluids and Structures</i> , 2013, 40, 366-372.	1.5	35
4	Flutter of rectangular simply supported plates at low supersonic speeds. <i>Journal of Fluids and Structures</i> , 2017, 69, 154-173.	1.5	29
5	Flutter of a Wide Strip Plate in a Supersonic Gas Flow. <i>Fluid Dynamics</i> , 2005, 40, 805-817.	0.2	28
6	Experimental observation of single mode panel flutter in supersonic gas flow. <i>Journal of Fluids and Structures</i> , 2010, 26, 764-779.	1.5	27
7	Transonic Panel Flutter in Accelerating or Decelerating Flow Conditions. <i>AIAA Journal</i> , 2018, 56, 997-1010.	1.5	23
8	Interaction of panel flutter with inviscid boundary layer instability in supersonic flow. <i>Journal of Fluid Mechanics</i> , 2013, 736, 216-249.	1.4	19
9	Formation of free round jets with long laminar regions at large Reynolds numbers. <i>Physics of Fluids</i> , 2018, 30, .	1.6	18
10	High-frequency flutter of a rectangular plate. <i>Fluid Dynamics</i> , 2006, 41, 641-648.	0.2	15
11	Nonlinear high-frequency flutter of a plate. <i>Fluid Dynamics</i> , 2007, 42, 858-868.	0.2	15
12	Experimental Validation of Numerical Blade Flutter Prediction. <i>Journal of Propulsion and Power</i> , 2015, 31, 1281-1291.	1.3	15
13	Short-wave instability of an elastic plate in supersonic flow in the presence of the boundary layer. <i>Journal of Fluid Mechanics</i> , 2016, 802, 528-552.	1.4	13
14	Nonlinear steady states of hyperelastic membrane tubes conveying a viscous non-Newtonian fluid. <i>Journal of Fluids and Structures</i> , 2020, 98, 103113.	1.5	13
15	High-frequency plate flutter. <i>Fluid Dynamics</i> , 2006, 41, 313-321.	0.2	12
16	Experimental investigation of single-mode panel flutter in supersonic gas flow. <i>Fluid Dynamics</i> , 2010, 45, 312-324.	0.2	12
17	Limit oscillatory cycles in the single mode flutter of a plate. <i>Prikladnaya Matematika I Mekhanika</i> , 2013, 77, 257-267.	0.4	12
18	Stability of an Elastic Tube Conveying a Non-Newtonian Fluid and Having a Locally Weakened Section. <i>Proceedings of the Steklov Institute of Mathematics</i> , 2018, 300, 34-55.	0.1	12

#	ARTICLE	IF	CITATIONS
19	Patient-specific fluid-structure interaction model of bile flow: comparison between 1-way and 2-way algorithms. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021, 24, 1693-1717.	0.9	11
20	Numerical investigation of supersonic plate flutter using the exact aerodynamic theory. <i>Fluid Dynamics</i> , 2009, 44, 314-321.	0.2	10
21	Instability of an Unbounded Elastic Plate in a Gas Flow. <i>Fluid Dynamics</i> , 2004, 39, 526-533.	0.2	7
22	Influence of the viscous boundary layer perturbations on single-mode panel flutter at finite Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 2018, 852, 578-601.	1.4	7
23	Experimental validation of inviscid linear stability theory applied to an axisymmetric jet. <i>Journal of Fluid Mechanics</i> , 2022, 934, .	1.4	7
24	On the application of the asymptotic method of global instability in aeroelasticity problems. <i>Proceedings of the Steklov Institute of Mathematics</i> , 2016, 295, 274-301.	0.1	6
25	Experimental study of the flow regime effect on the stability of collapsible tubes conveying fluid. <i>Physics of Fluids</i> , 2021, 33, .	1.6	6
26	Single-mode plate flutter taking the boundary layer into account. <i>Fluid Dynamics</i> , 2012, 47, 417-429.	0.2	5
27	Effect of Nonequilibrium Reacting Flow on Flutter at Hypersonic Flight Speed. <i>AIAA Journal</i> , 2019, 57, 2222-2226.	1.5	5
28	The effect of external perturbations on nonlinear panel flutter at low supersonic speed. <i>Journal of Fluids and Structures</i> , 2022, 111, 103570.	1.5	5
29	Experimental observation of single-mode panel flutter in a supersonic gas flow. <i>Doklady Physics</i> , 2009, 54, 389-391.	0.2	4
30	Flutter of a periodically supported elastic strip in a gas flow with a small supersonic velocity. <i>Mechanics of Solids</i> , 2015, 50, 318-336.	0.3	4
31	Propagation of waves in a layer of a viscoelastic material underlying a layer of a moving fluid. <i>Prikladnaya Matematika I Mekhanika</i> , 2016, 80, 225-243.	0.4	4
32	Flutter of infinite elastic plates in the boundary-layer flow at finite Reynolds numbers. <i>Fluid Dynamics</i> , 2017, 52, 797-814.	0.2	4
33	Numerical Investigation of the Effect of Design Parameters on the Blade Flutter Prediction. <i>Journal of Machinery Manufacture and Reliability</i> , 2019, 48, 111-118.	0.1	4
34	New Mechanism of the Aeroelastic Divergence Onset. <i>AIAA Journal</i> , 2020, 58, 2716-2725.	1.5	4
35	Effect of Yaw Angle on Flutter of Rectangular Plates at Low Supersonic Speeds. <i>AIAA Journal</i> , 2022, 60, 4256-4266.	1.5	4
36	Axisymmetric instability of elastic tubes conveying power-law fluids. <i>Journal of Fluid Mechanics</i> , 2022, 941, .	1.4	4

#	ARTICLE	IF	CITATIONS
37	Self-Exciting Oscillations of Elastic Tube Conveying Fluid at Laminar and Turbulent Flow Regimes. Journal of Physics: Conference Series, 2017, 894, 012030.	0.3	3
38	On limits of applicability of the homogenization method to modeling of layered creep media. IFAC-PapersOnLine, 2018, 51, 144-149.	0.5	3
39	Coupled-mode flutter of an elastic plate in a gas flow with a boundary layer. Proceedings of the Steklov Institute of Mathematics, 2013, 281, 140-152.	0.1	2
40	The influence of compliant coatings on skin friction in the turbulent boundary layer. Journal of Physics: Conference Series, 2017, 894, 012036.	0.3	2
41	The influence of design parameters on the blade flutter boundaries. IOP Conference Series: Materials Science and Engineering, 2019, 643, 012135.	0.3	2
42	Study of the single-mode flutter of a rectangular plate in the case of variable amplification of the eigenmode along the plate. Fluid Dynamics, 2010, 45, 656-666.	0.2	1
43	Response to commentary on: "Motivational strategies for physiotherapists". Physical Therapy Reviews, 2014, 19, 284-285.	0.3	1
44	On absolute instability of free jets. Journal of Physics: Conference Series, 2018, 1129, 012037.	0.3	1
45	A Comprehensive Solution of the Problems of Ensuring the Strength of Gas Turbine Engine Compressor at the Design Stage. IOP Conference Series: Materials Science and Engineering, 2018, 302, 012079.	0.3	1
46	Study of Aeroelastic Phenomena of the Hull and Thin-Walled Structures of Unmanned Aircraft at High Supersonic Speeds. Journal of Machinery Manufacture and Reliability, 2021, 50, 342-350.	0.1	1
47	Vortex-induced vibrations of an elastic cylinder near a finite-length plate. Journal of Fluids and Structures, 2021, 107, 103393.	1.5	1
48	Experimental Study of Single Mode Panel Flutter. , 2010, , .		0
49	Nonlinear Multi-Modal Panel Flutter Oscillations at Low Supersonic Speeds. , 2014, , .		0
50	Conference of Young Scientists in Mechanics, 4 <sup>th</sup> September 2018, Sochi, Russia. Journal of Physics: Conference Series, 2018, 1129, 011001.	0.3	0
51	Influence of longitudinal tension on the stability of the finite length elastic tubes conveying Non-Newtonian fluid. Journal of Physics: Conference Series, 2018, 1129, 012029.	0.3	0
52	Investigation of a flutter of structures in gas flows with using energy method. Journal of Physics: Conference Series, 2018, 1129, 012001.	0.3	0
53	Numerical Analysis of Single Mode Panel Flutter in a Viscous Gas Flow. , 2010, , .		0