

Valentin A Gushchin

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Mathematical Modeling of Spots Chain Dynamics in Fluid. Smart Innovation, Systems and Technologies, 2022, , 77-85.	0.5	0
2	Development and Application of the SMIF Method for the Investigation of Incompressible Fluid Flows. Smart Innovation, Systems and Technologies, 2021, , 25-38.	0.5	0
3	Mathematical Modeling of Wave Motions of Fluids. Smart Innovation, Systems and Technologies, 2021, , 35-46.	0.5	0
4	One Approach of Solving Tasks in the Presence of Free Surface Using a Multiprocessor Computing Systems. Lecture Notes in Computer Science, 2020, , 324-331.	1.0	2
5	The Splitting Scheme for Mathematical Modeling of the Mixed Region Dynamics in a Stratified Fluid. Smart Innovation, Systems and Technologies, 2020, , 11-21.	0.5	2
6	On One Method for Solving of a Non-stationary Fluid Flows with Free Surface. Lecture Notes in Computer Science, 2019, , 274-280.	1.0	1
7	ON CABARET SCHEME FOR INCOMPRESSIBLE FLUID FLOW PROBLEMS WITH FREE SURFACE. , 2017, , .		1
8	THE LEVEL SURFACE OF THE GENERALIZED PROBLEM OF TWO CENTERS. , 2017, , .		0
9	Family of quasi-monotonic finite-difference schemes of the second-order of approximation. Mathematical Models and Computer Simulations, 2016, 8, 487-496.	0.1	24
10	Simulation and study of stratified flows around finite bodies. Computational Mathematics and Mathematical Physics, 2016, 56, 1034-1047.	0.2	25
11	On a family of monotone finite-difference schemes of the second order of approximation. AIP Conference Proceedings, 2015, , .	0.3	2
12	Direct numerical simulation of the sea flows around blunt bodies. AIP Conference Proceedings, 2015, , .	0.3	3
13	The Theory and Applications of the SMIF Method for Correct Mathematical Modeling of the Incompressible Fluid Flows. Lecture Notes in Computer Science, 2015, , 209-216.	1.0	2
14	Mathematical modeling of the incompressible fluid flows. , 2014, , .		3
15	Method SMIF for Incompressible Fluid Flows Modeling. Lecture Notes in Computer Science, 2013, , 311-318.	1.0	5
16	Transformation of vortex structures in the wake of a sphere moving in the stratified fluid with decreasing of internal Froude number. Journal of Physics: Conference Series, 2011, 318, 062017.	0.3	5
17	Numerical simulation and visualization of vortical structure transformation in the flow past a sphere at an increasing degree of stratification. Computational Mathematics and Mathematical Physics, 2011, 51, 251-263.	0.2	20
18	Parallel computing of 3D separated stratified fluid flows around a sphere. Lecture Notes in Computational Science and Engineering, 2009, , 321-328.	0.1	0

#	ARTICLE	IF	CITATIONS
19	Numerical and experimental study of the fine structure of a stratified fluid flow over a circular cylinder. <i>Journal of Applied Mechanics and Technical Physics</i> , 2007, 48, 34-43.	0.1	18
20	Vortex formation mechanisms in the wake behind a sphere for $200 < Re < 380$. <i>Fluid Dynamics</i> , 2006, 41, 795-809.	0.2	33
21	3D Visualization of the separated fluid flows. <i>Journal of Visualization</i> , 2004, 7, 143-150.	1.1	28
22	Direct numerical simulation of the transitional separated fluid flows around a sphere and a circular cylinder. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2002, 90, 341-358.	1.7	40
23	Computational aspects of the splitting method for incompressible flow with a free surface. <i>Computers and Fluids</i> , 1992, 21, 345-353.	1.3	30
24	Flow of a fluid across an obstacle with breaking of the wave front. <i>Fluid Dynamics</i> , 1985, 20, 423-426.	0.2	1
25	Numerical modelling of the non-stationary periodic flow of a viscous fluid in the wake behind a cylinder. <i>USSR Computational Mathematics and Mathematical Physics</i> , 1984, 24, 150-155.	0.0	1
26	The splitting method for problems of the dynamics of an inhomogeneous viscous incompressible fluid. <i>USSR Computational Mathematics and Mathematical Physics</i> , 1981, 21, 190-204.	0.0	12
27	Numerical investigation of an incompressible viscous fluid flow about a body of finite size. <i>USSR Computational Mathematics and Mathematical Physics</i> , 1980, 20, 241-251.	0.0	0
28	Numerical simulation of the plane flow of a viscous fluid under the action of an external force periodic in space. <i>USSR Computational Mathematics and Mathematical Physics</i> , 1977, 17, 228-234.	0.0	1
29	Use of the splitting method to solve problems of the dynamics of a viscous incompressible fluid. <i>USSR Computational Mathematics and Mathematical Physics</i> , 1975, 15, 190-200.	0.0	53
30	A monotonic difference scheme of second-order accuracy. <i>USSR Computational Mathematics and Mathematical Physics</i> , 1974, 14, 252-256.	0.0	13