

Fedorov Ruslan

List of Publications by Year in descending order

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42
papers

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1040056

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g-index

42
all docs

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docs citations

42
times ranked

53
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical analysis of the temperature stratification of the disperse flow. AIP Conference Proceedings, 2015, , .	0.4	76
2	Numerical research of turbulent boundary layer based on the fractal dimension of pressure fluctuations. AIP Conference Proceedings, 2016, , .	0.4	64
3	Modeling and Development of Cooling Technology of Turbine Engine Blades. International Review of Mechanical Engineering, 2015, 9, 331.	0.2	55
4	A four stages numerical pair with optimal phase and stability properties. Journal of Mathematical Chemistry, 2018, 56, 81-102.	1.5	27
5	Numerical analysis of the efficiency of film cooling of surface streamlined by supersonic disperse flow. AIP Conference Proceedings, 2015, , .	0.4	20
6	New hybrid two-step method with optimized phase and stability characteristics. Journal of Mathematical Chemistry, 2018, 56, 2302-2340.	1.5	18
7	Zeroing Neural Network for Pseudoinversion of an Arbitrary Time-Varying Matrix Based on Singular Value Decomposition. Mathematics, 2022, 10, 1208.	2.2	17
8	New hybrid symmetric two step scheme with optimized characteristics for second order problems. Journal of Mathematical Chemistry, 2018, 56, 2816-2844.	1.5	14
9	Real-Time Estimation of R0 for COVID-19 Spread. Mathematics, 2021, 9, 664.	2.2	13
10	Evolutionary Derivation of Rungeâ€™Kutta Pairs of Orders 5(4) Specially Tuned for Problems with Periodic Solutions. Mathematics, 2021, 9, 2306.	2.2	10
11	A Neural Network Technique for the Derivation of Rungeâ€™Kutta Pairs Adjusted for Scalar Autonomous Problems. Mathematics, 2021, 9, 1842.	2.2	8
12	On a New Family of Rungeâ€™Kuttaâ€™NystrÃ¶m Pairs of Orders 6(4). Mathematics, 2022, 10, 875.	2.2	8
13	Applying the Random Forest Method to Improve Burner Efficiency. Mathematics, 2022, 10, 2143.	2.2	8
14	Rungeâ€™Kutta Pairs of Orders 5(4) Trained to Best Address Keplerian Type Orbits. Mathematics, 2021, 9, 2400.	2.2	7
15	Modeling, research and development the technology of cooling of turbine engine blades. AIP Conference Proceedings, 2015, , .	0.4	6
16	New multiple stages scheme with improved properties for second order problems. Journal of Mathematical Chemistry, 2019, 57, 232-262.	1.5	6
17	Eighth Order Two-Step Methods Trained to Perform Better on Keplerian-Type Orbits. Mathematics, 2021, 9, 3071.	2.2	6
18	A two-step singularly P-stable method with high phase and large stability properties for problems in chemistry. Journal of Mathematical Chemistry, 2022, 60, 475-501.	1.5	6

#	ARTICLE	IF	CITATIONS
19	Application of the results of experimental and numerical turbulent flow researches based on pressure pulsations analysis. AIP Conference Proceedings, 2017, , .	0.4	5
20	Sixth Order Numerov-Type Methods with Coefficients Trained to Perform Best on Problems with Oscillating Solutions. Mathematics, 2021, 9, 2756.	2.2	5
21	The mechanism and theoretical basis of the management of intensity of the heat transfer control through periodic influences on the turbulent boundary layer. AIP Conference Proceedings, 2017, , .	0.4	3
22	Mathematical modeling and research of heat-and-mass transfer of moisture and gas in the capillary-porous space of solid biofuel elements. AIP Conference Proceedings, 2019, , .	0.4	3
23	Method of calculation of a thermolysis and friction of a turbulent disperse flow in nozzles. AIP Conference Proceedings, 2017, , .	0.4	2
24	The modeling of influence of the external turbulence over the heat transfer towards the surface of turbomachinery blades. AIP Conference Proceedings, 2017, , .	0.4	2
25	Numerical Solution to Anomalous Diffusion Equations for Levy Walks. Mathematics, 2021, 9, 3219.	2.2	2
26	Modeling and numerical technique for investigating of turbulent transfer in a non-stationary boundary layer at impacts. AIP Conference Proceedings, 2019, , .	0.4	1
27	Numerical Method for Solving of the Anomalous Diffusion Equation Based on a Local Estimate of the Monte Carlo Method. Mathematics, 2022, 10, 511.	2.2	1
28	Modeling and research of thermal aspects of precision holes drilling quality assurance. AIP Conference Proceedings, 2016, , .	0.4	0
29	Mathematical simulation of technology of enrichment of low-grade solid fuels by recirculated exhaust gases for boiler plants. AIP Conference Proceedings, 2018, , .	0.4	0
30	Modeling and investigation of the intensification of fluid diffusion in the capillary-porous space by applying periodic pressure pulsations. AIP Conference Proceedings, 2018, , .	0.4	0
31	Technology of designing energy efficient power converters on the basis of programmable field models. AIP Conference Proceedings, 2018, , .	0.4	0
32	Features of the research of the efficiency of thermal protection of complex-profile surfaces streamlined by high-speed disperse flow. AIP Conference Proceedings, 2018, , .	0.4	0
33	Mathematical modeling of convective heat transfer and friction of a plate at harmonic pressure oscillations of a homogeneous flow. AIP Conference Proceedings, 2018, , .	0.4	0
34	Development and study of technical solutions for turbine blades cooling. AIP Conference Proceedings, 2018, , .	0.4	0
35	Mathematical modeling and numerical research of heat transfer in heterogeneous flows. AIP Conference Proceedings, 2019, , .	0.4	0
36	Numerical research of perspective technical solutions for thermal protection of surfaces flowed by high-speed dispersed flows. AIP Conference Proceedings, 2019, , .	0.4	0

#	ARTICLE	IF	CITATIONS
37	Development and research of technologies of thermal protection of surfaces streamlined by disperse working media. Modern Science Researches Ideas Results Technologies, 2016, , 68-77.	0.2	0
38	Technical solutions for increasing efficiency of gas turbine engines. , 2017, , .		0
39	Mechanisms and models of control of turbulent transfer in boundary layer. , 2017, , .		0
40	To mathematical modeling of temperature stratification impact on atmospheric conditions changes. AIP Conference Proceedings, 2020, , .	0.4	0
41	Mathematical modeling of turbulent transfer in thermal boundary layer at the influence of hemispherical damping cavities. AIP Conference Proceedings, 2020, , .	0.4	0
42	Mathematical modeling of exchange processes in a turbulent boundary layer, research and verification of the model. AIP Conference Proceedings, 2022, , .	0.4	0