Igor Nesteruk

List of Publications by Year in descending order

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35 papers	556 citations	1307594 7 h-index	1058476 14 g-index
67 all docs	67 docs citations	67 times ranked	362 citing authors

#	Article	IF	Citations
1	Statistics-Based Predictions of Coronavirus Epidemic Spreading in Mainland China. Innovative Biosystems and Bioengineering, 2020, 4, 13-18.	0.7	80
2	4D Flow Analysis of BAV-Related Fluid-Dynamic Alterations: Evidences of Wall Shear Stress Alterations in Absence of Clinically-Relevant Aortic Anatomical Remodeling. Frontiers in Physiology, 2017, 8, 441.	2.8	54
3	COVID-19 Pandemic Dynamics. , 2021, , .		34
4	Comparison of mathematical models for the dynamics of the Chernivtsi children disease. Mathematics and Computers in Simulation, 2016, 123, 68-79.	4.4	29
5	Simulations and Predictions of COVID-19 Pandemic With the Use of SIR Model. Innovative Biosystems and Bioengineering, 2020, 4, 110-121.	0.7	26
6	Visible and Real Sizes of New COVID-19 Pandemic Waves in Ukraine. Innovative Biosystems and Bioengineering, 2021, 5, 85-96.	0.7	21
7	Detections and SIR simulations of the COVID-19 pandemic waves in Ukraine. Computational and Mathematical Biophysics, 2021, 9, 46-65.	1.1	21
8	Maximal Speed of Underwater Locomotion. Innovative Biosystems and Bioengineering, 2019, 3, 152-167.	0.7	17
9	Influence of Possible Natural and Artificial Collective Immunity on New COVID-19 Pandemic Waves in Ukraine and Israel. Exploratory Research and Hypothesis in Medicine, 2022, 7, 8-18.	0.4	15
10	Predictions of COVID-19 Pandemic Dynamics in Ukraine and Qatar Based on Generalized SIR Model. Innovative Biosystems and Bioengineering, 2021, 5, 37-46.	0.7	12
11	Shape of Slender Axisymmetric Ventilated Supercavities. Journal of Computational Engineering, 2014, 2014, 1-18.	0.8	10
12	General SIR Model and Its Exact Solution. , 2021, , 127-132.		9
13	Impact of Vaccination and Testing Levels on the Dynamics of the COVID-19 Pandemic and its Cessation. Journal of Biomedical Research & Environmental Sciences, 2021, 2, 1141-1147.	0.2	9
14	Epidemic waves caused by SARSâ€CoVâ€2 omicron (B.1.1.529) and pessimistic forecasts of the COVIDâ€19 pandemic duration. MedComm, 2022, 3, e122.	7.2	8
15	Identification of the New Waves of the COVID-19 Pandemic. , 2021, , 109-126.		7
16	The real COVID-19 pandemic dynamics in Qatar in 2021: simulations, predictions and verifications of the SIR model. Semina: CiÃªncias Exatas E TecnolÃ³gicas, 0, , 55-62.	0.1	7
17	Drag Effectiveness of Supercavitating Underwater Hulls. , 2012, , 79-106.		6
18	New COVID-19 Pandemic Waves Caused by Omicron and Efficiency of Vaccinations. Journal of Biomedical Research & Environmental Sciences, 2022, 3, 114-139.	0.2	6

#	Article	IF	Citations
19	Electrical Swath Ships with Underwater Hulls Preventing the Boundary Layer Separation. Journal of Marine Science and Engineering, 2020, 8, 652.	2.6	4
20	Classical SIR Model and the Exact Solution of Differential Equations. , 2021, , 23-32.		2
21	Global and Local Characteristics of the Blood Flow in Large Vessels Based on 4D MRI Data. NaukovÃ¬ VÃ¬stÃ¬ NacÃ¬onalÊ¹nogo TehnÃ¬Änogo UnÃ¬versitetu UkraÃ¯ni KiÃ¯vsÊ¹kij PolÃ¬tehnÃ¬Änij Institut, 2017, .	0.2	2
22	Fastest Fish Shapes and Optimal Supercavitating and Hypersonic Bodies of Revolution. Innovative Biosystems and Bioengineering, 2020, 4, 169-178.	0.7	2
23	Turbulent skin-friction drag on a slender body of revolution and Gray's Paradox. Journal of Physics: Conference Series, 2011, 318, 022042.	0.4	1
24	Differentiation of the 4D MRI Blood Flow Data to Estimate the Vorticity and Shear Stress in Aorta, Pulmonary Artery and the Heart. , 2019, , .		1
25	Stability of slender axisymmetric ventilated cavities closing on cylindrical hulls. Chinese Journal of Physics, 2019, 61, 29-37.	3.9	1
26	Global Waves of the COVID-19 Pandemic. , 2021, , 147-151.		1
27	Tyrannosaurus Rex Running? Estimations of Efficiency, Speed and Acceleration. Innovative Biosystems and Bioengineering, 2018, 2, 42-48.	0.7	1
28	Stenosis Detection in Internal Carotid and Vertebral Arteries With the Use of Diameters Estimated from MRI Data. Innovative Biosystems and Bioengineering, 2020, 4, 131-142.	0.7	1
29	Analitical and numerical simulation of platelets in microchannels and their stress history. , 2017, , .		0
30	SIR Simulations for the First Waves of the COVID-19 Pandemic in Different Countries and Regions. , 2021, , 37-87.		0
31	Applications of the General SIR Model for Calculations of the COVID-19 Epidemic Waves in Ukraine. , 2021, , 141-146.		0
32	Long-Time Predictions for the Pandemic Dynamics. , 2021, , 153-160.		0
33	Statistics-Based Procedure of Parameter Identification for the Classical SIR Model. , 2021, , 33-36.		0
34	Shapes of steady slender axisymmetric ventilated cavities in ponderable liquid. Hydrodynamics and Acoustics, 2018, 1, 233-244.	0.2	0
35	Optimal Body Masses for Different Olympic Sports. Innovative Biosystems and Bioengineering, 2018, 2, 183-195.	0.7	0