

# Dmitrii G Luchinsky

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

169  
citations

1478505

6  
h-index

1199594

12  
g-index

39  
all docs

39  
docs citations

39  
times ranked

146  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling couplings among the oscillators of the cardiovascular system. <i>Physiological Measurement</i> , 2001, 22, 551-564.	2.1	47
2	Fluctuation-induced escape from the basin of attraction of a quasiattractor. <i>JETP Letters</i> , 1999, 69, 825-830.	1.4	18
3	Modeling wave propagation and scattering from impact damage for structural health monitoring of composite sandwich plates. <i>Structural Health Monitoring</i> , 2013, 12, 296-308.	7.5	12
4	Exploring the pore charge dependence of $K^{+}$ and $Cl^{-}$ permeation across a graphene monolayer: a molecular dynamics study. <i>RSC Advances</i> , 2019, 9, 20402-20414.	3.6	12
5	Noise-induced shift of singularities in the pattern of optimal paths. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 314, 386-391.	2.1	9
6	Bayesian Framework for In-Flight SRM Data Management and Decision Support. , 2007, , .		9
7	Welding dynamics in an atomistic model of an amorphous polymer blend with polymer-polymer interface. <i>Journal of Polymer Science</i> , 2020, 58, 2051-2061.	3.8	9
8	Model Based IVHM System for the Solid Rocket Booster. <i>Aerospace Conference Proceedings IEEE</i> , 2008, , .	0.0	6
9	Fault diagnostics and prognostics for large segmented SRMs. , 2009, , .		4
10	Observation of "Remote Knock-On", a New Permeation-Enhancement Mechanism in Ion Channels. <i>Biophysical Journal</i> , 2014, 106, 133a.	0.5	4
11	Origin and control of ionic hydration patterns in nanopores. <i>Communications Materials</i> , 2021, 2, .	6.9	4
12	A Bayesian estimation of a stochastic predator-prey model of economic fluctuations. , 2007, , .		3
13	Dynamical inference of hidden biological populations. <i>European Physical Journal B</i> , 2008, 65, 369-377.	1.5	3
14	Physics based model for online fault detection in autonomous cryogenic loading system. , 2014, , .		3
15	Application of a Statistical and Linear Response Theory to Multi-Ion $Na^{+}$ Conduction in NaChBac. <i>Entropy</i> , 2021, 23, 249.	2.2	3
16	Physics of Selective Conduction and Point Mutation in Biological Ion Channels. <i>Physical Review Letters</i> , 2021, 126, 218102.	7.8	3
17	Field-Dependent Dehydration and Optimal Ionic Escape Paths for $C_{2}N$ Membranes. <i>Journal of Physical Chemistry B</i> , 2021, 125, 7044-7059.	2.6	3
18	Stochastic excitation and synchronization in coupled FitzHugh-Nagumo elements. , 2003, , .		2

#	ARTICLE	IF	CITATIONS
19	Physics-Based Modeling for Stage Separation Recontact. Journal of Spacecraft and Rockets, 2012, 49, 231-242.	1.9	2
20	Two-Phase Flow Modeling of Cryogenic Loading Operations. , 0, , .		2
21	Multi-Scale Modelling of the Bound Metal Deposition Manufacturing of Ti6Al4V. Thermo, 2022, 2, 116-148.	1.3	2
22	Cardiovascular oscillations: in search of a nonlinear parametric model. , 2003, , .		1
23	Solution to the boundary values problem in chaotic flows and maps. , 2003, , .		1
24	Escape from a chaotic attractor with fractal basin boundaries. , 2003, , .		1
25	Inference of stochastic nonlinear oscillators with applications to physiological problems. , 2004, , .		1
26	Discrete Conductance Levels in Calcium Channel Models: Multiband Calcium Selective Conduction. Biophysical Journal, 2013, 104, 358a.	0.5	1
27	Multicomponent Conduction and Selectivity of Biological Channels. Biophysical Journal, 2018, 114, 480a.	0.5	1
28	Introduction to the Physics of Ionic Conduction in Narrow Biological and Artificial Channels. Entropy, 2021, 23, 644.	2.2	1
29	Nonlinear dynamics of large fluctuations. , 1997, , .		0
30	Bayesian characterization of vertical-cavity surface-emitting lasers. , 2003, , .		0
31	Nonequilibrium distribution at finite noise intensity. , 2003, , .		0
32	Modeling and controlling of stochastic dynamics of complex nonlinear systems. , 2004, 5471, 145.		0
33	Polarization switches in vertical-cavity surface-emitting lasers. , 2004, 5468, 133.		0
34	Bayesian inferential framework for diagnosis of non-stationary systems. , 2007, , .		0
35	IVHM System for a Case Breach Fault in Large Segmented SRMs. , 2009, , .		0
36	Mathematical and Critical Physics Analysis of Engineering Problems: Old-New Way of Doing Things. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
37	On Resolution of the Selectivity/Conductivity Paradox for the Potassium Ion Channel. Biophysical Journal, 2017, 112, 543a.	0.5	0
38	Physics-Based Methods of Failure Analysis and Diagnostics in Human Space Flight. , 2016, , 245-285.		0