

Dmitrii G Luchinsky

List of Publications by Year in descending order

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38
papers

169
citations

1478505

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1199594

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39
all docs

39
docs citations

39
times ranked

146
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-Scale Modelling of the Bound Metal Deposition Manufacturing of Ti6Al4V. Thermo, 2022, 2, 116-148.	1.3	2
2	Application of a Statistical and Linear Response Theory to Multi-Ion Na ⁺ Conduction in NaChBac. Entropy, 2021, 23, 249.	2.2	3
3	Introduction to the Physics of Ionic Conduction in Narrow Biological and Artificial Channels. Entropy, 2021, 23, 644.	2.2	1
4	Physics of Selective Conduction and Point Mutation in Biological Ion Channels. Physical Review Letters, 2021, 126, 218102.	7.8	3
5	Field-Dependent Dehydration and Optimal Ionic Escape Paths for C ₂ N Membranes. Journal of Physical Chemistry B, 2021, 125, 7044-7059.	2.6	3
6	Origin and control of ionic hydration patterns in nanopores. Communications Materials, 2021, 2, .	6.9	4
7	Welding dynamics in an atomistic model of an amorphous polymer blend with polymer-polymer interface. Journal of Polymer Science, 2020, 58, 2051-2061.	3.8	9
8	Exploring the pore charge dependence of K ⁺ and Cl ⁻ permeation across a graphene monolayer: a molecular dynamics study. RSC Advances, 2019, 9, 20402-20414.	3.6	12
9	Multicomponent Conduction and Selectivity of Biological Channels. Biophysical Journal, 2018, 114, 480a.	0.5	1
10	On Resolution of the Selectivity/Conductivity Paradox for the Potassium Ion Channel. Biophysical Journal, 2017, 112, 543a.	0.5	0
11	Physics-Based Methods of Failure Analysis and Diagnostics in Human Space Flight. , 2016, , 245-285.		0
12	Physics based model for online fault detection in autonomous cryogenic loading system. , 2014, , .		3
13	Observation of "Remote Knock-On", a New Permeation-Enhancement Mechanism in Ion Channels. Biophysical Journal, 2014, 106, 133a.	0.5	4
14	Discrete Conductance Levels in Calcium Channel Models: Multiband Calcium Selective Conduction. Biophysical Journal, 2013, 104, 358a.	0.5	1
15	Modeling wave propagation and scattering from impact damage for structural health monitoring of composite sandwich plates. Structural Health Monitoring, 2013, 12, 296-308.	7.5	12
16	Physics-Based Modeling for Stage Separation Recontact. Journal of Spacecraft and Rockets, 2012, 49, 231-242.	1.9	2
17	Mathematical and Critical Physics Analysis of Engineering Problems: Old-New Way of Doing Things. , 2011, , .		0
18	Fault diagnostics and prognostics for large segmented SRMs. , 2009, , .		4

#	ARTICLE	IF	CITATIONS
19	IVHM System for a Case Breach Fault in Large Segmented SRMs. , 2009, , .		0
20	Dynamical inference of hidden biological populations. European Physical Journal B, 2008, 65, 369-377.	1.5	3
21	Model Based IVHM System for the Solid Rocket Booster. Aerospace Conference Proceedings IEEE, 2008, , .	0.0	6
22	Bayesian Framework for In-Flight SRM Data Management and Decision Support. , 2007, , .		9
23	A Bayesian estimation of a stochastic predator-prey model of economic fluctuations. , 2007, , .		3
24	Bayesian inferential framework for diagnosis of non-stationary systems. , 2007, , .		0
25	Modeling and controlling of stochastic dynamics of complex nonlinear systems. , 2004, 5471, 145.		0
26	Polarization switches in vertical-cavity surface-emitting lasers. , 2004, 5468, 133.		0
27	Inference of stochastic nonlinear oscillators with applications to physiological problems. , 2004, , .		1
28	Noise-induced shift of singularities in the pattern of optimal paths. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 314, 386-391.	2.1	9
29	Stochastic excitation and synchronization in coupled FitzHugh-Nagumo elements. , 2003, , .		2
30	Cardiovascular oscillations: in search of a nonlinear parametric model. , 2003, , .		1
31	Bayesian characterization of vertical-cavity surface-emitting lasers. , 2003, , .		0
32	Solution to the boundary values problem in chaotic flows and maps. , 2003, , .		1
33	Escape from a chaotic attractor with fractal basin boundaries. , 2003, , .		1
34	Nonequilibrium distribution at finite noise intensity. , 2003, , .		0
35	Modelling couplings among the oscillators of the cardiovascular system. Physiological Measurement, 2001, 22, 551-564.	2.1	47
36	Fluctuation-induced escape from the basin of attraction of a quasiattractor. JETP Letters, 1999, 69, 825-830.	1.4	18

#	ARTICLE	IF	CITATIONS
37	Nonlinear dynamics of large fluctuations. , 1997, , .		0
38	Two-Phase Flow Modeling of Cryogenic Loading Operations. , 0, , .		2