Alexander Nikolaevich Gorban

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/585825/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	A random six-phase switch regulates pneumococcal virulence via global epigenetic changes. Nature Communications, 2014, 5, 5055.	5.8	264
2	Method of invariant manifold for chemical kinetics. Chemical Engineering Science, 2003, 58, 4751-4768.	1.9	208
3	Single-cell trajectories reconstruction, exploration and mapping of omics data with STREAM. Nature Communications, 2019, 10, 1903.	5.8	198
4	Limits of the Turbine Efficiency for Free Fluid Flow. Journal of Energy Resources Technology, Transactions of the ASME, 2001, 123, 311-317.	1.4	168
5	Maximum Entropy Principle for Lattice Kinetic Equations. Physical Review Letters, 1998, 81, 6-9.	2.9	145
6	Invariant Manifolds for Physical and Chemical Kinetics. Lecture Notes in Physics, 2005, , .	0.3	129
7	Constructive methods of invariant manifolds for kinetic problems. Physics Reports, 2004, 396, 197-403.	10.3	128
8	PRINCIPAL MANIFOLDS AND GRAPHS IN PRACTICE: FROM MOLECULAR BIOLOGY TO DYNAMICAL SYSTEMS. International Journal of Neural Systems, 2010, 20, 219-232.	3.2	102
9	Kinetic signatures of microRNA modes of action. Rna, 2012, 18, 1635-1655.	1.6	99
10	Approximation with random bases: Pro et Contra. Information Sciences, 2016, 364-365, 129-145.	4.0	93
11	Robust simplifications of multiscale biochemical networks. BMC Systems Biology, 2008, 2, 86.	3.0	90
12	Blessing of dimensionality: mathematical foundations of the statistical physics of data. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170237.	1.6	89
13	Correlations, risk and crisis: From physiology to finance. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 3193-3217.	1.2	86
14	Reduction of dynamical biochemical reactions networks in computational biology. Frontiers in Genetics, 2012, 3, 131.	1.1	78
15	Entropy: The Markov Ordering Approach. Entropy, 2010, 12, 1145-1193.	1.1	75
16	Invariant grids for reaction kinetics. Physica A: Statistical Mechanics and Its Applications, 2004, 333, 106-154.	1.2	70
17	Method of invariant manifolds and regularization of acoustic spectra. Transport Theory and Statistical Physics, 1994, 23, 559-632.	0.4	67
18	Independent Component Analysis for Unraveling the Complexity of Cancer Omics Datasets. International Journal of Molecular Sciences, 2019, 20, 4414.	1.8	62

#	Article	IF	CITATIONS
19	Selection Theorem for Systems with Inheritance. Mathematical Modelling of Natural Phenomena, 2007, 2, 1-45.	0.9	58
20	Asymptotology of chemical reaction networks. Chemical Engineering Science, 2010, 65, 2310-2324.	1.9	58
21	Short-Wave Limit of Hydrodynamics: A Soluble Example. Physical Review Letters, 1996, 77, 282-285.	2.9	57
22	General approach to constructing models of the Boltzmann equation. Physica A: Statistical Mechanics and Its Applications, 1994, 206, 401-420.	1.2	56
23	Law of the Minimum Paradoxes. Bulletin of Mathematical Biology, 2011, 73, 2013-2044.	0.9	56
24	Stability and stabilization of the lattice Boltzmann method. Physical Review E, 2007, 75, 036711.	0.8	55
25	Quasichemical Models of Multicomponent Nonlinear Diffusion. Mathematical Modelling of Natural Phenomena, 2011, 6, 184-262.	0.9	55
26	Corrections and enhancements of quasi-equilibrium states. Journal of Non-Newtonian Fluid Mechanics, 2001, 96, 203-219.	1.0	54
27	The Michaelis-Menten-Stueckelberg Theorem. Entropy, 2011, 13, 966-1019.	1.1	54
28	Multivariate Gaussian and Student-t process regression for multi-output prediction. Neural Computing and Applications, 2020, 32, 3005-3028.	3.2	53
29	Dynamic correction to moment approximations. Physical Review E, 1998, 57, 1668-1672.	0.8	52
30	Correction of AI systems by linear discriminants: Probabilistic foundations. Information Sciences, 2018, 466, 303-322.	4.0	51
31	Elastic Principal Graphs and Manifolds and their Practical Applications. Computing (Vienna/New York), 2005, 75, 359-379.	3.2	50
32	Extended detailed balance for systems with irreversible reactions. Chemical Engineering Science, 2011, 66, 5388-5399.	1.9	48
33	SOM: Stochastic initialization versus principal components. Information Sciences, 2016, 364-365, 213-221.	4.0	48
34	How Deep Should be the Depth of Convolutional Neural Networks: a Backyard Dog Case Study. Cognitive Computation, 2020, 12, 388-397.	3.6	48
35	Hydrodynamics from Grad's equations: What can we learn from exact solutions?. Annalen Der Physik, 2002, 11, 783-833.	0.9	47
		_	

Principal Graphs and Manifolds. , 2010, , 28-59.

#	Article	IF	CITATIONS
37	The unreasonable effectiveness of small neural ensembles in high-dimensional brain. Physics of Life Reviews, 2019, 29, 55-88.	1.5	46
38	Quasi-equilibrium lattice Boltzmann method. European Physical Journal B, 2007, 56, 135-139.	0.6	45
39	Robust and Scalable Learning of Complex Intrinsic Dataset Geometry via ElPiGraph. Entropy, 2020, 22, 296.	1.1	45
40	Thermodynamic parameterization. Physica A: Statistical Mechanics and Its Applications, 1992, 190, 393-404.	1.2	43
41	Hilbert's 6th Problem: exact and approximate hydrodynamic manifolds for kinetic equations. Bulletin of the American Mathematical Society, 2013, 51, 187-246.	0.8	43
42	Modeling Working Memory in a Spiking Neuron Network Accompanied by Astrocytes. Frontiers in Cellular Neuroscience, 2021, 15, 631485.	1.8	43
43	Automatic short answer grading and feedback using text mining methods. Procedia Computer Science, 2020, 169, 726-743.	1.2	42
44	Stochastic separation theorems. Neural Networks, 2017, 94, 255-259.	3.3	41
45	Dynamic and thermodynamic models of adaptation. Physics of Life Reviews, 2021, 37, 17-64.	1.5	41
46	Nonequilibrium entropy limiters in lattice Boltzmann methods. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 385-406.	1.2	40
47	Scikit-Dimension: A Python Package for Intrinsic Dimension Estimation. Entropy, 2021, 23, 1368.	1.1	40
48	Reduced description in the reaction kinetics. Physica A: Statistical Mechanics and Its Applications, 2000, 275, 361-379.	1.2	39
49	Family of additive entropy functions out of thermodynamic limit. Physical Review E, 2003, 67, 016104.	0.8	39
50	Handling missing data in large healthcare dataset: A case study of unknown trauma outcomes. Computers in Biology and Medicine, 2016, 75, 203-216.	3.9	39
51	Approximation of continuous functions of several variables by an arbitrary nonlinear continuous function of one variable, linear functions, and their superpositions. Applied Mathematics Letters, 1998, 11, 45-49.	1.5	37
52	Dynamical modeling of microRNA action on the protein translation process. BMC Systems Biology, 2010, 4, 13.	3.0	37
53	Model reduction in chemical dynamics: slow invariant manifolds, singular perturbations, thermodynamic estimates, and analysis of reaction graph. Current Opinion in Chemical Engineering, 2018, 21, 48-59.	3.8	37
54	Chapter 3 Dynamic and Static Limitation in Multiscale Reaction Networks, Revisited. Advances in Chemical Engineering, 2008, , 103-173.	0.5	36

#	Article	IF	CITATIONS
55	Reciprocal relations between kinetic curves. Europhysics Letters, 2011, 93, 20004.	0.7	36
56	High-Dimensional Brain in a High-Dimensional World: Blessing of Dimensionality. Entropy, 2020, 22, 82.	1.1	35
57	Functional CT imaging for identification of the spatial determinants of small-airways disease in adults with asthma. Journal of Allergy and Clinical Immunology, 2019, 144, 83-93.	1.5	34
58	Coupling of the model reduction technique with the lattice Boltzmann method for combustion simulations. Combustion and Flame, 2010, 157, 1833-1849.	2.8	33
59	High-Dimensional Brain: A Tool for Encoding and Rapid Learning of Memories by Single Neurons. Bulletin of Mathematical Biology, 2019, 81, 4856-4888.	0.9	32
60	Evolution of adaptation mechanisms: Adaptation energy, stress, and oscillating death. Journal of Theoretical Biology, 2016, 405, 127-139.	0.8	31
61	The Five Factor Model of Personality and Evaluation of Drug Consumption Risk. Studies in Classification, Data Analysis, and Knowledge Organization, 2017, , 231-242.	0.1	31
62	Ehrenfest's argument extended to a formalism of nonequilibrium thermodynamics. Physical Review E, 2001, 63, 066124.	0.8	30
63	Topological grammars for data approximation. Applied Mathematics Letters, 2007, 20, 382-386.	1.5	30
64	Maximum Entropy Method in Analysis of Genetic Text and Measurement of its Information Content. Open Systems and Information Dynamics, 1998, 5, 265-278.	0.5	29
65	Structure and approximations of the chapman-enskog expansion for the linearized grad equations. Transport Theory and Statistical Physics, 1992, 21, 101-117.	0.4	28
66	Thermodynamics in the limit of irreversible reactions. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 1318-1335.	1.2	28
67	Combustion simulation via lattice Boltzmann and reduced chemical kinetics. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P06013.	0.9	27
68	Three Waves of Chemical Dynamics. Mathematical Modelling of Natural Phenomena, 2015, 10, 1-5.	0.9	26
69	Scattering rates versus moments: Alternative Grad equations. Physical Review E, 1996, 54, R3109-R3112.	0.8	25
70	Stabilization of the lattice Boltzmann method using the Ehrenfests' coarse-graining idea. Physical Review E, 2006, 74, 037703.	0.8	25
71	Mathematical Modeling of microRNA–Mediated Mechanisms of Translation Repression. Advances in Experimental Medicine and Biology, 2013, 774, 189-224.	0.8	25
72	Enhancement of the stability of lattice Boltzmann methods by dissipation control. Physica A: Statistical Mechanics and Its Applications, 2014, 414, 285-299.	1.2	25

#	Article	IF	CITATIONS
73	Quasi-equilibrium closure hierarchies for the Boltzmann equation. Physica A: Statistical Mechanics and Its Applications, 2006, 360, 325-364.	1.2	24
74	Uniqueness of thermodynamic projector and kinetic basis of molecular individualism. Physica A: Statistical Mechanics and Its Applications, 2004, 336, 391-432.	1.2	23
75	Duality in nonextensive statistical mechanics. Physical Review E, 2002, 65, 036128.	0.8	22
76	Relaxational trajectories: global approximations. Physica A: Statistical Mechanics and Its Applications, 1996, 231, 648-672.	1.2	21
77	The general approximation theorem. , 0, , .		21
78	The Blessing of Dimensionality: Separation Theorems in the Thermodynamic Limit**The work is partially supported by Innovate UK, Technology Strategy Board, Knowledge Transfer Partnership grant KTP009890. IFAC-PapersOnLine, 2016, 49, 64-69.	0.5	21
79	Fractional Norms and Quasinorms Do Not Help to Overcome the Curse of Dimensionality. Entropy, 2020, 22, 1105.	1.1	21
80	Title is missing!. Open Systems and Information Dynamics, 2000, 7, 1-17.	0.5	20
81	Irreversibility in the short memory approximation. Physica A: Statistical Mechanics and Its Applications, 2003, 327, 399-424.	1.2	20
82	Codon usage trajectories and 7-cluster structure of 143 complete bacterial genomic sequences. Physica A: Statistical Mechanics and Its Applications, 2005, 353, 365-387.	1.2	20
83	Dynamical robustness of biological networks with hierarchical distribution of time scales. IET Systems Biology, 2007, 1, 238-246.	0.8	20
84	Knowledge Transfer Between Artificial Intelligence Systems. Frontiers in Neurorobotics, 2018, 12, 49.	1.6	20
85	Trajectories, bifurcations, and pseudo-time in large clinical datasets: applications to myocardial infarction and diabetes data. GigaScience, 2020, 9, .	3.3	20
86	Astrocytes mediate analogous memory in a multi-layer neuron–astrocyte network. Neural Computing and Applications, 2022, 34, 9147-9160.	3.2	20
87	Description of nonisothermal reactions in terms of Marcelin-de-Donder kinetics and its generalizations. Reaction Kinetics and Catalysis Letters, 1982, 20, 261-265.	0.6	19
88	One-trial correction of legacy Al systems and stochastic separation theorems. Information Sciences, 2019, 484, 237-254.	4.0	19
89	Fast and user-friendly non-linear principal manifold learning by method of elastic maps. , 2015, , .		18
90	On Adversarial Examples and Stealth Attacks in Artificial Intelligence Systems. , 2020, , .		18

#	Article	IF	CITATIONS
91	Fluorescence-based assay as a new screening tool for toxic chemicals. Scientific Reports, 2016, 6, 33922.	1.6	17
92	Hilbert's sixth problem: the endless road to rigour. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170238.	1.6	16
93	Application of the method of elastic maps in analysis of genetic texts. , 0, , .		15
94	Efficient simulations of detailed combustion fields via the lattice Boltzmann method. International Journal of Numerical Methods for Heat and Fluid Flow, 2011, 21, 494-517.	1.6	15
95	Maxallent : Maximizers of all entropies and uncertainty of uncertainty. Computers and Mathematics With Applications, 2013, 65, 1438-1456.	1.4	15
96	General H-theorem and Entropies that Violate the Second Law. Entropy, 2014, 16, 2408-2432.	1.1	14
97	Detailed balance in micro- and macrokinetics and micro-distinguishability of macro-processes. Results in Physics, 2014, 4, 142-147.	2.0	14
98	Elastic Maps and Nets for Approximating Principal Manifolds and Their Application to Microarray Data Visualization. Lecture Notes in Computational Science and Engineering, 2008, , 96-130.	0.1	14
99	Marcelin-de Donder kinetics near equilibrium. Reaction Kinetics and Catalysis Letters, 1979, 12, 19-23.	0.6	13
100	The Filling of Gaps in Geophysical Time Series by Artificial Neural Networks. Radiocarbon, 2001, 43, 365-371.	0.8	13
101	Macroscopic dynamics through coarse-graining: A solvable example. Physical Review E, 2002, 65, 026116.	0.8	13
102	Order–disorder separation: Geometric revision. Physica A: Statistical Mechanics and Its Applications, 2007, 374, 85-102.	1.2	13
103	Macroscopic clusters induced by diffusion in catalytic oxidation reactions. Chemical Engineering Science, 1980, 35, 2351-2352.	1.9	12
104	Self-Organizing Approach for Automated Gene Identification. Open Systems and Information Dynamics, 2003, 10, 321-333.	0.5	12
105	General Laws of Adaptation to Environmental Factors: from Ecological Stress to Financial Crisis. Mathematical Modelling of Natural Phenomena, 2009, 4, 1-53.	0.9	12
106	Fast construction of correcting ensembles for legacy Artificial Intelligence systems: Algorithms and a case study. Information Sciences, 2019, 485, 230-247.	4.0	12
107	Invariant sets for kinetic equations. Reaction Kinetics and Catalysis Letters, 1979, 10, 187-190.	0.6	11
108	Thermodynamic Tree: The Space of Admissible Paths. SIAM Journal on Applied Dynamical Systems, 2013, 12, 246-278.	0.7	11

#	Article	IF	CITATIONS
109	A statistical model of aggregate fragmentation. New Journal of Physics, 2014, 16, 013031.	1.2	11
110	Generalized Mass Action Law and Thermodynamics of Nonlinear Markov Processes. Mathematical Modelling of Natural Phenomena, 2015, 10, 16-46.	0.9	11
111	Personality Traits and Drug Consumption. , 2019, , .		11
112	Leaders Do Not Look Back, or Do They?. Mathematical Modelling of Natural Phenomena, 2015, 10, 212-231.	0.9	10
113	Beyond Navier–Stokes equations: capillarity of ideal gas. Contemporary Physics, 2017, 58, 70-90.	0.8	10
114	Two-step approximation of space-independent relaxation. Transport Theory and Statistical Physics, 1999, 28, 271-296.	0.4	9
115	Invariant Grids: Method of Complexity Reduction in Reaction Networks. Complexus, 2004, 2, 110-127.	0.7	9
116	Computational diagnosis and risk evaluation for canine lymphoma. Computers in Biology and Medicine, 2014, 53, 279-290.	3.9	9
117	Multiscale principal component analysis. Journal of Physics: Conference Series, 2014, 490, 012081.	0.3	9
118	Learning optimization for decision tree classification of non-categorical data with information gain impurity criterion. , 2014, , .		9
119	General stochastic separation theorems with optimal bounds. Neural Networks, 2021, 138, 33-56.	3.3	9
120	Demystification of Few-shot and One-shot Learning. , 2021, , .		9
121	Blessing of dimensionality at the edge and geometry of few-shot learning. Information Sciences, 2021, 564, 124-143.	4.0	9
122	High-Dimensional Separability for One- and Few-Shot Learning. Entropy, 2021, 23, 1090.	1.1	9
123	Basic Types of Coarse-Graining. , 2006, , 117-176.		9
124	Exploring Automated Pottery Identification [Arch-I-Scan]. Internet Archaeology, 2018, , .	0.0	9
125	Seven clusters in genomic triplet distributions. In Silico Biology, 2003, 3, 471-82.	0.4	9
126	Dynamics of chemical reactions and nonphysical steady states. Reaction Kinetics and Catalysis Letters, 1980, 15, 245-250.	0.6	8

#	Article	IF	CITATIONS
127	Additive generalization of the Boltzmann entropy. Physical Review E, 2003, 67, 067104.	0.8	8
128	Legendre integrators, post-processing and quasiequilibrium. Journal of Non-Newtonian Fluid Mechanics, 2004, 120, 149-167.	1.0	8
129	The Role of Thermodynamics in Model Reduction When Using Invariant Grids. Communications in Computational Physics, 2010, 8, 701-734.	0.7	8
130	Social stress drives the multi-wave dynamics of COVID-19 outbreaks. Scientific Reports, 2021, 11, 22497.	1.6	8
131	Modified Kirchhoff flow with a partially penetrable obstacle and its application to the efficiency of free flow turbines. Mathematical and Computer Modelling, 2002, 35, 1371-1375.	2.0	7
132	Allowed and forbidden regimes of entropy balance in lattice Boltzmann collisions. Physical Review E, 2012, 86, 025701.	0.8	7
133	Piece-wise quadratic approximations of arbitrary error functions for fast and robust machine learning. Neural Networks, 2016, 84, 28-38.	3.3	7
134	Coupling-modulated multi-stability and coherent dynamics in directed networks of heterogeneous nonlinear oscillators with modular topology. IFAC-PapersOnLine, 2016, 49, 62-67.	0.5	7
135	Theoretical aspects of peptide imprinting: screening of MIP (virtual) binding sites for their interactions with amino acids, di- and tripeptides. Journal of the Chinese Advanced Materials Society, 2018, 6, 301-310.	0.7	7
136	Local equivalence of reversible and general Markov kinetics. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 1111-1121.	1.2	6
137	Lyapunov-like Conditions of Forward Invariance and Boundedness for a Class of Unstable Systems. SIAM Journal on Control and Optimization, 2013, 51, 2306-2334.	1.1	6
138	Basic model of purposeful kinesis. Ecological Complexity, 2018, 33, 75-83.	1.4	6
139	Geometrical Complexity of Data Approximators. Lecture Notes in Computer Science, 2013, , 500-509.	1.0	6
140	Universal Lyapunov functions for non-linear reaction networks. Communications in Nonlinear Science and Numerical Simulation, 2019, 79, 104910.	1.7	5
141	Kernel Stochastic Separation Theorems and Separability Characterizations of Kernel Classifiers. , 2019, , \cdot		5
142	Singularities of transient processes in dynamics and beyond. Physics of Life Reviews, 2020, 32, 46-49.	1.5	5
143	What can the randomness of missing values tell you about clinical practice in large data sets of children's vital signs?. Pediatric Research, 2021, 89, 16-21.	1.1	5
144	Transition states and entangled mass action law. Results in Physics, 2021, 22, 103922.	2.0	5

#	Article	IF	CITATIONS
145	The Mystery of Two Straight Lines in Bacterial Genome Statistics. Bulletin of Mathematical Biology, 2007, 69, 2429-2442.	0.9	4
146	Pseudo-outcrop Visualization of Borehole Images and Core Scans. Mathematical Geosciences, 2017, 49, 947-964.	1.4	4
147	Simple model of complex dynamics of activity patterns in developing networks of neuronal cultures. PLoS ONE, 2019, 14, e0218304.	1.1	4
148	Symphony of high-dimensional brain. Physics of Life Reviews, 2019, 29, 115-119.	1.5	4
149	Geometry of Irreversibility. , 2003, , 19-43.		4
150	Beyond The Concept of Manifolds: Principal Trees, Metro Maps, and Elastic Cubic Complexes. Lecture Notes in Computational Science and Engineering, 2008, , 219-237.	0.1	4
151	A Numerical Analyst's View of the Lattice Boltzmann Method. Springer Proceedings in Mathematics, 2011, , 127-150.	0.5	4
152	Astrocytes Organize Associative Memory. Studies in Computational Intelligence, 2020, , 384-391.	0.7	4
153	It is useful to analyze correlation graphs. Physics of Life Reviews, 2022, 40, 15-23.	1.5	4
154	Four basic symmetry types in the universal 7-cluster structure of microbial genomic sequences. In Silico Biology, 2005, 5, 265-82.	0.4	4
155	Computational diagnosis of canine lymphoma. Journal of Physics: Conference Series, 2014, 490, 012135.	0.3	3
156	Fast Sampling of Evolving Systems with Periodic Trajectories. Mathematical Modelling of Natural Phenomena, 2016, 11, 73-88.	0.9	3
157	Tackling Rare False-Positives in Face Recognition: A Case Study. , 2018, , .		3
158	Do Fractional Norms and Quasinorms Help to Overcome the Curse of Dimensionality?. , 2019, , .		3
159	Drug Use and Personality Profiles. , 2019, , 5-33.		3
160	Transient concentration extremum and conservatively perturbed equilibrium. Chemical Engineering Science, 2021, 231, 116295.	1.9	3
161	Coloring Panchromatic Nighttime Satellite Images: Comparing the Performance of Several Machine Learning Methods. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	3
162	Self-Simplification in Darwin's Systems. Lecture Notes in Computational Science and Engineering, 2011, , 311-344.	0.1	3

#	Article	IF	CITATIONS
163	Modeling Progression of Single Cell Populations Through the Cell Cycle as a Sequence of Switches. Frontiers in Molecular Biosciences, 2021, 8, 793912.	1.6	3
164	Schrödinger operator in an overfull set. Europhysics Letters, 1998, 42, 113-118.	0.7	2
165	Riabouchinsky flow with partially penetrable obstacle. Mathematical and Computer Modelling, 2002, 35, 1365-1370.	2.0	2
166	PCA and K-Means Decipher Genome. Lecture Notes in Computational Science and Engineering, 2008, , 309-323.	0.1	2
167	Collective dynamics: when one plus one does not make two. Mathematical Medicine and Biology, 2011, 28, 85-88.	0.8	2
168	Kinetic path summation, multi-sheeted extension of master equation, and evaluation of ergodicity coefficient. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 1009-1025.	1.2	2
169	Scene analysis assisting for AWB using binary decision trees and average image metrics. , 2014, , .		2
170	Directed cycles and multi-stability of coherent dynamics in systems of coupled nonlinear oscillators. IFAC-PapersOnLine, 2015, 48, 19-24.	0.5	2
171	Forward-Invariant Peeling in Chemical Dynamics: a Simple Case Study. Mathematical Modelling of Natural Phenomena, 2015, 10, 126-134.	0.9	2
172	Data analysis with arbitrary error measures approximated by piece-wise quadratic PQSQ functions. , 2018, , .		2
173	Mobility cost and degenerated diffusion in kinesis models. Ecological Complexity, 2018, 36, 16-21.	1.4	2
174	Short-term memory in neuron-astrocyte network. , 2020, , .		2
175	Basic, simple and extendable kinetic model of protein synthesis. Mathematical Biosciences and Engineering, 2019, 16, 6602-6622.	1.0	2
176	CNN-Based Spectral Super-Resolution of Panchromatic Night-Time Light Imagery: City-Size-Associated Neighborhood Effects. Sensors, 2021, 21, 7662.	2.1	2
177	High order orthogonal tensor networks: information capacity and reliability. , 0, , .		1
178	Nonarbitrary regularization of acoustic spectra. Transport Theory and Statistical Physics, 1993, 22, 121-124.	0.4	1
179	Technical note: On "solid liquid―limit of hydrodynamic equations. Transport Theory and Statistical Physics, 1995, 24, 1419-1421.	0.4	1
180	Invariance correction to Grad's equations: where to go beyond approximations?. Continuum Mechanics and Thermodynamics, 2005, 17, 311-335.	1.4	1

#	Article	IF	CITATIONS
181	Branching Principal Components: Elastic Graphs, Topological Grammars and Metro Maps. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	1
182	Stable simulation of fluid flow with high-Reynolds number using Ehrenfests' steps. Numerical Algorithms, 2007, 45, 389-408.	1.1	1
183	Further results on Lyapunov-like conditions of forward invariance and boundedness for a class of unstable systems. , 2014, , .		1
184	Is it possible to predict long-term success with k-NN? Case study of four market indices (FTSE100, DAX,) Tj ETQq	0 0 0 rgBT 0.3	- /Qverlock 10
185	Simple model of complex bursting dynamics in developing networks of neuronal cultures. IFAC-PapersOnLine, 2016, 49, 68-73.	0.5	1
186	Efficiency of Shallow Cascades for Improving Deep Learning Al Systems. , 2018, , .		1
187	Bringing the Blessing of Dimensionality to the Edge. , 2019, , .		1
188	Modelling working memory in neuron-astrocyte network. , 2021, , .		1
189	Parametric response map registered CT feature and small airway physiology analysis in asthma. , 2017, , .		1
190	Universal Seven-Cluster Structure of Genome Fragment Distribution: Basic Symmetry in Triplet Frequencies. , 2006, , 153-163.		1
191	Simplest model of self-oscillations in association reactions. Reaction Kinetics and Catalysis Letters, 1985, 27, 153-155.	0.6	0
192	Jointly dissipative operators and their applications. Siberian Mathematical Journal, 1992, 33, 19-23.	0.2	0
193	Backpropagation of accuracy. , 0, , .		0
194	Explicit reduced-order integral formulations of state and parameter estimation problems for a class of nonlinear systems. , 2013, , .		0
195	Fast Numerical Evaluation of Periodic Solutions for a Class of Nonlinear Systems and Its Applications for Parameter Estimation Problems. Communications in Computer and Information Science, 2018, , 137-151.	0.4	0
196	Methods of Data Analysis. , 2019, , 35-59.		0
197	Results of Data Analysis. , 2019, , 61-120.		0
198	Using Convolutional Neural Networks to Distinguish Different Sign Language Alphanumerics. Proceedings of the International Neural Networks Society, 2020, , 276-285.	0.6	0

#	Article	IF	CITATIONS
199	Elastic principal graphs for clinical trajectory analysis in COPD: a COPDGene study. , 2021, , .		0