

# Till D Frank

## List of Publications by Year in descending order

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150  
papers

2,891  
citations

201674  
27  
h-index

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48  
g-index

158  
all docs

158  
docs citations

158  
times ranked

1250  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards a comprehensive theory of brain activity: Physica D: Nonlinear Phenomena, 2000, 144, 62-86.	2.8	199
2	Delay Fokker-Planck equations, Novikov's theorem, and Boltzmann distributions as small delay approximations. Physical Review E, 2005, 72, 011112.	2.1	168
3	Delay Fokker-Planck equations, perturbation theory, and data analysis for nonlinear stochastic systems with time delays. Physical Review E, 2005, 71, 031106.	2.1	165
4	Impacts of noise on a field theoretical model of the human brain. Physica D: Nonlinear Phenomena, 1999, 127, 233-249.	2.8	107
5	Fokker-Planck perspective on stochastic delay systems: Exact solutions and data analysis of biological systems. Physical Review E, 2003, 68, 021912.	2.1	86
6	Exact time-dependent solutions of the Renyi Fokker-Planck equation and the Fokker-Planck equations related to the entropies proposed by Sharma and Mittal. Physica A: Statistical Mechanics and Its Applications, 2000, 285, 351-366.	2.6	85
7	H-theorem for nonlinear Fokker-Planck equations related to generalized thermostatics. Physica A: Statistical Mechanics and Its Applications, 2001, 295, 455-474.	2.6	81
8	Stochastic feedback, nonlinear families of Markov processes, and nonlinear Fokker-Planck equations. Physica A: Statistical Mechanics and Its Applications, 2004, 331, 391-408.	2.6	73
9	Nonlinear Fokker-Planck equations whose stationary solutions make entropy-like functionals stationary. Physica A: Statistical Mechanics and Its Applications, 1999, 272, 497-508.	2.6	72
10	NF- $\kappa$ B and HIF display synergistic behaviour during hypoxic inflammation. Cellular and Molecular Life Sciences, 2012, 69, 1319-1329.	5.4	72
11	Generalized Fokker-Planck equations derived from generalized linear nonequilibrium thermodynamics. Physica A: Statistical Mechanics and Its Applications, 2002, 310, 397-412.	2.6	67
12	A quantitative dynamical systems approach to differential learning: self-organization principle and order parameter equations. Biological Cybernetics, 2008, 98, 19-31.	1.3	67
13	Multivariate Ornstein-Uhlenbeck processes with mean-field dependent coefficients: Application to postural sway. Physical Review E, 2000, 63, 011905.	2.1	64
14	Noise-covered drift bifurcation of dissipative solitons in a planar gas-discharge system. Physical Review E, 2003, 67, 056220.	2.1	63
15	Measuring group synchrony: a cluster-phase method for analyzing multivariate movement time-series. Frontiers in Physiology, 2012, 3, 405.	2.8	57
16	Order Parameter Dynamics of Body-scaled Hysteresis and Mode Transitions in Grasping Behavior. Journal of Biological Physics, 2009, 35, 127-147.	1.5	56
17	On a test statistic for the Kuramoto order parameter of synchronization: An illustration for group synchronization during rocking chairs. Physica D: Nonlinear Phenomena, 2010, 239, 2084-2092.	2.8	52
18	Multivariate Markov processes for stochastic systems with delays: Application to the stochastic Gompertz model with delay. Physical Review E, 2002, 66, 011914.	2.1	44

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19	Behavioral dynamics of the affordance “graspable”. Attention, Perception, and Psychophysics, 2011, 73, 1948-1965.	1.3	43
20	Multivariate nonlinear Fokker-Planck equations and generalized thermostatics. Physica A: Statistical Mechanics and Its Applications, 2001, 292, 392-410.	2.6	41
21	Generalized thermostatics based on the Sharma-Mittal entropy and escort mean values. European Physical Journal B, 2002, 30, 543-549.	1.5	38
22	H-theorem for a mean field model describing coupled oscillator systems under external forces. Physica D: Nonlinear Phenomena, 2001, 150, 219-236.	2.8	37
23	Analytical results for fundamental time-delayed feedback systems subjected to multiplicative noise. Physical Review E, 2004, 69, 061104.	2.1	36
24	Generalized multivariate Fokker-Planck equations derived from kinetic transport theory and linear nonequilibrium thermodynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 305, 150-159.	2.1	35
25	Negative hysteresis in the behavioral dynamics of the affordance “graspable”. Attention, Perception, and Psychophysics, 2013, 75, 1075-1091.	1.3	35
26	A Langevin approach for the microscopic dynamics of nonlinear Fokker-Planck equations. Physica A: Statistical Mechanics and Its Applications, 2001, 301, 52-62.	2.6	34
27	Stochastic order parameter equation of isometric force production revealed by drift-diffusion estimates. Physical Review E, 2006, 74, 051905.	2.1	27
28	A cluster phase analysis for collective behavior in team sports. Human Movement Science, 2018, 59, 96-111.	1.4	26
29	Theoretical analysis of destabilization resonances in time-delayed stochastic second-order dynamical systems and some implications for human motor control. Physical Review E, 2006, 73, 021901.	2.1	25
30	Multistable Pattern Formation Systems: Candidates for Physical Intelligence?. Ecological Psychology, 2012, 24, 220-240.	1.1	25
31	A limit cycle oscillator model for cycling mood variations of bipolar disorder patients derived from cellular biochemical reaction equations. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 2107-2119.	3.3	25
32	Maier-Saupe model of liquid crystals: Isotropic-nematic phase transitions and second-order statistics studied by Shiino’s perturbation theory and strongly nonlinear Smoluchowski equations. Physical Review E, 2005, 72, 041703.	2.1	24
33	On a multistable competitive network model in the case of an inhomogeneous growth rate spectrum: With an application to priming. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 4127-4133.	2.1	24
34	Autocorrelation functions of nonlinear Fokker-Planck equations. European Physical Journal B, 2003, 37, 139-142.	1.5	23
35	Single particle dynamics of many-body systems described by Vlasov-Fokker-Planck equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 319, 173-180.	2.1	22
36	Kramers-Moyal expansion for stochastic differential equations with single and multiple delays: Applications to financial physics and neurophysics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 360, 552-562.	2.1	21

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37	On a multistable dynamic model of behavioral and perceptual infant development. <i>Developmental Psychobiology</i> , 2010, 52, 352-371.	1.6	20
38	Interplay between order-parameter and system parameter dynamics: considerations on perceptual-cognitive-behavioral mode-mode transitions exhibiting positive and negative hysteresis and on response times. <i>Journal of Biological Physics</i> , 2015, 41, 257-292.	1.5	20
39	A note on the Markov property of stochastic processes described by nonlinear Fokker-Planck equations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 320, 204-210.	2.6	19
40	Nonlinear Markov processes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 4553-4555.	2.1	19
41	Formal Derivation of Lotka-Volterra-Haken Amplitude Equations of Task-Related Brain Activity in Multiple, Consecutively Performed Tasks. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016, 26, 1650164.	1.7	19
42	Classical Langevin equations for the free electron gas and blackbody radiation. <i>Journal of Physics A</i> , 2004, 37, 3561-3567.	1.6	18
43	Secondary Bifurcations in a Lotka-Volterra Model for N Competitors with Applications to Action Selection and Compulsive Behaviors. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2014, 24, 1450156.	1.7	18
44	Determinism and Self-Organization of Human Perception and Performance. <i>Springer Series in Synergetics</i> , 2019, , .	0.4	18
45	COVID-19 ORDER PARAMETERS AND ORDER PARAMETER TIME CONSTANTS OF ITALY AND CHINA: A MODELING APPROACH BASED ON SYNERGETICS. <i>Journal of Biological Systems</i> , 2020, 28, 589-608.	1.4	18
46	Active systems with Nambu dynamics: with applications to rod welding for haptic length perception and self-propagating systems on two-spheres. <i>European Physical Journal B</i> , 2010, 74, 195-203.	1.5	17
47	Time-dependent solutions for stochastic systems with delays: Perturbation theory and applications to financial physics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 357, 275-283.	2.1	16
48	Versatility of Cooperative Transcriptional Activation: A Thermodynamical Modeling Analysis for Greater-Than-Additive and Less-Than-Additive Effects. <i>PLoS ONE</i> , 2012, 7, e34439.	2.5	16
49	On reducible nonlinear time-delayed stochastic systems: fluctuation-dissipation relations, transitions to bistability, and secondary transitions to non-stationarity. <i>Journal of Physics A</i> , 2005, 38, 10069-10083.	1.6	15
50	ON A MOMENT-BASED DATA ANALYSIS METHOD FOR CANONICAL-DISSIPATIVE OSCILLATORY SYSTEMS. <i>Fluctuation and Noise Letters</i> , 2010, 09, 69-87.	1.5	15
51	Oscillatory nonequilibrium Nambu systems: the canonical-dissipative Yamaleev oscillator. <i>European Physical Journal B</i> , 2012, 85, 1.	1.5	15
52	Short-time correlations of many-body systems described by nonlinear Fokker-Planck equations and Vlasov-Fokker-Planck equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 337, 224-234.	2.1	14
53	Markov chains of nonlinear Markov processes and an application to a winner-takes-all model for social conformity. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 282001.	2.1	14
54	A Fokker-Planck approach to canonical-dissipative Nambu systems: With an application to human motor control during dynamic haptic perception. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 3136-3142.	2.1	14

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55	From the W-Method to the Canonical-Dissipative Method for Studying Uni-Manual Rhythmic Behavior. Motor Control, 2011, 15, 550-567.	0.6	14
56	A SYNERGETIC GAIT TRANSITION MODEL FOR HYSTERETIC GAIT TRANSITIONS FROM WALKING TO RUNNING. Journal of Biological Systems, 2016, 24, 51-61.	1.4	14
57	COVID-19 interventions in some European countries induced bifurcations stabilizing low death states against high death states: An eigenvalue analysis based on the order parameter concept of synergetics. Chaos, Solitons and Fractals, 2020, 140, 110194.	5.1	14
58	Dynamic mean field models: H-theorem for stochastic processes and basins of attraction of stationary processes. Physica D: Nonlinear Phenomena, 2004, 195, 229-243.	2.8	13
59	Strongly Nonlinear Stochastic Processes in Physics and the Life Sciences. ISRN Mathematical Analysis, 2013, 2013, 1-28.	0.4	13
60	Perception adapts via top-down regulation to task repetition: A Lotkaâ€“Volterraâ€“Haken modeling analysis of experimental data. Journal of Integrative Neuroscience, 2016, 15, 67-79.	1.7	13
61	Critical Fluctuations and $1/f$ -Activity of Neural Fields Involving Transmission Delays. Acta Physica Polonica A, 2005, 108, 1021-1040.	0.5	13
62	Symmetry and order parameter dynamics of the human odometer. Biological Cybernetics, 2015, 109, 63-73.	1.3	12
63	Non-equilibrium thermodynamical description of rhythmic motion patterns of active systems: A canonical-dissipative approach. BioSystems, 2015, 128, 26-36.	2.0	11
64	Correlations Between Hysteretic Categorical and Continuous Judgments of Perceptual Stimuli Supporting a Unified Dynamical Systems Approach to Perception. Perception, 2018, 47, 44-66.	1.2	11
65	SEIR order parameters and eigenvectors of the three stages of completed COVID-19 epidemics: with an illustration for Thailand January to May 2020. Physical Biology, 2021, 18, 046002.	1.8	11
66	Nonlinear Markov processes: Deterministic case. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6235-6239.	2.1	10
67	Multistable selection equations of pattern formation type in the case of inhomogeneous growth rates: With applications to two-dimensional assignment problems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1465-1469.	2.1	10
68	Active and Purely Dissipative Nambu Systems in General Thermostatistical Settings Described by Nonlinear Partial Differential Equations Involving Generalized Entropy Measures. Entropy, 2017, 19, 8.	2.2	10
69	Portfolio theory of optimal isometric force production: Variability predictions and nonequilibrium fluctuationâ€“dissipation theorem. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 3562-3568.	2.1	9
70	A nonextensive thermostatistical approach to the Haaßsinski theory of accelerator beams. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 4828-4838.	2.6	9
71	Nonlinear attractor dynamics in the fundamental and extended prism adaptation paradigm. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 1022-1030.	2.1	9
72	Symmetry axiom of Hakenâ€“Kelsoâ€“Bunz coordination dynamics revisited in the context of cognitive activity. Journal of Mathematical Psychology, 2012, 56, 149-165.	1.8	9

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73	Optical Bistability Investigation in a Nonlinear Silicon Microring Circuit. Journal of Lightwave Technology, 2013, 31, 1101-1105.	4.6	9
74	Body-scaled perception is subjected to adaptation when repetitively judging opportunities for grasping. Experimental Brain Research, 2016, 234, 2731-2743.	1.5	9
75	SIMPLICITY FROM COMPLEXITY: ON THE SIMPLE AMPLITUDE DYNAMICS UNDERLYING COVID-19 OUTBREAKS IN CHINA. International Journal of Modeling, Simulation, and Scientific Computing, 2020, 23, 2050022.	1.4	9
76	Multistable Perception in Schizophrenia: A Model-based Analysis via Coarse-grained Order Parameter Dynamics and a Comment on the 4th Law. Universal Journal of Psychology, 2014, 2, 231-240.	0.3	9
77	Stability analysis of mean field models described by Fokker-Planck equations. Annalen Der Physik, 2002, 11, 707-716.	2.4	8
78	Modelling the stochastic single particle dynamics of relativistic fermions and bosons using nonlinear drift-diffusion equations. Mathematical and Computer Modelling, 2005, 42, 1057-1062.	2.0	8
79	Nonextensive cutoff distributions of postural sway for the old and the young. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 2503-2510.	2.6	8
80	Unstable Modes and Order Parameters of Bistable Signaling Pathways at Saddle-Node Bifurcations: A Theoretical Study Based on Synergetics. Advances in Mathematical Physics, 2016, 2016, 1-7.	0.8	8
81	COVID-19 outbreaks follow narrow paths: A computational phase portrait approach based on nonlinear physics and synergetics. International Journal of Modern Physics C, 2021, 32, 2150110.	1.7	8
82	Action Flow in Obsessive-Compulsive Disorder Rituals: a model based on Extended Synergetics and a Comment on the 4th Law. Journal of Advances in Physics, 2014, 5, 845-853.	0.2	8
83	On the linear discrepancy model and risky shifts in group behavior: a nonlinear Fokker-Planck perspective. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 155001.	2.1	7
84	Catching transcriptional regulation by thermostistical modeling. Physical Biology, 2012, 9, 045007.	1.8	7
85	Embodied gestalts: Unstable visual phenomena become stable when they are stimuli for competitive action selection. Attention, Perception, and Psychophysics, 2019, 81, 2330-2342.	1.3	7
86	SARS-Coronavirus-2 Nonlinear Dynamics in Patients: Three-Dimensional State and Amplitude Space Descriptions. Journal of the Physical Society of Japan, 2021, 90, 073802.	1.6	7
87	A nonlinear physics model based on extended synergetics for the flow of infant actions during infant-mother face-to-face communications. International Journal of Scientific World, 2014, 2, 62-74.	3.0	7
88	On a Nonlinear Master Equation and the Haken-Kelso-Bunz Model. Journal of Biological Physics, 2004, 30, 139-159.	1.5	6
89	TIME SERIES ANALYSIS OF MULTIVARIATE TIME-DELAYED SYSTEMS WITH NOISE: APPLICATIONS TO LASER PHYSICS AND HUMAN MOVEMENT. Stochastics and Dynamics, 2005, 05, 297-306.	1.2	6
90	EXACT SOLUTIONS AND MONTE CARLO SIMULATIONS OF SELF-CONSISTENT LANGEVIN EQUATIONS: A CASE STUDY FOR THE COLLECTIVE DYNAMICS OF STOCK PRICES. International Journal of Modern Physics B, 2007, 21, 1099-1112.	2.0	6

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91	Unifying mass-action kinetics and Newtonian mechanics by means of Nambu brackets. Journal of Biological Physics, 2011, 37, 375-385.	1.5	6
92	Linear and Non-linear Fokker-Planck Equations. , 2009, , 5239-5265.		6
93	Nonlinear physics approach to RNA cross-replication: Marginal stability, generalized logistic growth, and impacts of degradation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3851-3857.	2.1	5
94	Symmetry Breaking Analysis of Prism Adaptation's Latent Aftereffect. Cognitive Science, 2012, 36, 674-697.	1.7	5
95	Minimalistic model for navigation of mobile robots around obstacles based on complex-number calculus and inspired by human navigation behavior. Mathematics and Computers in Simulation, 2014, 97, 108-122.	4.4	5
96	On a Fitzhugh-Nagumo type model for the pulse-like jasmonate defense response in plants. Mathematical Biosciences, 2016, 273, 80-90.	1.9	5
97	Asymptotic properties of nonlinear diffusion, nonlinear drift-diffusion, and nonlinear reaction-diffusion equations. Annalen Der Physik, 2004, 13, 461-469.	2.4	4
98	Smoluchowski approach to nonlinear Vlasov-Fokker-Planck equations: Stability analysis of beam dynamics and Haassinski theory. Physical Review Special Topics: Accelerators and Beams, 2006, 9, .	1.8	4
99	Parametric solution method for self-consistency equations and order parameter equations derived from nonlinear Fokker-Planck equations. Physica D: Nonlinear Phenomena, 2009, 238, 1186-1196.	2.8	4
100	Chaos from nonlinear Markov processes: Why the whole is different from the sum of its parts. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 4241-4247.	2.6	4
101	Deterministic and stochastic components of nonlinear Markov models with an application to decision making during the bailout votes 2008 (USA). European Physical Journal B, 2009, 70, 249-255.	1.5	4
102	VIRIAL THEOREM AND NON-EQUILIBRIUM CANONICAL-DISSIPATIVE DISTRIBUTIONS CHARACTERIZING PARKINSON TREMOR. International Journal of Modern Physics B, 2011, 25, 243-253.	2.0	4
103	COLLECTIVE BEHAVIOR OF BIOPHYSICAL SYSTEMS WITH THERMODYNAMIC FEEDBACK LOOPS: A CASE STUDY FOR A NONLINEAR MARKOV MODEL - THE TAKATSUJI SYSTEM. Modern Physics Letters B, 2011, 25, 551-568.	1.9	4
104	CANONICAL-DISSIPATIVE NONEQUILIBRIUM ENERGY DISTRIBUTIONS: PARAMETER ESTIMATION VIA IMPLICIT MOMENT METHOD, IMPLEMENTATION AND APPLICATION. International Journal of Modern Physics B, 2013, 27, 1350156.	2.0	4
105	Nonequilibrium Thermodynamic State Variables of Human Self-Paced Rhythmic Motions: Canonical-Dissipative Approach, Augmented Langevin Equation, and Entropy Maximization. Open Systems and Information Dynamics, 2015, 22, 1550007.	1.2	4
106	In-phase and anti-phase synchronization in an active Nambu mechanics system. Acta Mechanica, 2016, 227, 2703-2717.	2.1	4
107	Rise and Decay of the COVID-19 Epidemics in the USA and the State of New York in the First Half of 2020: A Nonlinear Physics Perspective Yielding Novel Insights. BioMed Research International, 2021, 2021, 1-12.	1.9	4
108	A data-analysis method for identifying differential effects of time-delayed feedback forces and periodic driving forces in stochastic systems. European Physical Journal B, 2007, 60, 203-215.	1.5	3



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109	Stochastic Processes and Mean Field Systems Defined by Nonlinear Markov Chains: An Illustration for a Model of Evolutionary Population Dynamics. Brazilian Journal of Physics, 2011, 41, 129-134.	1.4	3
110	Nambu Bracket Formulation of Nonlinear Biochemical Reactions Beyond Elementary Mass Action Kinetics. Journal of Nonlinear Mathematical Physics, 2012, 19, 81.	1.3	3
111	Photon entanglement on a chip, optical instability, and Haken's Zwanzig model. Physica D: Nonlinear Phenomena, 2021, 415, 132760.	2.8	3
112	A MEAN FIELD APPROACH TO SELF-ORGANIZATION IN SPATIALLY EXTENDED PERCEPTION-ACTION AND PSYCHOLOGICAL SYSTEMS. Studies of Nonlinear Phenomena in Life Science, 2003, , 159-179.	0.2	3
113	On the Interplay between Order Parameter Dynamics and System Parameter Dynamics in Human Perceptual-Cognitive-Behavioral Systems. Nonlinear Dynamics, Psychology, and Life Sciences, 2015, 19, 111-46.	0.2	3
114	Characterizing stages of COVID-19 epidemics: a nonlinear physics perspective based on amplitude equations. European Physical Journal: Special Topics, 2022, , 1-16.	2.6	3
115	On the characterization of nanoporous materials by means of empirical and intrinsic transport coefficients. Science and Technology of Advanced Materials, 2005, 6, 221-223.	6.1	2
116	MICRO-DYNAMIC ASSOCIATED WITH TWO-STATE NONLINEAR MARKOV PROCESSES: WITH AN APPLICATION TO FREE RECALL. Fluctuation and Noise Letters, 2011, 10, 41-58.	1.5	2
117	Balance affects prism adaptation: evidence from the latent aftereffect. Experimental Brain Research, 2013, 231, 425-432.	1.5	2
118	Entanglement near the optical instability point in damped four wave mixing systems. Physica Scripta, 2018, 93, 065102.	2.5	2
119	Complex Dynamical Systems in Human Development. Complexity, 2019, 2019, 1-3.	1.6	2
120	Amplitude Equations and Bifurcation Diagrams for Multifrequency Synchronization of Canonical-Dissipative Oscillators. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050101.	1.7	2
121	Swift-Hohenberg Model of Liquid Artificial Humans Mimicking Human Graded Reactions. Nonlinear Phenomena in Complex Systems, 2021, 24, 56-70.	0.3	2
122	SARS-coronavirus-2 infections: biological instabilities characterized by order parameters. Physical Biology, 2022, , .	1.8	2
123	Eigenvalue analysis of SARS-CoV-2 viral load data: illustration for eight COVID-19 patients. International Journal of Data Science and Analytics, 2022, , 1-10.	4.1	2
124	NUMERIC AND EXACT SOLUTIONS OF THE NONLINEAR CHAPMAN-KOLMOGOROV EQUATION: A CASE STUDY FOR A NONLINEAR SEMI-GROUP MARKOV MODEL. International Journal of Modern Physics B, 2009, 23, 3829-3843.	2.0	1
125	Fractional Brownian motion analysis does not provide evidence for neurophysiologic feedback mechanisms: a comment on "White matter hyperintensities and dynamics of postural control". Magnetic Resonance Imaging, 2011, 29, 887-888.	1.8	1
126	ON STRONGLY NONLINEAR AUTOREGRESSIVE MODELS: IMPLICATIONS FOR THE THEORY OF TRANSIENT AND STATIONARY RESPONSES OF MANY-BODY SYSTEMS. Fluctuation and Noise Letters, 2013, 12, 1350022.	1.5	1



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127	Effective Single-Step Posttranscriptional Dynamics Allowing for a Direct Maximum Likelihood Estimation of Transcriptional Activity and the Quantification of Sources of Gene Expression Variability with an Illustration for the Hypoxia and TNF $\alpha$ Regulated Inflammatory Pathway. <i>ISRN Computational Biology</i> , 2013, 2013, 1-11.	0.3	1
128	Decision-Making in Physical Intelligent Systems Regulated by Growth Rate Factors. <i>Journal of Computer and Information Science</i> , 2014, 7, 55.	0.3	1
129	Coarse-Grained Order Parameter Dynamics of the Synergetic Computer and Multistable Perception in Schizophrenia. <i>Understanding Complex Systems</i> , 2016, , 247-262.	0.6	1
130	Simplified P-representation operator correspondence applied to quantum systems with generalized Kerr nonlinearity. <i>Modern Physics Letters B</i> , 2019, 33, 1950340.	1.9	1
131	Polyrhythmic multifrequency synchronization in coupled oscillators with exactly solvable attractors. <i>International Journal of Modern Physics B</i> , 2021, 35, 2150047.	2.0	1
132	Determinisms of Behavior and Synergetics. , 2018, , 1-34.		1
133	Determinisms of Behavior and Synergetics. , 2020, , 309-342.		1
134	On a leveraging effect of weak azimuthal inhomogeneities explaining the nonuniqueness of critical Maier-Saupe order parameters. <i>Phase Transitions</i> , 2007, 80, 967-980.	1.3	0
135	Quantum Theoretical Approach to the Integrate-and-Fire Model of Human Decision Making. <i>International Journal of Psychological Studies</i> , 2014, 6, .	0.2	0
136	Order-disorder transitions in time-discrete mean field systems with memory: a novel approach via nonlinear autoregressive models. <i>Physica Scripta</i> , 2015, 90, 055202.	2.5	0
137	Three-factor models versus time series models: quantifying time-dependencies of interactions between stimuli in cell biology and psychobiology for short longitudinal data. <i>Mathematical Medicine and Biology</i> , 2016, 34, dqw001.	1.2	0
138	Reaction kinetics of the jasmonate-isoleucine complex formation during wound-induced plant defense responses: A model-based re-analysis of published data. <i>Journal of Plant Physiology</i> , 2016, 206, 103-113.	3.5	0
139	Front waves in the early RNA world: The Schlögl model and the logistic growth model. <i>Journal of Theoretical Biology</i> , 2016, 392, 62-68.	1.7	0
140	On the Search for Brain Bifurcation Parameters: Lessons From FMRI Studies on Visual Illusions. <i>Biophysical Reviews and Letters</i> , 2021, 16, 77-93.	0.8	0
141	Pattern Formation. <i>Springer Series in Synergetics</i> , 2019, , 99-165.	0.4	0
142	From Self-Organizing Systems to Pattern Formation Systems. <i>Springer Series in Synergetics</i> , 2019, , 63-97.	0.4	0
143	Restructuring Humans and Animals. <i>Springer Series in Synergetics</i> , 2019, , 375-406.	0.4	0
144	Pattern Formation and Continuous Reactions. <i>Springer Series in Synergetics</i> , 2019, , 347-373.	0.4	0

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145	Pattern Formation of Ordinary States. Springer Series in Synergetics, 2019, , 203-269.	0.4	0
146	Pattern Formation of Grand States. Springer Series in Synergetics, 2019, , 271-346.	0.4	0
147	Applications in Clinical Psychology. Springer Series in Synergetics, 2019, , 407-465.	0.4	0
148	Nonlinear Physics of Epidemics: Part C. Understanding Complex Systems, 2022, , 169-192.	0.6	0
149	Epidemiological Models and COVID-19 Epidemics. Understanding Complex Systems, 2022, , 53-81.	0.6	0
150	Model-Based Reproduction Numbers. Understanding Complex Systems, 2022, , 193-216.	0.6	0