

Bohdan Datsko

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

627
citations

687220

13
h-index

839398

18
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25
all docs

25
docs citations

25
times ranked

336
citing authors

#	ARTICLE	IF	CITATIONS
1	Mathematical modeling of complex spatio-temporal dynamics in autocatalytic reaction-diffusion systems with anomalous diffusion. Computational and Mathematical Methods, 2021, 3, e1112.	0.3	2
2	New explicit high-order one-step methods for singular initial value problems. Computational and Mathematical Methods, 2021, 3, e1099.	0.3	0
3	Complex Dynamics in Basic Two-Component Auto-Oscillation Systems with Fractional Derivatives of Different Orders. Lecture Notes in Electrical Engineering, 2020, , 99-112.	0.3	0
4	Mathematical modelling of pattern formation in activator-inhibitor reaction-diffusion systems with anomalous diffusion. Journal of Mathematical Chemistry, 2020, 58, 612-631.	0.7	8
5	Time-Fractional Diffusion-Wave Equation with Mass Absorption in a Sphere under Harmonic Impact. Mathematics, 2019, 7, 433.	1.1	16
6	Complex spatio-temporal solutions in fractional reaction-diffusion systems near a bifurcation point. Fractional Calculus and Applied Analysis, 2018, 21, 237-253.	1.2	22
7	Solitary travelling auto-waves in fractional reaction-diffusion systems. Communications in Nonlinear Science and Numerical Simulation, 2015, 23, 378-387.	1.7	19
8	Recent advances in numerical methods for partial fractional differential equations. , 2014, , .		10
9	Bifurcation characteristics of fractional reaction-diffusion systems. , 2012, , .		1
10	PATTERN FORMATION IN FRACTIONAL REACTION-DIFFUSION SYSTEMS WITH MULTIPLE HOMOGENEOUS STATES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250087.	0.7	21
11	Different Types of Instabilities and Complex Dynamics in Reaction-Diffusion Systems With Fractional Derivatives. Journal of Computational and Nonlinear Dynamics, 2012, 7, .	0.7	17
12	Complex nonlinear dynamics in subdiffusive activator-inhibitor systems. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 1673-1680.	1.7	26
13	Chaotic dynamics in Bonhoffer-van der Pol fractional reaction-diffusion system. Signal Processing, 2011, 91, 452-460.	2.1	8
14	Mathematical modeling of different types of instabilities in time fractional reaction-diffusion systems. Computers and Mathematics With Applications, 2010, 59, 1101-1107.	1.4	69
15	Analysis of the solutions of coupled nonlinear fractional reaction-diffusion equations. Chaos, Solitons and Fractals, 2009, 41, 1095-1104.	2.5	67
16	Different Types of Instabilities and Complex Dynamics in Fractional Reaction-Diffusion Systems. , 2009, , .		0
17	Stability analysis and limit cycle in fractional system with Brusselator nonlinearities. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 4902-4904.	0.9	36
18	Inhomogeneous oscillatory structures in fractional reaction-diffusion systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 619-622.	0.9	7

#	ARTICLE	IF	CITATIONS
19	Analysis of fractional order Bonhoeffer–van der Pol oscillator. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 418-424.	1.2	25
20	Inhomogeneous oscillatory solutions in fractional reaction–diffusion systems and their computer modeling. <i>Applied Mathematics and Computation</i> , 2008, 198, 251-260.	1.4	9
21	Mathematical modeling of time fractional reaction–diffusion systems. <i>Journal of Computational and Applied Mathematics</i> , 2008, 220, 215-225.	1.1	179
22	Interface dynamics for quasi-stationary Stefan problem. <i>Mathematical and Computer Modelling</i> , 2007, 45, 892-898.	2.0	0
23	Pattern formation in a fractional reaction–diffusion system. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 365, 300-306.	1.2	66
24	Analysis of data clusters obtained by self-organizing methods. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 341, 547-555.	1.2	19