## Bohdan Datsko

List of Publications by Year in descending order

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687220 839398 24 627 13 18 citations h-index g-index papers 25 25 25 336 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Mathematical modeling of time fractional reaction–diffusion systems. Journal of Computational and Applied Mathematics, 2008, 220, 215-225.	1.1	179
2	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
3	Analysis of the solutions of coupled nonlinear fractional reaction–diffusion equations. Chaos, Solitons and Fractals, 2009, 41, 1095-1104.	2.5	67
4	Pattern formation in a fractional reaction–diffusion system. Physica A: Statistical Mechanics and Its Applications, 2006, 365, 300-306.	1.2	66
5	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
6	Complex nonlinear dynamics in subdiffusive activator–inhibitor systems. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 1673-1680.	1.7	26
7	Analysis of fractional order Bonhoeffer–van der Pol oscillator. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 418-424.	1.2	25
8	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
9	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
10	Analysis of data clusters obtained by self-organizing methods. Physica A: Statistical Mechanics and Its Applications, 2004, 341, 547-555.	1.2	19
11	Solitary travelling auto-waves in fractional reaction–diffusion systems. Communications in Nonlinear Science and Numerical Simulation, 2015, 23, 378-387.	1.7	19
12	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
13	Time-Fractional Diffusion-Wave Equation with Mass Absorption in a Sphere under Harmonic Impact. Mathematics, 2019, 7, 433.	1.1	16
14	Recent advances in numerical methods for partial fractional differential equations. , 2014, , .		10
15	Inhomogeneous oscillatory solutions in fractional reaction–diffusion systems and their computer modeling. Applied Mathematics and Computation, 2008, 198, 251-260.	1.4	9
16	Chaotic dynamics in Bonhoffer–van der Pol fractional reaction–diffusion system. Signal Processing, 2011, 91, 452-460.	2.1	8
17	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
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	Mathematical modeling of complex spatioâ€temporal dynamics in autocatalytic reactionâ€diffusion systems with anomalous diffusion. Computational and Mathematical Methods, 2021, 3, e1112.	0.3	2
20	Bifurcation characteristics of fractional reaction-diffusion systems. , 2012, , .		1
21	Interface dynamics for quasi-stationary Stefan problem. Mathematical and Computer Modelling, 2007, 45, 892-898.	2.0	O
22	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
23	New explicit highâ€order oneâ€step methods for singular initial value problems. Computational and Mathematical Methods, 2021, 3, e1099.	0.3	O
24	Different Types of Instabilities and Complex Dynamics in Fractional Reaction-Diffusion Systems. , 2009, , .		0