

Enrique Peacock-Lopez

List of Publications by Year in descending order

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51
papers

745
citations

430874

18
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552781

26
g-index

51
all docs

51
docs citations

51
times ranked

376
citing authors

#	ARTICLE	IF	CITATIONS
1	A chemically fueled non-enzymatic bistable network. <i>Nature Communications</i> , 2019, 10, 4636.	12.8	58
2	Mixed-mode oscillations in a self-replicating dimerization mechanism. <i>Biophysical Chemistry</i> , 1997, 65, 171-178.	2.8	44
3	Bifurcation diagrams and Turing patterns in a chemical self-replicating reaction-diffusion system with cross diffusion. <i>Journal of Chemical Physics</i> , 2007, 127, 174903.	3.0	38
4	Turing patterns in a modified Lotka-Volterra model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 342, 90-98.	2.1	35
5	Complex dynamics in a three-level trophic system with intraspecies interaction. <i>Journal of Theoretical Biology</i> , 2005, 232, 491-503.	1.7	35
6	Cross-diffusion in the Templator model of chemical self-replication. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 371, 41-47.	2.1	34
7	BIFURCATIONS, AND TEMPORAL AND SPATIAL PATTERNS OF A MODIFIED LOTKA-VOLTERRA MODEL. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2008, 18, 2223-2248.	1.7	33
8	Chemical oscillations and Turing patterns in a generalized two-variable model of chemical self-replication. <i>Journal of Chemical Physics</i> , 2006, 125, 024908.	3.0	32
9	Complex dynamics in a cross-catalytic self-replication mechanism. <i>Journal of Chemical Physics</i> , 2007, 126, 125104.	3.0	29
10	Turing patterns in a self-replicating mechanism with a self-complementary template. <i>Journal of Chemical Physics</i> , 2000, 113, 2003-2006.	3.0	28
11	Escape over a potential barrier driven by colored noise: Large but finite correlation times. <i>Physical Review A</i> , 1988, 38, 3827-3829.	2.5	27
12	Dye-laser equation with saturation and its best Fokker-Planck equation. <i>Physical Review A</i> , 1989, 39, 4026-4035.	2.5	26
13	Coupled Oscillations and Circadian Rhythms in Molecular Replication Networks. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 60-65.	4.6	25
14	Relations among effective Fokker-Planck equations for systems driven by colored noise. <i>Physical Review A</i> , 1988, 37, 3530-3535.	2.5	23
15	Switching induced oscillations in the logistic map. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 1028-1032.	2.1	23
16	Switching induced complex dynamics in an extended logistic map. <i>Chaos, Solitons and Fractals</i> , 2012, 45, 426-432.	5.1	21
17	Open Prebiotic Environments Drive Emergent Phenomena and Complex Behavior. <i>Life</i> , 2019, 9, 45.	2.4	21
18	Seasonality as a Parrondian game. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 3124-3129.	2.1	18

#	ARTICLE	IF	CITATIONS
19	Bistability and Bifurcation in Minimal Self-Replication and Nonenzymatic Catalytic Networks. ChemPhysChem, 2017, 18, 1842-1850.	2.1	18
20	Dynamic model of hormonal systems coupled by negative feedback. Biophysical Chemistry, 1998, 73, 85-107.	2.8	16
21	Chemical Oscillations: The Templator Model. The Chemical Educator, 2001, 6, 202-209.	0.0	16
22	Parrondo's paradox or chaos control in discrete two-dimensional dynamic systems. Chaos, Solitons and Fractals, 2018, 106, 86-93.	5.1	16
23	The transient Flory model and its application to catalytic polymerization. 2. The Journal of Physical Chemistry, 1986, 90, 1725-1732.	2.9	14
24	Seasonality and the logistic map. Chaos, Solitons and Fractals, 2017, 95, 152-156.	5.1	13
25	The transient Flory model and its application to catalytic polymerization. 1. The Journal of Physical Chemistry, 1984, 88, 2270-2275.	2.9	11
26	On the "best Fokker-Planck equation" for systems driven by colored noise. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 136, 96-102.	2.1	11
27	Switching induced oscillations in discrete one-dimensional systems. Chaos, Solitons and Fractals, 2018, 115, 35-44.	5.1	9
28	Hydrodynamic calculation of static correlation functions for homogeneous shear. Physics Letters, Section A: General, Atomic and Solid State Physics, 1985, 108, 85-90.	2.1	7
29	The effect of diffusion on the trapping of membrane-bound receptors by localized coated pits. Biophysical Chemistry, 1986, 25, 117-125.	2.8	7
30	Chemical Oscillations in Enzyme Kinetics. The Chemical Educator, 1996, 1, 1-17.	0.0	7
31	COMPLEX DYNAMICS IN A MODIFIED MACARTHUR-ROSENZWEIG MODEL WITH PREDATOR PARING. Journal of Biological Systems, 2012, 20, 87-108.	1.4	7
32	Modelling square-wave pulse regulation. Dynamical Systems, 2010, 25, 133-143.	0.4	6
33	Self-regulation in a minimal model of chemical self-replication. Journal of Biological Physics, 2012, 38, 349-364.	1.5	5
34	The relevance of cross-diffusion in the formation of Turing patterns. Nonlinear Dynamics, Psychology, and Life Sciences, 2011, 15, 1-10.	0.2	4
35	A theoretical model of LDL-receptor trapping on a spherical cell. Biophysical Chemistry, 1992, 44, 1-9.	2.8	3
36	Complex dynamics in a minimal model of the alternative pathway of the complement system. Biophysical Chemistry, 1993, 46, 101-115.	2.8	3

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37	Introduction to Chemical Oscillations Using a Modified Lotka Model. <i>The Chemical Educator</i> , 2000, 5, 216-222.	0.0	3
38	A modified Ricker map and its bursting oscillations. <i>Chaos</i> , 2022, 32, 013119.	2.5	3
39	Comment on "Bistability and colored noise in nonequilibrium systems: Theory versus precise numerics". <i>Physical Review Letters</i> , 1989, 63, 214-214.	7.8	2
40	The dye-laser equation with saturation and its local linearization. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990, 151, 52-58.	2.1	2
41	Effect of linear reinsertion of receptor on the distribution of receptors around coated pits. <i>Biophysical Chemistry</i> , 1993, 46, 261-271.	2.8	2
42	Steady state approximation in the minimal model of the alternative pathway of complement. <i>Biophysical Chemistry</i> , 1997, 65, 143-156.	2.8	2
43	Parrondian Games in Discrete Dynamic Systems. , 2019, , .		2
44	A Dynamic Study of Biochemical Self-Replication. <i>Mathematics</i> , 2020, 8, 1042.	2.2	2
45	Chiral Oscillations and Spontaneous Mirror Symmetry Breaking in a Simple Polymerization Model. <i>Symmetry</i> , 2020, 12, 1388.	2.2	2
46	Energy transport effects on rapid bimolecular chemical reactions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1987, 147, 61-76.	2.6	1
47	A delayed modified Ricker map and its cicada-type oscillations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126756.	2.1	1
48	Phase diagram for the dye-laser equation with saturation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 172, 107-113.	2.1	0
49	Chaos in a minimal model of the alternative pathway of the complement system. <i>Biophysical Chemistry</i> , 1997, 63, 167-183.	2.8	0
50	Carnot Cycle Revisited. <i>The Chemical Educator</i> , 2002, 7, 127-131.	0.0	0
51	Complex Dynamics in a Minimal Model of Protection-Based Mutualism. <i>Axioms</i> , 2020, 9, 26.	1.9	0