S John Hogan

List of Publications by Year
in descending order

30 papers	560 citations	759190 12 h-index	642715 23 g-index
30 all docs	30 docs citations	30 times ranked	416 citing authors

#	Article	IF	Citations
1	Nonlinear dynamics of a basketball rolling around the rim. Nonlinear Dynamics, 2021, 104, 3013.	5.2	0
2	Two dimensionless parameters and a mechanical analogue for the HKB model of motor coordination. Biological Cybernetics, 2021, 115, 343-364.	1.3	3
3	Regularization of Isolated Codimension-2 Discontinuity Sets. SIAM Journal on Applied Dynamical Systems, 2021, 20, 2630-2670.	1.6	3
4	The Effect Of Sea State On Ship Wake Detectability In Simulated Sar Imagery. , 2020, , .		3
5	A dynamical systems model of unorganized segregation in two neighborhoods. Journal of Mathematical Sociology, 2020, 44, 221-248.	1.2	1
6	Resolution of the Piecewise Smooth Visible–Invisible Two-Fold Singularity in $$\mathbb {R}^3$$ R 3 Using Regularization and Blowup. Journal of Nonlinear Science, 2019, 29, 723-787.	2.1	20
7	Control of Painlevé Paradox in a Robotic System. , 2019, , .		0
8	A dynamical systems model of unorganized segregation. Journal of Mathematical Sociology, 2018, 42, 113-127.	1.2	3
9	Le Canard de Painlevé. SIAM Journal on Applied Dynamical Systems, 2018, 17, 859-908.	1.6	9
10	Synchronization of Networks of Piecewise-Smooth Systems. , 2018, 2, 653-658.		9
11	Effect of Potential Energy Variation on the Natural Frequency of an Euler–Bernoulli Cantilever Beam Under Lateral Force and Compression. Journal of Applied Mechanics, Transactions ASME, 2017, 84, .	2.2	5
12	Structural stability of a light rotating beam under combined loads. Acta Mechanica, 2017, 228, 3735-3740.	2.1	4
13	On the regularization of impact without collision: the Painlevé paradox and compliance. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20160773.	2.1	11
14	Stabilizing skateboard speed-wobble with reflex delay. Journal of the Royal Society Interface, 2016, 13, 20160345.	3.4	12
15	Piecewise Smooth Dynamical Systems Theory: The Case of the Missing Boundary Equilibrium Bifurcations. Journal of Nonlinear Science, 2016, 26, 1161-1173.	2.1	31
16	Estimation of the Bistable Zone for Machining Operations for the Case of a Distributed Cutting-Force Model. Journal of Computational and Nonlinear Dynamics, 2016, 11, .	1.2	14
17	Time-Delayed Models of Gene Regulatory Networks. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-16.	1.3	30
18	Regularizations of Two-Fold Bifurcations in Planar Piecewise Smooth Systems Using Blowup. SIAM Journal on Applied Dynamical Systems, 2015, 14, 1731-1786.	1.6	31

#	Article	IF	Citations
19	On the Use of Blowup to Study Regularizations of Singularities of Piecewise Smooth Dynamical Systems in $\mathbb{R}^3$. SIAM Journal on Applied Dynamical Systems, 2015, 14, 382-422.	1.6	36
20	Simplified critical mudline bending moment spectra of offshore wind turbine support structures. Wind Energy, 2015, 18, 2171-2197.	4.2	83
21	Kinematic oscillations of railway wheelsets. Multibody System Dynamics, 2015, 34, 259-274.	2.7	17
22	Language planning and complexity: a conversation. Current Issues in Language Planning, 2013, 14, 490-496.	2.1	5
23	The Geometry of Generic Sliding Bifurcations. SIAM Review, 2011, 53, 505-525.	8.4	55
24	Analysis and design of a versatile synthetic network for inducible gene expression in mammalian systems. , 2010, , .		0
25	Isolated large amplitude periodic motions of towed rigid wheels. Nonlinear Dynamics, 2008, 52, 27-34.	5.2	40
26	IMPACT DYNAMICS OF LARGE DIMENSIONAL SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 561-573.	1.7	1
27	Subharmonic Pattern Formation in a Nematic Cell â€" A 1D Flexoelectric Model Approach. Molecular Crystals and Liquid Crystals, 2007, 478, 67/[823]-81/[837].	0.9	0
28	DOUBLE HOPF BIFURCATION FOR STUARTâ€"LANDAU SYSTEM WITH NONLINEAR DELAY FEEDBACK AND DELAY-DEPENDENT PARAMETERS. International Journal of Modeling, Simulation, and Scientific Computing, 2007, 10, 423-448.	1.4	3
29	TWO-PARAMETER DISCONTINUITY-INDUCED BIFURCATIONS OF LIMIT CYCLES: CLASSIFICATION AND OPEN PROBLEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 601-629.	1.7	106
30	Disclination core structure and induced phase change in nematic liquid crystals. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1997, 355, 2045-2064.	3.4	25