

Rob Sturman

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

530
citations

1039406

9
h-index

839053

18
g-index

22
all docs

22
docs citations

22
times ranked

454
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability of heteroclinic cycles in ring graphs. <i>Chaos</i> , 2022, 32, .	1.0	1
2	Developing computational mathematics provision in undergraduate mathematics degrees. <i>MSOR Connections</i> , 2020, 18, 59-65.	0.1	0
3	Lyapunov Exponents for the Random Product of Two Shears. <i>Journal of Nonlinear Science</i> , 2019, 29, 593-620.	1.0	7
4	Deceleration of one-dimensional mixing by discontinuous mappings. <i>Physical Review E</i> , 2017, 96, 053112.	0.8	5
5	Frontiers of chaotic advection. <i>Reviews of Modern Physics</i> , 2017, 89, .	16.4	146
6	A Parametric Study of Mixing in a Granular Flow a Biaxial Spherical Tumbler. <i>Springer Proceedings in Mathematics and Statistics</i> , 2016, , 143-154.	0.1	0
7	A Study in Three-Dimensional Chaotic Dynamics: Granular Flow and Transport in a Bi-Axial Spherical Tumbler. <i>SIAM Journal on Applied Dynamical Systems</i> , 2014, 13, 901-943.	0.7	19
8	Rate of chaotic mixing and boundary behavior. <i>Physical Review E</i> , 2013, 87, 012906.	0.8	8
9	A dynamical systems approach to musical tuning. <i>Dynamical Systems</i> , 2012, 27, 131-143.	0.2	4
10	Mixing by cutting and shuffling. <i>Europhysics Letters</i> , 2010, 91, 20003.	0.7	30
11	Eulerian indicators for predicting and optimizing mixing quality. <i>New Journal of Physics</i> , 2009, 11, 075031.	1.2	20
12	Linked twist map formalism in two and three dimensions applied to mixing in tumbled granular flows. <i>Journal of Fluid Mechanics</i> , 2008, 602, 129-174.	1.4	36
13	DNA Microarrays: Design Principles for Maximizing Ergodic, Chaotic Mixing. <i>Small</i> , 2007, 3, 202-218.	5.2	30
14	Ergodicity, mixing and the Bernoulli property in a DNA hybridization microarray. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007, 7, 1101303-1101304.	0.2	0
15	Two-state intermittency near a symmetric interaction of saddle-node and Hopf bifurcations: a case study from dynamo theory. <i>Physica D: Nonlinear Phenomena</i> , 2004, 194, 30-48.	1.3	18
16	Cycling chaotic attractors in two models for dynamics with invariant subspaces. <i>Chaos</i> , 2004, 14, 571-582.	1.0	6
17	Decelerating defects and non-ergodic critical behaviour in a unidirectionally coupled map lattice. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 309, 423-434.	0.9	2
18	Phase resetting effects for robust cycles between chaotic sets. <i>Chaos</i> , 2003, 13, 973-981.	1.0	10

#	ARTICLE	IF	CITATIONS
19	Infinities of stable periodic orbits in systems of coupled oscillators. Physical Review E, 2002, 66, 035201.	0.8	8
20	Semi-uniform ergodic theorems and applications to forced systems. Nonlinearity, 2000, 13, 113-143.	0.6	79
21	Scaling of intermittent behaviour of a strange nonchaotic attractor. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 259, 355-365.	0.9	12