

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	Frontiers of chaotic advection. Reviews of Modern Physics, 2017, 89, .	16.4	146
2	Semi-uniform ergodic theorems and applications to forced systems. Nonlinearity, 2000, 13, 113-143.	0.6	79
3	Linked twist map formalism in two and three dimensions applied to mixing in tumbled granular flows. Journal of Fluid Mechanics, 2008, 602, 129-174.	1.4	36
4	DNA Microarrays: Design Principles for Maximizing Ergodic, Chaotic Mixing. Small, 2007, 3, 202-218.	5.2	30
5	Mixing by cutting and shuffling. Europhysics Letters, 2010, 91, 20003.	0.7	30
6	Eulerian indicators for predicting and optimizing mixing quality. New Journal of Physics, 2009, 11, 075031.	1.2	20
7	A Study in Three-Dimensional Chaotic Dynamics: Granular Flow and Transport in a Bi-Axial Spherical Tumbler. SIAM Journal on Applied Dynamical Systems, 2014, 13, 901-943.	0.7	19
8	Two-state intermittency near a symmetric interaction of saddle-node and Hopf bifurcations: a case study from dynamo theory. Physica D: Nonlinear Phenomena, 2004, 194, 30-48.	1.3	18
9	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
10	Phase resetting effects for robust cycles between chaotic sets. Chaos, 2003, 13, 973-981.	1.0	10
11	Infinities of stable periodic orbits in systems of coupled oscillators. Physical Review E, 2002, 66, 035201.	0.8	8
12	Rate of chaotic mixing and boundary behavior. Physical Review E, 2013, 87, 012906.	0.8	8
13	Lyapunov Exponents for the Random Product of Two Shears. Journal of Nonlinear Science, 2019, 29, 593-620.	1.0	7
14	Cycling chaotic attractors in two models for dynamics with invariant subspaces. Chaos, 2004, 14, 571-582.	1.0	6
15	Deceleration of one-dimensional mixing by discontinuous mappings. Physical Review E, 2017, 96, 053112.	0.8	5
16	A dynamical systems approach to musical tuning. Dynamical Systems, 2012, 27, 131-143.	0.2	4
17	Decelerating defects and non-ergodic critical behaviour in a unidirectionally coupled map lattice. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 309, 423-434.	0.9	2
18	Stability of heteroclinic cycles in ring graphs. Chaos, 2022, 32, .	1.0	1

#	ARTICLE	IF	CITATIONS
19	Ergodicity, mixing and the Bernoulli property in a DNA hybridization microarray. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 1101303-1101304.	0.2	0
20	A Parametric Study of Mixing in a Granular Flow a Biaxial Spherical Tumbler. Springer Proceedings in Mathematics and Statistics, 2016, , 143-154.	0.1	0
21	Developing computational mathematics provision in undergraduate mathematics degrees. MSOR Connections, 2020, 18, 59-65.	0.1	0