

Shankar C Venkataramani

List of Publications by Year in descending order

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53
papers

1,317
citations

430874

18
h-index

345221

36
g-index

54
all docs

54
docs citations

54
times ranked

834
citing authors

#	ARTICLE	IF	CITATIONS
1	An SBV relaxation of the Cross-Newell energy for modeling stripe patterns and their defects. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2022, .	1.1	0
2	Distributed Branch Points and the Shape of Elastic Surfaces with Constant Negative Curvature. <i>Journal of Nonlinear Science</i> , 2021, 31, 1.	2.1	3
3	Disk galaxies and their dark halos as self-organized patterns. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 813, 136060.	4.1	1
4	Computing with non-orientable defects: Nematics, smectics and natural patterns. <i>Physica D: Nonlinear Phenomena</i> , 2021, 417, 132828.	2.8	9
5	Pattern dark matter and galaxy scaling relations. <i>European Physical Journal: Special Topics</i> , 2021, 230, 2139-2165.	2.6	1
6	Nature's forms are frilly, flexible, and functional. <i>European Physical Journal E</i> , 2021, 44, 95.	1.6	2
7	A Modified Split Bregman Algorithm for Computing Microstructures Through Young Measures. <i>Multiscale Modeling and Simulation</i> , 2021, 19, 886-920.	1.6	1
8	Mechanics of moving defects in growing sheets: 3-d, small deformation theory. <i>Materials Theory</i> , 2020, 4, .	4.3	3
9	Pattern universes. <i>Comptes Rendus - Mecanique</i> , 2019, 347, 318-331.	2.1	4
10	Buckling sheets open a door to understanding self-organization in soft matter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1477-1479.	7.1	2
11	On the Growth of a Superlinear Preferential Attachment Scheme. <i>Springer Proceedings in Mathematics and Statistics</i> , 2019, , 243-265.	0.2	0
12	Target patterns in a 2D array of oscillators with nonlocal coupling. <i>Nonlinearity</i> , 2018, 31, 4162-4201.	1.4	4
13	Modelling the mass exchange dynamics of oceanic surface and subsurface oil. <i>Ocean Modelling</i> , 2018, 129, 1-12.	2.4	7
14	Elastic Sheets, Phase Surfaces, and Pattern Universes. <i>Studies in Applied Mathematics</i> , 2017, 139, 322-368.	2.4	7
15	Dimension Reduction for Systems with Slow Relaxation. <i>Journal of Statistical Physics</i> , 2017, 167, 892-933.	1.2	5
16	Displacement data assimilation. <i>Journal of Computational Physics</i> , 2017, 330, 594-614.	3.8	7
17	Isometric immersions, energy minimization and self-similar buckling in non-Euclidean elastic sheets. <i>Europhysics Letters</i> , 2016, 114, 24003.	2.0	18
18	Stochastic longshore current dynamics. <i>Advances in Water Resources</i> , 2016, 98, 186-197.	3.8	1

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19	A scaling limit for the degree distribution in sublinear preferential attachment schemes. <i>Random Structures and Algorithms</i> , 2016, 48, 703-731.	1.1	1
20	An Oil Fate Model for Shallow-Waters. <i>Journal of Marine Science and Engineering</i> , 2015, 3, 1504-1543.	2.6	10
21	Nearshore sticky waters. <i>Ocean Modelling</i> , 2014, 80, 49-58.	2.4	9
22	Defining a trend for time series using the intrinsic time-scale decomposition. <i>New Journal of Physics</i> , 2014, 16, 085004.	2.9	12
23	Sharp interfaces in two-dimensional free boundary problems: Interface calculation via matched conformal maps. <i>Physical Review E</i> , 2014, 90, 012407.	2.1	0
24	Optical beam shaping and diffraction free waves: A variational approach. <i>Physica D: Nonlinear Phenomena</i> , 2014, 283, 15-28.	2.8	1
25	Research Overview of the Consortium for Advanced Research on Transport of Hydrocarbon in the Environment (CARTHE). <i>International Oil Spill Conference Proceedings</i> , 2014, 2014, 544-560.	0.1	3
26	Shape transitions in hyperbolic non-Euclidean plates. <i>Soft Matter</i> , 2013, 9, 8151.	2.7	29
27	Asymptotic analysis of weakly nonlinear Bessel-Gaussian beams. <i>Physica D: Nonlinear Phenomena</i> , 2013, 243, 32-44.	2.8	3
28	Propagation of Gaussian-apodized paraxial beams through first-order optical systems via complex coordinate transforms and ray transfer matrices. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2012, 29, 1860.	1.5	4
29	Defects and boundary layers in non-Euclidean plates. <i>Nonlinearity</i> , 2012, 25, 3553-3581.	1.4	13
30	Experimental Study of Shape Transitions and Energy Scaling in Thin Non-Euclidean Plates. <i>Physical Review Letters</i> , 2011, 106, 118303.	7.8	40
31	Shape selection in non-Euclidean plates. <i>Physica D: Nonlinear Phenomena</i> , 2011, 240, 1536-1552.	2.8	32
32	A Variational Theory for Point Defects in Patterns. <i>Journal of Nonlinear Science</i> , 2009, 19, 267-300.	2.1	18
33	Lower bounds for the energy in a crumpled elastic sheet—a minimal ridge. <i>Nonlinearity</i> , 2004, 17, 301-312.	1.4	51
34	Discrete Charges on a Two Dimensional Conductor. <i>Journal of Statistical Physics</i> , 2004, 116, 1301-1358.	1.2	7
35	Trapping of vibrational energy in crumpled sheets. <i>Physical Review E</i> , 2002, 65, 036613.	2.1	10
36	Pattern selection in extended periodically forced systems: A continuum coupled map approach. <i>Physical Review E</i> , 2001, 63, 046202.	2.1	30

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37	Singularities, structures, and scaling in deformed m -dimensional elastic manifolds. <i>Physical Review E</i> , 2001, 65, 016603.	2.1	31
38	Front propagation of spatiotemporal chaos. <i>Physical Review E</i> , 2001, 64, 016215.	2.1	1
39	CONTINUUM COUPLED MAPS: A MODEL FOR PATTERNS IN VIBRATED SAND. , 2001, , .		0
40	Limitations on the smooth confinement of an unstretchable manifold. <i>Journal of Mathematical Physics</i> , 2000, 41, 5107-5128.	1.1	19
41	Diffusion, attraction and collapse. <i>Nonlinearity</i> , 1999, 12, 1071-1098.	1.4	116
42	Noise stabilization of self-organized memories. <i>Physical Review E</i> , 1999, 59, 4970-4982.	2.1	16
43	Anomalous diffusion in bounded temporally irregular flows. <i>Physica D: Nonlinear Phenomena</i> , 1998, 112, 412-440.	2.8	10
44	Spatiotemporal Bifurcation Phenomena with Temporal Period Doubling: Patterns in Vibrated Sand. <i>Physical Review Letters</i> , 1998, 80, 3495-3498.	7.8	66
45	Cones, creases and crumpled sheets. <i>Physics World</i> , 1998, 11, 19-20.	0.0	0
46	L [∞] Flights in Fluid Flows with no Kolmogorov-Arnold-Moser Surfaces. <i>Physical Review Letters</i> , 1997, 78, 3864-3867.	7.8	27
47	Self-Organized Short-Term Memories. <i>Physical Review Letters</i> , 1997, 78, 3983-3986.	7.8	27
48	Bubbling transition. <i>Physical Review E</i> , 1996, 54, 1346-1360.	2.1	119
49	Riddling Bifurcation in Chaotic Dynamical Systems. <i>Physical Review Letters</i> , 1996, 77, 55-58.	7.8	179
50	On-off intermittency: Power spectrum and fractal properties of time series. <i>Physica D: Nonlinear Phenomena</i> , 1996, 96, 66-99.	2.8	98
51	Transitions to Bubbling of Chaotic Systems. <i>Physical Review Letters</i> , 1996, 77, 5361-5364.	7.8	122
52	Characterization of on-off intermittent time series. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 207, 173-179.	2.1	54
53	Topology of event horizons and topological censorship. <i>Classical and Quantum Gravity</i> , 1995, 12, 1055-1061.	4.0	82