

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 | Riddling Bifurcation in Chaotic Dynamical Systems. Physical Review Letters, 1996, 77, 55-58. | 7.8 | 179 |
| 2 | Transitions to Bubbling of Chaotic Systems. Physical Review Letters, 1996, 77, 5361-5364. | 7.8 | 122 |
| 3 | Bubbling transition. Physical Review E, 1996, 54, 1346-1360. | 2.1 | 119 |
| 4 | Diffusion, attraction and collapse. Nonlinearity, 1999, 12, 1071-1098. | 1.4 | 116 |
| 5 | On-off intermittency: Power spectrum and fractal properties of time series. Physica D: Nonlinear Phenomena, 1996, 96, 66-99. | 2.8 | 98 |
| 6 | Topology of event horizons and topological censorship. Classical and Quantum Gravity, 1995, 12, 1055-1061. | 4.0 | 82 |
| 7 | Spatiotemporal Bifurcation Phenomena with Temporal Period Doubling: Patterns in Vibrated Sand. Physical Review Letters, 1998, 80, 3495-3498. | 7.8 | 66 |
| 8 | Characterization of on-off intermittent time series. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 207, 173-179. | 2.1 | 54 |
| 9 | Lower bounds for the energy in a crumpled elastic sheet—a minimal ridge. Nonlinearity, 2004, 17, 301-312. | 1.4 | 51 |
| 10 | Experimental Study of Shape Transitions and Energy Scaling in Thin Non-Euclidean Plates. Physical Review Letters, 2011, 106, 118303. | 7.8 | 40 |
| 11 | Shape selection in non-Euclidean plates. Physica D: Nonlinear Phenomena, 2011, 240, 1536-1552. | 2.8 | 32 |
| 12 | Singularities, structures, and scaling in deformed m -dimensional elastic manifolds. Physical Review E, 2001, 65, 016603. | 2.1 | 31 |
| 13 | Pattern selection in extended periodically forced systems: A continuum coupled map approach. Physical Review E, 2001, 63, 046202. | 2.1 | 30 |
| 14 | Shape transitions in hyperbolic non-Euclidean plates. Soft Matter, 2013, 9, 8151. | 2.7 | 29 |
| 15 | Lyapunov Flights in Fluid Flows with no Kolmogorov-Arnold-Moser Surfaces. Physical Review Letters, 1997, 78, 3864-3867. | 7.8 | 27 |
| 16 | Self-Organized Short-Term Memories. Physical Review Letters, 1997, 78, 3983-3986. | 7.8 | 27 |
| 17 | Limitations on the smooth confinement of an unstretchable manifold. Journal of Mathematical Physics, 2000, 41, 5107-5128. | 1.1 | 19 |
| 18 | A Variational Theory for Point Defects in Patterns. Journal of Nonlinear Science, 2009, 19, 267-300. | 2.1 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Isometric immersions, energy minimization and self-similar buckling in non-Euclidean elastic sheets. <i>Europhysics Letters</i> , 2016, 114, 24003. | 2.0 | 18 |
| 20 | Noise stabilization of self-organized memories. <i>Physical Review E</i> , 1999, 59, 4970-4982. | 2.1 | 16 |
| 21 | Defects and boundary layers in non-Euclidean plates. <i>Nonlinearity</i> , 2012, 25, 3553-3581. | 1.4 | 13 |
| 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 | Anomalous diffusion in bounded temporally irregular flows. <i>Physica D: Nonlinear Phenomena</i> , 1998, 112, 412-440. | 2.8 | 10 |
| 24 | Trapping of vibrational energy in crumpled sheets. <i>Physical Review E</i> , 2002, 65, 036613. | 2.1 | 10 |
| 25 | An Oil Fate Model for Shallow-Waters. <i>Journal of Marine Science and Engineering</i> , 2015, 3, 1504-1543. | 2.6 | 10 |
| 26 | Nearshore sticky waters. <i>Ocean Modelling</i> , 2014, 80, 49-58. | 2.4 | 9 |
| 27 | Computing with non-orientable defects: Nematics, smectics and natural patterns. <i>Physica D: Nonlinear Phenomena</i> , 2021, 417, 132828. | 2.8 | 9 |
| 28 | Discrete Charges on a Two Dimensional Conductor. <i>Journal of Statistical Physics</i> , 2004, 116, 1301-1358. | 1.2 | 7 |
| 29 | Elastic Sheets, Phase Surfaces, and Pattern Universes. <i>Studies in Applied Mathematics</i> , 2017, 139, 322-368. | 2.4 | 7 |
| 30 | Displacement data assimilation. <i>Journal of Computational Physics</i> , 2017, 330, 594-614. | 3.8 | 7 |
| 31 | Modelling the mass exchange dynamics of oceanic surface and subsurface oil. <i>Ocean Modelling</i> , 2018, 129, 1-12. | 2.4 | 7 |
| 32 | Dimension Reduction for Systems with Slow Relaxation. <i>Journal of Statistical Physics</i> , 2017, 167, 892-933. | 1.2 | 5 |
| 33 | Propagation of Gaussian-apodized paraxial beams through first-order optical systems via complexcoordinate 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 |
| 34 | Target patterns in a 2D array of oscillators with nonlocal coupling. <i>Nonlinearity</i> , 2018, 31, 4162-4201. | 1.4 | 4 |
| 35 | Pattern universes. <i>Comptes Rendus - Mecanique</i> , 2019, 347, 318-331. | 2.1 | 4 |
| 36 | Asymptotic analysis of weakly nonlinear Bessel-Gaussian beams. <i>Physica D: Nonlinear Phenomena</i> , 2013, 243, 32-44. | 2.8 | 3 |

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|----|---|-----|-----------|
| 37 | Distributed Branch Points and the Shape of Elastic Surfaces with Constant Negative Curvature. Journal of Nonlinear Science, 2021, 31, 1. | 2.1 | 3 |
| 38 | Mechanics of moving defects in growing sheets: 3-d, small deformation theory. Materials Theory, 2020, 4, . | 4.3 | 3 |
| 39 | Research Overview of the Consortium for Advanced Research on Transport of Hydrocarbon in the Environment (CARTHE). International Oil Spill Conference Proceedings, 2014, 2014, 544-560. | 0.1 | 3 |
| 40 | Buckling sheets open a door to understanding self-organization in soft matter. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1477-1479. | 7.1 | 2 |
| 41 | Nature's forms are frilly, flexible, and functional. European Physical Journal E, 2021, 44, 95. | 1.6 | 2 |
| 42 | Front propagation of spatiotemporal chaos. Physical Review E, 2001, 64, 016215. | 2.1 | 1 |
| 43 | Optical beam shaping and diffraction free waves: A variational approach. Physica D: Nonlinear Phenomena, 2014, 283, 15-28. | 2.8 | 1 |
| 44 | Stochastic longshore current dynamics. Advances in Water Resources, 2016, 98, 186-197. | 3.8 | 1 |
| 45 | A scaling limit for the degree distribution in sublinear preferential attachment schemes. Random Structures and Algorithms, 2016, 48, 703-731. | 1.1 | 1 |
| 46 | Disk galaxies and their dark halos as self-organized patterns. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 813, 136060. | 4.1 | 1 |
| 47 | Pattern dark matter and galaxy scaling relations. European Physical Journal: Special Topics, 2021, 230, 2139-2165. | 2.6 | 1 |
| 48 | A Modified Split Bregman Algorithm for Computing Microstructures Through Young Measures. Multiscale Modeling and Simulation, 2021, 19, 886-920. | 1.6 | 1 |
| 49 | Cones, creases and crumpled sheets. Physics World, 1998, 11, 19-20. | 0.0 | 0 |
| 50 | Sharp interfaces in two-dimensional free boundary problems: Interface calculation via matched conformal maps. Physical Review E, 2014, 90, 012407. | 2.1 | 0 |
| 51 | CONTINUUM COUPLED MAPS: A MODEL FOR PATTERNS IN VIBRATED SAND. , 2001, , . | | 0 |
| 52 | On the Growth of a Superlinear Preferential Attachment Scheme. Springer Proceedings in Mathematics and Statistics, 2019, , 243-265. | 0.2 | 0 |
| 53 | An SBV relaxation of the Cross-Newell energy for modeling stripe patterns and their defects. Discrete and Continuous Dynamical Systems - Series S, 2022, . | 1.1 | 0 |