

# Sudeshna Sinha

## List of Publications by Year in descending order

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162  
papers

3,828  
citations

94433

37  
h-index

155660

55  
g-index

165  
all docs

165  
docs citations

165  
times ranked

1380  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Reliable Logic Circuit Elements that Exploit Nonlinearity in the Presence of a Noise Floor. <i>Physical Review Letters</i> , 2009, 102, 104101.                              | 7.8 | 186       |
| 2  | Dynamics Based Computation. <i>Physical Review Letters</i> , 1998, 81, 2156-2159.  | 7.8 | 178       |
| 3  | A Noise-Assisted Reprogrammable Nanomechanical Logic Gate. <i>Nano Letters</i> , 2010, 10, 1168-1171.  | 9.1 | 160       |
| 4  | Adaptive control in nonlinear dynamics. <i>Physica D: Nonlinear Phenomena</i> , 1990, 43, 118-128.   | 2.8 | 142       |
| 5  | Computing with distributed chaos. <i>Physical Review E</i> , 1999, 60, 363-377.  | 2.1 | 86        |
| 6  | Realization of reliable and flexible logic gates using noisy nonlinear circuits. <i>Applied Physics Letters</i> , 2009, 95, .  | 3.3 | 80        |
| 7  | Synchronization in time-varying networks. <i>Physical Review E</i> , 2014, 90, 022812.   | 2.1 | 80        |
| 8  | Generating multi-scroll chaotic attractors by thresholding. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 3234-3239.               | 2.1 | 78        |
| 9  | Multiple-node basin stability in complex dynamical networks. <i>Physical Review E</i> , 2017, 95, 032317.  | 2.1 | 74        |
| 10 | Random coupling of chaotic maps leads to spatiotemporal synchronization. <i>Physical Review E</i> , 2002, 66, 016209.  | 2.1 | 73        |
| 11 | Time-varying multiplex network: Intralayer and interlayer synchronization. <i>Physical Review E</i> , 2017, 96, 062308.  | 2.1 | 70        |
| 12 | Introduction to Focus Issue: Intrinsic and Designed Computation: Information Processing in Dynamical Systemsâ€”Beyond the Digital Hegemony. <i>Chaos</i> , 2010, 20, 037101. | 2.5 | 69        |
| 13 | Implementation of NOR Gate by a Chaotic Chua's Circuit. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2003, 13, 2669-2672.     | 1.7 | 68        |
| 14 | Logical stochastic resonance. <i>Chemical Physics</i> , 2010, 375, 424-434.  | 1.9 | 63        |
| 15 | Synthetic gene networks as potential flexible parallel logic gates. <i>Europhysics Letters</i> , 2011, 93, 50001.  | 2.0 | 56        |
| 16 | Exploiting the effect of noise on a chemical system to obtain logic gates. <i>Europhysics Letters</i> , 2009, 86, 60003.   | 2.0 | 55        |
| 17 | Emergence of synchronization and regularity in firing patterns in time-varying neural hypernetworks. <i>Physical Review E</i> , 2018, 97, 052304.                            | 2.1 | 55        |
| 18 | Noise-free logical stochastic resonance. <i>Physical Review E</i> , 2011, 84, 055201.  | 2.1 | 54        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Enhancement of "ecological" responses by noise in a bistable optical system. <i>Physical Review E</i> , 2011, 83, 046219.                                | 2.1 | 54        |
| 20 | Rapidly switched random links enhance spatiotemporal regularity. <i>Physical Review E</i> , 2008, 78, 066209.  | 2.1 | 53        |
| 21 | Adaptive dynamics on a chaotic lattice. <i>Physical Review Letters</i> , 1993, 71, 2010-2013.  | 7.8 | 52        |
| 22 | Evidence of universality for the May-Wigner stability theorem for random networks with local dynamics. <i>Physical Review E</i> , 2005, 71, 020902.      | 2.1 | 51        |
| 23 | Enhanced logical stochastic resonance under periodic forcing. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014, 19, 2866-2873. | 3.3 | 49        |
| 24 | Unidirectional adaptive dynamics. <i>Physical Review E</i> , 1994, 49, 4832-4842.  | 2.1 | 47        |
| 25 | Chaogates: Morphing logic gates that exploit dynamical patterns. <i>Chaos</i> , 2010, 20, 037107.  | 2.5 | 45        |
| 26 | Realizing logic gates with time-delayed synthetic genetic networks. <i>Nonlinear Dynamics</i> , 2014, 76, 431-439.                                       | 5.2 | 45        |
| 27 | Flexible parallel implementation of logic gates using chaotic elements. <i>Physical Review E</i> , 2002, 65, 036216.                                     | 2.1 | 44        |
| 28 | Experimental realization of chaos control by thresholding. <i>Physical Review E</i> , 2003, 68, 016210.  | 2.1 | 43        |
| 29 | Nonstatistical behavior of coupled optical systems. <i>Physical Review A</i> , 1992, 45, 5469-5473.  | 2.5 | 42        |
| 30 | Chimera States in Star Networks. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016, 26, 1630023.          | 1.7 | 42        |
| 31 | Physics-enhanced neural networks learn order and chaos. <i>Physical Review E</i> , 2020, 101, 062207.  | 2.1 | 42        |
| 32 | Using synchronization to obtain dynamic logic gates. <i>Physical Review E</i> , 2007, 75, 025201.  | 2.1 | 41        |
| 33 | Noise-assisted morphing of memory and logic function. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 957-962.   | 2.1 | 41        |
| 34 | Order in the turbulent phase of globally coupled maps. <i>Physica D: Nonlinear Phenomena</i> , 1993, 63, 341-349.  | 2.8 | 39        |
| 35 | Noise-Aided Logic in an Electronic Analog of Synthetic Genetic Networks. <i>PLoS ONE</i> , 2013, 8, e76032.  | 2.5 | 39        |
| 36 | Local-to-global coupling in chaotic maps. <i>Physical Review A</i> , 1992, 46, 6242-6246.  | 2.5 | 38        |

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|----|--|-----|-----------|
| 37 | Adaptive control of spatially extended systems: Targeting spatiotemporal patterns and chaos. <i>Physical Review E</i> , 1998, 58, R5221-R5224.                                     | 2.1 | 38        |
| 38 | A q-deformed nonlinear map. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 338, 277-287.   | 2.1 | 37        |
| 39 | Manipulating potential wells in Logical Stochastic Resonance to obtain XOR logic. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 930-937. | 2.1 | 36        |
| 40 | Parallel computing with extended dynamical systems. <i>Physical Review E</i> , 2002, 65, 036214.   | 2.1 | 35        |
| 41 | Coupling induced logical stochastic resonance. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018, 382, 1581-1585.                                  | 2.1 | 35        |
| 42 | Emergence of epidemics in rapidly varying networks. <i>Chaos, Solitons and Fractals</i> , 2013, 54, 127-134.   | 5.1 | 34        |
| 43 | Realization of the fundamental NOR gate using a chaotic circuit. <i>Physical Review E</i> , 2003, 68, 016205.  | 2.1 | 33        |
| 44 | Dynamic transitions in small world networks: Approach to equilibrium limit. <i>Physical Review E</i> , 2005, 72, 052903.   | 2.1 | 33        |
| 45 | Synchronization in coupled cells with activator-inhibitor pathways. <i>Physical Review E</i> , 2007, 75, 011906.   | 2.1 | 32        |
| 46 | Chaos computing: ideas and implementations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 653-664.                     | 3.4 | 32        |
| 47 | Persistence at the onset of spatio-temporal intermittency in coupled map lattices. <i>Europhysics Letters</i> , 2003, 61, 27-33.   | 2.0 | 31        |
| 48 | Logic from nonlinear dynamical evolution. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 1346-1351.                                       | 2.1 | 28        |
| 49 | Enhancement of spatiotemporal regularity in an optimal window of random coupling. <i>Physical Review E</i> , 2008, 78, 035201.   | 2.1 | 27        |
| 50 | An efficient control algorithm for nonlinear systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 156, 475-478.                             | 2.1 | 26        |
| 51 | Targeting chaos through adaptive control. <i>Physical Review E</i> , 1998, 57, R2507-R2510.  | 2.1 | 26        |
| 52 | Evidence for directed percolation universality at the onset of spatiotemporal intermittency in coupled circle maps. <i>Physical Review E</i> , 2003, 67, 056218.                   | 2.1 | 25        |
| 53 | Noisy uncoupled chaotic map ensembles violate the law of large numbers. <i>Physical Review Letters</i> , 1992, 69, 3306-3309.  | 7.8 | 24        |
| 54 | Nonstatistical behavior of higher-dimensional coupled systems. <i>Physical Review A</i> , 1992, 46, 3193-3197.   | 2.5 | 23        |

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|----|--|-----|-----------|
| 55 | Synchronization in a network of model neurons. <i>Physical Review E</i> , 2007, 75, 026215.  | 2.1 | 23        |
| 56 | Theory of fluctuations in pseudointegrable systems. <i>Physical Review Letters</i> , 1993, 70, 916-919.  | 7.8 | 22        |
| 57 | Adaptive dynamics on circle maps. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 199, 365-374.   | 2.1 | 22        |
| 58 | Forecasting Hamiltonian dynamics without canonical coordinates. <i>Nonlinear Dynamics</i> , 2021, 103, 1553-1562.  | 5.2 | 21        |
| 59 | Controlling neuronal spikes. <i>Physical Review E</i> , 2001, 63, 056209.  | 2.1 | 20        |
| 60 | Chaos computing: experimental realization of NOR gate using a simple chaotic circuit. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 339, 39-44.                 | 2.1 | 20        |
| 61 | FAULT TOLERANCE AND DETECTION IN CHAOTIC COMPUTERS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007, 17, 1955-1968.                                 | 1.7 | 20        |
| 62 | Construction of logic gates exploiting resonance phenomena in nonlinear systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200238. | 3.4 | 20        |
| 63 | Asynchronous updating of coupled maps leads to synchronization. <i>Chaos</i> , 2000, 10, 350-358.  | 2.5 | 19        |
| 64 | DESIGN OF TIME DELAYED CHAOTIC CIRCUIT WITH THRESHOLD CONTROLLER. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2011, 21, 725-735.                     | 1.7 | 19        |
| 65 | Robust emergent activity in dynamical networks. <i>Physical Review E</i> , 2006, 74, 066117.   | 2.1 | 18        |
| 66 | Exploiting chaos for applications. <i>Chaos</i> , 2015, 25, 097615.  | 2.5 | 18        |
| 67 | Explosive death in nonlinear oscillators coupled by quorum sensing. <i>Physical Review E</i> , 2019, 100, 032203.  | 2.1 | 18        |
| 68 | CHAOS AND REGULARITY IN ADAPTIVE LATTICE DYNAMICS. <i>International Journal of Modern Physics B</i> , 1995, 09, 875-931.   | 2.0 | 17        |
| 69 | Using thresholding at varying intervals to obtain different temporal patterns. <i>Physical Review E</i> , 2001, 63, 036212.  | 2.1 | 17        |
| 70 | Noise tolerant spatiotemporal chaos computing. <i>Chaos</i> , 2014, 24, 043110.  | 2.5 | 17        |
| 71 | Chaotic attractor hopping yields logic operations. <i>PLoS ONE</i> , 2018, 13, e0209037.   | 2.5 | 17        |
| 72 | Spatiotemporal intermittency on the sandpile. <i>Physical Review Letters</i> , 1991, 66, 2750-2753.  | 7.8 | 16        |

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|----|--|-----|-----------|
| 73 | DESIGN OF THRESHOLD CONTROLLER BASED CHAOTIC CIRCUITS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 2185-2191.          | 1.7 | 16        |
| 74 | Taming Explosive Growth through Dynamic Random Links. Scientific Reports, 2014, 4, 4308.   | 3.3 | 16        |
| 75 | Emergence of extreme events in networks of parametrically coupled chaotic populations. Chaos, 2019, 29, 023131.  | 2.5 | 16        |
| 76 | Targeting spatiotemporal patterns in extended systems with multiple coexisting attractors. Physical Review E, 2001, 64, 015203.  | 2.1 | 15        |
| 77 | Distribution of Husimi zeros in polygonal billiards. Physical Review E, 1999, 60, 408-415.   | 2.1 | 14        |
| 78 | Construction of a reconfigurable dynamic logic cell. Pramana - Journal of Physics, 2005, 64, 433-441.  | 1.8 | 14        |
| 79 | Suppression of chaos through coupling to an external chaotic system. Nonlinear Dynamics, 2017, 87, 159-167.  | 5.2 | 13        |
| 80 | Advent of extreme events in predator populations. Scientific Reports, 2020, 10, 10613.   | 3.3 | 13        |
| 81 | Power-law persistence characterizes traveling waves in coupled circle maps with repulsive coupling. Physical Review E, 2007, 75, 066208.                                 | 2.1 | 12        |
| 82 | Environment-induced symmetry breaking of the oscillation-death state. Physical Review E, 2018, 98, .   | 2.1 | 12        |
| 83 | Suppression and revival of oscillations through time-varying interaction. Chaos, Solitons and Fractals, 2019, 118, 249-254.  | 5.1 | 12        |
| 84 | Spatiotemporal consequences of relaxation time scales in threshold-coupled systems. Physical Review E, 2006, 73, 026215.   | 2.1 | 11        |
| 85 | A simple nonlinear dynamical computing device. Chaos, Solitons and Fractals, 2009, 42, 809-819.  | 5.1 | 11        |
| 86 | The scaling of physics-informed machine learning with data and dimensions. Chaos, Solitons and Fractals: X, 2020, 5, 100046.   | 2.1 | 11        |
| 87 | EXPLOITING NONLINEAR DYNAMICS TO STORE AND PROCESS INFORMATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 1551-1559. | 1.7 | 10        |
| 88 | Revival of oscillations via common environment. Nonlinear Dynamics, 2018, 91, 2219-2225.   | 5.2 | 10        |
| 89 | HOW CRUCIAL IS SMALL WORLD CONNECTIVITY FOR DYNAMICS?. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 2767-2775.          | 1.7 | 9         |
| 90 | Nonuniversal dependence of spatiotemporal regularity on randomness in coupling connections. Physical Review E, 2008, 78, 066120.   | 2.1 | 9         |

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|-----|---|-----|-----------|
| 91  | Small-world networks exhibit pronounced intermittent synchronization. <i>Chaos</i> , 2017, 27, 111101.  | 2.5 | 9         |
| 92  | Transient noise. <i>Physical Review E</i> , 1996, 53, 4509-4513.  | 2.1 | 8         |
| 93  | Exploiting the controlled responses of chaotic elements to design configurable hardware. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006, 364, 2483-2494. | 3.4 | 8         |
| 94  | Emergent patterns in interacting neuronal sub-populations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 22, 314-320.   | 3.3 | 8         |
| 95  | Chimera states are fragile under random links. <i>Europhysics Letters</i> , 2019, 128, 40004.   | 2.0 | 8         |
| 96  | Emergent noise-aided logic through synchronization. <i>Physical Review E</i> , 2021, 104, 064207.   | 2.1 | 8         |
| 97  | Machine-learning potential of a single pendulum. <i>Physical Review E</i> , 2022, 105, .  | 2.1 | 8         |
| 98  | Coupling Reduces Noise: Applying Dynamical Coupling to Reduce Local White Additive Noise. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2015, 25, 1550040.      | 1.7 | 7         |
| 99  | Echo in complex networks. <i>Physical Review E</i> , 2020, 101, 022216.   | 2.1 | 7         |
| 100 | Competitive interplay of repulsive coupling and cross-correlated noises in bistable systems. <i>Chaos</i> , 2021, 31, 061106.   | 2.5 | 7         |
| 101 | Resilience of networks of multi-stable chaotic systems to targetted attacks. <i>European Physical Journal B</i> , 2020, 93, 1.  | 1.5 | 7         |
| 102 | Nonsimultaneity effects in globally coupled maps. <i>Physical Review E</i> , 1996, 54, 6936-6939.   | 2.1 | 6         |
| 103 | Consequences of nonlocal connections in networks of chaotic maps under threshold activated coupling. <i>Physical Review E</i> , 2004, 69, 066209.   | 2.1 | 6         |
| 104 | Asynchronous updating induces order in threshold coupled systems. <i>Physical Review E</i> , 2007, 76, 046212.  | 2.1 | 6         |
| 105 | Effect of switching links in networks of piecewise linear maps. <i>Nonlinear Dynamics</i> , 2015, 81, 1741-1749.  | 5.2 | 6         |
| 106 | Emergence of Persistent Infection due to Heterogeneity. <i>Scientific Reports</i> , 2017, 7, 41582.   | 3.3 | 6         |
| 107 | Are network properties consistent indicators of synchronization?. <i>Europhysics Letters</i> , 2017, 117, 20003.  | 2.0 | 6         |
| 108 | Identifying nodal properties that are crucial for the dynamical robustness of multistable networks. <i>Physical Review E</i> , 2018, 98, 022314.  | 2.1 | 6         |

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|-----|---|-----|-----------|
| 109 | Semiclassical quantization of resonant systems. <i>Molecular Physics</i> , 1989, 67, 335-346.   | 1.7 | 5         |
| 110 | Classical resonances and an arbitrary trajectory quantization scheme for a chaotic system. <i>Physical Review Letters</i> , 1993, 71, 3790-3793.  | 7.8 | 5         |
| 111 | Discrete Hamiltonian symmetries and semiclassical quantization. <i>Molecular Physics</i> , 1993, 80, 1525-1532.   | 1.7 | 5         |
| 112 | Hierarchical globally coupled systems. <i>Physical Review E</i> , 1998, 57, 5217-5229.  | 2.1 | 5         |
| 113 | A coupled map lattice model for rheological chaos in sheared nematic liquid crystals. <i>Chaos</i> , 2010, 20, 043123.  | 2.5 | 5         |
| 114 | Noise enhanced activity in a complex network. <i>European Physical Journal B</i> , 2014, 87, 1.   | 1.5 | 5         |
| 115 | Balance of Interactions Determines Optimal Survival in Multi-Species Communities. <i>PLoS ONE</i> , 2015, 10, e0145278.   | 2.5 | 5         |
| 116 | Dynamic random links enhance diversity-induced coherence in strongly coupled neuronal systems. <i>Pramana - Journal of Physics</i> , 2015, 84, 249-256.                                 | 1.8 | 5         |
| 117 | Harnessing tipping points for logic operations. <i>European Physical Journal: Special Topics</i> , 2021, 230, 3403-3409.  | 2.6 | 5         |
| 118 | Nonstandard Farey Sequences in a Realistic Diode Map. <i>Europhysics Letters</i> , 1991, 16, 635-641.   | 2.0 | 4         |
| 119 | Fluctuations in the length spectrum of pseudo-integrable billiards. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993, 173, 392-394.                    | 2.1 | 4         |
| 120 | Roughening of spatial profiles in the presence of parametric noise. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998, 245, 393-398.                    | 2.1 | 4         |
| 121 | Imbalance of positive and negative links induces regularity. <i>Chaos, Solitons and Fractals</i> , 2011, 44, 71-78.   | 5.1 | 4         |
| 122 | Synthetic Computation: Chaos Computing, Logical Stochastic Resonance, and Adaptive Computing. <i>Understanding Complex Systems</i> , 2014, , 51-65.                                     | 0.6 | 4         |
| 123 | Realization of morphing logic gates in a repressilator with quorum sensing feedback. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 1099-1103. | 2.1 | 4         |
| 124 | Threshold-activated transport stabilizes chaotic populations to steady states. <i>PLoS ONE</i> , 2017, 12, e0183251.  | 2.5 | 4         |
| 125 | Synchronized Hopping Induced by Interplay of Coupling and Noise. , 2020, , 325-334.   |     | 4         |
| 126 | Control and Synchronization of Chaotic Neurons Under Threshold Activated Coupling. <i>Lecture Notes in Computer Science</i> , 2007, , 954-962.  | 1.3 | 4         |



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|-----|---|-----|-----------|
| 127 | Influence of the Allee effect on extreme events in coupled three-species systems. <i>Journal of Biosciences</i> , 2022, 47, .   | 1.1 | 4         |
| 128 | Spurious spectral fluctuations due to missing levels. <i>Physical Review A</i> , 1992, 46, 2649-2652.   | 2.5 | 3         |
| 129 | Implications of varying communication speeds in "globally" coupled maps. <i>Physical Review E</i> , 1998, 57, 4041-4045.  | 2.1 | 3         |
| 130 | Asynchronous updating of threshold-coupled chaotic neurons. <i>Pramana - Journal of Physics</i> , 2008, 70, 1127-1134.  | 1.8 | 3         |
| 131 | Under what kind of parametric fluctuations is spatiotemporal regularity the most robust?. <i>Pramana - Journal of Physics</i> , 2010, 74, 895-906.  | 1.8 | 3         |
| 132 | Scalable ultra-sensitive detection of heterogeneity via coupled bistable dynamics. <i>Europhysics Letters</i> , 2012, 98, 60004.  | 2.0 | 3         |
| 133 | Cluster formation in populations of coupled chaotic neurons. <i>European Physical Journal: Special Topics</i> , 2013, 222, 905-915.   | 2.6 | 3         |
| 134 | Effect of heterogeneity in a model of El Niño Southern Oscillations. <i>Chaos, Solitons and Fractals</i> , 2017, 104, 668-679.  | 5.1 | 3         |
| 135 | Control of hierarchical networks by coupling to an external chaotic system. <i>Europhysics Letters</i> , 2019, 125, 50006.  | 2.0 | 3         |
| 136 | Localized spatial distributions of disease phases yield long-term persistence of infection. <i>Scientific Reports</i> , 2019, 9, 20309.   | 3.3 | 3         |
| 137 | Negotiating the separatrix with machine learning. <i>Nonlinear Theory and Its Applications IEICE</i> , 2021, 12, 134-142.   | 0.6 | 3         |
| 138 | Quenching of oscillations in a liquid metal via attenuated coupling. <i>Physical Review E</i> , 2022, 105, L032201.   | 2.1 | 3         |
| 139 | ASYNCHRONOUS UPDATING RESTORES THE LAW OF LARGE NUMBERS IN GLOBALLY COUPLED SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2002, 12, 663-669. | 1.7 | 2         |
| 140 | CHAOTIC NETWORKS UNDER THRESHOLDING. <i>International Journal of Modern Physics B</i> , 2003, 17, 5503-5524.  | 2.0 | 2         |
| 141 | Noise Enhanced Logic Gates. <i>AIP Conference Proceedings</i> , 2011, , .   | 0.4 | 2         |
| 142 | Targeting Temporal Patterns in Time-Delay Chaotic Systems. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2014, 24, 1450014.                           | 1.7 | 2         |
| 143 | Random links enhance the sensitivity of networks to heterogeneity. <i>Europhysics Letters</i> , 2015, 112, 60004.   | 2.0 | 2         |
| 144 | Spatiotemporal regularity in networks with stochastically varying links. <i>European Physical Journal B</i> , 2015, 88, 1.  | 1.5 | 2         |

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|-----|--|-----|-----------|
| 145 | Anticipating persistent infection. Europhysics Letters, 2018, 121, 60001.  | 2.0 | 2         |
| 146 | Enhancement of extreme events through the Allee effect and its mitigation through noise in a three species system. Scientific Reports, 2021, 11, 20913.  | 3.3 | 2         |
| 147 | Ill-matched timescales in coupled systems can induce oscillation suppression. Chaos, 2021, 31, 103104.   | 2.5 | 2         |
| 148 | Absorption spectrum for the transition state H <sub>3</sub> – A quantum mechanical model study. Journal of Chemical Sciences, 1986, 96, 215-221.         | 1.5 | 1         |
| 149 | Fluctuations in the time periods of a model chaotic system. Physical Review A, 1992, 46, 5257-5259.  | 2.5 | 1         |
| 150 | Lattice dynamical models of adaptive spatio-temporal phenomena. Pramana - Journal of Physics, 1997, 48, 287-302.   | 1.8 | 1         |
| 151 | Emergent organization of oscillator clusters in coupled self-regulatory chaotic maps. Pramana - Journal of Physics, 2008, 70, 1153-1164.                 | 1.8 | 1         |
| 152 | Regular and chaotic states in a local map description of sheared nematic liquid crystals. Physical Review E, 2008, 78, 011706.                           | 2.1 | 1         |
| 153 | Construction of a Chaotic Computer Chip. Understanding Complex Systems, 2009, , 3-13.  | 0.6 | 1         |
| 154 | Preventing catastrophes in spatially extended systems through dynamic switching of random interactions. Pramana - Journal of Physics, 2015, 84, 217-228. | 1.8 | 1         |
| 155 | Scaling of moments in rotational inelasticity. Chemical Physics Letters, 1987, 135, 153-158.   | 2.6 | 0         |
| 156 | Adaptive Dynamics on a Chaotic Lattice. Physical Review Letters, 1993, 71, 3396-3396.  | 7.8 | 0         |
| 157 | Theory of Fluctuations in Pseudointegrable Systems. Physical Review Letters, 1993, 70, 2823-2823.  | 7.8 | 0         |
| 158 | Reconfigurable Logic Element using a Chaotic Circuit. , 2006, , .  |     | 0         |
| 159 | Exploiting Chaos for Computation. , 2006, , .  |     | 0         |
| 160 | Exploiting Nonlinear Dynamics to Search for the Existence of Matches in a Database. , 2006, , .  |     | 0         |
| 161 | Unraveling the phase-amplitude coupling modulation in a delay-coupled diode lasers functionality. , 2017, , .  |     | 0         |
| 162 | Asymmetry induced suppression of chaos. Scientific Reports, 2020, 10, 15582.   | 3.3 | 0         |