Awadhesh Prasad

List of Publications by Year
in descending order

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Version: 2024-02-01

114 papers	4,436 citations	147801 31 h-index	110387 64 g-index
115 all docs	115 docs citations	115 times ranked	2000 citing authors

#	Article	IF	Citations
1	Emergence of extreme events in coupled systems with time-dependent interactions. Communications in Nonlinear Science and Numerical Simulation, 2022, 107, 106170.	3.3	12
2	Emergent rhythms in coupled nonlinear oscillators due to dynamic interactions. Chaos, 2021, 31, 011105.	2.5	19
3	Chimera states in a class of hidden oscillatory networks. Nonlinear Dynamics, 2021, 104, 1645-1655.	5.2	6
4	Ordered slow and fast dynamics of unsynchronized coupled phase oscillators. Chaos, 2021, 31, 081102.	2.5	5
5	Traveling of extreme events in network of counter-rotating nonlinear oscillators. Chaos, 2021, 31, 093136.	2.5	17
6	Bifurcation delay, travelling waves and chimera-like states in a network of coupled oscillators. European Physical Journal: Special Topics, 2020, 229, 2307-2325.	2.6	6
7	Chaotic Behavior of Ionic Transportation Through Synthetic Ion Channels. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950107.	1.7	2
8	Ageing in mixed populations of Stuartâ€“Landau oscillators: the role of diversity. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 464001.	2.1	4
9	Convergence of chaotic attractors due to interaction based on closeness. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 125997.	2.1	15
10	Dynamics of nonlinear oscillator with transient feedback. International Journal of Dynamics and Control, 2019, 7, 1015-1020.	2.5	6
11	Period-3 dominant phase synchronisation of Zelkova serrata: border-collision bifurcation observed in a plant population. Scientific Reports, 2019, 9, 15568.	3.3	5
12	Infinite Number of Hidden Attractors in Memristor-Based Autonomous Duffing Oscillator. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850013.	1.7	37
13	Describing chaotic attractors: Regular and perpetual points. Chaos, 2018, 28, 033604.	2.5	18
14	New topological tool for multistable dynamical systems. Chaos, 2018, 28, 111101.	2.5	6
15	Generalized synchronization in a conservative and nearly conservative systems of star network. Chaos, 2018, 28, 113107.	2.5	10
16	Investigation on Unconventional Synthesis of Astroinformatic Data Classifier Powered by Irregular Dynamics. IEEE Intelligent Systems, 2018, 33, 63-77.	4.0	5
17	Control of coexisting attractors via temporal feedback. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2127-2132.	2.1	29
18	Memristor emulator causes dissimilarity on a coupled memristive systems. AIP Conference Proceedings, 2018, , .	0.4	0

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19	Dynamical effects of breaking rotational symmetry in counter-rotating Stuart-Landau oscillators. Physical Review E, 2018, 98, 022212.	2.1	11
20	Existence and Control of Hidden Oscillations in a Memristive Autonomous Duffing Oscillator. Studies in Systems, Decision and Control, 2018, , 327-344.	1.0	5
21	Emergence of chimeras through induced multistability. Physical Review E, 2017, 95, 032203.	2.1	14
22	Perpetual Points: New Tool for Localization of Coexisting Attractors in Dynamical Systems. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750063.	1.7	32
23	Oscillation death and revival by coupling with damped harmonic oscillator. Chaos, 2017, 27, 093104.	2.5	7
24	Direct coupling: a possible strategy to control fruit production in alternate bearing. Scientific Reports, 2017, 7, 39890.	3.3	8
25	Time-delayed conjugate coupling in dynamical systems. European Physical Journal: Special Topics, 2017, 226, 1903-1910.	2.6	4
26	Effects of quasiperiodic forcing in epidemic models. Chaos, 2016, 26, 093115.	2.5	7
27	Hidden attractors in dynamical systems. Physics Reports, 2016, 637, 1-50.	25.6	531
28	Effects of quantum noise on the nonlinear dynamics of a semiconductor laser subject to two spectrally filtered, time-delayed optical feedbacks. Optics Communications, 2016, 370, 209-221.	2.1	4
29	Perpetual points and periodic perpetual loci in maps. Chaos, 2016, 26, 103103.	2.5	16
30	Driving-induced multistability in coupled chaotic oscillators: Symmetries and riddled basins. Chaos, 2016, 26, 063111.	2.5	19
31	Exact solutions of certain nonlinear chemotaxis diffusion reaction equations. Pramana - Journal of Physics, 2016, 86, 1043-1053.	1.8	1
32	Understanding the alternate bearing phenomenon: Resource budget model. Chaos, 2015, 25, 123102.	2.5	12
33	Perpetual points and hidden attractors in dynamical systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2591-2596.	2.1	71
34	Controlling Dynamics of Hidden Attractors. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550061.	1.7	119
35	Effect of counter rotation of oscillations on surface acoustic wave (SAW) coupled synchronized oscillators sensor. , 2015, , .		0
36	Existence of Perpetual Points in Nonlinear Dynamical Systems and Its Applications. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1530005.	1.7	56

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37	Multilayered bubbling route to SNA in a quasiperiodically forced electronic circuit with experimental and analytical confirmation. Chaos, Solitons and Fractals, 2015, 75, 96-110.	5.1	23
38	Theoretical Study of the Effect of Quantum Noise on the Nonlinear Dynamics of a Semiconductor Laser Subject to Two Filter Optical Feedbacks. , 2015, , .		0
39	Theoretical and numerical modelling of chaotic electrostatic ion cyclotron (EIC) oscillations by Jerk equation. Physics of Plasmas, 2014, 21, 022311.	1.9	11
40	Hysteresis in amplitudes of self-excited oscillations for co-axial electrode-geometry DC glow discharge plasma. Physics of Plasmas, 2014, 21, 123501.	1.9	9
41	Amplitude death: The cessation of oscillations in coupled nonlinear dynamical systems. , 2014, , .		8
42	Phase-locked regimes in delay-coupled oscillator networks. Chaos, 2014, 24, 043111.	2.5	3
43	Visibility-Graph Analysis of the Solar Wind Velocity. Solar Physics, 2014, 289, 379-389.	2.5	27
44	Effect of parameter mismatch and time delay interaction on density-induced amplitude death in coupled nonlinear oscillators. Nonlinear Dynamics, 2014, 76, 1797-1806.	5.2	14
45	Complicated basins and the phenomenon of amplitude death in coupled hidden attractors. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 713-718.	2.1	69
46	Pulse shape analysis of a two fold clover detector with an EMD based new algorithm: A comparison. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 741, 108-116.	1.6	4
47	Experimental evidence for amplitude death induced by a time-varying interaction. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2845-2850.	2.1	14
48	Controlling dynamical behavior of drive-response system through linear augmentation. European Physical Journal: Special Topics, 2014, 223, 1531-1539.	2.6	26
49	Driving-induced bistability in coupled chaotic attractors. Physical Review E, 2013, 87, 042909.	2.1	7
50	Time-varying interaction leads to amplitude death in coupled nonlinear oscillators. Pramana - Journal of Physics, 2013, 81, 407-415.	1.8	17
51	Controlling bistability by linear augmentation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 2329-2332.	2.1	57
52	Birth of strange nonchaotic attractors through formation and merging of bubbles in a quasiperiodically forced ChuaÊ¼s oscillator. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 612-621.	2.1	40
53	Semiconductor Laser Dynamics With Two Filtered Optical Feedbacks. IEEE Journal of Quantum Electronics, 2013, 49, 340-349.	1.9	7
54	Enhancement of photon intensity in forced coupled quantum wells inside a semiconductor microcavity. Physical Review E, 2013, 87, 022916.	2.1	15

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55	A new approach of denoising the regular and chaotic signals using Empirical Mode Decomposition: Comparison and application. Review of Scientific Instruments, 2013, 84, 075117.	1.3	6
56	Amplitude death phenomena in delay-coupled Hamiltonian systems. Physical Review E, 2013, 87, 052912.	2.1	4
57	Frequency discontinuity and amplitude death with time-delay asymmetry. Physical Review E, 2012, 85, 046204.	2.1	18
58	Chaotic motion of ions in polymer gel electrolytes: First observations. Solid State Ionics, 2012, 225, 751-754.	2.7	4
59	Amplitude death: The emergence of stationarity in coupled nonlinear systems. Physics Reports, 2012, 521, 205-228.	25.6	307
60	Chaotic behavior of ion exchange phenomena in polymer gel electrolytes through irradiated polymeric membrane. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 1915-1918.	2.1	4
61	Chaos and regularity in semiconductor microcavities. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 1970-1977.	2.1	16
62	Symbolic analysis of slow solar wind data using rank order statistics. Planetary and Space Science, 2012, 62, 55-60.	1.7	2
63	Hysteresis in a Solar Activity Cycle. Solar Physics, 2012, 276, 407-414.	2.5	10
64	Relaying phase synchrony in chaotic oscillator chains. Physical Review E, 2011, 84, 056205.	2.1	0
65	The effect of finite responseâ€“time in coupled dynamical systems. Pramana - Journal of Physics, 2011, 77, 865-871.	1.8	1
66	Optical phase dynamics in mutually coupled diode laser systems exhibiting power synchronization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 235403.	1.5	8
67	Targeting fixed-point solutions in nonlinear oscillators through linear augmentation. Physical Review E, 2011, 83, 067201.	2.1	47
68	Phase-flip transition in relay-coupled nonlinear oscillators. Physical Review E, 2011, 84, 016226.	2.1	35
69	Time-delay-induced phase-transition to synchrony in coupled bursting neurons. Chaos, 2011, 21, 023116.	2.5	82
70	Delay-coupled discrete maps: Synchronization, bistability, and quasiperiodicity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 2636-2639.	2.1	5
71	Solitary wave solutions of selective nonlinear diffusion-reaction equations using homogeneous balance method. Pramana - Journal of Physics, 2010, 75, 607-616.	1.8	16
72	Universal occurrence of mixed-synchronization in counter-rotating nonlinear coupled oscillators. Chaos, Solitons and Fractals, 2010, 43, 42-46.	5.1	45

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73	Quasiperiodic forcing of coupled chaotic systems. Physical Review E, 2010, 81, 026202.	2.1	16
74	Dynamical effects of integrative time-delay coupling. Physical Review E, 2010, 82, 017201.	2.1	35
75	Nature of the phase-flip transition in the synchronized approach to amplitude death. Physical Review E, 2010, 82, 046219.	2.1	31
76	Targeted control of amplitude dynamics in coupled nonlinear oscillators. Physical Review E, 2010, 82, 027201.	2.1	15
77	Amplitude death in nonlinear oscillators with nonlinear coupling. Physical Review E, 2010, 81, 027201.	2.1	105
78	Synchronization regimes in conjugate coupled chaotic oscillators. Chaos, 2009, 19, 033143.	2.5	35
79	Strange bifurcation and phase-locked dynamics in mutually coupled diode laser systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 145401.	1.5	25
80	Nonlinear Time Series Analysis of Sunspot Data. Solar Physics, 2009, 260, 441-449.	2.5	34
81	Brain Dynamics and Modeling in Epilepsy: Prediction and Control Studies. Understanding Complex Systems, 2009, , 185-214.	0.6	3
82	Soliton-like solutions of certain types of nonlinear diffusionâ€“reaction equations with variable coefficient. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 1862-1866.	2.1	15
83	Some new solitary and travelling wave solutions of certain nonlinear diffusionâ€“reaction equations using auxiliary equation method. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 3395-3399.	2.1	18
84	The effect of time-delay on anomalous phase synchronization. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6150-6154.	2.1	11
85	Analysis of the solar wind flow during an activity cycle. Planetary and Space Science, 2008, 56, 530-536.	1.7	4
86	THE NATURE OF ATTRACTOR BASINS IN MULTISTABLE SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 1675-1688.	1.7	29
87	Universal occurrence of the phase-flip bifurcation in time-delay coupled systems. Chaos, 2008, 18, 023111.	2.5	68
88	Stable phase-locking of an external-cavity diode laser subjected to external optical injection. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 135402.	1.5	64
89	Analytical signal analysis of strange nonchaotic dynamics. Physical Review E, 2008, 77, 046220.	2.1	5
90	APERIODIC NONCHAOTIC ATTRACTORS, STRANGE AND OTHERWISE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 3397-3407.	1.7	29

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91	Amplitude death in the absence of time delays in identical coupled oscillators. Physical Review E, 2007, 76, 035201.	2.1	206
92	Thermoluminescence and photoluminescence of LiNaSO4:Eu irradiated with 24 and 48MeV 7Li ion beam. Journal of Luminescence, 2006, 121, 497-506.	3.1	25
93	On the exact solutions of nonlinear diffusion-reaction equations with quadratic and cubic nonlinearities. Pramana - Journal of Physics, 2006, 67, 249-256.	1.8	10
94	Phase-flip bifurcation induced by time delay. Physical Review E, 2006, 74, 035204.	2.1	94
95	Dynamical hysteresis and spatial synchronization in coupled non-identical chaotic oscillators. Pramana - Journal of Physics, 2005, 64, 513-523.	1.8	32
96	Basin bifurcations in quasiperiodically forced coupled systems. Physical Review E, 2005, 72, 036215.	2.1	14
97	Long-term prospective on-line real-time seizure prediction. Clinical Neurophysiology, 2005, 116, 532-544.	1.5	185
98	Amplitude death in coupled chaotic oscillators. Physical Review E, 2005, 72, 056204.	2.1	129
99	Fractalization route to strange nonchaotic dynamics. Physical Review E, 2004, 70, 046203.	2.1	30
100	Dynamical Resetting of the Human Brain at Epileptic Seizures: Application of Nonlinear Dynamics and Global Optimization Techniques. IEEE Transactions on Biomedical Engineering, 2004, 51, 493-506.	4.2	113
101	Measuring the Direction and the Strength of Coupling in Nonlinear Systemsâ€"A Modeling Approach in the State Space. IEEE Signal Processing Letters, 2004, 11, 617-620.	3.6	12
102	Adaptive epileptic seizure prediction system. IEEE Transactions on Biomedical Engineering, 2003, 50, 616-627.	4.2	370
103	Amplitude modulation in a pair of time-delay coupled external-cavity semiconductor lasers. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 318, 71-77.	2.1	70
104	Complicated basins in external-cavity semiconductor lasers. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 314, 44-50.	2.1	25
105	Strange nonchaotic attractors in driven excitable systems. Physical Review E, 2003, 68, 037201.	2.1	17
106	Unexpected robustness against noise of a class of nonhyperbolic chaotic attractors. Physical Review E, 2002, 65, 026209.	2.1	21
107	Low-frequency fluctuations in external cavity semiconductor lasers: understanding based on a simple dynamical model. Journal of Optics B: Quantum and Semiclassical Optics, 2001, 3, 242-250.	1.4	8
108	STRANGE NONCHAOTIC ATTRACTORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 291-309.	1.7	134

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109	Bifurcations and transitions in the quasiperiodically driven logistic map. Physica D: Nonlinear Phenomena, 2000, 145, 1-12.	2.8	21
110	Melting behavior of heterogenous atomic clusters: Gapless coexisting phases in (Arâ€“Xe)13. Journal of Chemical Physics, 1999, 110, 501-507.	3.0	3
111	Characteristic distributions of finite-time Lyapunov exponents. Physical Review E, 1999, 60, 2761-2766.	2.1	80
112	Collision and Symmetry Breaking in the Transition to Strange Nonchaotic Attractors. Physical Review Letters, 1999, 83, 4530-4533.	7.8	47
113	Strange nonchaotic attractors in the quasiperiodically forced logistic map. Physical Review E, 1998, 57, 1576-1584.	2.1	63
114	Intermittency Route to Strange Nonchaotic Attractors. Physical Review Letters, 1997, 79, 4127-4130.	7.8	105