Ricardo L Viana

List of Publications by Citations

210 papers	2,812 citations	29 h-index	41 g-index
225 ext. papers	3,151 ext. citations	3.3 avg, IF	5.18 L-index

#	Paper	IF	Citations
210	Fractal structures in nonlinear dynamics. *Reviews of Modern Physics*, **2009**, 81, 333-386	40.5	241
209	Delayed feedback control of bursting synchronization in a scale-free neuronal network. *Neural Networks*, **2010**, 23, 114-24	9.1	108
208	Chaotic phase synchronization in scale-free networks of bursting neurons. *Physical Review E*, **2007**, 76, 016218	2.4	101
207	Phase synchronization of bursting neurons in clustered small-world networks. *Physical Review E*, **2012**, 86, 016211	2.4	62
206	Escape patterns, magnetic footprints, and homoclinic tangles due to ergodic magnetic limiters. *Physics of Plasmas*, **2002**, 9, 4917-4928	2.1	48
205	Suppression of bursting synchronization in clustered scale-free (rich-club) neuronal networks. *Chaos*, **2012**, 22, 043149	3.3	45
204	Analytical results for coupled-map lattices with long-range interactions. *Physical Review E*, **2003**, 68, 045202	2.4	45
203	Chimera-like states in a neuronal network model of the cat brain. *Chaos, Solitons and Fractals*, **2017**, 101, 86-91	9.3	44
202	Transport properties in nontwist area-preserving maps. *Chaos*, **2009**, 19, 043108	3.3	43
201	Phase synchronization of coupled bursting neurons and the generalized Kuramoto model. *Neural Networks*, **2015**, 66, 107-18	9.1	40
200	Bursting synchronization in scale-free networks. *Chaos, Solitons and Fractals*, **2009**, 41, 2220-2225	9.3	39
199	Fractal structures in nonlinear plasma physics. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2011**, 369, 371-95	3	38
198	Damping control law for a chaotic impact oscillator. *Chaos, Solitons and Fractals*, **2007**, 32, 745-750	9.3	38
197	Synchronization of bursting Hodgkin-Huxley-type neurons in clustered networks. *Physical Review E*, **2014**, 90, 032818	2.4	36
196	Tokamak magnetic field lines described by simple maps. *European Physical Journal: Special Topics*, **2008**, 165, 195-210	2.3	36
195	Bubbling bifurcation: Loss of synchronization and shadowing breakdown in complex systems. *Physica D: Nonlinear Phenomena*, **2005**, 206, 94-108	3.3	36
194	Lyapunov spectrum and synchronization of piecewise linear map lattices with power-law coupling. *Physical Review E*, **2002**, 65, 056209	2.4	36

193	Spatial recurrence plots. *Physical Review E*, **2006**, 73, 056207	2.4	35
192	Synchronization plateaus in a lattice of coupled sine-circle maps. *Physical Review E*, **2000**, 61, 5154-61	2.4	34
191	Basins of attraction changes by amplitude constraining of oscillators with limited power supply. *Chaos, Solitons and Fractals*, **2005**, 26, 1211-1220	9.3	33
190	Effects of the spike timing-dependent plasticity on the synchronisation in a random Hodgkin–Huxley neuronal network. *Communications in Nonlinear Science and Numerical Simulation*, **2016**, 34, 12-22	3.7	31
189	Escape patterns of chaotic magnetic field lines in a tokamak with reversed magnetic shear and an ergodic limiter. *Physics of Plasmas*, **2008**, 15, 092310	2.1	31
188	Sudden changes in chaotic attractors and transient basins in a model for rattling in gearboxes. *Chaos, Solitons and Fractals*, **2004**, 21, 763-772	9.3	31
187	Collective behavior in a chain of van der Pol oscillators with power-law coupling. *Physica A: Statistical Mechanics and Its Applications*, **2002**, 303, 339-356	3.3	31
186	Model for tumour growth with treatment by continuous and pulsed chemotherapy. *BioSystems*, **2014**, 116, 43-8	1.9	29
185	Control of bursting synchronization in networks of Hodgkin-Huxley-type neurons with chemical synapses. *Physical Review E*, **2013**, 87, 042713	2.4	29
184	Magnetic trapping caused by resonant perturbations in tokamaks with reversed magnetic shear. *Physics of Plasmas*, **2004**, 11, 214-225	2.1	29
183	MULTISTABILITY, BASIN BOUNDARY STRUCTURE, AND CHAOTIC BEHAVIOR IN A SUSPENSION BRIDGE MODEL. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2004**, 14, 927-950	2	29
182	Unstable dimension variability and synchronization of chaotic systems. *Physical Review E*, **2000**, 62, 462-8	2.4	29
181	Erosion of the safe basin for the transversal oscillations of a suspension bridge. *Chaos, Solitons and Fractals*, **2003**, 18, 829-841	9.3	28
180	Field line diffusion and loss in a tokamak with an ergodic magnetic limiter. *Physics of Plasmas*, **2001**, 8, 2855-2865	2.1	27
179	Nonlinear dynamics and chaos in micro/nanoelectromechanical beam resonators actuated by two-sided electrodes. *Chaos, Solitons and Fractals*, **2019**, 122, 6-16	9.3	26
178	Validity of numerical trajectories in the synchronization transition of complex systems. *Physical Review E*, **2003**, 68, 067204	2.4	26
177	Noise-induced basin hopping in a vibro-impact system. *Chaos, Solitons and Fractals*, **2007**, 32, 758-767	9.3	25
176	FRACTAL AND WADA EXIT BASIN BOUNDARIES IN TOKAMAKS. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2007**, 17, 4067-4079	2	24

175	Recurrence quantification analysis of chimera states. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2015**, 379, 2188-2192	2.3	23
174	Effective transport barriers in nontwist systems. *Physical Review E*, **2012**, 86, 036206	2.4	23
173	Control of chaotic magnetic fields in tokamaks. *Brazilian Journal of Physics*, **2002**, 32, 980	1.2	22
172	Intermingled basins in coupled Lorenz systems. *Physical Review E*, **2012**, 85, 036207	2.4	21
171	Nonlinear three-mode interaction and drift-wave turbulence in a tokamak edge plasma. *Physics of Plasmas*, **2006**, 13, 042510	2.1	21
170	Recurrence quantification analysis of electrostatic fluctuations in fusion plasmas. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2008**, 372, 1088-1095	2.3	20
169	Bursting synchronization in non-locally coupled maps. *Physica A: Statistical Mechanics and Its Applications*, **2008**, 387, 4417-4428	3.3	19
168	PSEUDO-DETERMINISTIC CHAOTIC SYSTEMS. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2003**, 13, 3235-3253	2	19
167	Two-state on-off intermittency and the onset of turbulence in a spatiotemporally chaotic system. *Physical Review Letters*, **2010**, 105, 055001	7.4	18
166	Using recurrences to characterize the hyperchaos-chaos transition. *Physical Review E*, **2008**, 78, 066206	2.4	17
165	Basins of Attraction of Periodic Oscillations in Suspension Bridges. *Nonlinear Dynamics*, **2004**, 37, 207-226	5	17
164	Mode locking in small-world networks of coupled circle maps. *Physica A: Statistical Mechanics and Its Applications*, **2003**, 322, 118-128	3.3	17
163	Magnetic field structure in the TCABR tokamak due to ergodic limiters with a non-uniform current distribution: theoretical and experimental results. *Plasma Physics and Controlled Fusion*, **2005**, 47, 1609-1632	2	17
162	Lyapunov exponents of a lattice of chaotic maps with a power-law coupling. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2001**, 286, 134-140	2.3	17
161	Bursting synchronization in networks with long-range coupling mediated by a diffusing chemical substance. *Communications in Nonlinear Science and Numerical Simulation*, **2012**, 17, 2924-2942	3.7	16
160	DIFFUSIVE TRANSPORT THROUGH A NONTWIST BARRIER IN TOKAMAKS. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2007**, 17, 1589-1598	2	16
159	Dynamics of vibrating systems with tuned liquid column dampers and limited power supply. *Journal of Sound and Vibration*, **2006**, 289, 987-998	3.9	16
158	Spatial correlations and synchronization in coupled map lattices with long-range interactions. *Physica A: Statistical Mechanics and Its Applications*, **2004**, 343, 201-218	3.3	16

157	Introduction to focus issue: Recurrence quantification analysis for understanding complex systems. *Chaos*, **2018**, 28, 085601	3.3	16
156	Mathematical model of brain tumour with glia-neuron interactions and chemotherapy treatment. *Journal of Theoretical Biology*, **2015**, 368, 113-21	2.3	15
155	Recurrence quantification analysis of turbulent fluctuations in the plasma edge of Tokamak Chauffage Alfvén Brésilien tokamak. *Physics of Plasmas*, **2010**, 17, 012303	2.1	15
154	Local predictability and nonhyperbolicity through finite Lyapunov exponent distributions in two-degrees-of-freedom Hamiltonian systems. *Physical Review E*, **2008**, 78, 066204	2.4	15
153	Noise-induced basin hopping in a gearbox model. *Chaos, Solitons and Fractals*, **2005**, 26, 1523-1531	9.3	15
152	Chaotic bursting at the onset of unstable dimension variability. *Physical Review E*, **2002**, 66, 046213	2.4	15
151	Chaotic magnetic field lines in a Tokamak with resonant helical windings. *Chaos, Solitons and Fractals*, **2000**, 11, 765-778	9.3	15
150	Suppression of phase synchronisation in network based on cat's brain. *Chaos*, **2016**, 26, 043107	3.3	15
149	Spike-burst chimera states in an adaptive exponential integrate-and-fire neuronal network. *Chaos*, **2019**, 29, 043106	3.3	14
148	Dynamic range in a neuron network with electrical and chemical synapses. *Communications in Nonlinear Science and Numerical Simulation*, **2014**, 19, 164-172	3.7	14
147	Synchronization of Coupled Kicked Limit Cycle Systems. *Chaos, Solitons and Fractals*, **1998**, 9, 1931-1944	9.3	14
146	Type-I Intermittency and Crisis-Induced Intermittency in a Semiconductor Laser under Injection Current Modulation. *Nonlinear Dynamics*, **2002**, 27, 185-195	5	14
145	Synchronous behaviour in network model based on human cortico-cortical connections. *Physiological Measurement*, **2018**, 39, 074006	2.9	14
144	A network of networks model to study phase synchronization using structural connection matrix of human brain. *Physica A: Statistical Mechanics and Its Applications*, **2018**, 496, 162-170	3.3	13
143	Riddling: Chimera's dilemma. *Chaos*, **2018**, 28, 081105	3.3	13
142	Bicoherence in electrostatic turbulence driven by high magnetohydrodynamic activity in Tokamak Chauffage Alfvén Brésilien. *Physics of Plasmas*, **2009**, 16, 042508	2.1	13
141	A simple feedback control for a chaotic oscillator with limited power supply. *Journal of Sound and Vibration*, **2007**, 299, 664-671	3.9	13
140	Periodic orbit analysis at the onset of the unstable dimension variability and at the blowout bifurcation. *Chaos*, **2007**, 17, 023131	3.3	13

139	Control of extreme events in the bubbling onset of wave turbulence. *Physical Review E*, **2014**, 89, 040901	2.4	12
138	Analysis of the influence of external biasing on Texas Helimak turbulence. *Physics of Plasmas*, **2013**, 20, 022310	2.1	12
137	Electrostatic turbulence driven by high magnetohydrodynamic activity in Tokamak Chauffage Alfvén Brésilien. *Physics of Plasmas*, **2008**, 15, 062501	2.1	12
136	Peripheral Stochasticity in Tokamaks.The Martin-Taylor Revisited. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **1992**, 47, 941-944	1.4	12
135	Multiple-time-scale framework for understanding the progression of Parkinson's disease. *Physical Review E*, **2014**, 90, 062709	2.4	11
134	Shearless transport barriers in magnetically confined plasmas. *Plasma Physics and Controlled Fusion*, **2012**, 54, 124035	2	11
133	Transport barrier created by dimerized islands. *Physica A: Statistical Mechanics and Its Applications*, **2004**, 342, 363-369	3.3	11
132	Bifurcations and onset of chaos on the ergodic magnetic limiter mapping. *Chaos, Solitons and Fractals*, **2002**, 14, 403-423	9.3	11
131	Chaotic magnetic field lines in tokamaks with ergodic limiters. *Physica A: Statistical Mechanics and Its Applications*, **2003**, 317, 411-431	3.3	11
130	RIDDLED BASINS AND UNSTABLE DIMENSION VARIABILITY IN CHAOTIC SYSTEMS WITH AND WITHOUT SYMMETRY. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2001**, 11, 2689-2698	2	11
129	Synchronization of phase oscillators with coupling mediated by a diffusing substance. *Physica A: Statistical Mechanics and Its Applications*, **2017**, 470, 236-248	3.3	10
128	Pattern formation and Turing instability in an activator–inhibitor system with power-law coupling. *Physica A: Statistical Mechanics and Its Applications*, **2015**, 419, 487-497	3.3	10
127	Synchronization of biological clock cells with a coupling mediated by the local concentration of a diffusing substance. *Communications in Nonlinear Science and Numerical Simulation*, **2016**, 35, 37-52	3.7	10
126	Network and external perturbation induce burst synchronisation in cat cerebral cortex. *Communications in Nonlinear Science and Numerical Simulation*, **2016**, 34, 45-54	3.7	10
125	Fractal structures in the chaotic motion of charged particles in a magnetized plasma under the influence of drift waves. *Physica A: Statistical Mechanics and Its Applications*, **2017**, 469, 681-694	3.3	10
124	Spatial recurrence analysis: a sensitive and fast detection tool in digital mammography. *Chaos*, **2014**, 24, 013106	3.3	10
123	Collisional effects in the tokamap. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2011**, 376, 24-30	2.3	10
122	Two-state on-off intermittency caused by unstable dimension variability in periodically forced drift waves. *Physical Review E*, **2011**, 84, 056211	2.4	10

121	Field-line stochasticity in a Tokamak with an Ergodic Magnetic Limiter. *Dynamical Systems*, **1997**, 12, 75-88		10
120	Crisis-induced unstable dimension variability in a dynamical system. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2008**, 372, 5569-5574	2.3	10
119	Nonlinear cancer chemotherapy: Modelling the Norton-Simon hypothesis. *Communications in Nonlinear Science and Numerical Simulation*, **2019**, 70, 307-317	3.7	10
118	Macroscopic bursting in physiological networks: node or network property?. *New Journal of Physics*, **2015**, 17, 055024	2.9	9
117	Mechanism for stickiness suppression during extreme events in Hamiltonian systems. *Physical Review E*, **2015**, 91, 062903	2.4	9
116	Synchronization versus neighborhood similarity in complex networks of nonidentical oscillators. *Physical Review E*, **2015**, 92, 032901	2.4	9
115	Spherically symmetric stationary MHD equilibria with azimuthal rotation. *Plasma Physics and Controlled Fusion*, **1997**, 39, 197-203	2	9
114	Stabilizing periodic orbits in a chaotic semiconductor laser. *Chaos, Solitons and Fractals*, **2003**, 15, 327-344	9.3	9
113	Boundary crises, fractal basin boundaries, and electric power collapses. *Chaos, Solitons and Fractals*, **2003**, 15, 417-424	9.3	9
112	Using rotation number to detect sticky orbits in Hamiltonian systems. *Chaos*, **2019**, 29, 043125	3.3	8
111	Network properties of healthy and Alzheimer brains. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 547, 124475	3.3	8
110	Synaptic Plasticity and Spike Synchronisation in Neuronal Networks. *Brazilian Journal of Physics*, **2017**, 47, 678-688	1.2	8
109	Dynamical changes from harmonic vibrations of a limited power supply driving a Duffing oscillator. *Nonlinear Dynamics*, **2012**, 70, 401-407	5	8
108	Transport control in fusion plasmas by changing electric and magnetic field spatial profiles. *Computer Physics Communications*, **2009**, 180, 642-650	4.2	8
107	Periodic-orbit analysis and scaling laws of intermingled basins of attraction in an ecological dynamical system. *Physical Review E*, **2008**, 78, 056214	2.4	8
106	On axisymmetric double adiabatic MHD equilibria with plasma flow. *Plasma Physics and Controlled Fusion*, **1999**, 41, 567-573	2	8
105	Recurrence analysis of ant activity patterns. *PLoS ONE*, **2017**, 12, e0185968	3.7	8
104	Energy distribution in intrinsically coupled systems: The spring pendulum paradigm. *Physica A: Statistical Mechanics and Its Applications*, **2018**, 509, 1110-1119	3.3	8

103	Complementary action of chemical and electrical synapses to perception. *Physica A: Statistical Mechanics and Its Applications*, **2015**, 430, 236-241	3.3	7
102	Dynamical characterization of transport barriers in nontwist Hamiltonian systems. *Physical Review E* , **2018**, 97, 012214	2.4	7
101	Recurrence quantification analysis for the identification of burst phase synchronisation. *Chaos*, **2018**, 28, 085701	3.3	7
100	Characterization of spatial patterns produced by a Turing instability in coupled dynamical systems. *Communications in Nonlinear Science and Numerical Simulation*, **2014**, 19, 1055-1071	3.7	7
99	The dose-dense principle in chemotherapy. *Journal of Theoretical Biology*, **2017**, 430, 169-176	2.3	7
98	Anomalous transport induced by nonhyperbolicity. *Physical Review E*, **2012**, 86, 016216	2.4	7
97	Multistability and phase-space structure of dissipative nonlinear parametric four-wave interactions. *Physical Review E*, **2004**, 70, 056403	2.4	7
96	Multiple short-term memories in coupled weakly nonlinear map lattices. *Physical Review E*, **2000**, 61, 5990-3	2.4	7
95	Basin of attraction for chimera states in a network of Rössler oscillators. *Chaos*, **2020**, 30, 083115	3.3	7
94	Alterations in brain connectivity due to plasticity and synaptic delay. *European Physical Journal: Special Topics*, **2018**, 227, 673-682	2.3	7
93	Chaotic magnetic field lines and fractal structures in a tokamak with magnetic limiter. *Chaos, Solitons and Fractals*, **2017**, 104, 588-598	9.3	6
92	Inference of topology and the nature of synapses, and the flow of information in neuronal networks. *Physical Review E*, **2018**, 97, 022303	2.4	6
91	Lyapunov spectrum of chaotic maps with a long-range coupling mediated by a diffusing substance. *Nonlinear Dynamics*, **2017**, 87, 1589-1601	5	6
90	Divertor map with freedom of geometry and safety factor profile. *Plasma Physics and Controlled Fusion*, **2012**, 54, 045007	2	6
89	Escaping and transport barrier due to ergodic magnetic limiters in tokamaks with reversed magnetic shear. *Nuclear Fusion*, **2006**, 46, S192-S198	3.3	6
88	Self-organized memories in coupled map lattices. *Physica A: Statistical Mechanics and Its Applications*, **2006**, 368, 387-398	3.3	6
87	Kolmogorov–Sinai entropy for locally coupled piecewise linear maps. *Physica A: Statistical Mechanics and Its Applications*, **2002**, 308, 125-134	3.3	6
86	Comments on the magnetic field generated by an infinite current grid. *European Journal of Physics*, **1991**, 12, 293-296	0.8	6

85	Mathematical model with autoregressive process for electrocardiogram signals. *Communications in Nonlinear Science and Numerical Simulation*, **2018**, 57, 415-421	3.7	5
84	The role of dose density in combination cancer chemotherapy. *Communications in Nonlinear Science and Numerical Simulation*, **2019**, 79, 104918	3.7	5
83	Clustering and diffusion in a symplectic map lattice with non-local coupling. *Chaos, Solitons and Fractals*, **2009**, 41, 2201-2215	9.3	5
82	Turing instability in oscillator chains with nonlocal coupling. *Physical Review E*, **2011**, 83, 046220	2.4	5
81	Onset of spatiotemporal chaos in a nonlinear system. *Physical Review E*, **2007**, 75, 067202	2.4	5
80	Transient chaotic transport in dissipative drift motion. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2016**, 380, 1621-1626	2.3	5
79	Synchronous patterns and intermittency in a network induced by the rewiring of connections and coupling. *Chaos*, **2019**, 29, 123132	3.3	5
78	Curry-Yorke route to shearless attractors and coexistence of attractors in dissipative nontwist systems. *Chaos*, **2021**, 31, 023125	3.3	5
77	Coexistence of Subharmonic Resonant Modes Obeying a Period-Adding Rule. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2018**, 28, 1830031	2	5
76	Anisotropic MHD equilibria in symmetric systems. *Physics of Plasmas*, **2019**, 26, 042502	2.1	4
75	Dynamical properties of the soft-wall elliptical billiard. *Physical Review E*, **2016**, 94, 022218	2.4	4
74	Blowout bifurcation and spatial mode excitation in the bubbling transition to turbulence. *Physica A: Statistical Mechanics and Its Applications*, **2011**, 390, 365-373	3.3	4
73	Multistability and Self-Similarity in the Parameter-Space of a Vibro-Impact System. *Mathematical Problems in Engineering*, **2009**, 2009, 1-11	1.1	4
72	Extreme fractal structures in chaotic mechanical systems: riddled basins of attraction. *Journal of Physics: Conference Series*, **2010**, 246, 012001	0.3	4
71	Non-twist field line mappings for tokamaks with reversed magnetic shear. *Brazilian Journal of Physics*, **2004**, 34, 1759-1765	1.2	4
70	Derivation of an analytical area-preserving map to describe transport barriers in tokamaks. *Journal of Physics: Conference Series*, **2005**, 7, 163-173	0.3	4
69	Ergodic magnetic limiter for the TCABR. *Brazilian Journal of Physics*, **2002**, 32,	1.2	4
68	Fractal structures in the parameter space of nontwist area-preserving maps. *Physical Review E*, **2019**, 100, 052207	2.4	4

67	Bursting synchronization in neuronal assemblies of scale-free networks. *Chaos, Solitons and Fractals* , **2021**, 142, 110395	9.3	4
66	Recurrence-based analysis of barrier breakup in the standard nontwist map. *Chaos*, **2018**, 28, 085717	3.3	4
65	Efficient manifolds tracing for planar maps. *Chaos*, **2018**, 28, 093106	3.3	4
64	Quantifying coherence of chimera states in coupled chaotic systems. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 526, 120869	3.3	3
63	Super persistent transient in a master–slave configuration with Colpitts oscillators. *Journal of Physics A: Mathematical and Theoretical*, **2014**, 47, 405101	2	3
62	Dynamical analysis of turbulence in fusion plasmas and nonlinear waves. *Communications in Nonlinear Science and Numerical Simulation*, **2012**, 17, 4690-4699	3.7	3
61	Parametric evolution of unstable dimension variability in coupled piecewise-linear chaotic maps. *Physical Review E*, **2011**, 83, 037201	2.4	3
60	Characterizing electrostatic turbulence in tokamak plasmas with high MHD activity. *Journal of Physics: Conference Series*, **2010**, 246, 012014	0.3	3
59	Low-dimensional chaos and wave turbulence in plasmas. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2008**, 366, 609-20	3	3
58	Basins of attraction of nonlinear wave–wave interactions. *Chaos, Solitons and Fractals*, **2007**, 32, 711-724	9.3	3
57	Effects of the resonant modes on the magnetic footprint patterns in a tokamak wall. *Physics of Plasmas*, **2006**, 13, 052511	2.1	3
56	Conversion of local transient chaos into global laminar states in coupled map lattices with long-range interactions. *Physica A: Statistical Mechanics and Its Applications*, **2006**, 367, 158-172	3.3	3
55	Unstable dimension variability and codimension-one bifurcations of two-dimensional maps. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2004**, 321, 244-251	2.3	3
54	Short-term memories in lattices of inductively coupled AC-driven circuits. *Physica A: Statistical Mechanics and Its Applications*, **2002**, 303, 410-420	3.3	3
53	Detailed derivation of axisymmetric double adiabatic MHD equilibria with general plasma flow. *Brazilian Journal of Physics*, **1999**, 29, 457-468	1.2	3
52	Spiral wave chimera states in regular and fractal neuronal networks. *Journal of Physics Complexity*, **2021**, 2, 015006	1.8	3
51	Chaotic maps with nonlocal coupling: Lyapunov exponents, synchronization of chaos, and characterization of chimeras. *Chaos, Solitons and Fractals*, **2020**, 131, 109501	9.3	3
50	Delayed feedback control of phase synchronisation in a neuronal network model. *European Physical Journal: Special Topics*, **2018**, 227, 1151-1160	2.3	3

49	Shaping Diverted Plasmas With Symplectic Maps. *IEEE Transactions on Plasma Science*, **2017**, 45, 356-363	1.3	2
48	Symplectic Maps for Diverted Plasmas. *IEEE Transactions on Plasma Science*, **2018**, 46, 2354-2361	1.3	2
47	Dragon-kings death in nonlinear wave interactions. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 534, 122296	3.3	2
46	Correlated Brownian motion and diffusion of defects in spatially extended chaotic systems. *Chaos*, **2019**, 29, 071104	3.3	2
45	On a cellular automaton with time delay for modelling cancer tumors. *Journal of Physics: Conference Series*, **2011**, 285, 012015	0.3	2
44	Intermittent Behavior and Synchronization of Two Coupled Noisy Driven Oscillators. *Mathematical Problems in Engineering*, **2009**, 2009, 1-13	1.1	2
43	Self-organization in the movement activity of social insects (Hymenoptera: Formicidae) **2012**,		2
42	MHD Equilibrium Equation with Azimuthal Rotation in a Curvilinear Coordinate System. *International Journal of Theoretical Physics*, **1998**, 37, 2657-2668	1.1	2
41	Turbulence Induced Transport in Tokamaks. *AIP Conference Proceedings*, **2006**,	0	2
40	Short-term memories with a stochastic perturbation. *Chaos, Solitons and Fractals*, **2005**, 23, 1689-1694	9.3	2
39	Simulating a chaotic process. *Brazilian Journal of Physics*, **2005**, 35, 139-147	1.2	2
38	Recurrence Analysis of Turbulent Fluctuations in Magnetically Confined Plasmas. *Springer Proceedings in Physics*, **2016**, 341-353	0.2	2
37	Ratchet current in nontwist Hamiltonian systems. *Chaos*, **2020**, 30, 093141	3.3	2
36	Coexistence of turbulence regimes in the Texas Helimak. *Physics of Plasmas*, **2021**, 28, 032301	2.1	2
35	Effects of burst-timing-dependent plasticity on synchronous behaviour in neuronal network. *Neurocomputing*, **2021**, 436, 126-135	5.4	2
34	Strong chaotification and robust chaos in the Duffing oscillator induced by two-frequency excitation. *Nonlinear Dynamics*, **2021**, 103, 1955-1967	5	2
33	Building phase synchronization equivalence between coupled bursting neurons and phase oscillators. *Journal of Physics Communications*, **2018**, 2, 025014	1.2	2
32	Transport of blood particles: Chaotic advection even in a healthy scenario. *Chaos*, **2020**, 30, 093135	3.3	1

31	Sincronização entre um oscilador de fase e um forçamento externo. *Revista Brasileira De Ensino De Fisica*, **2017**, 39,	0.4	1
30	Synchronization and suppression of chaos in non-locally coupled map lattices **2009**, 73, 999-1009		1
29	SYNCHRONIZATION OF CHAOS AND THE TRANSITION TO WAVE TURBULENCE. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2012**, 22, 1250234	2	1
28	Transversal dynamics of a non-locally-coupled map lattice. *Physical Review E*, **2007**, 76, 017202	2.4	1
27	Comment on a Hamiltonian representation for helically symmetric fields (plasma). *Plasma Physics and Controlled Fusion*, **1994**, 36, 587-588	2	1
26	ANALYTIC STOCHASTIC REGULARIZATION IN QCD AND ITS SUPERSYMMETRIC EXTENSION. *Modern Physics Letters A*, **1989**, 04, 491-499	1.3	1
25	Unpredictability in Hamiltonian systems with a hierarchical phase space. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2022**, 127991	2.3	1
24	Control attenuation and temporary immunity in a cellular automata SEIR epidemic model. *Chaos, Solitons and Fractals*, **2022**, 155, 111784	9.3	1
23	Reaction-Diffusion Equation with Stationary Wave Perturbation in Weakly Ionized Plasmas. *Brazilian Journal of Physics*, **2020**, 50, 780-787	1.2	1
22	Onset of internal transport barriers in tokamaks. *Physics of Plasmas*, **2021**, 28, 082305	2.1	1
21	Mathematical model of brain tumour growth with drug resistance. *Communications in Nonlinear Science and Numerical Simulation*, **2021**, 103, 106013	3.7	1
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