

Christophe Y Letellier

List of Publications by Year in descending order

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194
papers

4,099
citations

147566

31
h-index

161609

54
g-index

208
all docs

208
docs citations

208
times ranked

3078
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Two-Year Survival Comparing Web-Based Symptom Monitoring vs Routine Surveillance Following Treatment for Lung Cancer. <i>JAMA - Journal of the American Medical Association</i> , 2019, 321, 306. | 3.8 | 363 |
| 2 | Randomized Trial Comparing a Web-Mediated Follow-up With Routine Surveillance in Lung Cancer Patients. <i>Journal of the National Cancer Institute</i> , 2017, 109, . | 3.0 | 350 |
| 3 | Global vector-field reconstruction by using a multivariate polynomial L2 approximation on nets. <i>Physical Review E</i> , 1994, 49, 4955-4972. | 0.8 | 136 |
| 4 | Modeling Nonlinear Dynamics and Chaos: A Review. <i>Mathematical Problems in Engineering</i> , 2009, 2009, 1-35. | 0.6 | 98 |
| 5 | Relation between observability and differential embeddings for nonlinear dynamics. <i>Physical Review E</i> , 2005, 71, 066213. | 0.8 | 97 |
| 6 | Investigating nonlinear dynamics from time series: The influence of symmetries and the choice of observables. <i>Chaos</i> , 2002, 12, 549-558. | 1.0 | 91 |
| 7 | What can be learned from a chaotic cancer model?. <i>Journal of Theoretical Biology</i> , 2013, 322, 7-16. | 0.8 | 89 |
| 8 | On the non-equivalence of observables in phase-space reconstructions from recorded time series. <i>Journal of Physics A</i> , 1998, 31, 7913-7927. | 1.6 | 86 |
| 9 | Analysis of the dynamics of a realistic ecological model. <i>Chaos, Solitons and Fractals</i> , 2002, 13, 95-107. | 2.5 | 86 |
| 10 | Improving Survival in Patients Treated for a Lung Cancer Using Self-Evaluated Symptoms Reported Through a Web Application. <i>American Journal of Clinical Oncology: Cancer Clinical Trials</i> , 2017, 40, 464-469. | 0.6 | 77 |
| 11 | Van der Pol and the history of relaxation oscillations: Toward the emergence of a concept. <i>Chaos</i> , 2012, 22, 023120. | 1.0 | 70 |
| 12 | How tumor growth can be influenced by delayed interactions between cancer cells and the microenvironment?. <i>BioSystems</i> , 2017, 158, 17-30. | 0.9 | 66 |
| 13 | Detection of lung cancer relapse using self-reported symptoms transmitted via an Internet Web-application: pilot study of the sentinel follow-up. <i>Supportive Care in Cancer</i> , 2014, 22, 1467-1473. | 1.0 | 64 |
| 14 | Estimating the Shannon Entropy: Recurrence Plots versus Symbolic Dynamics. <i>Physical Review Letters</i> , 2006, 96, 254102. | 2.9 | 62 |
| 15 | Covering dynamical systems: ϵ -fold covers. <i>Physical Review E</i> , 2000, 63, 016206. | 0.8 | 61 |
| 16 | A nine-dimensional Lorenz system to study high-dimensional chaos. <i>Journal of Physics A</i> , 1998, 31, 7121-7139. | 1.6 | 55 |
| 17 | Evidence for low dimensional chaos in sunspot cycles. <i>Astronomy and Astrophysics</i> , 2006, 449, 379-387. | 2.1 | 50 |
| 18 | Observability of multivariate differential embeddings. <i>Journal of Physics A</i> , 2005, 38, 6311-6326. | 1.6 | 46 |

| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Global modeling of the Rössler system from the z-variable. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 314, 409-427. | 0.9 | 45 |
| 20 | Global models from the Canadian lynx cycles as a direct evidence for chaos in real ecosystems. <i>Journal of Mathematical Biology</i> , 2007, 55, 21-39. | 0.8 | 43 |
| 21 | Forecasting the Time Series of Sunspot Numbers. <i>Solar Physics</i> , 2008, 249, 103-120. | 1.0 | 43 |
| 22 | Detecting lung cancer relapse using self-evaluation forms weekly filled at home: the sentinel follow-up. <i>Supportive Care in Cancer</i> , 2014, 22, 79-85. | 1.0 | 40 |
| 23 | Characterization of the Lorenz system, taking into account the equivariance of the vector field. <i>Physical Review E</i> , 1994, 49, 3492-3495. | 0.8 | 37 |
| 24 | Structural, dynamical and symbolic observability: From dynamical systems to networks. <i>PLoS ONE</i> , 2018, 13, e0206180. | 1.1 | 37 |
| 25 | Failure in distinguishing colored noise from chaos using the "noise titration" technique. <i>Physical Review E</i> , 2009, 79, 035201. | 0.8 | 35 |
| 26 | Structure-selection techniques applied to continuous-time nonlinear models. <i>Physica D: Nonlinear Phenomena</i> , 2001, 158, 1-18. | 1.3 | 33 |
| 27 | Frequently asked questions about global modeling. <i>Chaos</i> , 2009, 19, 023103. | 1.0 | 33 |
| 28 | Interplay between synchronization, observability, and dynamics. <i>Physical Review E</i> , 2010, 82, 016204. | 0.8 | 33 |
| 29 | Recovering deterministic behavior from experimental time series in mixing reactor. <i>AIChE Journal</i> , 1997, 43, 2194-2202. | 1.8 | 32 |
| 30 | Should all the species of a food chain be counted to investigate the global dynamics?. <i>Chaos, Solitons and Fractals</i> , 2002, 13, 1099-1113. | 2.5 | 32 |
| 31 | Difference equations versus differential equations, a possible equivalence for the Rössler system?. <i>Physica D: Nonlinear Phenomena</i> , 2004, 195, 29-49. | 1.3 | 32 |
| 32 | How the choice of the observable may influence the analysis of nonlinear dynamical systems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2006, 11, 555-576. | 1.7 | 32 |
| 33 | Evolution of a multimodal map induced by an equivariant vector field. <i>Journal of Physics A</i> , 1996, 29, 5359-5373. | 1.6 | 31 |
| 34 | Global vector field reconstruction from a chaotic experimental signal in copper electrodisolution. <i>Physical Review E</i> , 1995, 51, 4262-4266. | 0.8 | 30 |
| 35 | Graphical interpretation of observability in terms of feedback circuits. <i>Physical Review E</i> , 2005, 72, 056202. | 0.8 | 30 |
| 36 | Recurrence plots and Shannon entropy for a dynamical analysis of asynchronisms in noninvasive mechanical ventilation. <i>Chaos</i> , 2007, 17, 013115. | 1.0 | 30 |

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Symbolic observability coefficients for univariate and multivariate analysis. <i>Physical Review E</i> , 2009, 79, 066210. | 0.8 | 30 |
| 38 | Investigating observability properties from data in nonlinear dynamics. <i>Physical Review E</i> , 2011, 83, 066209. | 0.8 | 30 |
| 39 | Symmetry groups for 3D dynamical systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 5597-5620. | 0.7 | 29 |
| 40 | Systematic template extraction from chaotic attractors: I. Genus-one attractors with an inversion symmetry. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 375101. | 0.7 | 29 |
| 41 | Finger tapping movements of Parkinson's disease patients automatically rated using nonlinear delay differential equations. <i>Chaos</i> , 2012, 22, 013119. | 1.0 | 28 |
| 42 | Ansatz library for global modeling with a structure selection. <i>Physical Review E</i> , 2001, 64, 016206. | 0.8 | 27 |
| 43 | A symbolic network-based nonlinear theory for dynamical systems observability. <i>Scientific Reports</i> , 2018, 8, 3785. | 1.6 | 27 |
| 44 | Distinguishing between folding and tearing mechanisms in strange attractors. <i>Physical Review E</i> , 2004, 70, 056214. | 0.8 | 26 |
| 45 | Inequivalent topologies of chaos in simple equations. <i>Chaos, Solitons and Fractals</i> , 2006, 28, 337-360. | 2.5 | 26 |
| 46 | Large-scale structural reorganization of strange attractors. <i>Physical Review E</i> , 2005, 72, 026212. | 0.8 | 25 |
| 47 | A chemotherapy combined with an anti-angiogenic drug applied to a cancer model including angiogenesis. <i>Chaos, Solitons and Fractals</i> , 2017, 99, 297-311. | 2.5 | 25 |
| 48 | Generalized optical theorem for on-axis Gaussian beams. <i>Optics Communications</i> , 1996, 125, 137-157. | 1.0 | 24 |
| 49 | Symbolic sequence statistical analysis for free liquid jets. <i>Physical Review E</i> , 2000, 62, 7973-7981. | 0.8 | 24 |
| 50 | Influence of the singular manifold of nonobservable states in reconstructing chaotic attractors. <i>Physical Review E</i> , 2012, 86, 026205. | 0.8 | 24 |
| 51 | Nonlinear graph-based theory for dynamical network observability. <i>Physical Review E</i> , 2018, 98, 020303. | 0.8 | 24 |
| 52 | Asynchrony and cyclic variability in pressure support noninvasive ventilation. <i>Computers in Biology and Medicine</i> , 2007, 37, 1308-1320. | 3.9 | 23 |
| 53 | Semi-physical mean-value NOx model for diesel engine control. <i>Control Engineering Practice</i> , 2015, 40, 27-44. | 3.2 | 23 |
| 54 | Overall survival in patients with lung cancer using a web-application-guided follow-up compared to standard modalities: Results of phase III randomized trial.. <i>Journal of Clinical Oncology</i> , 2016, 34, LBA9006-LBA9006. | 0.8 | 23 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Algebraic evaluation of linking numbers of unstable periodic orbits in chaotic attractors. <i>Physical Review E</i> , 1994, 49, 4693-4695. | 0.8 | 22 |
| 56 | Constraining the topology of neural networks to ensure dynamics with symmetry properties. <i>Physical Review E</i> , 2004, 69, 026701. | 0.8 | 22 |
| 57 | Required criteria for recognizing new types of chaos: Application to the "œcord" attractor. <i>Physical Review E</i> , 2012, 85, 036204. | 0.8 | 22 |
| 58 | Analyzing Chaotic Behavior in a Belousov-Zhabotinsky Reaction by Using a Global Vector Field Reconstruction. <i>Journal of Physical Chemistry A</i> , 1998, 102, 10265-10273. | 1.1 | 21 |
| 59 | Observability coefficients for predicting the class of synchronizability from the algebraic structure of the local oscillators. <i>Physical Review E</i> , 2016, 94, 042205. | 0.8 | 21 |
| 60 | Symbolic computations of nonlinear observability. <i>Physical Review E</i> , 2015, 91, 062912. | 0.8 | 20 |
| 61 | A Noninvasive Method to Identify Ineffective Triggering in Patients with Noninvasive Pressure Support Ventilation. <i>Respiration</i> , 2010, 80, 198-206. | 1.2 | 19 |
| 62 | Dynamical analysis of fractional-order Rössler and modified Lorenz systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 1707-1719. | 0.9 | 19 |
| 63 | Realistic human muscle pressure for driving a mechanical lung. <i>EPJ Nonlinear Biomedical Physics</i> , 2014, 2, . | 0.8 | 19 |
| 64 | A cancer model for the angiogenic switch. <i>Journal of Theoretical Biology</i> , 2014, 360, 21-33. | 0.8 | 19 |
| 65 | Systematic template extraction from chaotic attractors: II. Genus-one attractors with multiple unimodal folding mechanisms. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 235101. | 0.7 | 19 |
| 66 | Randomized trial comparing a web-mediated follow-up via patient-reported outcomes (PRO) vs. routine surveillance in lung cancer patients: Final results.. <i>Journal of Clinical Oncology</i> , 2018, 36, 6500-6500. | 0.8 | 19 |
| 67 | Use of the Nonlinear Dynamical System Theory to Study Cycle-to-Cycle Variations from Spark Ignition Engine Pressure Data. , 1997, , . | | 18 |
| 68 | Piecewise affine models of chaotic attractors: The Rössler and Lorenz systems. <i>Chaos</i> , 2006, 16, 013115. | 1.0 | 18 |
| 69 | Observability and synchronization of neuron models. <i>Chaos</i> , 2017, 27, 103103. | 1.0 | 18 |
| 70 | ANALYSIS OF A NONSYNCHRONIZED SINUSOIDALLY DRIVEN DYNAMICAL SYSTEM. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2000, 10, 1759-1772. | 0.7 | 17 |
| 71 | Intermittency and period-doubling cascade on tori in a bimode laser model. <i>Chaos, Solitons and Fractals</i> , 2007, 33, 782-794. | 2.5 | 17 |
| 72 | Identifying chaos from heart rate: The right task?. <i>Chaos</i> , 2009, 19, 028505. | 1.0 | 17 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Connecting curves for dynamical systems. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 255101. | 0.7 | 17 |
| 74 | Two chaotic global models for cereal crops cycles observed from satellite in northern Morocco. Chaos, 2014, 24, 023130. | 1.0 | 16 |
| 75 | Optimal flatness placement of sensors and actuators for controlling chaotic systems. Chaos, 2021, 31, 103114. | 1.0 | 16 |
| 76 | Insights into the algebraic structure of Lorenz-like systems using feedback circuit analysis and piecewise affine models. Chaos, 2007, 17, 023104. | 1.0 | 15 |
| 77 | Dynamical analysis of an intermittency in an open cavity flow. Physics of Fluids, 2008, 20, 114101. | 1.6 | 15 |
| 78 | From quasiperiodicity to toroidal chaos: Analogy between the Curry-Yorke map and the van der Pol system. Physical Review E, 2008, 77, 046203. | 0.8 | 15 |
| 79 | Poincaré sections for a new three-dimensional toroidal attractor. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 015101. | 0.7 | 15 |
| 80 | TOPOLOGICAL ANALYSIS OF CHAOTIC SOLUTION OF A THREE-ELEMENT MEMRISTIVE CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 3819-3827. | 0.7 | 14 |
| 81 | State of the Art and Analysis of Control Oriented NOx Models. , 2012, , . | | 14 |
| 82 | Topological characterization of a system with high-order symmetries. Physical Review E, 1995, 52, 4754-4761. | 0.8 | 13 |
| 83 | Displacement in the parameter space versus spurious solution of discretization with large time step. Journal of Physics A, 2004, 37, 1203-1218. | 1.6 | 13 |
| 84 | Scalar modeling and analysis of a 3D biochemical reaction model. Journal of Theoretical Biology, 2004, 228, 421-430. | 0.8 | 13 |
| 85 | Observability of nonlinear dynamics: Normalized results and a time-series approach. Chaos, 2008, 18, 013123. | 1.0 | 13 |
| 86 | Global vector field reconstruction including a control parameter dependence. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 211, 211-216. | 0.9 | 12 |
| 87 | Computer evaluation of Homfly polynomials by using Gauss codes, with a skein-template algorithm. Applied Mathematics and Computation, 1999, 105, 271-289. | 1.4 | 12 |
| 88 | Comparison of tests for embeddings. Physical Review E, 2008, 78, 026203. | 0.8 | 12 |
| 89 | A Semi-Physical NOx Model for Diesel Engine Control. , 0, , . | | 12 |
| 90 | Global modeling of aggregated and associated chaotic dynamics. Chaos, Solitons and Fractals, 2016, 83, 82-96. | 2.5 | 12 |

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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91 | Some elements for a history of the dynamical systems theory. <i>Chaos</i> , 2021, 31, 053110. | 1.0 | 12 |
| 92 | Unimodal order in the image of the simplest equivariant chaotic system. <i>Physical Review E</i> , 2001, 64, 067202. | 0.8 | 11 |
| 93 | Robust discretizations versus increase of the time step for the Lorenz system. <i>Chaos</i> , 2005, 15, 013110. | 1.0 | 11 |
| 94 | Structure selection for global vector field reconstruction by using the identification of fixed points. <i>Physical Review E</i> , 1999, 60, 1600-1606. | 0.8 | 10 |
| 95 | Complex intermittent dynamics in large-aspect-ratio homogeneously broadened single-mode lasers. <i>Physica D: Nonlinear Phenomena</i> , 2005, 203, 185-197. | 1.3 | 10 |
| 96 | Toward a General Procedure for Extracting Templates from Chaotic Attractors Bounded by High Genus Torus. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2014, 24, 1450045. | 0.7 | 10 |
| 97 | Controllability and synchronizability: Are they related?. <i>Chaos, Solitons and Fractals</i> , 2016, 83, 242-251. | 2.5 | 10 |
| 98 | Multichannel intermittencies induced by symmetries. <i>Physical Review E</i> , 2002, 66, 036220. | 0.8 | 9 |
| 99 | Analytical results and feedback circuit analysis for simple chaotic flows. <i>Journal of Physics A</i> , 2003, 36, 11229-11245. | 1.6 | 9 |
| 100 | Symbolic sequence analysis using approximated partition. <i>Chaos, Solitons and Fractals</i> , 2008, 36, 32-41. | 2.5 | 9 |
| 101 | INFLUENCES ON OTTO E. RÖSSLER'S EARLIEST PAPER ON CHAOS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2010, 20, 3585-3616. | 0.7 | 9 |
| 102 | Automatic sleep staging from ventilator signals in non-invasive ventilation. <i>Computers in Biology and Medicine</i> , 2013, 43, 833-839. | 3.9 | 9 |
| 103 | Dressed symbolic dynamics. <i>Physical Review E</i> , 2003, 67, 036205. | 0.8 | 8 |
| 104 | Recurrence plots for dynamical analysis of non-invasive mechanical ventilation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 621-634. | 1.6 | 8 |
| 105 | Intermittency as a transition to turbulence in pipes: A long tradition from Reynolds to the 21st century. <i>Comptes Rendus - Mecanique</i> , 2017, 345, 642-659. | 2.1 | 8 |
| 106 | Topological invariants in period-doubling cascades. <i>Journal of Physics A</i> , 2000, 33, 1809-1825. | 1.6 | 7 |
| 107 | INDUCED ONE-PARAMETER BIFURCATIONS IN IDENTIFIED NONLINEAR DYNAMICAL MODELS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2002, 12, 135-145. | 0.7 | 7 |
| 108 | NONSTANDARD DISCRETIZATION SCHEMES APPLIED TO THE CONSERVATIVE HÄNON-HEILES SYSTEM. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007, 17, 891-902. | 0.7 | 7 |

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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 109 | When are projections also embeddings?. <i>Physical Review E</i> , 2007, 75, 046201. | 0.8 | 7 |
| 110 | DEVELOPMENT OF THE NONLINEAR DYNAMICAL SYSTEMS THEORY FROM RADIO ENGINEERING TO ELECTRONICS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2009, 19, 2131-2163. | 0.7 | 7 |
| 111 | Working conditions for safe detection of nonlinearity and noise titration. <i>Physical Review E</i> , 2011, 83, 046225. | 0.8 | 7 |
| 112 | The universal template is a subtemplate of the double-scroll template. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 065102. | 0.7 | 7 |
| 113 | Topological characterization versus synchronization for assessing (or not) dynamical equivalence. <i>Chaos</i> , 2018, 28, 045107. | 1.0 | 7 |
| 114 | Assessing observability of chaotic systems using Delay Differential Analysis. <i>Chaos</i> , 2020, 30, 103113. | 1.0 | 7 |
| 115 | Dynamical Taxonomy: Some Taxonomic Ranks to Systematically Classify Every Chaotic Attractor. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2022, 32, . | 0.7 | 7 |
| 116 | Modeling maps by using rational functions. <i>Physical Review E</i> , 2000, 62, 6325-6331. | 0.8 | 6 |
| 117 | Topological analysis of chaos in a three-variable biochemical model. <i>Acta Biotheoretica</i> , 2002, 50, 1-13. | 0.7 | 6 |
| 118 | Analogy between a 10D model for nonlinear wave-wave interaction in a plasma and the 3D Lorenz dynamics. <i>Physica D: Nonlinear Phenomena</i> , 2003, 179, 33-52. | 1.3 | 6 |
| 119 | Modding Out a Continuous Rotation Symmetry for Disentangling a Laser Dynamics. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2003, 13, 1573-1577. | 0.7 | 6 |
| 120 | Global topology from an embedding. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 13291-13297. | 0.7 | 6 |
| 121 | DYNAMICS UNDERLYING PATIENT-VENTILATOR INTERACTIONS DURING NOCTURNAL NONINVASIVE VENTILATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012, 22, 1250030. | 0.7 | 6 |
| 122 | Henri Poincaré and the principle of relativity. <i>Contemporary Physics</i> , 2012, 53, 397-415. | 0.8 | 6 |
| 123 | Topological analysis for designing a suspension of the Hénon map. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 3069-3074. | 0.9 | 6 |
| 124 | Architecture of chaotic attractors for flows in the absence of any singular point. <i>Chaos</i> , 2016, 26, 063115. | 1.0 | 6 |
| 125 | Application and Benefits of Web-Mediated Symptom Reporting for Patients Undergoing Immunotherapy: A Clinical Example. <i>Case Reports in Oncology</i> , 2018, 11, 763-768. | 0.3 | 6 |
| 126 | Observability of laminar bidimensional fluid flows seen as autonomous chaotic systems. <i>Chaos</i> , 2019, 29, 123126. | 1.0 | 6 |

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|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 127 | Topological characterization of toroidal chaos: A branched manifold for the Deng toroidal attractor. <i>Chaos</i> , 2021, 31, 013129. | 1.0 | 6 |
| 128 | Chaos topology. <i>Scholarpedia Journal</i> , 2008, 3, 4592. | 0.3 | 6 |
| 129 | Dynamical analysis and map modeling of a thermionic diode plasma experiment. <i>Physica D: Nonlinear Phenomena</i> , 2001, 156, 169-178. | 1.3 | 5 |
| 130 | Flow curvature manifolds for shaping chaotic attractors: I. Rössler-like systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 285101. | 0.7 | 5 |
| 131 | Synchronizability of nonidentical weakly dissipative systems. <i>Chaos</i> , 2017, 27, 103118. | 1.0 | 5 |
| 132 | Using global modeling to unveil hidden couplings in small network motifs. <i>Chaos</i> , 2018, 28, 123110. | 1.0 | 5 |
| 133 | Equivariance identification using delay differential equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 265, 264-273. | 0.9 | 4 |
| 134 | Peeling bifurcations of toroidal chaotic attractors. <i>Physical Review E</i> , 2007, 76, 066204. | 0.8 | 4 |
| 135 | Stabilization of space-time laser instability through the finite transverse extension of pumping. <i>Journal of Optics</i> , 2008, 10, 095101. | 1.5 | 4 |
| 136 | Spatial avascular growth of tumor in a homogeneous environment. <i>Journal of Theoretical Biology</i> , 2017, 416, 99-112. | 0.8 | 4 |
| 137 | How the growth rate of host cells affects cancer risk in a deterministic way. <i>Chaos</i> , 2017, 27, 093101. | 1.0 | 4 |
| 138 | Chaos: From theory to applications for the 80th birthday of Otto E. Rössler. <i>Chaos</i> , 2021, 31, 060402. | 1.0 | 4 |
| 139 | Diffeomorphical equivalence vs topological equivalence among Sprott systems. <i>Chaos</i> , 2021, 31, 083126. | 1.0 | 4 |
| 140 | Branched manifolds for the three types of unimodal maps. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 101, 105869. | 1.7 | 4 |
| 141 | Direct Injection Diesel Engine Cylinder Pressure Modelling via NARMA Identification Technique. , 2005, , . | | 3 |
| 142 | The use of synthetic input sequences in time series modeling. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 5276-5282. | 0.9 | 3 |
| 143 | Discovering independent parameters in complex dynamical systems. <i>Chaos, Solitons and Fractals</i> , 2015, 76, 182-189. | 2.5 | 3 |
| 144 | Performances of domiciliary ventilators compared by using a parametric procedure. <i>EPJ Nonlinear Biomedical Physics</i> , 2016, 4, . | 0.8 | 3 |

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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 145 | Reconstruction-based interval observer dedicated to fault detection: Application to a throttle valve. <i>International Journal of Adaptive Control and Signal Processing</i> , 2016, 30, 317-335. | 2.3 | 3 |
| 146 | Dynamical complexity measure to distinguish organized from disorganized dynamics. <i>Physical Review E</i> , 2020, 101, 022204. | 0.8 | 3 |
| 147 | Patient-Ventilator Synchronization During Non-invasive Ventilation: A Pilot Study of an Automated Analysis System. <i>Frontiers in Medical Technology</i> , 2021, 3, 690442. | 1.3 | 3 |
| 148 | Dynamical analysis of a helium glow discharge. I A model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 323, 267-277. | 0.9 | 2 |
| 149 | Global models for patient-ventilator interactions in noninvasive ventilation with asynchronies. <i>Computers in Biology and Medicine</i> , 2011, 41, 253-264. | 3.9 | 2 |
| 150 | Defects in spatiotemporal diagrams and their relations to phase coherence and lack of observability. <i>Physical Review E</i> , 2011, 83, 056212. | 0.8 | 2 |
| 151 | Nonstationarity signatures in the dynamics of global nonlinear models. <i>Chaos</i> , 2012, 22, 033136. | 1.0 | 2 |
| 152 | Leakage Estimation Using Kalman Filtering in Noninvasive Mechanical Ventilation. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 1234-1240. | 2.5 | 2 |
| 153 | Individuality of breathing patterns in patients under noninvasive mechanical ventilation evidenced by chaotic global models. <i>Chaos</i> , 2013, 23, 013137. | 1.0 | 2 |
| 154 | Universalities in the chaotic generalized Moore & Spiegel equations. <i>Chaos, Solitons and Fractals</i> , 2014, 69, 40-49. | 2.5 | 2 |
| 155 | Observability of Dynamical Networks from Graphic and Symbolic Approaches. <i>Springer Proceedings in Complexity</i> , 2019, , 3-15. | 0.2 | 2 |
| 156 | Parameter identification of a model for prostate cancer treated by intermittent therapy. <i>Journal of Theoretical Biology</i> , 2019, 461, 117-132. | 0.8 | 2 |
| 157 | Node differentiation dynamics along the route to synchronization in complex networks. <i>Physical Review E</i> , 2021, 104, 014303. | 0.8 | 2 |
| 158 | State space parsimonious reconstruction of attractor produced by an electronic oscillator. <i>AIP Conference Proceedings</i> , 2000, , . | 0.3 | 1 |
| 159 | Phase intermittency in jet atomization processes. <i>AIP Conference Proceedings</i> , 2000, , . | 0.3 | 1 |
| 160 | Objective evaluation of patient-ventilator interactions during noninvasive ventilation (NIV). <i>European Respiratory Review</i> , 2008, 17, 22-23. | 3.0 | 1 |
| 161 | Ventilatory Profiles under Pressure Support Ventilation (PSV): A Cycle-to-Cycle Distribution Analysis during Sleep.. , 2009, , . | | 1 |
| 162 | Relation between synchronization of a ring of coupled Rössler systems and observability. <i>MATEC Web of Conferences</i> , 2012, 1, 07001. | 0.1 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 163 | Introduction to topological analysis. World Scientific Series on Nonlinear Science, Series A, 2013, , 1-19. | 0.0 | 1 |
| 164 | Chaos hierarchy " A review, thirty years later. World Scientific Series on Nonlinear Science, Series A, 2013, , 99-124. | 0.0 | 1 |
| 165 | CHAOS IN ELECTRONIC CIRCUITS: CHUA'S CONTRIBUTION (1980-2000). , 2013, , 211-235. | | 1 |
| 166 | An easy-to-use technique to characterize cardiodynamics from first-return maps on \hat{I} RR-intervals. Chaos, 2015, 25, 083111. | 1.0 | 1 |
| 167 | Is high cancer rate in human due to a weakness in biology resulting from the rapid increase in lifetime expectancy?. Bulletin Du Cancer, 2016, 103, 224-226. | 0.6 | 1 |
| 168 | ROBUST DISCRETIZATIONS VERSUS INCREASE OF THE TIME STEP FOR CHAOTIC SYSTEMS. , 2005, , 459-511. | | 1 |
| 169 | Chaos and Turbulence. Understanding Complex Systems, 2020, , 127-143. | 0.3 | 1 |
| 170 | Chaos in Toroidal Systems. Understanding Complex Systems, 2020, , 67-89. | 0.3 | 1 |
| 171 | Dynamical analysis by using oriented crossing locations. AIP Conference Proceedings, 2000, , . | 0.3 | 0 |
| 172 | Quasi-periodic behaviour in a model for the lithium-induced, electrical oscillations of frog skin. Comptes Rendus - Biologies, 2002, 325, 917-925. | 0.1 | 0 |
| 173 | An Equivariant 3D model for the long-term behavior of the solar activity. AIP Conference Proceedings, 2003, , . | 0.3 | 0 |
| 174 | Intermittencies on tori: A way to characterize them. Chaos, Solitons and Fractals, 2009, 39, 479-485. | 2.5 | 0 |
| 175 | Cross-covariance Analysis Of Asynchronies And Leakage During Sleep Under Noninvasive Ventilation (NIV). , 2010, , . | | 0 |
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| 177 | A Standardized Procedure To Compare Triggering Performances Of Domiciliary Ventilators. , 2012, , . | | 0 |
| 178 | Polysomnographic Changes During Initiation Of Domiciliary Noninvasive Ventilation In Patients With Chronic Respiratory Failure. , 2012, , . | | 0 |
| 179 | FROM RADIO-AMATEURS' ELECTRONICS TO TOROIDAL CHAOS. , 2013, , 83-88. | | 0 |
| 180 | The symmetry of chaos. World Scientific Series on Nonlinear Science, Series A, 2013, , 227-248. | 0.0 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 181 | Controllability and stabilizability analysis of a positive chaotic system. , 2014, , . | | 0 |
| 182 | A genesis of special relativity. International Journal of Modern Physics D, 2015, 24, 1530024. | 0.9 | 0 |
| 183 | A dynamical model for heart remodeling during the two phases of pulmonary arterial hypertension. EPJ Nonlinear Biomedical Physics, 2016, 4, . | 0.8 | 0 |
| 184 | A Primer for Deterministic Thermodynamics and Cryodynamics. , 2018, , 391-413. | | 0 |
| 185 | Assessing synchronizability provided by coupling variable from the algebraic structure of dynamical systems. Physical Review E, 2020, 101, 042215. | 0.8 | 0 |
| 186 | Abstract 3760: Modeling spatial tumor growth as seen in clinical and radiological observations. , 2015, , . | | 0 |
| 187 | LATE-BREAKING ABSTRACT: A parametric procedure to compare domiciliary ventilator performances. , 2015, , . | | 0 |
| 188 | R sultats du premier essai randomis  de phase III  valuant la survie de patients atteints de cancer du poumon via un suivi m di  par une web-application compar  au suivi standard. Bulletin De L'Academie Nationale De Medecine, 2016, 200, 1575-1588. | 0.0 | 0 |
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