

Hinke Maria Osinga

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

2,673
citations

230014

27
h-index

223390

49
g-index

88
all docs

88
docs citations

88
times ranked

1348
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Determining the global manifold structure of a continuous-time heterodimensional cycle. <i>Journal of Computational Dynamics</i> , 2022, 9, 393. | 0.4 | 3 |
| 2 | Preface: Special issue on continuation methods and applications. <i>Journal of Computational Dynamics</i> , 2022, 9, i. | 0.4 | 0 |
| 3 | Spatiotemporal stability of periodic travelling waves in a heteroclinic-cycle model. <i>Nonlinearity</i> , 2021, 34, 5576-5598. | 0.6 | 2 |
| 4 | A Surface of Heteroclinic Connections Between Two Saddle Slow Manifolds in the Olsen Model. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2020, 30, 2030048. | 0.7 | 3 |
| 5 | Generalized Mandelbrot and Julia Sets in a Family of Planar Angle-Doubling Maps. <i>Springer Proceedings in Mathematics and Statistics</i> , 2020, , 21-54. | 0.1 | 0 |
| 6 | A Continuation Approach to Computing Phase Resetting Curves. <i>Studies in Systems, Decision and Control</i> , 2020, , 3-30. | 0.8 | 2 |
| 7 | Computing the Stable Manifold of a Saddle Slow Manifold. <i>SIAM Journal on Applied Dynamical Systems</i> , 2018, 17, 350-379. | 0.7 | 12 |
| 8 | Understanding the geometry of dynamics: the stable manifold of the Lorenz system. <i>Journal of the Royal Society of New Zealand</i> , 2018, 48, 203-214. | 1.0 | 6 |
| 9 | Cascades of Global Bifurcations and Chaos near a Homoclinic Flip Bifurcation: A Case Study. <i>SIAM Journal on Applied Dynamical Systems</i> , 2018, 17, 2784-2829. | 0.7 | 10 |
| 10 | Tangencies Between Global Invariant Manifolds and Slow Manifolds Near a Singular Hopf Bifurcation. <i>SIAM Journal on Applied Dynamical Systems</i> , 2018, 17, 1395-1431. | 0.7 | 12 |
| 11 | Saddle Slow Manifolds and Canard Orbits in \mathbb{R}^4 and Application to the Full Hodgkin-Huxley Model. <i>Journal of Mathematical Neuroscience</i> , 2018, 8, 5. | 2.4 | 12 |
| 12 | Existence of blenders in a Hénon-like family: geometric insights from invariant manifold computations. <i>Nonlinearity</i> , 2018, 31, R239-R267. | 0.6 | 11 |
| 13 | Saddle Invariant Objects and Their Global Manifolds in a Neighborhood of a Homoclinic Flip Bifurcation of Case B. <i>SIAM Journal on Applied Dynamical Systems</i> , 2017, 16, 640-686. | 0.7 | 11 |
| 14 | Parameter-dependent behaviour of periodic channels in a locus of boundary crisis. <i>European Physical Journal: Special Topics</i> , 2017, 226, 1739-1750. | 1.2 | 2 |
| 15 | Mixed-Mode Oscillations and Twin Canard Orbits in an Autocatalytic Chemical Reaction. <i>SIAM Journal on Applied Dynamical Systems</i> , 2017, 16, 2165-2195. | 0.7 | 18 |
| 16 | Finding First Foliation Tangencies in the Lorenz System. <i>SIAM Journal on Applied Dynamical Systems</i> , 2017, 16, 2127-2164. | 0.7 | 13 |
| 17 | Transient spike adding in the presence of equilibria. <i>European Physical Journal: Special Topics</i> , 2016, 225, 2601-2612. | 1.2 | 3 |
| 18 | Global isochrons of a planar system near a phaseless set with saddle equilibria. <i>European Physical Journal: Special Topics</i> , 2016, 225, 2645-2654. | 1.2 | 4 |

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|----|---|-----|-----------|
| 19 | A Codimension-Four Singularity with Potential for Action. Springer Proceedings in Mathematics and Statistics, 2016, , 253-268. | 0.1 | 3 |
| 20 | Adaptive Topographies and Equilibrium Selection in an Evolutionary Game. PLoS ONE, 2015, 10, e0116307. | 1.1 | 0 |
| 21 | \pm -flips and T-points in the Lorenz system. Nonlinearity, 2015, 28, R39-R65. | 0.6 | 15 |
| 22 | Invariant manifolds and global bifurcations. Chaos, 2015, 25, 097604. | 1.0 | 20 |
| 23 | Interactions of the Julia Set with Critical and (Un)Stable Sets in an Angle-Doubling Map on $\hat{\mathbb{S}}^0$. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1530013. | 0.7 | 5 |
| 24 | From wild Lorenz-like to wild Rovella-like dynamics. Dynamical Systems, 2015, 30, 525-542. | 0.2 | 5 |
| 25 | Global organization of phase space in the transition to chaos in the Lorenz system. Nonlinearity, 2015, 28, R113-R139. | 0.6 | 23 |
| 26 | Forward-Time and Backward-Time Isochrons and Their Interactions. SIAM Journal on Applied Dynamical Systems, 2015, 14, 1418-1453. | 0.7 | 9 |
| 27 | Bifurcation analysis of a smoothed model of a forced impacting beam and comparison with an experiment. Nonlinear Dynamics, 2014, 77, 951-966. | 2.7 | 19 |
| 28 | Global invariant manifolds near a Shilnikov homoclinic bifurcation. Journal of Computational Dynamics, 2014, 1, 1-38. | 0.4 | 16 |
| 29 | Chaos and Wild Chaos in Lorenz-Type Systems. Springer Proceedings in Mathematics and Statistics, 2014, , 75-98. | 0.1 | 5 |
| 30 | Solving Winfree's puzzle: The isochrons in the FitzHugh-Nagumo model. Chaos, 2014, 24, 013131. | 1.0 | 17 |
| 31 | Global Invariant Manifolds Near Homoclinic Orbits to a Real Saddle: (Non)Orientability and Flip Bifurcation. SIAM Journal on Applied Dynamical Systems, 2013, 12, 1803-1846. | 0.7 | 23 |
| 32 | Interacting Global Invariant Sets in a Planar Map Model of Wild Chaos. SIAM Journal on Applied Dynamical Systems, 2013, 12, 1280-1329. | 0.7 | 12 |
| 33 | Continuation-Based Numerical Detection of After-Depolarization and Spike-Adding Thresholds. Neural Computation, 2013, 25, 877-900. | 1.3 | 4 |
| 34 | Geometric analysis of transient bursts. Chaos, 2013, 23, 046107. | 1.0 | 11 |
| 35 | The singular limit of a Hopf bifurcation. Discrete and Continuous Dynamical Systems, 2012, 32, 2805-2823. | 0.5 | 7 |
| 36 | Mixed-Mode Oscillations with Multiple Time Scales. SIAM Review, 2012, 54, 211-288. | 4.2 | 431 |

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|----|---|-----|-----------|
| 37 | Dynamical systems analysis of spike-adding mechanisms in transient bursts. <i>Journal of Mathematical Neuroscience</i> , 2012, 2, 7. | 2.4 | 28 |
| 38 | Cross-currents between biology and mathematics: The codimension of pseudo-plateau bursting. <i>Discrete and Continuous Dynamical Systems</i> , 2012, 32, 2853-2877. | 0.5 | 37 |
| 39 | A unified model of CA1/3 pyramidal cells: An investigation into excitability. <i>Progress in Biophysics and Molecular Biology</i> , 2011, 105, 34-48. | 1.4 | 34 |
| 40 | Global invariant manifolds in the transition to preturbulence in the Lorenz system. <i>Indagationes Mathematicae</i> , 2011, 22, 222-240. | 0.2 | 26 |
| 41 | Investigating the consequences of global bifurcations for two-dimensional invariant manifolds of vector fields. <i>Discrete and Continuous Dynamical Systems</i> , 2011, 29, 1309-1344. | 0.5 | 21 |
| 42 | Modeling Mechanisms of Cell Secretion. <i>Acta Biotheoretica</i> , 2010, 58, 315-327. | 0.7 | 13 |
| 43 | Full system bifurcation analysis of endocrine bursting models. <i>Journal of Theoretical Biology</i> , 2010, 264, 1133-1146. | 0.8 | 84 |
| 44 | The role of large-conductance Calcium-activated (BK) channels in shaping bursting oscillations of a somatotroph cell model. <i>Physica D: Nonlinear Phenomena</i> , 2010, 239, 485-493. | 1.3 | 21 |
| 45 | Understanding anomalous delays in a model of intracellular calcium dynamics. <i>Chaos</i> , 2010, 20, 045104. | 1.0 | 29 |
| 46 | Numerical continuation of canard orbits in slow-fast dynamical systems. <i>Nonlinearity</i> , 2010, 23, 739-765. | 0.6 | 53 |
| 47 | Continuation-based Computation of Global Isochrons. <i>SIAM Journal on Applied Dynamical Systems</i> , 2010, 9, 1201-1228. | 0.7 | 49 |
| 48 | Codimension-one tangency bifurcations of global Poincaré maps of four-dimensional vector fields. <i>Nonlinearity</i> , 2009, 22, 1091-1121. | 0.6 | 2 |
| 49 | Arnol's Tongues Arising from a Grazing-Sliding Bifurcation. <i>SIAM Journal on Applied Dynamical Systems</i> , 2009, 8, 1434-1461. | 0.7 | 38 |
| 50 | Interview with Herbert Bishop Keller. , 2009, , 45-52. | | 0 |
| 51 | Visualizing global manifolds during the transition to chaos in the Lorenz system. <i>Mathematics and Visualization</i> , 2009, , 115-126. | 0.4 | 3 |
| 52 | The geometry of mixed-mode oscillations in the Olsen model for the Peroxidase-Oxidase reaction. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2009, 2, 807-827. | 0.6 | 18 |
| 53 | Efficient computation of quasiperiodic oscillations in nonlinear systems with fast rotating parts. <i>Nonlinear Dynamics</i> , 2008, 51, 529-539. | 2.7 | 9 |
| 54 | Resetting Behavior in a Model of Bursting in Secretory Pituitary Cells: Distinguishing Plateaus from Pseudo-Plateaus. <i>Bulletin of Mathematical Biology</i> , 2008, 70, 68-88. | 0.9 | 43 |

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|----|---|-----|-----------|
| 55 | Mixed-mode oscillations and slow manifolds in the self-coupled FitzHugh-Nagumo system. <i>Chaos</i> , 2008, 18, 015107. | 1.0 | 81 |
| 56 | The Geometry of Slow Manifolds near a Folded Node. <i>SIAM Journal on Applied Dynamical Systems</i> , 2008, 7, 1131-1162. | 0.7 | 62 |
| 57 | Tangency Bifurcations of Global Poincaré Maps. <i>SIAM Journal on Applied Dynamical Systems</i> , 2008, 7, 712-754. | 0.7 | 24 |
| 58 | Visualizing curvature on the Lorenz manifold. <i>Journal of Mathematics and the Arts</i> , 2007, 1, 113-123. | 0.1 | 4 |
| 59 | Unfolding the Cusp-Cusp Bifurcation of Planar Endomorphisms. <i>SIAM Journal on Applied Dynamical Systems</i> , 2007, 6, 403-440. | 0.7 | 7 |
| 60 | COMPUTING TWO-DIMENSIONAL GLOBAL INVARIANT MANIFOLDS IN SLOW-FAST SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007, 17, 805-822. | 0.7 | 21 |
| 61 | Computing Invariant Manifolds via the Continuation of Orbit Segments. <i>Understanding Complex Systems</i> , 2007, , 117-154. | 0.3 | 34 |
| 62 | Boundary crisis bifurcation in two parameters. <i>Journal of Difference Equations and Applications</i> , 2006, 12, 997-1008. | 0.7 | 12 |
| 63 | The Geometry of the Solution Set of Nonlinear Optimal Control Problems. <i>Journal of Dynamics and Differential Equations</i> , 2006, 18, 881-900. | 1.0 | 15 |
| 64 | Fourier methods for quasi-periodic oscillations. <i>International Journal for Numerical Methods in Engineering</i> , 2006, 67, 629-671. | 1.5 | 66 |
| 65 | Global bifurcations of the Lorenz manifold. <i>Nonlinearity</i> , 2006, 19, 2947-2972. | 0.6 | 64 |
| 66 | Locus of boundary crisis: Expect infinitely many gaps. <i>Physical Review E</i> , 2006, 74, 035201. | 0.8 | 12 |
| 67 | NUMERICAL STUDY OF MANIFOLD COMPUTATIONS. , 2005, , . | | 0 |
| 68 | Two-dimensional invariant manifolds in four-dimensional dynamical systems. <i>Computers and Graphics</i> , 2005, 29, 289-297. | 1.4 | 10 |
| 69 | BIFURCATIONS OF STABLE SETS IN NONINVERTIBLE PLANAR MAPS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005, 15, 891-904. | 0.7 | 17 |
| 70 | Continuation of Quasi-periodic Invariant Tori. <i>SIAM Journal on Applied Dynamical Systems</i> , 2005, 4, 459-488. | 0.7 | 98 |
| 71 | Computing One-Dimensional Global Manifolds of Poincaré Maps by Continuation. <i>SIAM Journal on Applied Dynamical Systems</i> , 2005, 4, 1008-1041. | 0.7 | 34 |
| 72 | A SURVEY OF METHODS FOR COMPUTING (UN)STABLE MANIFOLDS OF VECTOR FIELDS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005, 15, 763-791. | 0.7 | 212 |

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|----|--|-----|-----------|
| 73 | The Lorenz manifold as a collection of geodesic level sets. <i>Nonlinearity</i> , 2004, 17, C1-C6. | 0.6 | 16 |
| 74 | A set oriented approach to global optimal control. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2004, 10, 259-270. | 0.7 | 67 |
| 75 | Crocheting the Lorenz Manifold. <i>Mathematical Intelligencer</i> , 2004, 26, 25-37. | 0.1 | 30 |
| 76 | Computing One-Dimensional Stable Manifolds and Stable Sets of Planar Maps without the Inverse. <i>SIAM Journal on Applied Dynamical Systems</i> , 2004, 3, 161-190. | 0.7 | 79 |
| 77 | Computing Geodesic Level Sets on Global (Un)stable Manifolds of Vector Fields. <i>SIAM Journal on Applied Dynamical Systems</i> , 2003, 2, 546-569. | 0.7 | 61 |
| 78 | NONORIENTABLE MANIFOLDS IN THREE-DIMENSIONAL VECTOR FIELDS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2003, 13, 553-570. | 0.7 | 19 |
| 79 | Visualizing the structure of chaos in the Lorenz system. <i>Computers and Graphics</i> , 2002, 26, 815-823. | 1.4 | 33 |
| 80 | MULTISTABILITY AND NONSMOOTH BIFURCATIONS IN THE QUASIPERIODICALLY FORCED CIRCLE MAP. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2001, 11, 3085-3105. | 0.7 | 33 |
| 81 | Boundary crisis in quasiperiodically forced systems. <i>Physica D: Nonlinear Phenomena</i> , 2000, 141, 54-64. | 1.3 | 41 |
| 82 | Investigating Torus Bifurcations in the Forced Van Der Pol Oscillator. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2000, , 199-208. | 0.5 | 21 |
| 83 | Two-dimensional global manifolds of vector fields. <i>Chaos</i> , 1999, 9, 768-774. | 1.0 | 85 |
| 84 | Growing 1D and Quasi-2D Unstable Manifolds of Maps. <i>Journal of Computational Physics</i> , 1998, 146, 404-419. | 1.9 | 108 |
| 85 | Globalizing Two-Dimensional Unstable Manifolds of Maps. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1998, 08, 483-503. | 0.7 | 48 |
| 86 | Numerical continuation of spiral waves in heteroclinic networks of cyclic dominance. <i>IMA Journal of Applied Mathematics</i> , 0, , . | 0.8 | 1 |
| 87 | Matching geometric and expansion characteristics of wild chaotic attractors. <i>European Physical Journal: Special Topics</i> , 0, , 1. | 1.2 | 1 |