

# Chenggui Yao

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

606  
citations

687363

13  
h-index

642732

23  
g-index

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38  
docs citations

38  
times ranked

410  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Temperature-optimized propagation of synchronous firing rate in a feed-forward multilayer neuronal network. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 596, 127139.           | 2.6 | 3         |
| 2  | Stability of multiple attractors in the unidirectionally coupled circular networks of limit cycle oscillators. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022, 111, 106456. | 3.3 | 2         |
| 3  | Stability of amplitude death in conjugate-coupled nonlinear oscillator networks. <i>Applied Mathematics Letters</i> , 2022, 131, 108052.  | 2.7 | 5         |
| 4  | Transmission of pacemaker signal in a small world neuronal networks: temperature effects. <i>Nonlinear Dynamics</i> , 2021, 106, 2547-2557.   | 5.2 | 13        |
| 5  | Anormal diffusion enhancement of resonant responses for coupled oscillator networks to weak signals. <i>Chaos</i> , 2020, 30, 083120.   | 2.5 | 7         |
| 6  | The effect of oxygen concentration on the coupled neurons: Rich spiking patterns and synchronization. <i>Science China Technological Sciences</i> , 2020, 63, 2339-2348.                                | 4.0 | 16        |
| 7  | Synchronization and multistability in the coupled neurons with propagation and processing delays. <i>Nonlinear Dynamics</i> , 2020, 101, 2401-2411.   | 5.2 | 11        |
| 8  | Oscillation behavior driven by processing delay in diffusively coupled inactive systems: Cluster synchronization and multistability. <i>Chaos</i> , 2020, 30, 123137.                                   | 2.5 | 3         |
| 9  | A Chimera Oscillatory State in a Globally Delay-Coupled Oscillator Network. <i>Complexity</i> , 2020, 2020, 1-11.   | 1.6 | 3         |
| 10 | Enhanced vibrational resonance in a single neuron with chemical autapse for signal detection*. <i>Chinese Physics B</i> , 2020, 29, 128702.   | 1.4 | 9         |
| 11 | The optimal oscillation mode in excitable small-world networks. <i>Europhysics Letters</i> , 2020, 131, 38002.  | 2.0 | 6         |
| 12 | Winfree loop sustained oscillation in two-dimensional excitable lattices: Prediction and realization. <i>Chaos</i> , 2019, 29, 073106.  | 2.5 | 10        |
| 13 | Inhibitory-autapse-enhanced signal transmission in neural networks. <i>Nonlinear Dynamics</i> , 2019, 97, 1425-1437.  | 5.2 | 48        |
| 14 | Perturbation analysis and comparison of network synchronization methods. <i>Physical Review E</i> , 2019, 99, 052207.   | 2.1 | 5         |
| 15 | Transmission and detection of biharmonic envelope signal in a feed-forward multilayer neural network. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 523, 797-806.                | 2.6 | 19        |
| 16 | Synchronization performance in time-delayed random networks induced by diversity in system parameter. <i>Chinese Physics B</i> , 2018, 27, 108902.  | 1.4 | 6         |
| 17 | Spiking patterns of a neuron model to stimulus: Rich dynamics and oxygen's role. <i>Chaos</i> , 2018, 28, 083112.   | 2.5 | 9         |
| 18 | Resonance in an ensemble of excitable reaction-diffusion systems under spatially periodic force. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 467, 184-191.                     | 2.6 | 10        |

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|----|---|-----|-----------|
| 19 | Constructing backbone network by using tinker algorithm. <i>Frontiers of Physics</i> , 2017, 12, 1.   | 5.0 | 3         |
| 20 | Spontaneous Oscillations and Synchronization of Active Droplets on a Water Surface via Marangoni Convection. <i>Langmuir</i> , 2017, 33, 12362-12368.                               | 3.5 | 14        |
| 21 | Spatiotemporal dynamics in excitable homogeneous random networks composed of periodically self-sustained oscillation. <i>Scientific Reports</i> , 2017, 7, 11885.                   | 3.3 | 17        |
| 22 | Insensitivity of synchronization to network structure in chaotic pendulum systems with time-delay coupling. <i>Chaos</i> , 2017, 27, 126702.  | 2.5 | 11        |
| 23 | Effect of Dynamic Interaction between microRNA and Transcription Factor on Gene Expression. <i>BioMed Research International</i> , 2016, 2016, 1-10.                                | 1.9 | 21        |
| 24 | The effect of process delay on dynamical behaviors in a self-feedback nonlinear oscillator. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 39, 99-107. | 3.3 | 16        |
| 25 | The infinite-scroll attractor and energy transition in chaotic circuit. <i>Nonlinear Dynamics</i> , 2016, 84, 2305-2315.  | 5.2 | 53        |
| 26 | Eliminating amplitude death by the asymmetry coupling and process delay in coupled oscillators. <i>European Physical Journal B</i> , 2016, 89, 1.                                   | 1.5 | 4         |
| 27 | An Algorithm for Finding the Singleton Attractors and Pre-Images in Strong-Inhibition Boolean Networks. <i>PLoS ONE</i> , 2016, 11, e0166906.                                       | 2.5 | 5         |
| 28 | Resonance induced by a spatially periodic force in the reaction-diffusion system. <i>Physical Review E</i> , 2015, 91, 052901.  | 2.1 | 11        |
| 29 | Enhanced multiple vibrational resonances by Na <sup>+</sup> and K <sup>+</sup> dynamics in a neuron model. <i>Scientific Reports</i> , 2015, 5, 7684.                               | 3.3 | 22        |
| 30 | Collective dynamics induced by diversity taken from two-point distribution in globally coupled chaotic oscillators. <i>Nonlinear Dynamics</i> , 2014, 75, 17-26.                    | 5.2 | 6         |
| 31 | Complete synchronization induced by disorder in coupled chaotic lattices. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 370-377.          | 2.1 | 42        |
| 32 | Time delay induced different synchronization patterns in repulsively coupled chaotic oscillators. <i>Chaos</i> , 2013, 23, 033140.  | 2.5 | 7         |
| 33 | The study of amplitude death in globally delay-coupled nonidentical systems based on order parameter expansion. <i>Chaos</i> , 2012, 22, 023149.                                    | 2.5 | 7         |
| 34 | Spatiotemporal stochastic resonance in a bistable FitzHugh-Nagumo ring with phase-repulsive coupling. <i>European Physical Journal B</i> , 2011, 84, 299-305.                       | 1.5 | 9         |
| 35 | Frequency-resonance-enhanced vibrational resonance in bistable systems. <i>Physical Review E</i> , 2011, 83, 061122.  | 2.1 | 37        |
| 36 | Simple electronic circuit model for diversity-induced resonance. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 2446-2451.                 | 2.1 | 9         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Signal transmission by vibrational resonance in one-way coupled bistable systems. Physical Review E, 2010, 81, 061129. | 2.1 | 83        |
| 38 | Eliminating delay-induced oscillation death by gradient coupling. Physical Review E, 2010, 82, 056203.                 | 2.1 | 44        |