

# Qin-Sheng Bi

## List of Publications by Citations

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121  
papers

1,309  
citations

20  
h-index

28  
g-index

131  
ext. papers

1,707  
ext. citations

3.2  
avg, IF

5.3  
L-index

#	Paper	IF	Citations
121	Bursting oscillations in Duffing's equation with slowly changing external forcing. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2011</b> , 16, 4146-4152	3.7	62
120	Fast-slow analysis for parametrically and externally excited systems with two slow rationally related excitation frequencies. <i>Physical Review E</i> , <b>2015</b> , 92, 012911	2.4	50
119	Low-velocity impact response of geometrically nonlinear functionally graded graphene platelet-reinforced nanocomposite plates. <i>Nonlinear Dynamics</i> , <b>2019</b> , 95, 2333-2352	5	47
118	Dynamical analysis of two coupled parametrically excited van der Pol oscillators. <i>International Journal of Non-Linear Mechanics</i> , <b>2004</b> , 39, 33-54	2.8	41
117	The mechanism of bursting oscillations with different codimensional bifurcations and nonlinear structures. <i>Nonlinear Dynamics</i> , <b>2016</b> , 85, 993-1005	5	38
116	Bifurcation mechanism of the bursting oscillations in periodically excited dynamical system with two time scales. <i>Nonlinear Dynamics</i> , <b>2015</b> , 79, 101-110	5	37
115	Bursting phenomena as well as the bifurcation mechanism in controlled Lorenz oscillator with two time scales. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2011</b> , 375, 1183-1190	2.3	35
114	Symmetric bursting of focus-focus type in the controlled Lorenz system with two time scales. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2009</b> , 373, 3643-3649	2.3	32
113	Two novel bursting patterns in the Duffing system with multiple-frequency slow parametric excitations. <i>Chaos</i> , <b>2018</b> , 28, 043111	3.3	31
112	Symbolic computation of normal forms for semi-simple cases. <i>Journal of Computational and Applied Mathematics</i> , <b>1999</b> , 102, 195-220	2.4	29
111	Influence of Geometric Shapes on the Hydrodynamic Lubrication of a Partially Textured Slider With Micro-Grooves. <i>Journal of Tribology</i> , <b>2014</b> , 136,	1.8	28
110	Delayed Bifurcations to Repetitive Spiking and Classification of Delay-Induced Bursting. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2014</b> , 24, 1450098	2	27
109	Nonlinear behaviors as well as the bifurcation mechanism in switched dynamical systems. <i>Nonlinear Dynamics</i> , <b>2015</b> , 79, 465-471	5	27
108	Study of mixed-mode oscillations in a parametrically excited van der Pol system. <i>Nonlinear Dynamics</i> , <b>2014</b> , 77, 1285-1296	5	26
107	Hopf-bifurcation-delay-induced bursting patterns in a modified circuit system. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2016</b> , 36, 517-527	3.7	25
106	Turnover of hysteresis determines novel bursting in Duffing system with multiple-frequency external forcings. <i>International Journal of Non-Linear Mechanics</i> , <b>2017</b> , 89, 69-74	2.8	24
105	Routes to bursting in a periodically driven oscillator. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2013</b> , 377, 975-980	2.3	23

104	Route to bursting via pulse-shaped explosion. <i>Physical Review E</i> , <b>2018</b> , 98, 010201	2.4	22
103	Non-smooth bifurcations on the bursting oscillations in a dynamic system with two timescales. <i>Nonlinear Dynamics</i> , <b>2015</b> , 79, 195-203	5	22
102	The mechanism of bursting phenomena in Belousov-Zhabotinsky (BZ) chemical reaction with multiple time scales. <i>Science China Technological Sciences</i> , <b>2010</b> , 53, 748-760	3.5	22
101	Bursting behavior in a non-smooth electric circuit. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2010</b> , 374, 1434-1439	2.3	20
100	Slow passage through canard explosion and mixed-mode oscillations in the forced Van der Pol equation. <i>Nonlinear Dynamics</i> , <b>2012</b> , 68, 275-283	5	19
99	Improving energy harvesting by internal resonance in a spring-pendulum system. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2020</b> , 36, 618-623	2	18
98	Bursting mechanism in a time-delayed oscillator with slowly varying external forcing. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2014</b> , 19, 1175-1184	3.7	18
97	Bifurcation mechanism of bursting oscillations in parametrically excited dynamical system. <i>Applied Mathematics and Computation</i> , <b>2014</b> , 243, 482-491	2.7	18
96	Bifurcations of traveling wave solutions from KdV equation to Camassa-Holm equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2005</b> , 344, 361-368	2.3	18
95	Double Hopf Bifurcations and Chaos of a Nonlinear Vibration System. <i>Nonlinear Dynamics</i> , <b>1999</b> , 19, 313-332	3.3	18
94	Obtaining amplitude-modulated bursting by multiple-frequency slow parametric modulation. <i>Physical Review E</i> , <b>2018</b> , 97, 012202	2.4	17
93	Nonlinear behaviors as well as the mechanism in a piecewise-linear dynamical system with two time scales. <i>Nonlinear Dynamics</i> , <b>2016</b> , 85, 2233-2245	5	17
92	Bifurcation analysis on delay-induced bursting in a shape memory alloy oscillator with time delay feedback. <i>Applied Mathematical Modelling</i> , <b>2016</b> , 40, 1816-1824	4.5	16
91	Frequency-truncation fast-slow analysis for parametrically and externally excited systems with two slow incommensurate excitation frequencies. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2019</b> , 72, 16-25	3.7	16
90	Bifurcations and fast-slow behaviors in a hyperchaotic dynamical system. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2011</b> , 16, 1998-2005	3.7	15
89	Bursting oscillations with delayed C-bifurcations in a modified Chua circuit. <i>Nonlinear Dynamics</i> , <b>2020</b> , 100, 2899-2915	5	14
88	Bursting vibration-based energy harvesting. <i>Nonlinear Dynamics</i> , <b>2020</b> , 100, 3043-3060	5	14
87	DYNAMICS AND MODULATED CHAOS FOR TWO COUPLED OSCILLATORS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2004</b> , 14, 337-346	2	14

86	Bursting Oscillations and the Mechanism with Sliding Bifurcations in a Filippov Dynamical System. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2018</b> , 28, 1850146	2	14
85	Generation of hysteresis cycles with two and four jumps in a shape memory oscillator. <i>Nonlinear Dynamics</i> , <b>2013</b> , 72, 407-415	5	12
84	Complex bursting patterns in Van der Pol system with two slowly changing external forcings. <i>Science China Technological Sciences</i> , <b>2012</b> , 55, 702-708	3.5	12
83	Single-Hopf Bursting in Periodic Perturbed Belousov-Zhabotinsky Reaction with Two Time Scales. <i>Chinese Physics Letters</i> , <b>2013</b> , 30, 010503	1.8	12
82	Smooth and non-smooth traveling wave solutions of the Fornberg-Whitham equation with linear dispersion term. <i>Applied Mathematics and Computation</i> , <b>2010</b> , 216, 2155-2162	2.7	12
81	Bifurcations of traveling wave solutions for two coupled variant Boussinesq equations in shallow water waves. <i>Chaos, Solitons and Fractals</i> , <b>2005</b> , 24, 631-643	9.3	12
80	Different wave solutions associated with singular lines on phase plane. <i>Nonlinear Dynamics</i> , <b>2012</b> , 69, 1705-1731	5	11
79	Bifurcations and chaos of coupled electrical circuits. <i>Nonlinear Analysis: Real World Applications</i> , <b>2008</b> , 9, 1158-1168	2.1	11
78	Broadband energy harvesting based on one-to-one internal resonance. <i>Chinese Physics B</i> , <b>2020</b> , 29, 100503	3	11
77	Complex bursting dynamics of a Mathieu-van der Pol-Duffing energy harvester. <i>Physica Scripta</i> , <b>2021</b> , 96, 015213	2.6	10
76	Multiple-S-Shaped Critical Manifold and Jump Phenomena in Low Frequency Forced Vibration with Amplitude Modulation. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2019</b> , 29, 1930012	2	9
75	Bifurcations and some new traveling wave solutions for the CH-equation. <i>Applied Mathematics and Computation</i> , <b>2014</b> , 228, 220-233	2.7	9
74	Relaxation oscillations induced by an order gap between exciting frequency and natural frequency. <i>Science China Technological Sciences</i> , <b>2017</b> , 60, 289-298	3.5	9
73	Singular solitary waves associated with homoclinic orbits. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2006</b> , 352, 227-232	2.3	9
72	Bifurcations of traveling wave solutions in a compound KdV-type equation. <i>Chaos, Solitons and Fractals</i> , <b>2005</b> , 23, 1185-1194	9.3	9
71	Bursting oscillations induced by bistable pulse-shaped explosion in a nonlinear oscillator with multiple-frequency slow excitations. <i>Nonlinear Dynamics</i> , <b>2020</b> , 99, 1301-1312	5	9
70	Fast-Slow Dynamics and Bifurcation Mechanism in a Novel Chaotic System. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2019</b> , 29, 1930028	2	8
69	Double Jump Broadband Energy Harvesting in a Helmholtz-Duffing Oscillator. <i>Journal of Vibration Engineering and Technologies</i> , <b>2020</b> , 8, 893-908	2	8

68	Global adaptive matrix-projective synchronization of delayed fractional-order competitive neural network with different time scales. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 12813-12826	4.8	8
67	On two-parameter bifurcation analysis of switched system composed of Duffing and van der Pol oscillators. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2014</b> , 19, 750-757	3.7	8
66	Cusp Bursting and Slow-Fast Analysis with Two Slow Parameters in Photosensitive Belousov-Zhabotinsky Reaction. <i>Chinese Physics Letters</i> , <b>2013</b> , 30, 070503	1.8	8
65	Inverse period-doubling bifurcations determine complex structure of bursting in a one-dimensional non-autonomous map. <i>Chaos</i> , <b>2016</b> , 26, 023117	3.3	8
64	Modified function projective bursting synchronization for fast-slow systems with uncertainties and external disturbances. <i>Nonlinear Dynamics</i> , <b>2015</b> , 79, 2359-2369	5	7
63	Mixed mode oscillations as well as the bifurcation mechanism in a Duffing oscillator with two external periodic excitations. <i>Science China Technological Sciences</i> , <b>2019</b> , 62, 1816-1824	3.5	7
62	Relaxation Oscillations in a Nonsmooth Oscillator with Slow-Varying External Excitation. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2019</b> , 29, 1930019	2	7
61	Dynamical behaviors of the periodic parameter-switching system. <i>Nonlinear Dynamics</i> , <b>2013</b> , 73, 29-37	5	7
60	Peaked singular wave solutions associated with singular curves. <i>Chaos, Solitons and Fractals</i> , <b>2007</b> , 31, 417-423	9.3	7
59	Chaos crisis in coupled Duffing's systems with initial phase difference. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2007</b> , 369, 418-431	2.3	7
58	On Constructing the Unique Solution for the Necking in a Hyper-Elastic Rod. <i>Journal of Elasticity</i> , <b>2006</b> , 82, 215-241	1.5	7
57	Relaxation oscillations and the mechanism in a periodically excited vector field with pitchfork-Hopf bifurcation. <i>Nonlinear Dynamics</i> , <b>2020</b> , 101, 37-51	5	7
56	Wave patterns associated with a singular line for a bi-Hamiltonian system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2007</b> , 369, 407-417	2.3	6
55	Bifurcations of a Generalized Camassa-Holm Equation. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , <b>2005</b> , 6,	1.8	6
54	Mixed-mode oscillations and the bifurcation mechanism for a Filippov-type dynamical system <b>2020</b> , 94, 1		6
53	Complex Bursting Patterns in a van der Pol-Mathieu-Duffing Oscillator. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2021</b> , 31, 2150082	2	6
52	Bursting phenomena as well as the bifurcation mechanism in a coupled BVP oscillator with periodic excitation. <i>Chinese Physics B</i> , <b>2016</b> , 25, 070501	1.2	6
51	On occurrence of bursting oscillations in a dynamical system with a double Hopf bifurcation and slow-varying parametric excitations. <i>International Journal of Non-Linear Mechanics</i> , <b>2021</b> , 128, 103629	2.8	6

50	Bursting oscillations as well as the bifurcation mechanism in a non-smooth chaotic geomagnetic field model. <i>Chinese Physics B</i> , <b>2018</b> , 27, 110501	1.2	6
49	Non-smooth bursting analysis of a Filippov-type system with multiple-frequency excitations <b>2018</b> , 91, 1		6
48	Boundary-Crisis-Induced Complex Bursting Patterns in a Forced Cubic Map. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2017</b> , 27, 1750051	2	5
47	On symmetry-breaking bifurcation in the periodic parameter-switching Lorenz oscillator. <i>Science China Technological Sciences</i> , <b>2013</b> , 56, 2310-2316	3.5	5
46	On two-parameter bifurcation analysis of the periodic parameter-switching Lorenz oscillator. <i>Nonlinear Dynamics</i> , <b>2015</b> , 81, 577-583	5	4
45	Bursting oscillations with boundary homoclinic bifurcations in a Filippov-type Chua's circuit <b>2020</b> , 94,		4
44	Forced vibration of shape memory alloy spring oscillator and the mechanism of sliding bifurcation with dry friction. <i>Advances in Mechanical Engineering</i> , <b>2019</b> , 11, 168781401985197	1.2	4
43	Dynamical behavior analysis and bifurcation mechanism of a new 3-D nonlinear periodic switching system. <i>Nonlinear Dynamics</i> , <b>2013</b> , 73, 1873-1881	5	4
42	Forced bursting and transition mechanism in CO oxidation with three time scales. <i>Chinese Physics B</i> , <b>2013</b> , 22, 040504	1.2	4
41	Bounded wave solutions of a generalized BBM equation with positive exponents. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2007</b> , 360, 574-581	2.3	4
40	Exploiting Bursting Oscillations to Improve Energy Capture from Slowly Changing Excitation. <i>Journal of Vibration Engineering and Technologies</i> , 1	2	4
39	Multiple-mode wave solutions to display superpositions and collisions in nonlinear evolution equations. <i>Physical Review E</i> , <b>2008</b> , 77, 036607	2.4	3
38	Controlling Hidden Dynamics and Multistability of a Class of Two-Dimensional Maps via Linear Augmentation. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2021</b> , 31, 2150047	2	3
37	Dynamics and performance evaluation of a self-tuning multistable shape memory energy harvester. <i>European Physical Journal Plus</i> , <b>2021</b> , 136, 1	3.1	3
36	Compound bursting behaviors in a forced Mathieu-van der Pol-Duffing system. <i>Chaos, Solitons and Fractals</i> , <b>2021</b> , 147, 110967	9.3	3
35	Bursting analysis of multi-stable nonlinear mechanical oscillator and its application in energy harvesting. <i>European Physical Journal: Special Topics</i> , 1	2.3	3
34	Two bursting patterns induced by system solutions approaching infinity in a modified Rayleigh-Duffing oscillator <b>2020</b> , 94, 1		2
33	Probabilistic solutions of a variable-mass system under random excitations. <i>Acta Mechanica</i> , <b>2020</b> , 231, 2815-2826	2.1	2

32	Solitary waves for a nonlinear dispersive long wave equation. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2008</b> , 24, 455-462	2	2
31	Phase synchronization between nonlinearly coupled Rössler systems. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2008</b> , 29, 697-704	3.2	2
30	Multiple-mode wave solutions in Vakhnenko equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2008</b> , 372, 3243-3252	2.3	2
29	SlowFast Behaviors and Their Mechanism in a Periodically Excited Dynamical System with Double Hopf Bifurcations. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2021</b> , 31, 2130022	2	2
28	Modified slow-fast analysis method for slow-fast dynamical systems with two scales in frequency domain. <i>Theoretical and Applied Mechanics Letters</i> , <b>2019</b> , 9, 358-362	1.8	2
27	Approximation to Hadamard Derivative via the Finite Part Integral. <i>Entropy</i> , <b>2018</b> , 20,	2.8	2
26	Compound Bursting Behaviors in the Parametrically Amplified MathieuDuffing Nonlinear System. <i>Journal of Vibration Engineering and Technologies</i> ,1	2	2
25	Exploiting internal resonance to improve flow energy harvesting from vortex-induced vibrations. <i>Journal of Intelligent Material Systems and Structures</i> ,1045389X2110235	2.3	2
24	Quasi-Matrix and Quasi-Inverse-Matrix Projective Synchronization for Delayed and Disturbed Fractional Order Neural Network. <i>Complexity</i> , <b>2019</b> , 2019, 1-15	1.6	1
23	Periodic switching oscillation and mechanism in a periodically switched BZ reaction. <i>Science China Technological Sciences</i> , <b>2012</b> , 55, 2820-2828	3.5	1
22	Bursting Energy Harvesting of Shape Memory Oscillator. <i>Journal of Vibration Engineering and Technologies</i> ,1	2	1
21	A novel bursting oscillation and its transitions in a modified BonhoefferVan der Pol oscillator with weak periodic excitation. <i>European Physical Journal Plus</i> , <b>2021</b> , 136, 1	3.1	1
20	Qualitative analysis in a delayed Van der Pol oscillator. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2020</b> , 544, 123482	3.3	1
19	Bursting Oscillations as well as the Mechanism in a Filippov System with Parametric and External Excitations. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2020</b> , 30, 2050168	2	1
18	A new route to pulse-shaped explosion and its induced bursting dynamics. <i>Nonlinear Dynamics</i> , <b>2021</b> , 104, 4493-4503	5	1
17	Computation of the normal form as well as the unfolding of the vector field with zero-zero-Hopf bifurcation at the origin. <i>Mathematics and Computers in Simulation</i> , <b>2021</b> , 190, 377-397	3.3	1
16	Complex Periodic Bursting Structures in the RayleighVan der PolDuffing Oscillator. <i>Journal of Nonlinear Science</i> , <b>2022</b> , 32, 1	2.8	1
15	On occurrence of sudden increase of spiking amplitude via fold limit cycle bifurcation in a modified Van der PolDuffing system with slow-varying periodic excitation. <i>Nonlinear Dynamics</i> ,1	5	1

14	Exploiting self-tuning tristable to improve energy capture from shape memory oscillator. <i>Journal of Energy Storage</i> , <b>2022</b> , 51, 104469	7.8	1
13	On occurrence of bursting oscillations in a dynamical system with a double Hopf bifurcation. <i>Physica Scripta</i> , <b>2021</b> , 96, 015203	2.6	0
12	Bursting oscillations in a slow-varying periodically excited vector field with Bogdanov-Takens bifurcation. <i>JVC/Journal of Vibration and Control</i> ,107754632199358	2	0
11	Bursting behaviors as well as the mechanism of controlled coupled oscillators in a system with double Hopf bifurcations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2021</b> , 410, 127542	2.3	0
10	Hidden attractors in a class of two-dimensional rational memristive maps with no fixed points. <i>European Physical Journal: Special Topics</i> ,1	2.3	0
9	Bursting patterns with complex structures in a parametrically and externally excited Jerk circuit system. <i>European Physical Journal: Special Topics</i> ,1	2.3	0
8	Novel bursting patterns induced by hysteresis loops in a one-degree-of-freedom nonlinear oscillator with parametric and external excitations. <i>European Physical Journal: Special Topics</i> ,1	2.3	0
7	Exploiting multiple-frequency bursting of a shape memory oscillator. <i>Chaos, Solitons and Fractals</i> , <b>2022</b> , 158, 112000	9.3	0
6	Bursting oscillations with adding-sliding structures in a Filippov-type Chua's circuit. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2022</b> , 110, 106368	3.7	0
5	Probabilistic solution of nonlinear ship rolling in random beam seas <b>2020</b> , 94, 1		
4	Dynamical analysis of a compound oscillator with initial phase difference. <i>Nonlinear Analysis: Real World Applications</i> , <b>2008</b> , 9, 1261-1268	2.1	
3	Investigation of inner flow and near-field spray patterns of the non-circular diesel injector. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>2022</b> , 47, 1	1	
2	Oblique penetration mechanism of hybrid composite laminates. <i>Science and Engineering of Composite Materials</i> , <b>2021</b> , 28, 568-578	1.5	
1	Numerical analysis of a degenerate generalized Hopf bifurcation. <i>International Journal of Modern Physics C</i> , <b>2021</b> , 32, 2150105	1.1	