

Qin-Sheng Bi

List of Publications by Year in descending order

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129
papers

2,020
citations

236612

25
h-index

344852

36
g-index

132
all docs

132
docs citations

132
times ranked

617
citing authors

#	ARTICLE	IF	CITATIONS
1	Bursting oscillations in Duffing's equation with slowly changing external forcing. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 4146-4152.	1.7	90
2	Low-velocity impact response of geometrically nonlinear functionally graded graphene platelet-reinforced nanocomposite plates. Nonlinear Dynamics, 2019, 95, 2333-2352.	2.7	84
3	Fast-slow analysis for parametrically and externally excited systems with two slow rationally related excitation frequencies. Physical Review E, 2015, 92, 012911.	0.8	82
4	The mechanism of bursting oscillations with different codimensional bifurcations and nonlinear structures. Nonlinear Dynamics, 2016, 85, 993-1005.	2.7	60
5	Bifurcation mechanism of the bursting oscillations in periodically excited dynamical system with two time scales. Nonlinear Dynamics, 2015, 79, 101-110.	2.7	51
6	Dynamical analysis of two coupled parametrically excited van der Pol oscillators. International Journal of Non-Linear Mechanics, 2004, 39, 33-54.	1.4	49
7	Bursting phenomena as well as the bifurcation mechanism in controlled Lorenz oscillator with two time scales. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1183-1190.	0.9	41
8	Route to bursting via pulse-shaped explosion. Physical Review E, 2018, 98, 010201.	0.8	41
9	Two novel bursting patterns in the Duffing system with multiple-frequency slow parametric excitations. Chaos, 2018, 28, 043111.	1.0	39
10	Symbolic computation of normal forms for semi-simple cases. Journal of Computational and Applied Mathematics, 1999, 102, 195-220.	1.1	36
11	Study of mixed-mode oscillations in a parametrically excited van der Pol system. Nonlinear Dynamics, 2014, 77, 1285-1296.	2.7	36
12	Turnover of hysteresis determines novel bursting in Duffing system with multiple-frequency external forcings. International Journal of Non-Linear Mechanics, 2017, 89, 69-74.	1.4	35
13	Routes to bursting in a periodically driven oscillator. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 975-980.	0.9	34
14	Influence of Geometric Shapes on the Hydrodynamic Lubrication of a Partially Textured Slider With Micro-Grooves. Journal of Tribology, 2014, 136, .	1.0	34
15	Hopf-bifurcation-delay-induced bursting patterns in a modified circuit system. Communications in Nonlinear Science and Numerical Simulation, 2016, 36, 517-527.	1.7	34
16	Symmetric bursting of focus-focus type in the controlled Lorenz system with two time scales. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 3643-3649.	0.9	33
17	Delayed Bifurcations to Repetitive Spiking and Classification of Delay-Induced Bursting. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450098.	0.7	33
18	Improving energy harvesting by internal resonance in a spring-pendulum system. Acta Mechanica Sinica/Lixue Xuebao, 2020, 36, 618-623.	1.5	33

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19	Nonlinear behaviors as well as the bifurcation mechanism in switched dynamical systems. <i>Nonlinear Dynamics</i> , 2015, 79, 465-471.	2.7	30
20	Bursting vibration-based energy harvesting. <i>Nonlinear Dynamics</i> , 2020, 100, 3043-3060.	2.7	30
21	Slow passage through canard explosion and mixed-mode oscillations in the forced Van der Pol's equation. <i>Nonlinear Dynamics</i> , 2012, 68, 275-283.	2.7	29
22	The mechanism of bursting phenomena in Belousov-Zhabotinsky (BZ) chemical reaction with multiple time scales. <i>Science China Technological Sciences</i> , 2010, 53, 748-760.	2.0	28
23	Bursting oscillations with delayed C-bifurcations in a modified Chua's circuit. <i>Nonlinear Dynamics</i> , 2020, 100, 2899-2915.	2.7	28
24	Non-smooth bifurcations on the bursting oscillations in a dynamic system with two timescales. <i>Nonlinear Dynamics</i> , 2015, 79, 195-203.	2.7	26
25	Obtaining amplitude-modulated bursting by multiple-frequency slow parametric modulation. <i>Physical Review E</i> , 2018, 97, 012202.	0.8	26
26	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> , 2019, 72, 16-25.	1.7	26
27	Complex bursting dynamics of a Mathieu-van der Pol-Duffing energy harvester. <i>Physica Scripta</i> , 2021, 96, 015213.	1.2	26
28	Nonlinear behaviors as well as the mechanism in a piecewise-linear dynamical system with two time scales. <i>Nonlinear Dynamics</i> , 2016, 85, 2233-2245.	2.7	25
29	Bifurcation mechanism of bursting oscillations in parametrically excited dynamical system. <i>Applied Mathematics and Computation</i> , 2014, 243, 482-491.	1.4	23
30	Bursting oscillations induced by bistable pulse-shaped explosion in a nonlinear oscillator with multiple-frequency slow excitations. <i>Nonlinear Dynamics</i> , 2020, 99, 1301-1312.	2.7	23
31	Bursting behavior in a non-smooth electric circuit. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 1434-1439.	0.9	22
32	Double Hopf Bifurcations and Chaos of a Nonlinear Vibration System. <i>Nonlinear Dynamics</i> , 1999, 19, 313-332.	2.7	21
33	Bursting mechanism in a time-delayed oscillator with slowly varying external forcing. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014, 19, 1175-1184.	1.7	21
34	Compound bursting behaviors in a forced Mathieu-van der Pol-Duffing system. <i>Chaos, Solitons and Fractals</i> , 2021, 147, 110967.	2.5	21
35	Bifurcations of traveling wave solutions from KdV equation to Camassa-Holm equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 344, 361-368.	0.9	19
36	Complex bursting patterns in Van der Pol system with two slowly changing external forcings. <i>Science China Technological Sciences</i> , 2012, 55, 702-708.	2.0	19

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37	Bifurcation analysis on delay-induced bursting in a shape memory alloy oscillator with time delay feedback. <i>Applied Mathematical Modelling</i> , 2016, 40, 1816-1824.	2.2	19
38	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> , 2018, 28, 1850146.	0.7	19
39	Global adaptive matrix-projective synchronization of delayed fractional-order competitive neural network with different time scales. <i>Neural Computing and Applications</i> , 2020, 32, 12813-12826.	3.2	19
40	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> , 2019, 29, 1930012.	0.7	18
41	Bifurcations and fast-slow behaviors in a hyperchaotic dynamical system. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011, 16, 1998-2005.	1.7	17
42	Broadband energy harvesting based on one-to-one internal resonance*. <i>Chinese Physics B</i> , 2020, 29, 100503.	0.7	17
43	DYNAMICS AND MODULATED CHAOS FOR TWO COUPLED OSCILLATORS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2004, 14, 337-346.	0.7	16
44	Fast-Slow Dynamics and Bifurcation Mechanism in a Novel Chaotic System. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2019, 29, 1930028.	0.7	16
45	Relaxation oscillations and the mechanism in a periodically excited vector field with pitchfork-Hopf bifurcation. <i>Nonlinear Dynamics</i> , 2020, 101, 37-51.	2.7	16
46	Complex Bursting Patterns in a van der Pol-Mathieu-Duffing Oscillator. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2021, 31, 2150082.	0.7	16
47	Generation of hysteresis cycles with two and four jumps in a shape memory oscillator. <i>Nonlinear Dynamics</i> , 2013, 72, 407-415.	2.7	15
48	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> , 2021, 128, 103629.	1.4	15
49	A new route to pulse-shaped explosion and its induced bursting dynamics. <i>Nonlinear Dynamics</i> , 2021, 104, 4493-4503.	2.7	15
50	Mixed mode oscillations as well as the bifurcation mechanism in a Duffing's oscillator with two external periodic excitations. <i>Science China Technological Sciences</i> , 2019, 62, 1816-1824.	2.0	14
51	Bifurcations of traveling wave solutions for two coupled variant Boussinesq equations in shallow water waves. <i>Chaos, Solitons and Fractals</i> , 2005, 24, 631-643.	2.5	13
52	Smooth and non-smooth traveling wave solutions of the Fornberg-Whitham equation with linear dispersion term. <i>Applied Mathematics and Computation</i> , 2010, 216, 2155-2162.	1.4	13
53	Single-Hopf Bursting in Periodic Perturbed Belousov-Zhabotinsky Reaction with Two Time Scales. <i>Chinese Physics Letters</i> , 2013, 30, 010503.	1.3	13
54	Bursting oscillations as well as the bifurcation mechanism in a non-smooth chaotic geomagnetic field model. <i>Chinese Physics B</i> , 2018, 27, 110501.	0.7	13

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55	Bursting oscillations with boundary homoclinic bifurcations in a Filippov-type Chua's circuit. <i>Pramana - Journal of Physics</i> , 2020, 94, .	0.9	13
56	Bifurcations and chaos of coupled electrical circuits. <i>Nonlinear Analysis: Real World Applications</i> , 2008, 9, 1158-1168.	0.9	12
57	Different wave solutions associated with singular lines on phase plane. <i>Nonlinear Dynamics</i> , 2012, 69, 1705-1731.	2.7	11
58	Bifurcations and some new traveling wave solutions for the CH- $\hat{\rho}^3$ equation. <i>Applied Mathematics and Computation</i> , 2014, 228, 220-233.	1.4	11
59	Inverse period-doubling bifurcations determine complex structure of bursting in a one-dimensional non-autonomous map. <i>Chaos</i> , 2016, 26, 023117.	1.0	11
60	Relaxation oscillations induced by an order gap between exciting frequency and natural frequency. <i>Science China Technological Sciences</i> , 2017, 60, 289-298.	2.0	11
61	Relaxation Oscillations in a Nonsmooth Oscillator with Slow-Varying External Excitation. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2019, 29, 1930019.	0.7	11
62	Complex Periodic Bursting Structures in the Rayleigh-van der Pol-Duffing Oscillator. <i>Journal of Nonlinear Science</i> , 2022, 32, 1.	1.0	11
63	Non-smooth bursting analysis of a Filippov-type system with multiple-frequency excitations. <i>Pramana - Journal of Physics</i> , 2018, 91, 1.	0.9	10
64	Double Jump Broadband Energy Harvesting in a Helmholtz-Duffing Oscillator. <i>Journal of Vibration Engineering and Technologies</i> , 2020, 8, 893-908.	1.3	10
65	Bifurcations of traveling wave solutions in a compound KdV-type equation. <i>Chaos, Solitons and Fractals</i> , 2005, 23, 1185-1194.	2.5	10
66	Bifurcations of traveling wave solutions in a compound KdV-type equation. <i>Chaos, Solitons and Fractals</i> , 2005, 23, 1185-1194.	2.5	9
67	Bifurcations of a Generalized Camassa-Holm Equation. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2005, 6, .	0.4	9
68	Singular solitary waves associated with homoclinic orbits. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 352, 227-232.	0.9	9
69	Cusp Bursting and Slow-Fast Analysis with Two Slow Parameters in Photosensitive Belousov-Zhabotinsky Reaction. <i>Chinese Physics Letters</i> , 2013, 30, 070503.	1.3	9
70	Mixed-mode oscillations and the bifurcation mechanism for a Filippov-type dynamical system. <i>Pramana - Journal of Physics</i> , 2020, 94, 1.	0.9	9
71	Two bursting patterns induced by system solutions approaching infinity in a modified Rayleigh-Duffing oscillator. <i>Pramana - Journal of Physics</i> , 2020, 94, 1.	0.9	9
72	Exploiting Bursting Oscillations to Improve Energy Capture from Slowly Changing Excitation. <i>Journal of Vibration Engineering and Technologies</i> , 2021, 9, 1923-1939.	1.3	9

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73	Exploiting internal resonance to improve flow energy harvesting from vortex-induced vibrations. <i>Journal of Intelligent Material Systems and Structures</i> , 2022, 33, 459-473.	1.4	9
74	Hidden attractors in a class of two-dimensional rational memristive maps with no fixed points. <i>European Physical Journal: Special Topics</i> , 2022, 231, 2173-2182.	1.2	9
75	On Constructing the Unique Solution for the Necking in a Hyper-Elastic Rod. <i>Journal of Elasticity</i> , 2006, 82, 215-241.	0.9	8
76	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> , 2014, 19, 750-757.	1.7	8
77	Modified function projective bursting synchronization for fast-slow systems with uncertainties and external disturbances. <i>Nonlinear Dynamics</i> , 2015, 79, 2359-2369.	2.7	8
78	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> , 2021, 31, 2150047.	0.7	8
79	Slow-Fast 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> , 2021, 31, 2130022.	0.7	8
80	Bursting patterns with complex structures in a parametrically and externally excited Jerk circuit system. <i>European Physical Journal: Special Topics</i> , 2022, 231, 2265-2275.	1.2	8
81	Peaked singular wave solutions associated with singular curves. <i>Chaos, Solitons and Fractals</i> , 2007, 31, 417-423.	2.5	7
82	Chaos crisis in coupled Duffing's systems with initial phase difference. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 369, 418-431.	0.9	7
83	Dynamical behaviors of the periodic parameter-switching system. <i>Nonlinear Dynamics</i> , 2013, 73, 29-37.	2.7	7
84	Bursting phenomena as well as the bifurcation mechanism in a coupled BVP oscillator with periodic excitation. <i>Chinese Physics B</i> , 2016, 25, 070501.	0.7	7
85	Boundary-Crisis-Induced Complex Bursting Patterns in a Forced Cubic Map. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2017, 27, 1750051.	0.7	7
86	Forced vibration of shape memory alloy spring oscillator and the mechanism of sliding bifurcation with dry friction. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401985197.	0.8	7
87	On occurrence of sudden increase of spiking amplitude via fold limit cycle bifurcation in a modified Van der Pol-Duffing system with slow-varying periodic excitation. <i>Nonlinear Dynamics</i> , 2022, 108, 2097-2114.	2.7	7
88	Bursting analysis of multi-stable nonlinear mechanical oscillator and its application in energy harvesting. <i>European Physical Journal: Special Topics</i> , 2022, 231, 2223-2236.	1.2	7
89	Wave patterns associated with a singular line for a bi-Hamiltonian system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 369, 407-417.	0.9	6
90	On symmetry-breaking bifurcation in the periodic parameter-switching Lorenz oscillator. <i>Science China Technological Sciences</i> , 2013, 56, 2310-2316.	2.0	6

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91	Modified slow-fast analysis method for slow-fast dynamical systems with two scales in frequency domain. <i>Theoretical and Applied Mechanics Letters</i> , 2019, 9, 358-362.	1.3	6
92	Dynamics and performance evaluation of a self-tuning multistable shape memory energy harvester. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	6
93	Compound Bursting Behaviors in the Parametrically Amplified Mathieu's Duffing Nonlinear System. <i>Journal of Vibration Engineering and Technologies</i> , 2022, 10, 95-110.	1.3	6
94	Exploiting multiple-frequency bursting of a shape memory oscillator. <i>Chaos, Solitons and Fractals</i> , 2022, 158, 112000.	2.5	6
95	On two-parameter bifurcation analysis of the periodic parameter-switching Lorenz oscillator. <i>Nonlinear Dynamics</i> , 2015, 81, 577-583.	2.7	5
96	Quasi-Matrix and Quasi-Inverse-Matrix Projective Synchronization for Delayed and Disturbed Fractional Order Neural Network. <i>Complexity</i> , 2019, 2019, 1-15.	0.9	5
97	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> , 2020, 30, 2050168.	0.7	5
98	A novel bursting oscillation and its transitions in a modified Bonhoeffer's van der Pol oscillator with weak periodic excitation. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	5
99	Bursting Energy Harvesting of Shape Memory Oscillator. <i>Journal of Vibration Engineering and Technologies</i> , 0, , 1.	1.3	5
100	On occurrence of mixed-torus bursting oscillations induced by non-smoothness. <i>Nonlinear Dynamics</i> , 2022, 109, 1463-1483.	2.7	5
101	Complex bursting dynamics in the cubic-quintic Duffing-van der Pol system with two external periodic excitations. <i>Meccanica</i> , 2022, 57, 1747-1766.	1.2	5
102	Bounded wave solutions of a generalized BBM equation with positive exponents. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 360, 574-581.	0.9	4
103	Dynamical behavior analysis and bifurcation mechanism of a new 3-D nonlinear periodic switching system. <i>Nonlinear Dynamics</i> , 2013, 73, 1873-1881.	2.7	4
104	Forced bursting and transition mechanism in CO oxidation with three time scales. <i>Chinese Physics B</i> , 2013, 22, 040504.	0.7	4
105	Approximation to Hadamard Derivative via the Finite Part Integral. <i>Entropy</i> , 2018, 20, 983.	1.1	4
106	Qualitative analysis in a delayed Van der Pol oscillator. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 544, 123482.	1.2	4
107	Probabilistic solutions of a variable-mass system under random excitations. <i>Acta Mechanica</i> , 2020, 231, 2815-2826.	1.1	4
108	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> , 2021, 410, 127542.	0.9	4

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109	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> , 2021, 190, 377-397.	2.4	4
110	All Possible Bursting Attractors in the Neighborhood of Hopf Bifurcation Point Under Periodic Excitation. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2022, 32, .	0.7	4
111	Phase synchronization between nonlinearly coupled Rössler systems. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2008, 29, 697-704.	1.9	3
112	Multiple-mode wave solutions to display superpositions and collisions in nonlinear evolution equations. <i>Physical Review E</i> , 2008, 77, 036607.	0.8	3
113	Bursting oscillations in a slow-varying periodically excited vector field with Bogdanov-Takens bifurcation. <i>JVC/Journal of Vibration and Control</i> , 2022, 28, 1441-1452.	1.5	3
114	On occurrence of bursting oscillations in a dynamical system with a double Hopf bifurcation. <i>Physica Scripta</i> , 2021, 96, 015203.	1.2	3
115	Influence of the Coexisting Attractors on the Slow-Fast Behaviors in the Fast Subsystem. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2022, 32, .	0.7	3
116	Bursting oscillations with adding-sliding structures in a Filippov-type Chua's circuit. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022, 110, 106368.	1.7	3
117	Exploiting self-tuning tristable to improve energy capture from shape memory oscillator. <i>Journal of Energy Storage</i> , 2022, 51, 104469.	3.9	3
118	Solitary waves for a nonlinear dispersive long wave equation. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2008, 24, 455-462.	1.5	2
119	Multiple-mode wave solutions in Vakhnenko equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 3243-3252.	0.9	2
120	Probabilistic solution of nonlinear ship rolling in random beam seas. <i>Pramana - Journal of Physics</i> , 2020, 94, 1.	0.9	2
121	Investigation of inner flow and near-field spray patterns of the non-circular diesel injector. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2022, 47, 1.	0.8	2
122	A broadband flow energy harvester induced by the wake of a bluff body. <i>European Physical Journal Plus</i> , 2022, 137, .	1.2	2
123	Periodic switching oscillation and mechanism in a periodically switched BZ reaction. <i>Science China Technological Sciences</i> , 2012, 55, 2820-2828.	2.0	1
124	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> , 0, , 1.	1.2	1
125	Novel bursting dynamics and the mechanism analysis in a mechanical oscillator. <i>Nonlinear Dynamics</i> , 2022, 109, 1485-1499.	2.7	1
126	Dynamical analysis of a compound oscillator with initial phase difference. <i>Nonlinear Analysis: Real World Applications</i> , 2008, 9, 1261-1268.	0.9	0

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127	Numerical analysis of a degenerate generalized Hopf bifurcation. International Journal of Modern Physics C, 2021, 32, 2150105.	0.8	0
128	Oblique penetration mechanism of hybrid composite laminates. Science and Engineering of Composite Materials, 2021, 28, 568-578.	0.6	0
129	Slow-Fast Dynamics in a Non-smooth Vector Field with Zero-Hopf Bifurcation. Journal of Vibration Engineering and Technologies, 0, , .	1.3	0