

Nikolay Kuznetsov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

235
papers

6,384
citations

37
h-index

76
g-index

262
ext. papers

7,167
ext. citations

1.8
avg, IF

6.74
L-index

#	Paper	IF	Citations
235	D3 Dihedral Logistic Map of Fractional Order. <i>Mathematics</i> , 2022 , 10, 213	2.3	1
234	Computational Experiments with the Roots of Fibonacci-like Polynomials as a Window to Mathematics Research. <i>Axioms</i> , 2022 , 11, 48	1.6	
233	Chaos and Its Degradation-Promoting-Based Control in an Antithetic Integral Feedback Circuit 2022 , 6, 1622-1627		1
232	Generating grid chaotic sea from system without equilibrium point. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022 , 107, 106194	3.7	7
231	Global Stability Boundaries and Hidden Oscillations in Dynamical Models with Dry Friction. <i>Advanced Structured Materials</i> , 2022 , 387-411	0.6	
230	ALGORITHM FOR CALCULATING TRANSIENTS IN ELECTRICAL CIRCUITS BY THE STATE-VARIABLE METHOD. <i>Intellektual'naya Tekhnika</i> , 2022 , 99-115	0	
229	Pilot-Induced Oscillation Prevention During the Aircraft Landing. <i>Proceedings of Higher Educational Institutions Airline Building</i> , 2021 , 3-10	0.1	
228	Dimensional Aspects of Almost Periodic Dynamics. <i>Emergence, Complexity and Computation</i> , 2021 , 149-180		
227	Lyapunov Dimension for Dynamical Systems in Euclidean Spaces. <i>Emergence, Complexity and Computation</i> , 2021 , 257-305	0.1	1
226	Macroeconomic Model with Monetary and Fiscal Policy and Externality: Nonlinear dynamics, Optimization and Control. <i>IFAC-PapersOnLine</i> , 2021 , 54, 26-31	0.7	
225	The pull-in range and a counterexample to the Egan conjecture for the fourth-order type 2 analog PLL. <i>IFAC-PapersOnLine</i> , 2021 , 54, 73-78	0.7	
224	Chimera states in a class of hidden oscillatory networks. <i>Nonlinear Dynamics</i> , 2021 , 104, 1645-1655	5	1
223	Hidden Strange Nonchaotic Attractors. <i>Mathematics</i> , 2021 , 9, 652	2.3	6
222	Jacobi Stability Analysis and the Onset of Chaos in a Two-Degree-of-Freedom Mechanical System. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2021 , 31, 2150075	2	3
221	Optimal control in the New Keynesian model with monetary and fiscal policy interactions. <i>Journal of Physics: Conference Series</i> , 2021 , 1864, 012040	0.3	
220	Analysis of the global stability boundaries in type 2 PLLs. <i>Journal of Physics: Conference Series</i> , 2021 , 1864, 012062	0.3	1
219	Automatic Control Of Inverters In Electrical Networks: Capture Range And Cycle Slipping. <i>Journal of Physics: Conference Series</i> , 2021 , 1864, 012063	0.3	

218	Attractor as a convex combination of a set of attractors. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 96, 105721	3.7	0
217	On the Generalized Gardner Problem for Phase-Locked Loops in Electrical Grids. <i>Doklady Mathematics</i> , 2021 , 103, 157-161	0.7	2
216	The study of periodic oscillations and global stability in the Tallımodel via the Tsytkin method and the LPRS method. <i>Journal of Physics: Conference Series</i> , 2021 , 1864, 012064	0.3	
215	Attractor Dimension Estimates for Dynamical Systems: Theory and Computation. <i>Emergence, Complexity and Computation</i> , 2021 ,	0.1	13
214	Hidden attractors and multistability in a modified Chua's circuit. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 92, 105494	3.7	48
213	The Egan Problem on the Pull-in Range of Type 2 PLLs. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 68, 1467-1471	3.5	5
212	Analytical-numerical analysis of closed-form dynamic model of Sayano-Shushenskaya hydropower plant: stability, oscillations, and accident. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 93, 105530	3.7	3
211	On asymmetric periodic solutions in relay feedback systems. <i>Journal of the Franklin Institute</i> , 2021 , 358, 363-383	4	4
210	New adaptive synchronization algorithm for a general class of complex hyperchaotic systems with unknown parameters and its application to secure communication. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021 , 586, 126466	3.3	1
209	Coupled Discrete Fractional-Order Logistic Maps. <i>Mathematics</i> , 2021 , 9, 2204	2.3	2
208	Nonlinear Analysis of Charge-Pump Phase-Locked Loop: The Hold-In and Pull-In Ranges. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 68, 4049-4061	3.9	1
207	Study of irregular dynamics in an economic model: attractor localization and Lyapunov exponents. <i>Chaos, Solitons and Fractals</i> , 2021 , 152, 111365	9.3	3
206	Time varying feedback control on multi-stability in hidden attractor. <i>European Physical Journal: Special Topics</i> , 2020 , 229, 1245-1255	2.3	1
205	Aircraft wing rock oscillations suppression by simple adaptive control. <i>Aerospace Science and Technology</i> , 2020 , 105, 106049	4.9	10
204	Power Supply System For Aircraft With Electric Traction 2020 ,		1
203	Harmonic balance analysis of pull-in range and oscillatory behavior of third-order type 2 analog PLLs. <i>IFAC-PapersOnLine</i> , 2020 , 53, 6378-6383	0.7	2
202	The birth of the global stability theory and the theory of hidden oscillations 2020 ,		8
201	Stability of charge-pump phase-locked loops: the hold-in and pull-in ranges. <i>IFAC-PapersOnLine</i> , 2020 , 53, 2022-2026	0.7	2

200	Pilot-Induced Oscillations and Their Prevention. <i>Lecture Notes in Networks and Systems</i> , 2020 , 108-123	0.5	3
199	Time-delay control for stabilization of the Shapovalov mid-size firm model. <i>IFAC-PapersOnLine</i> , 2020 , 53, 16971-16976	0.7	3
198	Existence of homoclinic orbits and heteroclinic cycle in a class of three-dimensional piecewise linear systems with three switching manifolds. <i>Chaos</i> , 2020 , 30, 123143	3.3	3
197	Theory of Hidden Oscillations and Stability of Control Systems. <i>Journal of Computer and Systems Sciences International</i> , 2020 , 59, 647-668	1	27
196	On counter-examples to Aizerman and Kalman conjectures. <i>International Journal of Control</i> , 2020 , 1-8	1.5	5
195	Homoclinic Bifurcations and Chaos in the Fishing Principle for the Lorenz-like Systems. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2020 , 30, 2050124	2	5
194	The Lorenz system: hidden boundary of practical stability and the Lyapunov dimension. <i>Nonlinear Dynamics</i> , 2020 , 102, 713-732	5	29
193	Dynamics of the Shapovalov mid-size firm model. <i>Chaos, Solitons and Fractals</i> , 2020 , 140, 110239	9.3	4
192	Stability and Chaotic Attractors of Memristor-Based Circuit with a Line of Equilibria. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 639-644	0.2	2
191	Hold-in, Pull-in and Lock-in Ranges for Phase-locked Loop with Tangential Characteristic of the Phase Detector. <i>Procedia Computer Science</i> , 2019 , 150, 558-566	1.6	2
190	Chaos control in the fractional order logistic map via impulses. <i>Nonlinear Dynamics</i> , 2019 , 98, 1219-1230	5	12
189	Multistability and Hidden Attractors in the Dynamics of Permanent Magnet Synchronous Motor. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2019 , 29, 1950056	2	30
188	Comparison of Measured and Predicted Values of Absorbed Doses from Galactic Cosmic Rays. <i>Cosmic Research</i> , 2019 , 57, 44-47	0.6	1
187	Harmonic Balance Method and Stability of Discontinuous Systems 2019 , 99-107		
186	Chimera states and hidden attractors: Comment on "Chimera states in neuronal networks: A review" by S. Majhi, B.K. Bera, D. Ghosh, M. Perc. <i>Physics of Life Reviews</i> , 2019 , 28, 131-133	2.1	2
185	Numerical analysis of dynamical systems: unstable periodic orbits, hidden transient chaotic sets, hidden attractors, and finite-time Lyapunov dimension. <i>Journal of Physics: Conference Series</i> , 2019 , 1205, 012034	0.3	7
184	Rich dynamics and anticontrol of extinction in a prey-predator system. <i>Nonlinear Dynamics</i> , 2019 , 98, 1421-1445	5	5
183	Analysis of oscillations in discontinuous Lurie systems via LPRS method. <i>Vibroengineering PROCEDIA</i> , 2019 , 25, 177-181	0.4	1

182	Graphical Structure of Attraction Basins of Hidden Chaotic Attractors: The Rabinovich-Babrikant System. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2019 , 29, 1930001	2	20
181	On the Gardner Problem for Phase-Locked Loops. <i>Doklady Mathematics</i> , 2019 , 100, 568-570	0.7	7
180	Coexistence of hidden attractors and multistability in counterexamples to the Kalman conjecture. <i>IFAC-PapersOnLine</i> , 2019 , 52, 7-12	0.7	1
179	Non-linear analysis of a modified QPSK Costas loop. <i>IFAC-PapersOnLine</i> , 2019 , 52, 31-35	0.7	2
178	On lower-bound estimates of the Lyapunov dimension and topological entropy for the Rossler systems. <i>IFAC-PapersOnLine</i> , 2019 , 52, 97-102	0.7	3
177	On Leonov's Method for Computing the Linearization of Transverse Dynamics and Analyzing Zhukovsky Stability. <i>Vestnik St Petersburg University: Mathematics</i> , 2019 , 52, 334-341	0.3	3
176	Approximating hidden chaotic attractors via parameter switching. <i>Chaos</i> , 2018 , 28, 013127	3.3	16
175	Fractional-order PWC systems without zero Lyapunov exponents. <i>Nonlinear Dynamics</i> , 2018 , 92, 1061-1078	3.8	17
174	Finite-time Lyapunov dimension and hidden attractor of the Rabinovich system. <i>Nonlinear Dynamics</i> , 2018 , 92, 267-285	5	98
173	Complex dynamics, hidden attractors and continuous approximation of a fractional-order hyperchaotic PWC system. <i>Nonlinear Dynamics</i> , 2018 , 91, 2523-2540	5	27
172	Shadowing in hidden attractors. <i>Nonlinear Dynamics</i> , 2018 , 91, 2429-2434	5	6
171	Hidden and self-excited attractors in Chua circuit: synchronization and SPICE simulation. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , 2018 , 33, 513-523	1	16
170	Theory of Differential Inclusions and Its Application in Mechanics 2018 , 219-239		2
169	Multi-Satellite Operative Monitoring of Near-Earth Radiation within the Universat-SOCRAT Project. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika)</i> , 2018 , 73, 687-695	0.7	5
168	Hidden Nonlinear Oscillations in Controlled Aircraft With Saturated Inputs 2018 ,		1
167	Lock-in range of BPSK Costas loop. <i>IFAC-PapersOnLine</i> , 2018 , 51, 252-256	0.7	0
166	Counterexamples to the Kalman Conjectures. <i>IFAC-PapersOnLine</i> , 2018 , 51, 138-143	0.7	4
165	Hidden nonlinear oscillations in aircraft stabilization system with restrictions at the actuator control 2018 ,		2

164	Suppression of nonlinear wing-rock oscillations by adaptive control with the implicit reference model 2018 ,		2
163	Monitoring of Natural and Technogenic Space Hazards: Results of the Lomonosov Mission and Universat-SOCRAT Project. <i>Cosmic Research</i> , 2018 , 56, 488-497	0.6	2
162	On Flutter Suppression in the Keldysh Model. <i>Doklady Physics</i> , 2018 , 63, 366-370	0.8	5
161	On the Keldysh problem of flutter suppression 2018 ,		2
160	Matlab Code for Lyapunov Exponents of Fractional-Order Systems. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2018 , 28, 1850067	2	79
159	Predicting GCR fluxes for future space missions. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017 , 81, 173-176	0.4	1
158	Empirical model of long-time variations of galactic cosmic ray particle fluxes. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1463-1472	2.6	20
157	Hidden chaotic sets in a Hopfield neural system. <i>Chaos, Solitons and Fractals</i> , 2017 , 103, 144-150	9.3	80
156	Parameter Switching Synchronization. <i>Applied Mathematics and Computation</i> , 2017 , 313, 94-102	2.7	4
155	Hidden attractors in dynamical models of phase-locked loop circuits: Limitations of simulation in MATLAB and SPICE. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017 , 51, 39-49	3.7	107
154	Unusual dynamics and hidden attractors of the Rabinovich-Babrikant system. <i>Nonlinear Dynamics</i> , 2017 , 88, 791-805	5	67
153	Nonlinear analysis of PLL by the harmonic balance method: limitations of the pull-in range estimation.. <i>IFAC-PapersOnLine</i> , 2017 , 50, 1451-1456	0.7	2
152	Hidden attractors localization in Chua circuit via the describing function method. <i>IFAC-PapersOnLine</i> , 2017 , 50, 2651-2656	0.7	14
151	Nonlinear model of the optical Costas loop: pull-in range estimation and hidden oscillations. <i>IFAC-PapersOnLine</i> , 2017 , 50, 3325-3330	0.7	1
150	Coexistence of single- and multi-scroll chaotic orbits in a single-link flexible joint robot manipulator with stable spiral and index-4 spiral repellor types of equilibria. <i>Nonlinear Dynamics</i> , 2017 , 90, 1277-1299 ⁵		42
149	Dynamics of a Stewart platform. <i>Vestnik St Petersburg University: Mathematics</i> , 2017 , 50, 297-309	0.3	3
148	Hidden Attractors on One Path: Glukhovsky-Dolzansky, Lorenz, and Rabinovich Systems. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2017 , 27, 1750115	2	40
147	Methods for suppressing nonlinear oscillations in astatic auto-piloted aircraft control systems. <i>Journal of Computer and Systems Sciences International</i> , 2017 , 56, 455-470	1	8

146	Hidden Oscillations in Electromechanical Systems 2017 , 119-124		9
145	A Tribute to J. C. Sprott. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2017 , 27, 1750221	2	14
144	Scenario of the Birth of Hidden Attractors in the Chua Circuit. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2017 , 27, 1730038	2	57
143	A short survey on nonlinear models of QPSK Costas loop. <i>IFAC-PapersOnLine</i> , 2017 , 50, 6525-6533	0.7	3
142	Radiation environment at the end of active functioning of Vernov satellite. <i>Cosmic Research</i> , 2017 , 55, 464-468	0.6	3
141	Global Problems for Differential Inclusions. Kalman and Vyshnegradskii Problems and Chua Circuits. <i>Differential Equations</i> , 2017 , 53, 1671-1702	0.7	8
140	Hidden attractors in electromechanical systems with and without equilibria. <i>IFAC-PapersOnLine</i> , 2016 , 49, 51-55	0.7	38
139	Computation of lock-in range for classic PLL with lead-lag filter and impulse signals. <i>IFAC-PapersOnLine</i> , 2016 , 49, 42-44	0.7	3
138	Computation of the phase detector characteristic of a QPSK Costas loop. <i>Doklady Mathematics</i> , 2016 , 93, 348-353	0.7	3
137	Dynamics of the Zeraoulia-Sprott Map Revisited. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016 , 26, 1650126	2	9
136	Optimal control of data transmission in a mobile two-agent robotic system. <i>Journal of Communications Technology and Electronics</i> , 2016 , 61, 1456-1465	0.5	6
135	Looking More Closely at the Rabinovich-Babrikant System. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016 , 26, 1650038	2	24
134	Hidden Attractors in Fundamental Problems and Engineering Models: A Short Survey. <i>Lecture Notes in Electrical Engineering</i> , 2016 , 13-25	0.2	49
133	Tunisia 2011-2014. Bifurcation, revolution, and controlled stabilization. <i>Vestnik Sankt-Peterburgskogo Universiteta, Prikladnaya Matematika, Informatika, Protsessy Upravleniya</i> , 2016 , 12, 92-103	0.9	2
132	Hidden attractor in the Rabinovich system, Chua circuits and PLL 2016 ,		22
131	Delayed feedback stabilization and the Huijberts-Michiels-Nijmeijer problem. <i>Differential Equations</i> , 2016 , 52, 1707-1731	0.7	2
130	Lyapunov dimension formula for the global attractor of the Lorenz system. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016 , 41, 84-103	3.7	50
129	Hidden attractors in dynamical systems. <i>Physics Reports</i> , 2016 , 637, 1-50	27.7	424

128	Mathematical modeling of vibrations in turbogenerator sets of Sayano-Shushenskaya Hydroelectric Power Station. <i>Doklady Physics</i> , 2016 , 61, 55-60	0.8	8
127	Invariance of Lyapunov exponents and Lyapunov dimension for regular and irregular linearizations. <i>Nonlinear Dynamics</i> , 2016 , 85, 195-201	5	65
126	A novel memristive time-delay chaotic system without equilibrium points. <i>European Physical Journal: Special Topics</i> , 2016 , 225, 127-136	2.3	94
125	The Lyapunov dimension and its estimation via the Leonov method. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 2142-2149	2.3	57
124	Tutorial on dynamic analysis of the Costas loop. <i>Annual Reviews in Control</i> , 2016 , 42, 27-49	10.3	31
123	Hidden Oscillations In The Closed-Loop Aircraft-Pilot System And Their Prevention. <i>IFAC-PapersOnLine</i> , 2016 , 49, 30-35	0.7	4
122	Computation of the lock-in ranges of phase-locked loops with PI filter. <i>IFAC-PapersOnLine</i> , 2016 , 49, 36-41	1.7	6
121	Hidden oscillations in SPICE simulation of two-phase Costas loop with non-linear VCO. <i>IFAC-PapersOnLine</i> , 2016 , 49, 45-50	0.7	21
120	Simulation of the classical analog phase-locked loop based circuits. <i>IFAC-PapersOnLine</i> , 2015 , 48, 568-573	0.7	6
119	Control of multistability in hidden attractors. <i>European Physical Journal: Special Topics</i> , 2015 , 224, 1485-1491	1.7	159
118	Homoclinic orbits, and self-excited and hidden attractors in a Lorenz-like system describing convective fluid motion. <i>European Physical Journal: Special Topics</i> , 2015 , 224, 1421-1458	2.3	285
117	Hidden attractor and homoclinic orbit in Lorenz-like system describing convective fluid motion in rotating cavity. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015 , 28, 166-174	3.7	172
116	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2015 , 62, 2454-2464	3.9	76
115	A short survey on nonlinear models of the classic Costas loop: Rigorous derivation and limitations of the classic analysis 2015 ,		13
114	UAV control with switched GNSS-Estimator navigation system. <i>IFAC-PapersOnLine</i> , 2015 , 48, 126-131	0.7	
113	Nonlinear dynamical model of Costas loop and an approach to the analysis of its stability in the large. <i>Signal Processing</i> , 2015 , 108, 124-135	4.4	33
112	Pull-in range of the PLL-based circuits with proportionally-integrating filter. <i>IFAC-PapersOnLine</i> , 2015 , 48, 720-724	0.7	5
111	Response of Costas PLL in the Presence of In-band Interference. <i>IFAC-PapersOnLine</i> , 2015 , 48, 714-719	0.7	

110	Pull-in range of the classical PLL with impulse signals. <i>IFAC-PapersOnLine</i> , 2015 , 48, 562-567	0.7	4
109	V. A. Yakubovich -mathematician, "father of the field", and herald of intellectual democracy in science and society*1See also obituaries published by IFAC (Leonov and Kurzhanski, 2012) and IEEE (Fradkov et al., 2013). <i>IFAC-PapersOnLine</i> , 2015 , 48, 1-3	0.7	1
108	Elegant analytic computation of phase detector characteristic for non-sinusoidal signals. <i>IFAC-PapersOnLine</i> , 2015 , 48, 960-963	0.7	3
107	A simple dynamical model of hydropower plant: stability and oscillations. <i>IFAC-PapersOnLine</i> , 2015 , 48, 656-661	0.7	8
106	Mathematical models of the Costas loop. <i>Doklady Mathematics</i> , 2015 , 92, 594-598	0.7	3
105	Nonlinear Phase Shift Compensator for Pilot-Induced Oscillations Prevention 2015 ,		4
104	Coincidence of the Gel'fand-Leonov-Yakubovich, Filippov, and Aizerman-Byatnitskiy definitions. <i>Vestnik St Petersburg University: Mathematics</i> , 2015 , 48, 66-71	0.3	8
103	Rigorous mathematical definitions of the hold-in and pull-in ranges for phase-locked loops. <i>IFAC-PapersOnLine</i> , 2015 , 48, 710-713	0.7	22
102	Discontinuous differential equations: comparison of solution definitions and localization of hidden Chua attractors. <i>IFAC-PapersOnLine</i> , 2015 , 48, 408-413	0.7	5
101	Analytic Exact Upper Bound for the Lyapunov Dimension of the Shimizu-Morioka System. <i>Entropy</i> , 2015 , 17, 5101-5116	2.8	10
100	Computation of the phase detector characteristic of classical PLL. <i>Doklady Mathematics</i> , 2015 , 91, 246-249	0.7	2
99	Controlling Dynamics of Hidden Attractors. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2015 , 25, 1550061	2	108
98	Simulation of PLL with impulse signals in MATLAB: Limitations, hidden oscillations, and pull-in range 2015 ,		2
97	Modeling and identification of the Tunisian social system in 2011-2014: bifurcation, revolution, and controlled stabilization. <i>IFAC-PapersOnLine</i> , 2015 , 48, 725-729	0.7	1
96	Limitations of the classical phase-locked loop analysis 2015 ,		14
95	Convergence-based Analysis of Robustness to Delay in Anti-windup Loop of Aircraft Autopilot**This work was supported by Russian Scientific Foundation (project 14-21-00041) and Saint-Petersburg State University.. <i>IFAC-PapersOnLine</i> , 2015 , 48, 144-149	0.7	2
94	Hidden oscillations in drilling systems with salient pole synchronous motor. <i>IFAC-PapersOnLine</i> , 2015 , 48, 700-705	0.7	6
93	A short survey on Pyragas time-delay feedback stabilization and odd number limitation. <i>IFAC-PapersOnLine</i> , 2015 , 48, 706-709	0.7	14

92	Limitations of PLL simulation: Hidden oscillations in MatLab and SPICE 2015 ,		13
91	On differences and similarities in the analysis of Lorenz, Chen, and Lu systems. <i>Applied Mathematics and Computation</i> , 2015 , 256, 334-343	2.7	87
90	Lyapunov Exponent Sign Reversal: Stability and Instability by the First Approximation. <i>Advances in Dynamics, Patterns, Cognition</i> , 2014 , 41-77	0.7	2
89	Hidden Oscillations in Dynamical Systems. 16 Hilbert's Problem, Aizerman's and Kalman's Conjectures, Hidden Attractors in Chua's Circuits. <i>Journal of Mathematical Sciences</i> , 2014 , 201, 645-662	0.4	21
88	Hidden oscillations in mathematical model of drilling system actuated by induction motor with a wound rotor. <i>Nonlinear Dynamics</i> , 2014 , 77, 277-288	5	221
87	Motion of a solid driven by six rods of variable length. <i>Doklady Physics</i> , 2014 , 59, 153-157	0.8	6
86	Hidden periodic oscillations in drilling system driven by induction motor. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 5872-5877		10
85	Delayed feedback stabilization of unstable equilibria. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 6818-6825		6
84	Hidden attractors in dynamical systems: systems with no equilibria, multistability and coexisting attractors. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 5445-5454		63
83	Nonlinear analysis of classical phase-locked loops in signal's phase space. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 8253-8258		15
82	BPSK Costas loop: Simulation of nonlinear models in MatLab Simulink 2014 ,		5
81	Dynamics and control of the Stewart platform. <i>Doklady Physics</i> , 2014 , 59, 405-410	0.8	8
80	Simulation of nonlinear models of QPSK costas loop in MatLab Simulink 2014 ,		7
79	Modeling, Simulation and Control of Pneumatically Actuated Stewart Platform with Input Quantization 2014 ,		2
78	Best's conjecture on pull-in range of two-phase Costas loop 2014 ,		2
77	Simulation of Analog Costas Loop Circuits. <i>International Journal of Automation and Computing</i> , 2014 , 11, 571-579	3.5	21
76	Nonlinear Analysis of Phase-locked Loop-Based Circuits. <i>Advances in Dynamics, Patterns, Cognition</i> , 2014 , 169-192	0.7	4
75	Control of pneumatically actuated 6-DOF Stewart platform for driving simulator 2014 ,		5

74	Numerical justification of Leonov conjecture on Lyapunov dimension of Rossler attractor. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014 , 19, 1027-1034	3.7	84
73	Nonlinear Models of BPSK Costas Loop 2014 ,		4
72	Drilling Systems: Stability and Hidden Oscillations. <i>Advances in Dynamics, Patterns, Cognition</i> , 2014 , 287-304		4
71	Nonlinear Analysis of Phase-Locked Loop (PLL): Global Stability Analysis, Hidden Oscillations and Simulation Problems 2014 , 199-207		4
70	Radiation in space: Long-term cooperation between SINP MSU and the Lavochkin Association. <i>Solar System Research</i> , 2013 , 47, 594-600	0.8	1
69	Visualization of Four Normal Size Limit Cycles in Two-Dimensional Polynomial Quadratic System. <i>Differential Equations and Dynamical Systems</i> , 2013 , 21, 29-34	0.8	32
68	Prediction of Hidden Oscillations Existence in Nonlinear Dynamical Systems: Analytics and Simulation. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 5-13	0.4	16
67	Analytical-Numerical Methods for Hidden Attractors Localization: The 16th Hilbert Problem, Aizerman and Kalman Conjectures, and Chua Circuits. <i>Computational Methods in Applied Sciences (Springer)</i> , 2013 , 41-64	0.4	27
66	Analytical-Numerical Localization of Hidden Attractor in Electrical Chua's Circuit. <i>Lecture Notes in Electrical Engineering</i> , 2013 , 149-158	0.2	34
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