

# Nikolay Kuznetsov

## List of Publications by Citations

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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	HIDDEN ATTRACTORS IN DYNAMICAL SYSTEMS. FROM HIDDEN OSCILLATIONS IN HILBERT-OLMOGOROV, AIZERMAN, AND KALMAN PROBLEMS TO HIDDEN CHAOTIC ATTRACTOR IN CHUA CIRCUITS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2013</b> , 23, 1330002	2	571
234	Localization of hidden Chua attractors. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2011</b> , 375, 2230-2233	2.3	543
233	Hidden attractor in smooth Chua systems. <i>Physica D: Nonlinear Phenomena</i> , <b>2012</b> , 241, 1482-1486	3.3	429
232	Hidden attractors in dynamical systems. <i>Physics Reports</i> , <b>2016</b> , 637, 1-50	27.7	424
231	Homoclinic orbits, and self-excited and hidden attractors in a Lorenz-like system describing convective fluid motion. <i>European Physical Journal: Special Topics</i> , <b>2015</b> , 224, 1421-1458	2.3	285
230	Hidden oscillations in mathematical model of drilling system actuated by induction motor with a wound rotor. <i>Nonlinear Dynamics</i> , <b>2014</b> , 77, 277-288	5	221
229	TIME-VARYING LINEARIZATION AND THE PERRON EFFECTS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2007</b> , 17, 1079-1107	2	179
228	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> , <b>2015</b> , 28, 166-174	3.7	172
227	Algorithms for finding hidden oscillations in nonlinear systems. The Aizerman and Kalman conjectures and Chua circuits. <i>Journal of Computer and Systems Sciences International</i> , <b>2011</b> , 50, 511-543 <sup>1</sup>		167
226	Control of multistability in hidden attractors. <i>European Physical Journal: Special Topics</i> , <b>2015</b> , 224, 1485-1491	2.3	159
225	Analytical-numerical method for attractor localization of generalized Chua's system*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2010</b> , 43, 29-33		128
224	Controlling Dynamics of Hidden Attractors. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2015</b> , 25, 1550061	2	108
223	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> , <b>2017</b> , 51, 39-49	3.7	107
222	Finite-time Lyapunov dimension and hidden attractor of the Rabinovich system. <i>Nonlinear Dynamics</i> , <b>2018</b> , 92, 267-285	5	98
221	A novel memristive time-delay chaotic system without equilibrium points. <i>European Physical Journal: Special Topics</i> , <b>2016</b> , 225, 127-136	2.3	94
220	On differences and similarities in the analysis of Lorenz, Chen, and Lu systems. <i>Applied Mathematics and Computation</i> , <b>2015</b> , 256, 334-343	2.7	87
219	Numerical justification of Leonov conjecture on Lyapunov dimension of Rossler attractor. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2014</b> , 19, 1027-1034	3.7	84

218	Hidden chaotic sets in a Hopfield neural system. <i>Chaos, Solitons and Fractals</i> , <b>2017</b> , 103, 144-150	9.3	80
217	Matlab Code for Lyapunov Exponents of Fractional-Order Systems. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2018</b> , 28, 1850067	2	79
216	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2015</b> , 62, 2454-2464	3.9	76
215	Algorithms for searching for hidden oscillations in the Aizerman and Kalman problems. <i>Doklady Mathematics</i> , <b>2011</b> , 84, 475-481	0.7	76
214	Unusual dynamics and hidden attractors of the Rabinovich-Babrikant system. <i>Nonlinear Dynamics</i> , <b>2017</b> , 88, 791-805	5	67
213	Invariance of Lyapunov exponents and Lyapunov dimension for regular and irregular linearizations. <i>Nonlinear Dynamics</i> , <b>2016</b> , 85, 195-201	5	65
212	Hidden attractors in dynamical systems: systems with no equilibria, multistability and coexisting attractors. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 5445-5454		63
211	Analytical-numerical methods for investigation of hidden oscillations in nonlinear control systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 2494-2505		58
210	Scenario of the Birth of Hidden Attractors in the Chua Circuit. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2017</b> , 27, 1730038	2	57
209	The Lyapunov dimension and its estimation via the Leonov method. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2016</b> , 380, 2142-2149	2.3	57
208	Analytical Method for Computation of Phase-Detector Characteristic. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2012</b> , 59, 633-637	3.5	52
207	Hidden oscillations in nonlinear control systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 2506-2510		51
206	Lyapunov dimension formula for the global attractor of the Lorenz system. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2016</b> , 41, 84-103	3.7	50
205	Hidden Attractors in Fundamental Problems and Engineering Models: A Short Survey. <i>Lecture Notes in Electrical Engineering</i> , <b>2016</b> , 13-25	0.2	49
204	Hidden attractors and multistability in a modified Chua circuit. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2021</b> , 92, 105494	3.7	48
203	Algorithm for constructing counterexamples to the Kalman problem. <i>Doklady Mathematics</i> , <b>2010</b> , 82, 540-542	0.7	44
202	Coexistence of single- and multi-scroll chaotic orbits in a single-link flexible joint robot manipulator with stable spiral and index-4 spiral repeller types of equilibria. <i>Nonlinear Dynamics</i> , <b>2017</b> , 90, 1277-1299	5	42
201	Hidden Attractors on One Path: Glukhovsky-Dolzansky, Lorenz, and Rabinovich Systems. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2017</b> , 27, 1750115	2	40

200	Hidden attractors in electromechanical systems with and without equilibria. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 51-55	0.7	38
199	Hidden oscillations in aircraft flight control system with input saturation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 75-79		37
198	Analytical-Numerical Localization of Hidden Attractor in Electrical Chua's Circuit. <i>Lecture Notes in Electrical Engineering</i> , <b>2013</b> , 149-158	0.2	34
197	Nonlinear dynamical model of Costas loop and an approach to the analysis of its stability in the large. <i>Signal Processing</i> , <b>2015</b> , 108, 124-135	4.4	33
196	Visualization of Four Normal Size Limit Cycles in Two-Dimensional Polynomial Quadratic System. <i>Differential Equations and Dynamical Systems</i> , <b>2013</b> , 21, 29-34	0.8	32
195	Tutorial on dynamic analysis of the Costas loop. <i>Annual Reviews in Control</i> , <b>2016</b> , 42, 27-49	10.3	31
194	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> , <b>2019</b> , 29, 1950056	2	30
193	Algorithm for localizing Chua attractors based on the harmonic linearization method. <i>Doklady Mathematics</i> , <b>2010</b> , 82, 663-666	0.7	29
192	The Lorenz system: hidden boundary of practical stability and the Lyapunov dimension. <i>Nonlinear Dynamics</i> , <b>2020</b> , 102, 713-732	5	29
191	Investigations of the space environment aboard the Universitetsky-Tat'yana and Universitetsky-Tat'yana-2 microsatellites. <i>Solar System Research</i> , <b>2011</b> , 45, 3-29	0.8	28
190	Complex dynamics, hidden attractors and continuous approximation of a fractional-order hyperchaotic PWC system. <i>Nonlinear Dynamics</i> , <b>2018</b> , 91, 2523-2540	5	27
189	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> , <b>2013</b> , 41-64	0.4	27
188	Theory of Hidden Oscillations and Stability of Control Systems. <i>Journal of Computer and Systems Sciences International</i> , <b>2020</b> , 59, 647-668	1	27
187	Looking More Closely at the Rabinovich-Fabrikant System. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2016</b> , 26, 1650038	2	24
186	First results of investigating the space environment onboard the Universitetskii-Tatyana satellite. <i>Cosmic Research</i> , <b>2007</b> , 45, 273-286	0.6	24
185	On stability by the first approximation for discrete systems		24
184	Aircraft control with anti-windup compensation. <i>Differential Equations</i> , <b>2012</b> , 48, 1700-1720	0.7	23
183	Rigorous mathematical definitions of the hold-in and pull-in ranges for phase-locked loops. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 710-713	0.7	22

182	Hidden attractor in the Rabinovich system, Chua circuits and PLL <b>2016</b> ,		22
181	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> , <b>2014</b> , 201, 645-662	0.4	21
180	Simulation of Analog Costas Loop Circuits. <i>International Journal of Automation and Computing</i> , <b>2014</b> , 11, 571-579	3.5	21
179	Hidden oscillations in SPICE simulation of two-phase Costas loop with non-linear VCO. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 45-50	0.7	21
178	Empirical model of long-time variations of galactic cosmic ray particle fluxes. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 1463-1472	2.6	20
177	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> , <b>2019</b> , 29, 1930001	2.0	20
176	Limit cycles of quadratic systems with a perturbed weak focus of order 3 and a saddle equilibrium at infinity. <i>Doklady Mathematics</i> , <b>2010</b> , 82, 693-696	0.7	18
175	Fractional-order PWC systems without zero Lyapunov exponents. <i>Nonlinear Dynamics</i> , <b>2018</b> , 92, 1061-1078	3.8	17
174	Approximating hidden chaotic attractors via parameter switching. <i>Chaos</i> , <b>2018</b> , 28, 013127	3.3	16
173	Hidden and self-excited attractors in Chua circuit: synchronization and SPICE simulation. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , <b>2018</b> , 33, 513-523	1	16
172	Prediction of Hidden Oscillations Existence in Nonlinear Dynamical Systems: Analytics and Simulation. <i>Advances in Intelligent Systems and Computing</i> , <b>2013</b> , 5-13	0.4	16
171	Computation of phase detector characteristics in synchronization systems. <i>Doklady Mathematics</i> , <b>2011</b> , 84, 586-590	0.7	16
170	Nonlinear analysis of classical phase-locked loops in signal's phase space. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 8253-8258		15
169	Hidden oscillations in stabilization system of flexible launcher with saturating actuators*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 37-41		15
168	Nonlinear Analysis and Design of Phase-Locked Loops		15
167	Hidden attractors localization in Chua circuit via the describing function method. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 2651-2656	0.7	14
166	A Tribute to J. C. Sprott. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2017</b> , 27, 1750221	2	14
165	Limitations of the classical phase-locked loop analysis <b>2015</b> ,		14

164	A short survey on Pyragas time-delay feedback stabilization and odd number limitation. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 706-709	0.7	14
163	A direct method for calculating Lyapunov quantities of two-dimensional dynamical systems. <i>Proceedings of the Steklov Institute of Mathematics</i> , <b>2011</b> , 272, 119-126	0.5	14
162	A short survey on nonlinear models of the classic Costas loop: Rigorous derivation and limitations of the classic analysis <b>2015</b> ,		13
161	Limitations of PLL simulation: Hidden oscillations in MatLab and SPICE <b>2015</b> ,		13
160	Differential equations of Costas loop. <i>Doklady Mathematics</i> , <b>2012</b> , 86, 723-728	0.7	13
159	Handbook of Applications of Chaos Theory		13
158	Attractor Dimension Estimates for Dynamical Systems: Theory and Computation. <i>Emergence, Complexity and Computation</i> , <b>2021</b> ,	0.1	13
157	Chaos control in the fractional order logistic map via impulses. <i>Nonlinear Dynamics</i> , <b>2019</b> , 98, 1219-1230	5	12
156	Drilling systems failures and hidden oscillations <b>2012</b> ,		11
155	On problems of Aizerman and Kalman. <i>Vestnik St Petersburg University: Mathematics</i> , <b>2010</b> , 43, 148-162	0.3	11
154	Cycles of two-dimensional systems: Computer calculations, proofs, and experiments. <i>Vestnik St Petersburg University: Mathematics</i> , <b>2008</b> , 41, 216-250	0.3	11
153	SYNCHRONIZATION OF TWO METRONOMES. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2007</b> , 40, 49-52		11
152	Aircraft wing rock oscillations suppression by simple adaptive control. <i>Aerospace Science and Technology</i> , <b>2020</b> , 105, 106049	4.9	10
151	Hidden periodic oscillations in drilling system driven by induction motor. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 5872-5877		10
150	Analytic Exact Upper Bound for the Lyapunov Dimension of the ShimizuMorioka System. <i>Entropy</i> , <b>2015</b> , 17, 5101-5116	2.8	10
149	Variation of the trapped proton flux in the inner radiation belt of the earth as a function of solar activity. <i>Cosmic Research</i> , <b>2010</b> , 48, 80-85	0.6	10
148	Dynamics of the ZeraouliaBprott Map Revisited. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2016</b> , 26, 1650126	2	9
147	Hidden Oscillations in Electromechanical Systems <b>2017</b> , 119-124		9

146	Hidden Oscillations in Drilling Systems: Torsional Vibrations. <i>Journal of Applied Nonlinear Dynamics</i> , <b>2013</b> , 2, 83-94	2	9
145	Methods for suppressing nonlinear oscillations in astatic auto-piloted aircraft control systems. <i>Journal of Computer and Systems Sciences International</i> , <b>2017</b> , 56, 455-470	1	8
144	Global Problems for Differential Inclusions. Kalman and Vyshnegradskii Problems and Chua Circuits. <i>Differential Equations</i> , <b>2017</b> , 53, 1671-1702	0.7	8
143	A simple dynamical model of hydropower plant: stability and oscillations. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 656-661	0.7	8
142	Coincidence of the Gel'fand-Leonov-Vakubovich, Filippov, and Aizerman-Byatnitskiy definitions. <i>Vestnik St Petersburg University: Mathematics</i> , <b>2015</b> , 48, 66-71	0.3	8
141	Dynamics and control of the Stewart platform. <i>Doklady Physics</i> , <b>2014</b> , 59, 405-410	0.8	8
140	Analytical methods for computation of phase-detector characteristics and PLL design <b>2011</b> ,		8
139	Radiation-induced defects in implanted Hg <sup>155</sup> CdTe crystals. <i>Physica Status Solidi A</i> , <b>1989</b> , 113, 285-294		8
138	The birth of the global stability theory and the theory of hidden oscillations <b>2020</b> ,		8
137	Mathematical modeling of vibrations in turbogenerator sets of Sayano-Shushenskaya Hydroelectric Power Station. <i>Doklady Physics</i> , <b>2016</b> , 61, 55-60	0.8	8
136	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> , <b>2019</b> , 1205, 012034	0.3	7
135	Simulation of nonlinear models of QPSK costas loop in MatLab Simulink <b>2014</b> ,		7
134	Switching algorithm for data fusion of small low-cost UAV navigation system*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 206-211		7
133	Generating grid chaotic sea from system without equilibrium point. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2022</b> , 107, 106194	3.7	7
132	On the Gardner Problem for Phase-Locked Loops. <i>Doklady Mathematics</i> , <b>2019</b> , 100, 568-570	0.7	7
131	Shadowing in hidden attractors. <i>Nonlinear Dynamics</i> , <b>2018</b> , 91, 2429-2434	5	6
130	Optimal control of data transmission in a mobile two-agent robotic system. <i>Journal of Communications Technology and Electronics</i> , <b>2016</b> , 61, 1456-1465	0.5	6
129	Motion of a solid driven by six rods of variable length. <i>Doklady Physics</i> , <b>2014</b> , 59, 153-157	0.8	6

128	Delayed feedback stabilization of unstable equilibria. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 6818-6825		6
127	Hidden oscillations in drilling systems with salient pole synchronous motor. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 700-705	0.7	6
126	Hidden Strange Nonchaotic Attractors. <i>Mathematics</i> , <b>2021</b> , 9, 652	2.3	6
125	Computation of the lock-in ranges of phase-locked loops with PI filter. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 36-41	1.7	6
124	Rich dynamics and anticontrol of extinction in a prey-predator system. <i>Nonlinear Dynamics</i> , <b>2019</b> , 98, 1421-1445	5	5
123	Pull-in range of the PLL-based circuits with proportionally-integrating filter. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 720-724	0.7	5
122	Discontinuous differential equations: comparison of solution definitions and localization of hidden Chua attractors. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 408-413	0.7	5
121	BPSK Costas loop: Simulation of nonlinear models in MatLab Simulink <b>2014</b> ,		5
120	Control of pneumatically actuated 6-DOF Stewart platform for driving simulator <b>2014</b> ,		5
119	IWCFTA2012 Keynote Speech I - Hidden attractors in dynamical systems: From hidden oscillation in Hilbert-Kolmogorov, Aizerman and Kalman problems to hidden chaotic attractor in Chua circuits <b>2012</b> ,		5
118	Hidden oscillations in drilling system actuated by induction motor. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 86-89		5
117	Localization of hidden attractors of the generalized Chua system based on the method of harmonic balance. <i>Vestnik St Petersburg University: Mathematics</i> , <b>2010</b> , 43, 242-255	0.3	5
116	On counter-examples to Aizerman and Kalman conjectures. <i>International Journal of Control</i> , <b>2020</b> , 1-8	1.5	5
115	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> , <b>2020</b> , 30, 2050124	2	5
114	The Egan Problem on the Pull-in Range of Type 2 PLLs. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2021</b> , 68, 1467-1471	3.5	5
113	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> , <b>2018</b> , 73, 687-695	0.7	5
112	On Flutter Suppression in the Keldysh Model. <i>Doklady Physics</i> , <b>2018</b> , 63, 366-370	0.8	5
111	Parameter Switching Synchronization. <i>Applied Mathematics and Computation</i> , <b>2017</b> , 313, 94-102	2.7	4



110	Pull-in range of the classical PLL with impulse signals. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 562-567	0.7	4
109	Empirical model of pitch-angle distributions of trapped protons on the inner boundary of the Earth's radiation belt. <i>Cosmic Research</i> , <b>2012</b> , 50, 13-20	0.6	4
108	Nonlinear Phase Shift Compensator for Pilot-Induced Oscillations Prevention <b>2015</b> ,		4
107	Nonlinear Analysis of Phase-locked Loop-Based Circuits. <i>Advances in Dynamics, Patterns, Cognition</i> , <b>2014</b> , 169-192	0.7	4
106	Pattern generation in diffusive networks: How do those brainless centipedes walk? <b>2011</b> ,		4
105	COMPUTATION OF THE FIRST LYAPUNOV QUANTITY FOR THE SECOND-ORDER DYNAMICAL SYSTEM1 1This work was partly supported by the Dutch-Russian scientific cooperation programme 047.017.018, RFBR project 070100151, and grant of the President of the Russian Federation for supporting young scientists MK-112-2007-1, project of the Ministry of Education and Science of		4
104	Measurement of average projective ranges of ions with energies of hundreds and thousands of keV in silicon using the resistance technique. <i>Physica Status Solidi A</i> , <b>1980</b> , 62, 459-466		4
103	Nonlinear Models of BPSK Costas Loop <b>2014</b> ,		4
102	Drilling Systems: Stability and Hidden Oscillations. <i>Advances in Dynamics, Patterns, Cognition</i> , <b>2014</b> , 287-304		4
101	Nonlinear Analysis of Phase-Locked Loop (PLL): Global Stability Analysis, Hidden Oscillations and Simulation Problems <b>2014</b> , 199-207		4
100	Dynamics of the Shapovalov mid-size firm model. <i>Chaos, Solitons and Fractals</i> , <b>2020</b> , 140, 110239	9.3	4
99	Hidden Oscillations In The Closed-Loop Aircraft-Pilot System And Their Prevention. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 30-35	0.7	4
98	On asymmetric periodic solutions in relay feedback systems. <i>Journal of the Franklin Institute</i> , <b>2021</b> , 358, 363-383	4	4
97	Counterexamples to the Kalman Conjectures. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 138-143	0.7	4
96	Computation of lock-in range for classic PLL with lead-lag filter and impulse signals. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 42-44	0.7	3
95	Computation of the phase detector characteristic of a QPSK Costas loop. <i>Doklady Mathematics</i> , <b>2016</b> , 93, 348-353	0.7	3
94	Elegant analytic computation of phase detector characteristic for non-sinusoidal signals. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 960-963	0.7	3
93	Dynamics of a Stewart platform. <i>Vestnik St Petersburg University: Mathematics</i> , <b>2017</b> , 50, 297-309	0.3	3

92	A short survey on nonlinear models of QPSK Costas loop. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 6525-6533	0.7	3
91	Radiation environment at the end of active functioning of Vernov satellite. <i>Cosmic Research</i> , <b>2017</b> , 55, 464-468	0.6	3
90	Mathematical models of the Costas loop. <i>Doklady Mathematics</i> , <b>2015</b> , 92, 594-598	0.7	3
89	Convergence based anti-windup design method and its application to flight control <b>2012</b> ,		3
88	On the problem of lunar radiation environment. <i>Cosmic Research</i> , <b>2010</b> , 48, 509-516	0.6	3
87	Algorithm for construction of counterexamples to Aizerman's and Kalman's conjectures*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2010</b> , 43, 24-28		3
86	Pilot-Induced Oscillations and Their Prevention. <i>Lecture Notes in Networks and Systems</i> , <b>2020</b> , 108-123	0.5	3
85	Time-delay control for stabilization of the Shapovalov mid-size firm model. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 16971-16976	0.7	3
84	Existence of homoclinic orbits and heteroclinic cycle in a class of three-dimensional piecewise linear systems with three switching manifolds. <i>Chaos</i> , <b>2020</b> , 30, 123143	3.3	3
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