

# Aleksei A Koronovskii

## List of Publications by Year in descending order

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357  
papers

4,503  
citations

94269

37  
h-index

143772

57  
g-index

361  
all docs

361  
docs citations

361  
times ranked

1476  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis and Real-Time Classification of Motor-Related EEG and MEG Patterns. Springer Series in Synergetics, 2021, , 351-382.	0.2	0
2	Brief Tour of Wavelet Theory. Springer Series in Synergetics, 2021, , 15-73.	0.2	0
3	Wavelet Approach to the Study of Rhythmic Neuronal Activity. Springer Series in Synergetics, 2021, , 211-242.	0.2	0
4	Intermittency Near the Generalized Synchronization Boundary in Complex Attractor Topology Systems. Bulletin of the Russian Academy of Sciences: Physics, 2021, 85, 192-195.	0.1	3
5	Peculiarities of generalized synchronization in unidirectionally and mutually coupled time-delayed systems. Chaos, Solitons and Fractals, 2021, 148, 111031.	2.5	7
6	On multistability near the boundary of generalized synchronization in unidirectionally coupled chaotic systems. Chaos, 2021, 31, 083106.	1.0	7
7	Mathematical Methods of Signal Processing in Neuroscience. Springer Series in Synergetics, 2021, , 1-13.	0.2	0
8	Explosive Synchronization in Small-World Networks. , 2021, , .		0
9	Intermittent route to generalized synchronization in bidirectionally coupled chaotic oscillators. Chaos, 2020, 30, 083133.	1.0	6
10	A Modified Fluctuation Analysis of Nonstationary Processes. Technical Physics Letters, 2020, 46, 299-302.	0.2	1
11	The Correctness of Determining the Characteristics of Alternating Generalized Synchronization when Using Only One Variable for Slave and Auxiliary Systems. Technical Physics Letters, 2020, 46, 350-353.	0.2	0
12	Jump intermittency as a second type of transition to and from generalized synchronization. Physical Review E, 2020, 102, 012205.	0.8	9
13	Brain-computer interface for the epileptic seizures prediction and prevention. , 2020, , .		5
14	A Method of Determining the Characteristics of Intermittent Generalized Synchronization Based on the Calculation of Local Lyapunov Exponents. Technical Physics Letters, 2020, 46, 792-795.	0.2	1
15	Novel Schemes of High-Power Relativistic Vircators. , 2019, , .		0
16	O-Type Millimeter-Wave Band Devices on the Spiral Bent Rectangular Waveguide. , 2019, , .		0
17	Influence of Ionization Processes on Virtual Cathode Formation. , 2019, , .		0
18	Higher-order modes excitation in generator with photonic crystal. Results in Physics, 2019, 15, 102758.	2.0	5

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19	Hybrid Microwave Device Based on the Vircator with Additional Electrodynamic Section. , 2019, , .		0
20	Study of a Promising Electrodynamic Photonic Crystal-like Structure inside a Rectangular Waveguide. , 2019, , .		2
21	Feed-forward artificial neural network provides data-driven inference of functional connectivity. Chaos, 2019, 29, 091101.	1.0	31
22	Percept-related EEG classification using machine learning approach and features of functional brain connectivity. Chaos, 2019, 29, 093110.	1.0	26
23	Intermittency at the Boundary of Generalized Synchronization in Mutually Coupled Systems with Complex Attractor Topology. Technical Physics, 2019, 64, 302-305.	0.2	3
24	Experimental Observation of the Self-Oscillatory Dynamics of the Regulation Contours of the Cardiovascular System. Radiophysics and Quantum Electronics, 2019, 61, 681-688.	0.1	1
25	Research of Volume Free-Electron Laser with Photonic Crystal Structure for Operation in Sub-Terahertz Range. , 2019, , .		0
26	Design, Fabrication and Measurement a Promising Photonic Crystal-like Structure inside a Rectangular Waveguide. , 2019, , .		0
27	Synchronous regimes induced in semiconductor superlattices by a tilted magnetic field and external force. Bulletin of the Russian Academy of Sciences: Physics, 2018, 82, 102-104.	0.1	1
28	Modeling Instabilities in Relativistic Electronic Beams in the CST Particle Studio Environment. Mathematical Models and Computer Simulations, 2018, 10, 59-68.	0.1	11
29	Artificial neural network detects human uncertainty. Chaos, 2018, 28, 033607.	1.0	63
30	Coherence of Low-Frequency Oscillations of Electroencephalogram and the Process of Autonomous Regulation of Heart Rhythm. , 2018, , .		0
31	Characteristics of noise-induced intermittency. Chaos, Solitons and Fractals, 2018, 117, 269-275.	2.5	6
32	Double-Beam Millimeter-Wave Band BWT and TWT on a Spirally Bent Rectangular Waveguide. , 2018, , .		2
33	A Diagnostic Technique for Generalized Synchronization in Systems with a Complex Chaotic Attractor Topology. Technical Physics Letters, 2018, 44, 894-897.	0.2	2
34	Analyzing Complex Dynamic Modes in Different Modifications of Relativistic Generators on a Virtual Cathode. Bulletin of the Russian Academy of Sciences: Physics, 2018, 82, 1456-1460.	0.1	2
35	Effect of measuring noise on scaling characteristics in the dynamics of coupled chaotic systems. Chaos, Solitons and Fractals, 2018, 116, 106-113.	2.5	7
36	Multiscale neural connectivity during human sensory processing in the brain. Physical Review E, 2018, 97, 052405.	0.8	50

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37	Analysis of the dispersion characteristics of the photonic crystal in the generator with intense relativistic electron beam. , 2018, , .		0
38	A Method for Calculating the Spectrum of Lyapunov Exponents for Delay Systems. Technical Physics Letters, 2018, 44, 374-377.	0.2	8
39	Higher harmonics generation in low-voltage vircator system. , 2018, , .		3
40	Regularities and mechanisms of development of instabilities in the system with intense relativistic electron beam. , 2018, , .		0
41	High-efficiency virtual cathode oscillator with photonic crystal. Applied Physics Letters, 2018, 113, .	1.5	26
42	Processes of virtual cathodes interaction in multibeam system. Physics of Plasmas, 2018, 25, .	0.7	15
43	Studying noise-induced intermittency in multistable systems on the basis of reference systems. Bulletin of the Russian Academy of Sciences: Physics, 2018, 82, 87-89.	0.1	0
44	Synchronization of infra-slow oscillations of brain potentials with respiration. Chaos, 2018, 28, 081102.	1.0	25
45	Optimal spatiotemporal representation of multichannel EEG for recognition of brain states associated with distinct visual stimulus. , 2018, , .		3
46	STATISTICAL CHARACTERISTICS OF NOISE-INDUCED INTERMITTENCY IN MULTISTABLE SYSTEMS. Izvestiya Vysshikh Uchebnykh Zavedeniy Prikladnaya Nelineynaya Dinamika, 2018, 26, 80-89.	0.1	1
47	The study of human higher mental functions as they relate to neurophysiological processes and personal characteristics. , 2018, , .		0
48	Proepileptic patterns in EEG of WAG/Rij rats. , 2018, , .		0
49	Intermittent behavior in the brain neuronal network in the perception of ambiguous images. Proceedings of SPIE, 2017, , .	0.8	0
50	The control of the frequency of the sub-terahertz source on the semiconductor superlattices for biophysical applications with use the change of the doping density. Proceedings of SPIE, 2017, , .	0.8	0
51	Intermittent phase synchronization in human epileptic brain. , 2017, , .		4
52	Simulation of the development and interaction of instabilities in a relativistic electron beam under variation of the beam wall thickness. Plasma Physics Reports, 2017, 43, 346-353.	0.3	5
53	Effect of the form and localization of doping density perturbations on the current characteristics in a semiconductor superlattice. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 43-46.	0.1	3
54	Development of diocotron instability in the squeezed state of a relativistic electron beam. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 27-30.	0.1	7

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55	Model and software package for studying and optimizing generation characteristics of semiconductor superlattices. <i>Mathematical Models and Computer Simulations</i> , 2017, 9, 359-368.	0.1	1
56	Nonlinear dynamics and bifurcation mechanisms in intense electron beam with virtual cathode. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 2250-2255.	0.9	17
57	Absence Seizure Control by a Brain Computer Interface. <i>Scientific Reports</i> , 2017, 7, 2487.	1.6	91
58	Recognizing of stereotypic patterns in epileptic EEG using empirical modes and wavelets. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 486, 206-217.	1.2	30
59	Adaptive filtering of electroencephalogram signals using the empirical-modes method. <i>Technical Physics Letters</i> , 2017, 43, 619-622.	0.2	9
60	Amplification through chaotic synchronization in spatially extended beam-plasma systems. <i>Chaos</i> , 2017, 27, 126701.	1.0	4
61	Lyapunov analysis of the spatially discrete-continuous system dynamics. <i>Chaos, Solitons and Fractals</i> , 2017, 104, 228-237.	2.5	2
62	Macroscopic and microscopic spectral properties of brain networks during local and global synchronization. <i>Physical Review E</i> , 2017, 96, 012316.	0.8	61
63	The evolution of spatiotemporal chaos in a discrete-continuous active medium. <i>Technical Physics Letters</i> , 2017, 43, 587-589.	0.2	2
64	Self-similarity of the desynchronization process in a network of generalized Kuramoto oscillators. <i>Technical Physics Letters</i> , 2017, 43, 893-895.	0.2	1
65	Intermittency in electric brain activity in the perception of ambiguous images. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
66	Virpertron: A novel approach for a virtual cathode oscillator design. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	20
67	A method of distinguishing between the characteristic phases of behavior in complex networks in the intermittent generalized synchronization regime. <i>Technical Physics Letters</i> , 2017, 43, 328-330.	0.2	1
68	Resistant to noise chaotic communication scheme exploiting the regime of generalized synchronization. <i>Nonlinear Dynamics</i> , 2017, 87, 2039-2050.	2.7	16
69	Virtual cathode oscillator with elliptical resonator. , 2017, , .		7
70	Tunable high-power microwave source based on the squeezed state of relativistic electron beam. , 2017, , .		0
71	Study of multibeam relativistic vircator. , 2017, , .		1
72	Study of virpertron " Vircator with dielectric inserts. , 2017, , .		0

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73	Self-similarity in explosive synchronization of complex networks. <i>Physical Review E</i> , 2017, 96, 062312.	0.8	15
74	A study of the effect of random dopant-concentration fluctuations on current in semiconductor superlattices. <i>Technical Physics Letters</i> , 2017, 43, 912-915.	0.2	1
75	Efficient relativistic magnetron with lengthy virtual cathode formed using the magnetic mirror effect. , 2017, , .		3
76	Classifying the Perceptual Interpretations of a Bistable Image Using EEG and Artificial Neural Networks. <i>Frontiers in Neuroscience</i> , 2017, 11, 674.	1.4	72
77	Novel Relativistic Magnetron With Lengthy Virtual Cathode And Magnetic Mirror. , 2017, , .		0
78	Beam-plasma instability in charged plasma in the absence of ions. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	31
79	Recuperation in superpower Cherenkov generators with a nonuniform magnetic field. <i>Technical Physics</i> , 2016, 61, 1704-1710.	0.2	0
80	Space charge dynamics in a semiconductor superlattice affected by tilted magnetic field and heating. <i>Physics of Wave Phenomena</i> , 2016, 24, 103-107.	0.3	2
81	Increase of the power and frequency in the semiconductor sandwich heterostructures. , 2016, , .		0
82	Controlling of the electric field profile in the miniband semiconductors in the presence of THz Bloch oscillations. , 2016, , .		1
83	Perspective sub-THz powerful microwave generator "nanovircator" for T-rays biomedical diagnostics. <i>Proceedings of SPIE</i> , 2016, , .	0.8	10
84	Generalized synchronization in the complex network: theory and applications to epileptic brain. , 2016, , .		0
85	Analysis of the characteristics of the synchronous clusters in the adaptive Kuramoto network and neural network of the epileptic brain. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2
86	Analysis of the stability of states of semiconductor superlattice in the presence of tilted magnetic field. <i>Technical Physics</i> , 2016, 61, 317-323.	0.2	1
87	Investigation of beam-plasma instability in charged plasma in the absence of ions. , 2016, , .		1
88	Increase of generation frequency of relativistic electron beam with virtual cathode using the regimes with the developed instabilities. , 2016, , .		0
89	Nanovircator as perspective microelectronic source of subterahertz radiation. , 2016, , .		1
90	Establishing generalized synchronization in Rössler oscillator networks. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2016, 80, 186-189.	0.1	0

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91	3D simulation of electron beam squeezed-state generation in a two-section drift tube and analysis of its characteristics. Technical Physics Letters, 2016, 42, 792-795.	0.2	3
92	Simulation of axial virtual cathode oscillator with photonic crystal foil grid structure output in CST Particle Studio. , 2016, , .		1
93	Coexistence of intermittencies in the neuronal network of the epileptic brain. Physical Review E, 2016, 93, 032220.	0.8	22
94	Separation of coexisting dynamical regimes in multistate intermittency based on wavelet spectrum energies in an erbium-doped fiber laser. Physical Review E, 2016, 93, 052218.	0.8	13
95	Noise-induced binary synchronization in nonlinear systems. Technical Physics Letters, 2016, 42, 737-739.	0.2	0
96	Theoretical background and experimental measurements of human brain noise intensity in perception of ambiguous images. Chaos, Solitons and Fractals, 2016, 93, 201-206.	2.5	62
97	Excitation and suppression of chimera states by multiplexing. Physical Review E, 2016, 94, 052205.	0.8	119
98	Estimate of the degree of synchronization in the intermittent phase synchronization regime from a time series (model systems and neurophysiological data). JETP Letters, 2016, 103, 539-543.	0.4	4
99	Electric-field distribution in a quantum superlattice with an injecting contact: Exact solution. JETP Letters, 2016, 103, 465-470.	0.4	5
100	Rhythmic activity in EEG and sleep in rats with absence epilepsy. Brain Research Bulletin, 2016, 120, 106-116.	1.4	22
101	Estimation of degree of synchronization in epileptic brain. , 2016, , .		0
102	Multilayer structure formation via homophily and homeostasis. Proceedings of SPIE, 2016, , .	0.8	0
103	Analysis of the establishment of the global synchronization in complex networks with different topologies of links. Proceedings of SPIE, 2016, , .	0.8	0
104	Demonstration of brain noise on human EEG signals in perception of bistable images. Proceedings of SPIE, 2016, , .	0.8	3
105	Emergence of a multilayer structure in adaptive networks of phase oscillators. Chaos, Solitons and Fractals, 2016, 84, 23-30.	2.5	32
106	Binary generalized synchronization. Chaos, Solitons and Fractals, 2016, 83, 133-139.	2.5	8
107	Bifurcation phenomena in a semiconductor superlattice subject to a tilted magnetic field. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 98-105.	0.9	5
108	Manifestations of intermittency in unidirectionally coupled Pierce diodes on different time scales. Nonlinear Dynamics, 2016, 83, 433-439.	2.7	1

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109	Methods of automated absence seizure detection, interference by stimulation, and possibilities for prediction in genetic absence models. <i>Journal of Neuroscience Methods</i> , 2016, 260, 144-158.	1.3	63
110	Intermittency route to chaos and broadband high-frequency generation in semiconductor superlattice coupled to external resonator. <i>Physical Review E</i> , 2015, 92, 022911.	0.8	6
111	The development and interaction of instabilities in intense relativistic electron beams. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	23
112	Establishment of generalized synchronization in a network of logistic maps. <i>Technical Physics Letters</i> , 2015, 41, 765-767.	0.2	0
113	Chaos and its suppression in a system of two coupled Rydberg atoms. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2015, 79, 1432-1434.	0.1	2
114	Intermittency of intermittencies in characteristic oscillatory patterns on epileptic electroencephalograms. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2015, 79, 1484-1487.	0.1	0
115	Prospects of application of superconducting electrodynamic structures in electronic devices for their advancement to the terahertz range. <i>Technical Physics</i> , 2015, 60, 583-587.	0.2	1
116	The effect of the conductivity of drift chamber walls on the dynamics of a relativistic electron beam with a virtual cathode. <i>Technical Physics Letters</i> , 2015, 41, 1148-1151.	0.2	5
117	Sub-terahertz amplification in a semiconductor superlattice with moving charge domains. <i>Applied Physics Letters</i> , 2015, 106, 043503.	1.5	13
118	THz-generation in semiconductor superlattice in the external tilted magnetic field. , 2015, , .		1
119	Time-frequency analysis of epileptic EEG patterns by means of empirical modes and wavelets. , 2015, , .		3
120	Time-frequency dynamics during sleep spindles on the EEG in rodents with a genetic predisposition to absence epilepsy (WAG/Rij rats). <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
121	Brief Tour of Wavelet Theory. <i>Springer Series in Synergetics</i> , 2015, , 15-75.	0.2	0
122	Sub-THz/THz amplification in a semiconductor superlattice. , 2015, , .		0
123	Nanovircator: Promising THz electromagnetic radiation source. , 2015, , .		0
124	Detecting specific oscillatory modes in the dynamics of erbium-doped fiber laser. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2015, 79, 1499-1502.	0.1	0
125	High-frequency impedance of semiconductor superlattice elements in external resonance system. <i>Technical Physics Letters</i> , 2015, 41, 1181-1184.	0.2	0
126	Filtering as a way of varying the characteristics of intermittent behavior in two unidirectionally coupled tunnel diode generators. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2015, 79, 1503-1506.	0.1	0



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127	Effect of interminiband tunneling on complex processes in a semiconductor superlattice. Physics of Wave Phenomena, 2015, 23, 28-34.	0.3	3
128	Mathematical Methods of Signal Processing in Neuroscience. Springer Series in Synergetics, 2015, , 1-13.	0.2	1
129	Lyapunov exponent corresponding to enslaved phase dynamics: Estimation from time series. Physical Review E, 2015, 92, 012913.	0.8	8
130	The boundary of generalized synchronization in complex dynamic systems. Technical Physics Letters, 2015, 41, 683-686.	0.2	1
131	Effect of interminiband tunneling on the generation of current in a semiconducting superlattice. Technical Physics, 2015, 60, 541-545.	0.2	1
132	High-power microwave amplifier based on overcritical relativistic electron beam without external magnetic field. Applied Physics Letters, 2015, 106, .	1.5	17
133	A discrete time model system with "intermittent" intermittency. Technical Physics Letters, 2015, 41, 18-20.	0.2	2
134	Study of correlation between macroscopic and microscopic characteristics of adaptive networks with application to analysis of neural ensembles. , 2015, , .		0
135	Age-dependent seizures of absence epilepsy and sleep spindles dynamics in WAG/Rij rats. Proceedings of SPIE, 2015, , .	0.8	1
136	Wavelet Approach to the Study of Rhythmic Neuronal Activity. Springer Series in Synergetics, 2015, , 177-209.	0.2	1
137	Analysis of structural patterns in the brain with the complex network approach. Proceedings of SPIE, 2015, , .	0.8	2
138	Effect of the electron beam modulation on the sub-THz generation in the vircator with the field-emission cathode. Journal of Plasma Physics, 2015, 81, .	0.7	8
139	Studying transitions between different regimes of current oscillations generated in a semiconductor superlattice in the presence of a tilted magnetic field at various temperatures. Technical Physics Letters, 2015, 41, 768-770.	0.2	2
140	Vortex structures formation in ultrarelativistic electron beam with virtual cathode. , 2015, , .		0
141	Generation of higher harmonics in relativistic electron beam with virtual cathode. , 2015, , .		0
142	The effect of collector doping on the high-frequency generation in strongly coupled semiconductor superlattice. Europhysics Letters, 2015, 109, 47007.	0.7	7
143	Analytical expression for zero Lyapunov exponent of chaotic noised oscillators. Chaos, Solitons and Fractals, 2015, 78, 118-123.	2.5	5
144	The use of higher harmonics for Sub-THz generation in relativistic virtual cathode oscillator. , 2015, , .		1

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145	Intermittency of intermittencies at the phase synchronization boundary in the presence of noise. Technical Physics, 2015, 60, 933-936.	0.2	0
146	Wavelets in Neuroscience. Springer Series in Synergetics, 2015, , .	0.2	139
147	Automatic Diagnostics and Processing of EEG. Springer Series in Synergetics, 2015, , 253-312.	0.2	1
148	Time-frequency analysis of characteristic patterns of the activity of neuron ensembles in the brain by means of continuous wavelet transform. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 1242-1245.	0.1	2
149	Method of the calculation of spectrum of Lyapunov exponents for the analysis of dynamics of beam-plasma systems. , 2014, , .		1
150	Investigation and optimization of the double-gap vircator in CST Particle Studio. , 2014, , .		0
151	Transition to chaos and chaotic generation in a semiconductor superlattice coupled to an external resonator. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 1277-1280.	0.1	0
152	Generalized synchronization of coupled virtual cathode generators. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 1316-1319.	0.1	0
153	Investigating mechanisms of generation in a virtual cathode system using a 3D electron flow model. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 1313-1315.	0.1	2
154	Model for studying collective charge transport at the ohmic contacts of a tightly coupled semiconductor nanostructure. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 1285-1289.	0.1	0
155	Study of relativistic vircator in CST Particle Studio. , 2014, , .		0
156	Analysis of complex turbulent dynamics of an electron beam in a low-voltage vircator as a part of 3D electromagnetic simulation. , 2014, , .		0
157	Magnetically tunable reflection-type oscillator based on a gyro-TWT. Technical Physics Letters, 2014, 40, 1111-1113.	0.2	0
158	The effect of emitter and collector parameters on the collective electron transport properties in a semiconductor superlattice. , 2014, , .		0
159	Power of microwave radiation of the relativistic electron beam with virtual cathode in the external magnetic field. , 2014, , .		0
160	Higher harmonics generation in relativistic electron beam with virtual cathode. Physics of Plasmas, 2014, 21, .	0.7	24
161	Subterahertz Chaos Generation by Coupling a Superlattice to a Linear Resonator. Physical Review Letters, 2014, 112, 116603.	2.9	48
162	Secure communication using generalized synchronization in the case of the influence of chaotic signal on periodic generators. , 2014, , .		0

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163	Intermittent behavior near the synchronization threshold in system with fluctuating control parameter. <i>Europhysics Letters</i> , 2014, 105, 50003.	0.7	2
164	Astronomo-climatic cycles in the sequence of Upper Cretaceous sediments of the Saratov Volga Region. <i>Moscow University Geology Bulletin</i> , 2014, 69, 323-340.	0.0	2
165	Analyzing the structure of a complex network on the basis of its macroscopic characteristics. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2014, 78, 1281-1284.	0.1	2
166	Specific features of generalized synchronization in unidirectionally and mutually coupled mappings and flows: Method of phase tubes. <i>Journal of Communications Technology and Electronics</i> , 2014, 59, 1412-1422.	0.2	1
167	Using the spectrum of Lyapunov exponents to analyze the dynamics of beam-plasma systems simulated by the large particle method. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2014, 78, 156-159.	0.1	2
168	Fast algorithm for numerically integrating equations of motion for large particles in microwave devices. <i>Technical Physics</i> , 2014, 59, 318-324.	0.2	0
169	Developmental Changes in the Frequency-Time Structure of Sleep Spindles on the EEG in Rats with a Genetic Predisposition to Absence Epilepsy (WAG/Rij). <i>Neuroscience and Behavioral Physiology</i> , 2014, 44, 301-309.	0.2	4
170	Time-frequency characteristics and dynamics of sleep spindles in WAG/Rij rats with absence epilepsy. <i>Brain Research</i> , 2014, 1543, 290-299.	1.1	86
171	Optimization of the Double-Gap Vircator with Electromagnetic Feedback in CST Particle Studio. , 2014, , .		5
172	The effect of an external signal on output microwave power of a low-voltage vircator. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 2423-2428.	0.9	24
173	Generalized synchronization in the action of a chaotic signal on a periodic system. <i>Technical Physics</i> , 2014, 59, 629-636.	0.2	10
174	Cooperation of deterministic and stochastic mechanisms resulting in the intermittent behavior. <i>Chaos, Solitons and Fractals</i> , 2014, 68, 58-64.	2.5	5
175	Transition to chaos in semiconductor superlattice coupled to external resonator. , 2014, , .		0
176	Transition to microwave generation in semiconductor superlattice. <i>Physics of Wave Phenomena</i> , 2013, 21, 48-51.	0.3	7
177	Specific features of virtual cathode formation and dynamics with allowance for the magnetic self-field of a relativistic electron beam. <i>Plasma Physics Reports</i> , 2013, 39, 296-306.	0.3	5
178	Generalized synchronization in networks with a complicated topology of interelement couplings. <i>Journal of Communications Technology and Electronics</i> , 2013, 58, 459-468.	0.2	0
179	Intermittency of intermittencies. <i>Chaos</i> , 2013, 23, 033129.	1.0	14
180	Synchronization in the network of chaotic microwave oscillators. <i>European Physical Journal: Special Topics</i> , 2013, 222, 2571-2582.	1.2	18

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181	Intermittency near the phase boundary of chaotic synchronization in spatially extended systems. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 1460-1462.	0.1	1
182	Stability of the steady state in a strongly coupled semiconductor superlattice described using a semiclassical approach. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 1444-1447.	0.1	1
183	Effect of an external resonator on the space charge dynamics in a semiconductor superlattice. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 1436-1439.	0.1	0
184	Power of microwave generation in an ultrarelativistic electron beam in the regime of virtual cathode formation in an externally applied magnetic field. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 1448-1451.	0.1	1
185	Nonlinear dynamics of a generator on a virtual cathode with modulated emission. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 1452-1455.	0.1	2
186	Studying the behavior of local Lyapunov exponents near the boundaries of synchronous regime onset. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 1456-1459.	0.1	0
187	Microwave radiation power of relativistic electron beam with virtual cathode in the external magnetic field. Applied Physics Letters, 2013, 103, .	1.5	36
188	Formation and nonlinear dynamics of the squeezed state of a helical electron beam with additional deceleration. Plasma Physics Reports, 2013, 39, 925-935.	0.3	21
189	Emerging compressed states of a spiral electron stream in a system with deceleration. Technical Physics Letters, 2013, 39, 874-877.	0.2	1
190	Theoretical and numerical investigation of "intermittent" intermittency in coupled chaotic systems. Technical Physics Letters, 2013, 39, 626-628.	0.2	2
191	Adaptive wavelet transform-based method for recognizing characteristic oscillatory patterns. Journal of Communications Technology and Electronics, 2013, 58, 790-795.	0.2	6
192	Generalized synchronization in discrete maps. New point of view on weak and strong synchronization. Chaos, Solitons and Fractals, 2013, 46, 12-18.	2.5	20
193	Optimization of the parameters of a virtual-cathode oscillator with an inhomogeneous magnetic field. Technical Physics, 2013, 58, 1489-1497.	0.2	1
194	Serial identification of EEG patterns using adaptive wavelet-based analysis. European Physical Journal: Special Topics, 2013, 222, 2713-2722.	1.2	14
195	Lyapunov stability of charge transport in miniband semiconductor superlattices. Physical Review B, 2013, 88, .	1.1	25
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