Aleksei A Koronovskii

List of Publications by Year
in descending order

357	4,503	94269	143772
papers	citations	37 h-index	57 g-index

361	361	361	1476
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An approach to chaotic synchronization. Chaos, 2004, 14, 603-610.	1.0	165
2	Wavelets in Neuroscience. Springer Series in Synergetics, 2015, , .	0.2	139
3	Wavelet analysis in neurodynamics. Physics-Uspekhi, 2012, 55, 845-875.	0.8	125
4	Sleep spindles and spikeâ€“wave discharges in EEG: Their generic features, similarities and distinctions disclosed with Fourier transform and continuous wavelet analysis. Journal of Neuroscience Methods, 2009, 180, 304-316.	1.3	121
5	Excitation and suppression of chimera states by multiplexing. Physical Review E, 2016, 94, 052205.	0.8	119
6	Generalized synchronization: A modified system approach. Physical Review E, 2005, 71, 067201.	0.8	116
7	On the use of chaotic synchronization for secure communication. Physics-Uspekhi, 2009, 52, 1213-1238.	0.8	108
8	Generalized synchronization of chaos for secure communication: Remarkable stability to noise. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 2925-2931.	0.9	98
9	Absence Seizure Control by a Brain Computer Interface. Scientific Reports, 2017, 7, 2487.	1.6	91
10	Time-frequency characteristics and dynamics of sleep spindles in WAG/Rij rats with absence epilepsy. Brain Research, 2014, 1543, 290-299.	1.1	86
11	Time scale synchronization of chaotic oscillators. Physica D: Nonlinear Phenomena, 2005, 206, 252-264.	1.3	84
12	Spikeâ€“wave discharges in WAG/Rij rats are preceded by delta and theta precursor activity in cortex and thalamus. Clinical Neurophysiology, 2011, 122, 687-695.	0.7	82
13	Generalized synchronization onset. Europhysics Letters, 2005, 72, 901-907.	0.7	76
14	Ring Intermittency in Coupled Chaotic Oscillators at the Boundary of Phase Synchronization. Physical Review Letters, 2006, 97, 114101.	2.9	76
15	Intermittent generalized synchronization in unidirectionally coupled chaotic oscillators. Europhysics Letters, 2005, 70, 169-175.	0.7	72
16	Classifying the Perceptual Interpretations of a Bistable Image Using EEG and Artificial Neural Networks. Frontiers in Neuroscience, 2017, 11, 674.	1.4	72
17	Onâ€“off intermittency of thalamo-cortical oscillations in the electroencephalogram of rats with genetic predisposition to absence epilepsy. Brain Research, 2012, 1436, 147-156.	1.1	64
18	Methods of automated absence seizure detection, interference by stimulation, and possibilities for prediction in genetic absence models. Journal of Neuroscience Methods, 2016, 260, 144-158.	1.3	63

#	Article	IF	Citations
19	Artificial neural network detects human uncertainty. Chaos, 2018, 28, 033607.	1.0	63
20	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
21	Macroscopic and microscopic spectral properties of brain networks during local and global synchronization. Physical Review E, 2017, 96, 012316.	0.8	61
22	On-off intermittency in time series of spontaneous paroxysmal activity in rats with genetic absence epilepsy. Chaos, 2006, 16, 043111.	1.0	59
23	First Experimental Observation of Generalized Synchronization Phenomena in Microwave Oscillators. Physical Review Letters, 2009, 102, 074101.	2.9	57
24	Generalized synchronization in mutually coupled oscillators and complex networks. Physical Review E, 2012, 86, 036216.	0.8	51
25	Multiscale neural connectivity during human sensory processing in the brain. Physical Review E, 2018, 97, 052405.	0.8	50
26	Detecting synchronization of self-sustained oscillators by external driving with varying frequency. Physical Review E, 2006, 73, 026208.	0.8	48
27	Subterahertz Chaos Generation by Coupling a Superlattice to a Linear Resonator. Physical Review Letters, 2014, 112, 116603.	2.9	48
28	Detection of synchronization from univariate data using wavelet transform. Physical Review E, 2007, 75, 056207.	0.8	47
29	Synchronization of spectral components and its regularities in chaotic dynamical systems. Physical Review E, 2005, 71, 056204.	0.8	45
30	Generalized synchronization in coupled Ginzburg-Landau equations and mechanisms of its arising. Physical Review E, 2005, 72, 037201.	0.8	42
31	Length distribution of laminar phases for type-I intermittency in the presence of noise. Physical Review E, 2007, 76, 026206.	0.8	42
32	Are generalized synchronization and noise-induced synchronization identical types of synchronous behavior of chaotic oscillators?. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 354, 423-427.	0.9	41
33	Influence of background gas ionization on oscillations in a virtual cathode with a retarding potential. Physics of Plasmas, 2009, 16, 033106.	0.7	41
34	Experimental and theoretical investigations of stochastic oscillatory phenomena in a nonrelativistic electron beam with a virtual cathode. Plasma Physics Reports, 2005, 31, 938-952.	0.3	40
35	Zero Lyapunov exponent in the vicinity of the saddle-node bifurcation point in the presence of noise. Physical Review E, 2008, 78, 036212.	0.8	40
36	Chaotic synchronization in coupled spatially extended beamâ€“plasma systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 358, 301-308.	0.9	39

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37	Microwave radiation power of relativistic electron beam with virtual cathode in the external magnetic field. Applied Physics Letters, 2013, 103, .	1.5	36
38	Effect of temperature on resonant electron transport through stochastic conduction channels in superlattices. Physical Review B, 2011, 84, .	1.1	35
39	Chaotic synchronization of coupled electron-wave systems with backward waves. Chaos, 2005, 15, 013705.	1.0	33
40	Emergence of a multilayer structure in adaptive networks of phase oscillators. Chaos, Solitons and Fractals, 2016, 84, 23-30.	2.5	32
41	Beam-plasma instability in charged plasma in the absence of ions. Physics of Plasmas, 2016, 23, .	0.7	31
42	Feed-forward artificial neural network provides data-driven inference of functional connectivity. Chaos, 2019, 29, 091101.	1.0	31
43	Nearest neighbors, phase tubes, and generalized synchronization. Physical Review E, 2011, 84, 037201.	0.8	30
44	Recognizing of stereotypic patterns in epileptic EEG using empirical modes and wavelets. Physica A: Statistical Mechanics and Its Applications, 2017, 486, 206-217.	1.2	30
45	Computation of the spectrum of spatial Lyapunov exponents for the spatially extended beam-plasma systems and electron-wave devices. Physics of Plasmas, 2012, 19, .	0.7	28
46	Effect of self-magnetic fields on the nonlinear dynamics of relativistic electron beam with virtual cathode. Physics of Plasmas, 2012, 19, .	0.7	28
47	High-efficiency virtual cathode oscillator with photonic crystal. Applied Physics Letters, 2018, 113, .	1.5	26
48	Percept-related EEG classification using machine learning approach and features of functional brain connectivity. Chaos, 2019, 29, 093110.	1.0	26
49	Two types of phase synchronization destruction. Physical Review E, 2007, 75, 036205.	0.8	25
50	Lyapunov stability of charge transport in miniband semiconductor superlattices. Physical Review B, 2013, 88, .	1.1	25
51	Synchronization of infra-slow oscillations of brain potentials with respiration. Chaos, 2018, 28, 081102.	1.0	25
52	Wavelet transform analysis of the chaotic synchronization of dynamical systems. JETP Letters, 2004, 79, 316-319.	0.4	24
53	Numerical study of chaotic oscillations in the electron beam with virtual cathode in the external non-uniform magnetic fields. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 3057-3066.	0.9	24
54	Inapplicability of an auxiliary-system approach to chaotic oscillators with mutual-type coupling and complex networks. Physical Review E, 2013, 87, 064901.	0.8	24

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55	Higher harmonics generation in relativistic electron beam with virtual cathode. Physics of Plasmas, 2014, 21, .	0.7	24
56	The effect of an external signal on output microwave power of a low-voltage vircator. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2423-2428.	0.9	24
57	The development and interaction of instabilities in intense relativistic electron beams. Physics of Plasmas, 2015, 22, .	0.7	23
58	Type-I intermittency with noise versus eyelet intermittency. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1646-1652.	0.9	22
59	Coexistence of intermittencies in the neuronal network of the epileptic brain. Physical Review E, 2016, 93, 032220.	0.8	22
60	Rhythmic activity in EEG and sleep in rats with absence epilepsy. Brain Research Bulletin, 2016, 120, 106-116.	1.4	22
61	Controlling chaos in spatially extended beam-plasma system by the continuous delayed feedback. Chaos, 2006, 16, 013123.	1.0	21
62	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
63	Microwave generation power in a nonrelativistic electron beam with virtual cathode in a retarding electric field. Technical Physics Letters, 2006, 32, 402-405.	0.2	20
64	Effect of external magnetic field on critical current for the onset of virtual cathode oscillations in relativistic electron beams. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 876-883.	0.9	20
65	Type-II intermittency characteristics in the presence of noise. European Physical Journal B, 2008, 62, 447-452.	0.6	20
66	Incomplete noise-induced synchronization of spatially extended systems. Physical Review E, 2008, 77, 036215.	0.8	20
67	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
68	Virpertron: A novel approach for a virtual cathode oscillator design. Physics of Plasmas, 2017, 24, .	0.7	20
69	Output microwave radiation power of low-voltage vircator with external inhomogeneous magnetic field. Technical Physics Letters, 2011, 37, 356-359.	0.2	19
70	Method for diagnostics of characteristic patterns of observable time series and its real-time experimental implementation for neurophysiological signals. Technical Physics, 2011, 56, 1-7.	0.2	19
71	An effective wavelet analysis of the transition to chaos via intermittency. Technical Physics Letters, 2001, 27, 1-5.	0.2	18
72	Wavelet bicoherence analysis as a method for investigating coherent structures in an electron beam with an overcritical current. Plasma Physics Reports, 2002, 28, 666-681.	0.3	18

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73	Synchronization in the network of chaotic microwave oscillators. European Physical Journal: Special Topics, 2013, 222, 2571-2582.	1.2	18
74	SYNCHRONIZATION IN NETWORKS OF SLIGHTLY NONIDENTICAL ELEMENTS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 845-850.	0.7	17
75	Formation and dynamics of a virtual cathode in a tubular electron beam placed in a magnetic field. Technical Physics, 2009, 54, 1520-1528.	0.2	17
76	Hidden data transmission using generalized synchronization in the presence of noise. Technical Physics, 2010, 55, 435-441.	0.2	17
77	Chaotic oscillations in electron beam with virtual cathode in external magnetic field. International Journal of Electronics, 2011, 98, 1549-1564.	0.9	17
78	Generalized synchronization in complex networks. Technical Physics Letters, 2012, 38, 924-927.	0.2	17
79	High-power microwave amplifier based on overcritical relativistic electron beam without external magnetic field. Applied Physics Letters, 2015, 106, .	1.5	17
80	Nonlinear dynamics and bifurcation mechanisms in intense electron beam with virtual cathode. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2250-2255.	0.9	17
81	Synchronization in networks of spatially extended systems. Chaos, 2008, 18, 023133.	1.0	16
82	Resistant to noise chaotic communication scheme exploiting the regime of generalized synchronization. Nonlinear Dynamics, 2017, 87, 2039-2050.	2.7	16
83	Chaotic phase synchronization studied by means of continuous wavelet transform. Technical Physics Letters, 2004, 30, 587-590.	0.2	15
84	Nonlinear dynamics and chaotization of oscillations of a virtual cathode in an annular electron beam in a uniform external magnetic field. Plasma Physics Reports, 2009, 35, 628-642.	0.3	15
85	Ring intermittency near the boundary of the synchronous time scales of chaotic oscillators. Physical Review E, 2011, 83, 027201.	0.8	15
86	The effect of temperature on the nonlinear dynamics of charge in a semiconductor superlattice in the presence of a magnetic field. Journal of Experimental and Theoretical Physics, 2012, 114, 836-840.	0.2	15
87	Self-similarity in explosive synchronization of complex networks. Physical Review E, 2017, 96, 062312.	0.8	15
88	Processes of virtual cathodes interaction in multibeam system. Physics of Plasmas, 2018, 25, .	0.7	15
89	Analysis of the dependence of the microwave generation power of a low-voltage vircator on controlling parameters. Technical Physics, 2007, 52, 1387-1390.	0.2	14
90	Intermittency of intermittencies. Chaos, 2013, 23, 033129.	1.0	14

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91	Serial identification of EEG patterns using adaptive wavelet-based analysis. European Physical Journal: Special Topics, 2013, 222, 2713-2722.	1.2	14
92	Synchronization of Chaotic Oscillator Time Scales. Journal of Experimental and Theoretical Physics, 2005, 100, 784.	0.2	13
93	Mechanisms behind the generalized synchronization conditions. Technical Physics, 2006, 51, 143-150.	0.2	13
94	Sub-terahertz amplification in a semiconductor superlattice with moving charge domains. Applied Physics Letters, 2015, 106, 043503.	1.5	13
95	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
96	Generalized chaotic synchronization in coupled Ginzburg-Landau equations. Journal of Experimental and Theoretical Physics, 2006, 103, 654-665.	0.2	12
97	Analysis of the formation of structures and chaotic dynamics in a nonrelativistic electron beam with a virtual cathode in the presence of a decelerating field. Journal of Communications Technology and Electronics, 2007, 52, 45-57.	0.2	11
98	Effect of noise on generalized synchronization of chaos: theory and experiment. European Physical Journal B, 2011, 82, 69-82.	0.6	11
99	Modeling Instabilities in Relativistic Electronic Beams in the CST Particle Studio Environment. Mathematical Models and Computer Simulations, 2018, 10, 59-68.	0.1	11
100	Behavior of dynamical systems in the regime of transient chaos. Technical Physics Letters, 2003, 29, 923-926.	0.2	10
101	Generalized synchronization in the action of a chaotic signal on a periodic system. Technical Physics, 2014, 59, 629-636.	0.2	10
102	Perspective sub-THz powerful microwave generator "nanovircator" for T-rays biomedical diagnostics. Proceedings of SPIE, 2016, , .	0.8	10
103	Adaptive filtering of electroencephalogram signals using the empirical-modes method. Technical Physics Letters, 2017, 43, 619-622.	0.2	9
104	Jump intermittency as a second type of transition to and from generalized synchronization. Physical Review E, 2020, 102, 012205.	0.8	9
105	Dynamical control in multistable systems. Technical Physics Letters, 2004, 30, 186-189.	0.2	8
106	Synchronous behavior of coupled systems with discrete time. JETP Letters, 2005, 82, 160-163.	0.4	8
107	Generalized synchronization of chaotic oscillators. Technical Physics Letters, 2006, 32, 113-116.	0.2	8
108	Lyapunov exponent corresponding to enslaved phase dynamics: Estimation from time series. Physical Review E, 2015, 92, 012913.	0.8	8

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109	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
110	Binary generalized synchronization. Chaos, Solitons and Fractals, 2016, 83, 133-139.	2.5	8
111	A Method for Calculating the Spectrum of Lyapunov Exponents for Delay Systems. Technical Physics Letters, 2018, 44, 374-377.	0.2	8
112	Two scenarios of breaking chaotic phase synchronization. Technical Physics, 2007, 52, 19-26.	0.2	7
113	Automatic extraction and analysis of oscillatory patterns on nonstationary EEG signals by means of wavelet transform and the empirical modes method. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 1361-1364.	0.1	7
114	Transition to microwave generation in semiconductor superlattice. Physics of Wave Phenomena, 2013, 21, 48-51.	0.3	7
115	The effect of collector doping on the high-frequency generation in strongly coupled semiconductor superlattice. Europhysics Letters, 2015, 109, 47007.	0.7	7
116	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
117	Virtual cathode oscillator with elliptical resonator. , 2017, , .		7
118	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
119	Peculiarities of generalized synchronization in unidirectionally and mutually coupled time-delayed systems. Chaos, Solitons and Fractals, 2021, 148, 111031.	2.5	7
120	On multistability near the boundary of generalized synchronization in unidirectionally coupled chaotic systems. Chaos, 2021, 31, 083106.	1.0	7
121	Duration of the process of complete synchronization of two coupled identical chaotic systems. Technical Physics Letters, 2004, 30, 291-294.	0.2	6
122	Relationship between Phase Synchronization of Chaotic Oscillators and Time Scale Synchronization. Technical Physics Letters, 2005, 31, 847.	0.2	6
123	Appearance of generalized synchronization in mutually coupled beam-plasma systems. Technical Physics Letters, 2011, 37, 610-613.	0.2	6
124	Adaptive wavelet transform-based method for recognizing characteristic oscillatory patterns. Journal of Communications Technology and Electronics, 2013, 58, 790-795.	0.2	6
125	Intermittency route to chaos and broadband high-frequency generation in semiconductor superlattice coupled to external resonator. Physical Review E, 2015, 92, 022911.	0.8	6
126	Characteristics of noise-induced intermittency. Chaos, Solitons and Fractals, 2018, 117, 269-275.	2.5	6

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127	Intermittent route to generalized synchronization in bidirectionally coupled chaotic oscillators. Chaos, 2020, 30, 083133.	1.0	6
128	Method of studying the synchronization of self-sustained oscillations using continuous wavelet analysis of univariant data. Technical Physics, 2007, 52, 1106-1116.	0.2	5
129	Chaotic signal generation in low-voltage vircator with electron source shielded from external magnetic field. Technical Physics Letters, 2011, 37, 144-147.	0.2	5
130	Intermittent behavior at the boundary of noise-induced synchronization. Technical Physics, 2011, 56, 1369-1372.	0.2	5
131	Specific features of virtual cathode formation and dynamics with allowance for the magnetic self-field of a relativistic electron beam. Plasma Physics Reports, 2013, 39, 296-306.	0.3	5
132	Optimization of the Double-Gap Vircator with Electromagnetic Feedback in CST Particle Studio. , 2014, , .		5
133	Cooperation of deterministic and stochastic mechanisms resulting in the intermittent behavior. Chaos, Solitons and Fractals, 2014, 68, 58-64.	2.5	5
134	The effect of the conductivity of drift chamber walls on the dynamics of a relativistic electron beam with a virtual cathode. Technical Physics Letters, 2015, 41, 1148-1151.	0.2	5
135	Analytical expression for zero Lyapunov exponent of chaotic noised oscillators. Chaos, Solitons and Fractals, 2015, 78, 118-123.	2.5	5
136	Electric-field distribution in a quantum superlattice with an injecting contact: Exact solution. JETP Letters, 2016, 103, 465-470.	0.4	5
137	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
138	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
139	Higher-order modes excitation in generator with photonic crystal. Results in Physics, 2019, 15, 102758.	2.0	5
140	Brain-computer interface for the epileptic seizures prediction and prevention. , 2020, , .		5
141	Adaptive wavelets applied to the analysis of nonlinear systems with chaotic dynamics. Technical Physics Letters, 2003, 29, 775-778.	0.2	4
142	Spatiotemporal Chaos Synchronization in Beamâ€“Plasma Systems with Supercritical Current. Technical Physics Letters, 2005, 31, 221.	0.2	4
143	Regularities of alternate behavior in spontaneous nonconvulsive seizure activity in rats. Doklady Biological Sciences, 2006, 409, 275-277.	0.2	4
144	Generalized synchronization and noise-induced synchronization: The same type of behavior of coupled chaotic systems. Doklady Physics, 2006, 51, 189-192.	0.2	4

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145	Detecting unstable periodic spatio-temporal states of spatial extended chaotic systems. Europhysics Letters, 2007, 80, 10001.	0.7	4
146	Generalized synchronization in a system of coupled klystron chaotic oscillators. Technical Physics Letters, 2007, 33, 612-615.	0.2	4
147	Influence of noise on the behavior of oscillators near the synchronization boundary. Technical Physics, 2009, 54, 1403-1410.	0.2	4
148	Developmental Changes in the Frequency-Time Structure of Sleep Spindles on the EEG in Rats with a Genetic Predisposition to Absence Epilepsy (WAG/Rij). Neuroscience and Behavioral Physiology, 2014, 44, 301-309.	0.2	4
149	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
150	Intermittent phase synchronization in human epileptic brain. , 2017, , .		4
151	Amplification through chaotic synchronization in spatially extended beam-plasma systems. Chaos, 2017, 27, 126701.	1.0	4
152	Instability of periodic stationary waves in an active nonlinear medium with high-frequency losses. Technical Physics Letters, 1998, 24, 76-78.	0.2	3
153	Universal scaling laws of transients. Doklady Physics, 2002, 47, 181-183.	0.2	3
154	On the possibility of increasing the automodulation threshold in a gyro-oscillator with backward-wave and coupled electrodynamic systems. Technical Physics Letters, 2003, 29, 160-163.	0.2	3
155	New universality type in chaotic synchronization of dynamic systems. JETP Letters, 2004, 80, 20-22.	0.4	3
156	Generalized synchronization of chaotic oscillators as a partial case of time scale synchronization. Technical Physics Letters, 2004, 30, 998-1001.	0.2	3
157	Relationship between the spectra of time series of a flow system and its recurrent map. Technical Physics Letters, 2006, 32, 864-867.	0.2	3
158	The threshold of generalized synchronization of chaotic oscillators. Journal of Communications Technology and Electronics, 2007, 52, 881-890.	0.2	3
159	Nonlinear nonstationary processes in a pair of coupled gyro-backward-wave oscillators. Technical Physics, 2009, 54, 775-782.	0.2	3
160	Diagnostics of the generalized synchronization in microwave generators of chaos. Physics of Wave Phenomena, 2010, 18, 51-56.	0.3	3
161	Experimental study of the time-scale synchronization in the presence of noise. Physics of Wave Phenomena, 2010, 18, 262-266.	0.3	3
162	Theoretical and experimental analysis of the microwave radiation power of a generator on a virtual cathode subjected to external harmonic exposure. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 1329-1332.	0.1	3

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163	High-frequency impedance and absorption of a semiconductor lattice upon an external periodic perturbation. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 1316-1318.	0.1	3
164	Time-frequency analysis of epileptic EEG patterns by means of empirical modes and wavelets. , 2015, , .		3
165	Effect of interminiband tunneling on complex processes in a semiconductor superlattice. Physics of Wave Phenomena, 2015, 23, 28-34.	0.3	3
166	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
167	Demonstration of brain noise on human EEG signals in perception of bistable images. Proceedings of SPIE, 2016, , .	0.8	3
168	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
169	Efficient relativistic magnetron with lengthy virtual cathode formed using the magnetic mirror effect. , 2017, , .		3
170	Higher harmonics generation in low-voltage vircator system. , 2018, , .		3
171	Intermittency at the Boundary of Generalized Synchronization in Mutually Coupled Systems with Complex Attractor Topology. Technical Physics, 2019, 64, 302-305.	0.2	3
172	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
173	Optimal spatiotemporal representation of multichannel EEG for recognition of brain states associated with distinct visual stimulus. , 2018, , .		3
174	A method for determining the transient process duration in dynamic systems in the regime of chaotic oscillations. Technical Physics Letters, 2003, 29, 323-326.	0.2	2
175	The time of synchronization of oscillations in two coupled identical subsystems. Technical Physics Letters, 2004, 30, 253-255.	0.2	2
176	Synchronization of spectral components of coupled chaotic oscillators. Technical Physics Letters, 2004, 30, 779-783.	0.2	2
177	Diagnostics of the synchronization of self-oscillatory systems by an external force with varying frequency with the use of wavelet analysis. Journal of Communications Technology and Electronics, 2007, 52, 544-554.	0.2	2
178	Chaotic wideband microwave oscillations in a hybrid system consisting of a traveling wave tube and a collector oscillator. Technical Physics, 2008, 53, 614-619.	0.2	2
179	Theoretical investigation of the generalized synchronization of dissipative coupled chaotic systems in the presence of noise. Bulletin of the Russian Academy of Sciences: Physics, 2009, 73, 1616-1619.	0.1	2
180	On the spectrum of spatial Lyapunov exponents for a nonlinear active medium described by a complex Ginzburg-Landau equation. Technical Physics Letters, 2010, 36, 645-647.	0.2	2

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181	Effect of external signal on the output power of an oscillator with electron feedback. Technical Physics Letters, 2012, 38, 1040-1044.	0.2	2
182	Experimental and theoretical investigations of the influence of the external noise on dynamics of a klystron oscillator. Journal of Communications Technology and Electronics, 2012, 57, 45-53.	0.2	2
183	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
184	Theoretical and numerical investigation of â€œintermittentâ€•intermittency in coupled chaotic systems. Technical Physics Letters, 2013, 39, 626-628.	0.2	2
185	Adaptive wavelet-based recognition of oscillatory patterns on electroencephalograms. , 2013, , .		2
186	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
187	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
188	Intermittent behavior near the synchronization threshold in system with fluctuating control parameter. Europhysics Letters, 2014, 105, 50003.	0.7	2
189	Astronomo-climatic cycles in the sequence of Upper Cretaceous sediments of the Saratov Volga Region. Moscow University Geology Bulletin, 2014, 69, 323-340.	0.0	2
190	Analyzing the structure of a complex network on the basis of its macroscopic characteristics. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 1281-1284.	0.1	2
191	Using the spectrum of Lyapunov exponents to analyze the dynamics of beam-plasma systems simulated by the large particle method. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 156-159.	0.1	2
192	Chaos and its suppression in a system of two coupled Rydberg atoms. Bulletin of the Russian Academy of Sciences: Physics, 2015, 79, 1432-1434.	0.1	2
193	A discrete time model system with â€œintermittentâ€•intermittency. Technical Physics Letters, 2015, 41, 18-20.	0.2	2
194	Analysis of structural patterns in the brain with the complex network approach. Proceedings of SPIE, 2015, , .	0.8	2
195	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
196	Space charge dynamics in a semiconductor superlattice affected by titled magnetic field and heating. Physics of Wave Phenomena, 2016, 24, 103-107.	0.3	2
197	Analysis of the characteristics of the synchronous clusters in the adaptive Kuramoto network and neural network of the epileptic brain. Proceedings of SPIE, 2016, , .	0.8	2
198	Lyapunov analysis of the spatially discrete-continuous system dynamics. Chaos, Solitons and Fractals, 2017, 104, 228-237.	2.5	2

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