

# Andriy O Semenov

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

257  
citations

2258059

3  
h-index

1720034

7  
g-index

64  
all docs

64  
docs citations

64  
times ranked

110  
citing authors

#	ARTICLE	IF	CITATIONS
1	The chaos oscillator with inertial non-linearity based on a transistor structure with negative resistance. , 2016, , .		20
2	The Van der Pol's mathematical model of the voltage-controlled oscillator based on a transistor structure with negative resistance. , 2016, , .		17
3	Experimental research and simulation of microwave oscillator based on structure of static inductance transistor with negative resistance. , 2010, , .		15
4	The UHF oscillators based on a HEMT structure with negative conductivity. , 2015, , .		14
5	Mathematical simulation of the chaotic oscillator based on a field-effect transistor structure with negative resistance. , 2016, , .		14
6	Strapdown Inertial Navigation Systems for Positioning Mobile Robotsâ€™MEMS Gyroscopes Random Errors Analysis Using Allan Variance Method. Sensors, 2020, 20, 4841.	3.8	13
7	Routing in telecommunication networks using fuzzy logic. , 2016, , .		12
8	Access fuzzy controller for CDMA networks. , 2013, , .		11
9	A Hybrid Approach to Call Admission Control in 5G Networks. Advances in Fuzzy Systems, 2018, 2018, 1-7.	0.9	11
10	The fuzzy-controller for WiMAX networks. , 2015, , .		9
11	Reviewing the mathematical models and electrical circuits of deterministic chaos transistor oscillators. , 2016, , .		9
12	Statistical Express Control of the Peak Values of the Differential-Thermal Analysis of Solid Materials. Solid State Phenomena, 0, 291, 28-41.	0.3	9
13	Signal Statistic and Informational Parameters of Deterministic Chaos Transistor Oscillators for Infocommunication Systems. , 2018, , .		8
14	A Deterministic Chaos Ring Oscillator Based on a MOS Transistor Structure with Negative Differential Resistance. , 2019, , .		7
15	Mathematical model of the microelectronic oscillator based on the BJT-MOSFET structure with negative differential resistance. , 2017, , .		6
16	Real-Time Video Processing System based on Field Programmable Gate Array. , 2019, , .		6
17	Neuro-Fuzzy Controller for Handover Operation in 5G Heterogeneous Networks. , 2019, , .		4
18	Microwave Oscillator on Transistor Structures with Dielectric Resonators. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
19	Development of a non-standard system of microwave quadripoles parameters. , 2019, , .		4
20	Mathematical Model of Microwave Devices on Resonant Tunneling Diodes for Practical Application in Radar and Electronic Systems. , 2020, , .		4
21	Deterministic chaos oscillator based on a bipolar and field-effect transistor structure with negative resistance. , 2016, , .		3
22	The neuro-fuzzy controller for handover operation in mobile networks. , 2017, , .		3
23	Mathematical modeling of the two-stage chaotic colpitts oscillator. , 2018, , .		3
24	Differential method for measuring the maximum achievable transmission coefficient of active microwave quadripole. Journal of Physics: Conference Series, 2019, 1210, 012125.	0.4	3
25	Observation Trajectory Model for Radio-Frequency Aviation Landing Systems. , 2019, , .		3
26	Development and Research of Models and Processes of Formation in Silicon Plates p-n Junctions and Hidden Layers under the Influence of Ultrasonic Vibrations and Mechanical Stresses. Key Engineering Materials, 2020, 844, 155-167.	0.4	3
27	Numerical method for processing frequency measuring signals from microelectronic sensors based on transistor structures with negative differential resistance. , 2019, , .		3
28	Increasing the sensitivity of measurement of a moisture content in crude oil. Naukovi Visnyk Natsionalnoho Hirnychoho Universytetu, 2020, , 49-53.	0.7	3
29	Study of phase and amplitude-phase methods for measuring a reactive element quality factor. Measurement: Journal of the International Measurement Confederation, 2022, 187, 110271.	5.0	3
30	Numerical Simulation of the Chua's Oscillator Based on a MOSFET Structure with a Cubic Nonlinearity. , 2018, , .		2
31	Frequency Divider Based on a Transistor Structure with Negative Resistance and an I-V curve of $\hat{b}$ -type. , 2018, , .		2
32	Numerical study of the deterministic chaos oscillator with a differential integral element on the colpitts circuit. , 2018, , .		2
33	Nanoelectronic Pressure Transducer with a Frequency Output Based on a Resonance Tunnel Diode. , 2020, , .		2
34	Simulation of the Chaotic Dynamics of the Deterministic Chaos Transistor Oscillator based on the Hartley Circuit. , 2020, , .		2
35	USING STEALTH TECHNOLOGIES IN MOBILE ROBOTIC COMPLEXES AND METHODS OF DETECTION OF LOW-SIGHTED OBJECTS. Informatyka Automatyka Pomiaru W Gospodarce I Ochronie Āšrodowiska, 2021, 11, 4-8.	0.4	2
36	Research of Dynamic Processes in the Deterministic Chaos Oscillator Based on the Colpitts Scheme and Optimization of Its Self-oscillatory System Parameters. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 181-205.	0.7	2

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37	The Neural Network for Vertical Handover Procedure. , 2020, , .		2
38	Comparative analysis of radiomeasuring frequency converters of the magnetic field. , 2016, , .		1
39	Numerical researching the radiofrequency Chua's oscillator based on a device with negative differential resistance. , 2017, , .		1
40	Van der Pol Oscillators Based on Transistor Structures with Negative Differential Resistance for Infocommunication System Facilities. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 43-78.	0.7	1
41	Design of Spectrum Analyzer for Radio Signals. , 2021, , .		1
42	Research of Electromagnetic Compatibility of Electronic Automotive Equipment. , 2021, , .		1
43	Measuring quality factors of the radio-frequency system components using equivalent circuits. Journal of Computational Electronics, 2021, 20, 1977-1991.	2.5	1
44	Radiomeasuring Optical-Frequency Converters Based on Reactive Properties of Transistor Structures with Negative Differential Resistance. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 229-261.	0.7	1
45	Developing and Investigating the Analyzers of Kinematic Viscosity and Density of Petroleum Products on Throttle Bridge Transducers. Inventions, 2022, 7, 6.	2.5	1
46	Physical Parameters of the Synthesized Semiconductor Material Based on a Heterometallic Complex Compound of Copper (II) with N, N'-Bis(Salicylidene)Semicarbazide. , 2022, , .		1
47	The fuzzy neural networks with ternary encoding. , 2013, , .		0
48	The additive white Gaussian noise impact on the deterministic chaos oscillator based on a field-effect transistor structure with negative resistance. , 2016, , .		0
49	Radiofrequency deterministic chaos oscillator based on a transistor structure with negative resistance. Numerical researching. , 2017, , .		0
50	Experimental research of the deterministic chaos oscillator based on a bipolar transistor structure with negative differential resistance. , 2017, , .		0
51	Modeling the deterministic chaos microelectronic oscillator based on the bipolar transistor structure with negative resistance. , 2017, , .		0
52	The neuro-fuzzy controller for routing in telecommunication networks. , 2017, , .		0
53	Numerical method for processing frequency measuring signals from microelectronic sensors based on transistor structures with negative resistance. , 2017, , .		0
54	Access neuro-fuzzy controller for W-CDMA networks. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
55	Pulse and Multifrequency Van der Pol Generators Based on Transistor Structures with Negative Differential Resistance for Infocommunication System Facilities. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 127-158.	0.7	0
56	Genetic ANFIS for scheduling in telecommunication networks. , 2018, , .		0
57	Computer-measuring system of the induction motor's dynamical torque-speed characteristics. Bulletin of the Karaganda University Physics Series, 2019, 94, 92-100.	0.2	0
58	Applying artificial intelligence for cellular networks optimization. , 2019, , .		0
59	Single-Mode and Multimode Operation of the Rectangular Waveguide with a Spherical Ferrite Probe. , 2021, , .		0
60	IMPROVEMENT OF PARAMETERS OF ACTIVE FILTERS FOR PROCESSING OF MEASURING ELECTRICAL SIGNALS FROM PRIMARY SENSORS OF SENSORS. Ukrainian Metrological Journal, 2020, .	0.1	0
61	Optical Sensor with Frequency Output Based on Resonant Tunneling Diode. , 2022, , .		0
62	Design of Digital Data Selectors on FPGA in a Laboratory Environment. , 2021, , .		0
63	Study of the radiation pattern of a rectangular horn antenna in the operation of multimode propagation of electromagnetic waves. Technology Audit and Production Reserves, 2022, 2, 50-55.	0.2	0