

Ainur Kozbakova

List of Publications by Year in descending order

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Version: 2024-02-01

180
papers

987
citations

759233

12
h-index

552781

26
g-index

180
all docs

180
docs citations

180
times ranked

1123
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of an information system and software for effective building evacuation plan. Eastern-European Journal of Enterprise Technologies, 2022, 2, 36-50.	0.5	0
2	DYNAMICS OF THE CONVEYOR SPEED STABILIZATION SYSTEM AT VARIABLE LOADS. Informatyka Automatyka Pomiary W Gospodarce I Ochronie Āšrodowiska, 2022, 12, 60-63.	0.4	0
3	Development of a systematic approach and mathematical support for the evacuation process. Eastern-European Journal of Enterprise Technologies, 2021, 3, 31-42.	0.5	0
4	Interrogation system of signals from rotation sensors using tilted fiber Bragg gratings. Cogent Engineering, 2020, 7, 1743405.	2.2	1
5	Development Of Experimental-Trial Pattern Of Double-Circuit Solar Installation. , 2020, , .		0
6	Mathematical justification of thermosyphon effect main parameters for solar heating system. Cogent Engineering, 2020, 7, 1851629.	2.2	7
7	Features of image analysis under UV-video dermoscopy. , 2020, , .		3
8	Technology of infrared radiation polarizer. , 2020, , .		0
9	Study of convective heat transfer in flat plate solar collectors. ITM Web of Conferences, 2019, 24, 01009.	0.5	2
10	Development of energy-efficient vibration machines for the buiding-and-contruction industry. Przegląd Elektrotechniczny, 2019, 1, 55-61.	0.2	4
11	Spectral properties of Tilted Bragg Gratings with different tilt angles and variable surrounding conditions. Przegląd Elektrotechniczny, 2019, 1, 187-190.	0.2	0
12	EXERGY ANALYSIS OF DOUBLE-CIRCUIT FLAT SOLAR COLLECTOR WITH THERMOSYPHON CIRCULATION. Informatyka Automatyka Pomiary W Gospodarce I Ochronie Āšrodowiska, 2019, 9, 35-39.	0.4	0
13	THEORETICAL PREREQUISITES OF ELECTRIC WATER HEATING IN SOLAR COLLECTOR-ACCUMULATOR. News of the National Academy of Sciences of the Republic of Kazakhstan, Series of Geology and Technical Sciences, 2019, 6, 54-63.	0.2	1
14	Photonic Crystal Fiber Dynamic Pressure Sensor. , 2018, , .		0
15	Calculation and Selection of Flat-Plate Solar Collector Geometric Parameters with Thermosiphon Circulation. Journal of Ecological Engineering, 2018, 19, 176-181.	1.1	10
16	Intelligent management system of production and quality products for the small and medium business enterprises. Przegląd Elektrotechniczny, 2018, 1, 154-158.	0.2	2
17	Speech Recognizer-Based Non-Uniform Spectral Compression for Robust MFCC Feature Extraction. Przegląd Elektrotechniczny, 2018, 1, 92-95.	0.2	3
18	RESEARCH AND OPTIMIZATION OF BRAGG FIBER-OPTIC PARAMETERS. News of the National Academy of Sciences of the Republic of Kazakhstan, Series of Geology and Technical Sciences, 2018, 6, 137-152.	0.2	0

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19	Montgomery and informed consent: where are we now?. BMJ: British Medical Journal, 2017, 357, j2224.	2.3	212
20	Bio-inspired approach to multistage image processing. Proceedings of SPIE, 2017, , .	0.8	11
21	Method of magneto-elastic control of mechanic rigidity in assemblies of hydropower units. , 2017, , .		13
22	Vibration diagnostic system for evaluation of state interconnected electrical motors mechanical parameters. Proceedings of SPIE, 2017, , .	0.8	11
23	The spectral method of jitter estimation in fiber optics transmission systems. Proceedings of SPIE, 2017, , .	0.8	1
24	Automated method for structural segmentation of nasal airways based on cone beam computed tomography. , 2017, , .		6
25	High-speed counters in Fibonacci numerical system. , 2017, , .		1
26	Gas sensitive material on the basis of cholesteric-nematic mixture doped carbon nanotubes for optoelectronic NH ₃ gas sensor. Proceedings of SPIE, 2017, , .	0.8	0
27	Medical expert system for assessment of coronary heart disease destabilization based on the analysis of the level of soluble vascular adhesion molecules. Proceedings of SPIE, 2017, , .	0.8	16
28	Safety recommendation component of mobile information assistant of the tourist. Proceedings of SPIE, 2017, , .	0.8	5
29	Neural expert decision support system for stroke diagnosis. , 2017, , .		1
30	In-vivo monitoring of oxygen saturation in murine carcinoma during PDT by diode laser light diffuse reflectance. , 2017, , .		0
31	Risk assessment of bronchial asthma development in children with atopic dermatitis. Proceedings of SPIE, 2017, , .	0.8	0
32	Design and kinematics of serial/parallel hybrid robot. , 2017, , .		8
33	Instrument for Determining the Particle Size Distribution of Grain by Sedimentometric Analysis. Measurement Techniques, 2017, 60, 968-972.	0.6	0
34	Cauchy Problem for System of the Burgers Equations Arising in the Two-velocity Hydrodynamics. Mathematical Modelling of Natural Phenomena, 2017, 12, 134-138.	2.4	1
35	Optical transducers with frequency output. , 2017, , .		6
36	Offsetting, relations, and blending with perturbation functions. Proceedings of SPIE, 2017, , .	0.8	12

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37	Concept of information technology of monitoring and decision-making support. , 2017, , .		1
38	Highly sensitive active medium of primary converter SO ₂ sensors based on cholesteric-nematic mixtures, doped by carbon nanotubes. Przegląd Elektrotechniczny, 2017, 1, 119-122.	0.2	9
39	Principles of computer planning in the functional nasal surgery. Przegląd Elektrotechniczny, 2017, 1, 142-145.	0.2	8
40	Colorimeter based on color sensor. Przegląd Elektrotechniczny, 2017, 1, 98-103.	0.2	2
41	Construction of Individual Trajectories of Training Specialists in the Field of Information and Communication Technologies. Journal of Automation and Information Sciences, 2017, 49, 36-46.	0.7	8
42	EMPLOYING OPTICAL MEASUREMENTS FOR MONITORING AND DIAGNOSTICS OF COMBUSTION PROCESS IN INDUSTRIAL CONDITIONS. Journal of Ecological Engineering, 2017, 18, 273-283.	1.1	1
43	DEVELOPMENT OF A COMPUTER SYSTEM FOR IDENTITY AUTHENTICATION USING ARTIFICIAL NEURAL NETWORKS. Image Analysis and Stereology, 2017, 36, 51.	0.9	1
44	New non-system physical quantities for vibration monitoring of transient processes at hydropower facilities, integral vibratory accelerations. Przegląd Elektrotechniczny, 2017, 1, 71-74.	0.2	11
45	Discrete wavelet transformation in spectral analysis of vibration processes at hydropower units. Przegląd Elektrotechniczny, 2017, 1, 67-70.	0.2	7
46	Research of alternative diagnostic features in intelligent computer-based cardiological decision support systems. Przegląd Elektrotechniczny, 2017, 1, 127-130.	0.2	0
47	Mathematical control system of grid-tied multilevel voltage inverter. Przegląd Elektrotechniczny, 2017, 1, 135-141.	0.2	1
48	Measuring of the relative milk mass fraction in water-milk solution. Przegląd Elektrotechniczny, 2017, 1, 85-89.	0.2	0
49	Multispectral method and means for determining the distance of the shot on the basis of the study of gunshot injuries of the skin tissues. Przegląd Elektrotechniczny, 2017, 1, 131-134.	0.2	0
50	Electro-optical system for the automated selection of dental implants according to their colour matching. Przegląd Elektrotechniczny, 2017, 1, 123-126.	0.2	3
51	Basis of the necessity of the thermal modelling and analysis of its problem. Przegląd Elektrotechniczny, 2017, 1, 136-139.	0.2	0
52	Analysis of the vascular tone and character of the local blood flow to assess the viability of the body using the photoplethysmographic device. Przegląd Elektrotechniczny, 2017, 1, 94-97.	0.2	2
53	Analysis of microcirculatory disorders in inflammatory processes in the maxillofacial region on based of optoelectronic methods. Przegląd Elektrotechniczny, 2017, 1, 116-119.	0.2	5
54	Water recycling automation of car wash with cleaning channel and changeable adsorptive plate holders. Przegląd Elektrotechniczny, 2017, 1, 146-149.	0.2	0

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55	Fast ray casting of function-based surfaces. Przegląd Elektrotechniczny, 2017, 1, 85-88.	0.2	1
56	Calibration of the metrological characteristics of photoplethysmographic multispectral device for diagnosis the peripheral blood circulation. Przegląd Elektrotechniczny, 2017, 1, 81-84.	0.2	3
57	Application of Virtual Training Model for Technological Processes. Przegląd Elektrotechniczny, 2017, 1, 131-135.	0.2	0
58	Analysis of the physical foundations of the build quality of the diagnosis structures based on electronic means of recording and analyzing the parameters of electromagnetic radiation mechanical contact connections. Przegląd Elektrotechniczny, 2017, 1, 140-145.	0.2	2
59	The improvement of the volumetric monitoring system to raise the analysis accuracy for the allergic pollen found in the city atmosphere. Przegląd Elektrotechniczny, 2017, 1, 89-93.	0.2	0
60	Problem of placement of the minimal number of cameras at a given transport network. Przegląd Elektrotechniczny, 2017, 1, 139-142.	0.2	0
61	The human body metabolism process mathematical simulation based on Lotka-Volterra model. , 2017, , .		0
62	Computer-aided system for interactive psychomotor testing. , 2017, , .		2
63	Principles of operation of high voltage glow discharge electron guns and some possibilities of their technological application. , 2017, , .		7
64	The efficiency analysis of HTTP/2 protocol. , 2017, , .		1
65	Opportunistic tri-band carrier aggregation in licensed spectrum for multi-operator 5G hetnet. Proceedings of SPIE, 2017, , .	0.8	0
66	Diagnosis abnormalities of limb movement in disorders of the nervous system. , 2017, , .		4
67	Efficiency of optical-electronic systems: methods application for the analysis of structural changes in the process of eye grounds diagnosis. , 2017, , .		1
68	Study of the air flow mode in the nasal cavity during a forced breath. Proceedings of SPIE, 2017, , .	0.8	5
69	Simulation of data safety components for corporate systems. , 2017, , .		1
70	Functional integration of automated system databases by means of artificial intelligence. Proceedings of SPIE, 2017, , .	0.8	0
71	Quality of content delivery in computer specialists training system. , 2017, , .		2
72	Physical-mathematical model of optical radiation interaction with biological tissues. , 2017, , .		1

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73	Thermo-optical method and a means of measuring mass fraction control of liquefied petroleum gas components. Proceedings of SPIE, 2017, , .	0.8	0
74	Threats and risks to information security: a practical analysis of free access wireless networks. , 2017, , .		0
75	Method of image texture segmentation using Laws' energy measures. Proceedings of SPIE, 2017, , .	0.8	5
76	Mathematical models of production systems development based on optimal aggregation methodology. , 2017, , .		2
77	Using lights in a volume-oriented rendering. Proceedings of SPIE, 2017, , .	0.8	6
78	System and algorithm for evaluation of human auditory analyzer state. , 2017, , .		1
79	The approach to engineering tasks composition on knowledge portals. , 2017, , .		3
80	Identification and human condition analysis based on the human voice analysis. Proceedings of SPIE, 2017, , .	0.8	0
81	3D Modelling of Distribution of Temperature Field in The Rolling Mill. Journal of Ecological Engineering, 2017, 18, 1-7.	1.1	6
82	To the theory of modeling of electric power and electric contact systems. Open Engineering, 2016, 6, .	1.6	0
83	Software development for the economic model of R.Barro. Open Engineering, 2016, 6, .	1.6	0
84	Life events and escape in conversion disorder. Psychological Medicine, 2016, 46, 2617-2626.	4.5	76
85	Improving the quality perception of digital images using modified method of the eye aberration correction. Proceedings of SPIE, 2016, , .	0.8	5
86	Deterministic chaos in RL-diode circuits and its application in metrology. , 2016, , .		2
87	First results in the development of a mobile robot with trajectory planning and object recognition capabilities. Open Engineering, 2016, 6, .	1.6	1
88	The use of statistical characteristics of measured signals to increasing the reliability of the rhinomanometric diagnosis. Proceedings of SPIE, 2016, , .	0.8	2
89	Automatic speech segmentation using throat-acoustic correlation coefficients. Open Engineering, 2016, 6, .	1.6	2
90	Towards a Biopsychosocial Model of Gulf War Illness?. EBioMedicine, 2016, 3, 6-7.	6.1	7

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91	The method of translation additive and multiplicative error in the instrumental component of the measurement uncertainty. , 2016, , .		4
92	The effect of electromagnetic radiation of wireless connections on morphology of amniotic fluid. Proceedings of SPIE, 2016, , .	0.8	0
93	Model of nonconventional encryption algorithm based on nested Feistel network. Open Engineering, 2016, 6, .	1.6	0
94	Texture recognition by the methods of topological data analysis. Open Engineering, 2016, 6, .	1.6	8
95	Method of determining of keywords in English texts based on the DKPro Core. , 2016, , .		0
96	Information system based on the mathematical model of the EPS. Open Engineering, 2016, 6, .	1.6	2
97	Further Results on Output Tracking Problem of Uncertain Nonlinear Systems with High-Order Nonlinearities. International Journal of Control and Automation, 2016, 9, 409-422.	0.3	1
98	Effect of exopolysaccharide from Ganoderma applanatum on the electrical properties of mouse fibroblast cells line L929 culture using an electric cell-substrate impedance sensing (ECIS) â€“ Preliminary study. Annals of Agricultural and Environmental Medicine, 2016, 23, 280-284.	1.0	7
99	The balanced scorecard as an adaptive control system. Przegląd Elektrotechniczny, 2016, 1, 157-160.	0.2	0
100	Fractional flow formulation for three-phase non-isothermal flow in porous media. Przegląd Elektrotechniczny, 2016, 1, 26-33.	0.2	1
101	Preface to the Special Issue on â€œMathematical modelling in applied sciencesâ€• Open Engineering, 2016, 6, .	1.6	0
102	New simulation method of the parallel-hierarchical network for data processing based on network representation as a collection of number sets. , 2016, , .		0
103	Architecture of the parallel hierarchical network for fast image recognition. Proceedings of SPIE, 2016, , .	0.8	1
104	An efficient method for analyzing measurement results on the example of thyroid ultrasound images. Przegląd Elektrotechniczny, 2016, 1, 17-20.	0.2	1
105	Selection of the most prominent lines of research in ICT domain. , 2015, , .		1
106	Output Tracking Problem of Uncertain Nonlinear Systems with High-Order Nonlinearities. , 2015, , .		1
107	Analysis of the Possibilities for Using a Uniform Bragg Grating in a Tunable Dispersion Compensator. International Journal of Electronics and Telecommunications, 2015, 61, 381-387.	0.6	1
108	Numerical solution of optimal control problems for complex power systems. AIP Conference Proceedings, 2015, , .	0.4	0

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109	Global Practical Output Tracking of Inherently Nonlinear Systems Using Continuously Differentiable Controllers. Mathematical Problems in Engineering, 2015, 2015, 1-10.	1.1	4
110	Braid Floer homology. Journal of Differential Equations, 2015, 259, 1663-1721.	2.2	4
111	Optical fiber technology in Poland: four decades of development 1975-2015. , 2015, , .		4
112	The application of the connectionist method of semantic similarity for Kazakh language. , 2015, , .		2
113	Efficient algorithm for evacuation problem solving. , 2015, , .		0
114	Application of wireless technologies in agriculture, ecological monitoring and defense. , 2015, , .		3
115	Tissue electrical properties measured by bioelectrical impedance analysis among healthy and sportsmen population. , 2015, , .		0
116	Applications of optical fibres at Lublin University of Technology. Proceedings of SPIE, 2015, , .	0.8	0
117	Elongation determination using finite element and boundary element method. International Journal of Electronics and Telecommunications, 2015, 61, 389-394.	0.6	0
118	Using the ez-cryptosystem for data transmission in virtual private networks (Vpn). , 2015, , .		0
119	Development of electronic library for mobile devices on android platforms. , 2015, , .		0
120	Selection of network topologies at solving certain class of problems on distributed computer systems. , 2015, , .		0
121	The use polynomials as a possible variant analytical processing of logic-time functions. Proceedings of SPIE, 2015, , .	0.8	0
122	Synthesis of the control algorithm of cyclicity for branched technological process. , 2015, , .		1
123	Evaluation of the adequacy of interval model of control systems ranked configurations. Proceedings of SPIE, 2015, , .	0.8	0
124	Photodynamic therapy with laser scanning mode of tumor irradiation. Proceedings of SPIE, 2015, , .	0.8	2
125	Computer system for forecasting surgery on the eye muscles. Proceedings of SPIE, 2015, , .	0.8	0
126	Coordination in serial-parallel image processing. Proceedings of SPIE, 2015, , .	0.8	1

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127	Diagnostic efficiency of Mueller-matrix polarization reconstruction system of the phase structure of liver tissue. Proceedings of SPIE, 2015, , .	0.8	8
128	Methods and means of measuring control and diagnostics of biological tissues in vivo based on measurements of color coordinates and multispectral image. Proceedings of SPIE, 2015, , .	0.8	5
129	Control and minimization of allergenic plants impact on bronchial asthma morbidity, based on spatial-temporal data model. Proceedings of SPIE, 2015, , .	0.8	2
130	Development of optical fiber technology in Poland 2015. , 2015, , .		18
131	Front Matter: Volume 9816. Proceedings of SPIE, 2015, , .	0.8	1
132	Information technologies applications for sign languages investigations. , 2015, , .		1
133	Constructive method for solving a boundary value problem for ordinary differential equations. Differential Equations, 2015, 51, 149-162.	0.7	3
134	High-temperature three-colour thermal imager. Przegląd Elektrotechniczny, 2015, 1, 210-216.	0.2	3
135	Prediction of "Structure-Property" Dependence of New Organic Compounds on the Basis of Artificial Immune Systems. Journal of Automation and Information Sciences, 2015, 47, 28-35.	0.7	0
136	On the controllability of the multidimensional phase system. , 2014, , .		0
137	On the optimality one power system. , 2014, , .		2
138	Simulating In-Situ Leaching Process Using Comsol Multiphysics. International Journal of Electronics and Telecommunications, 2014, 60, 213-217.	0.6	4
139	Application of fiber optic flame monitoring system for estimation burner input parameters. , 2014, , .		0
140	Methods for applying VAD in Kazakh speech recognition systems. International Journal of Speech Technology, 2014, 17, 199-204.	2.2	4
141	Effect of arachidonic acid elicitation on lettuce resistance towards Botrytis cinerea. Scientia Horticulturae, 2014, 179, 16-20.	3.6	20
142	Identification of biomass co-combustion operating point using image processing. Proceedings of SPIE, 2014, , .	0.8	0
143	Semantic network of ICT domains and applications. , 2014, , .		10
144	Numerical Implementation of the Fictitious Domain Method for Elliptic Equations. International Journal of Electronics and Telecommunications, 2014, 60, 219-223.	0.6	6

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145	Optical fibers and their applications 2012. Proceedings of SPIE, 2013, , .	0.8	1
146	The use of decision tree induction and artificial neural networks for automatic diagnosis of Hashimoto's disease. Expert Systems With Applications, 2013, 40, 6684-6689.	7.6	19
147	Technology User Groups and Early Childhood Education: A Preliminary Study. Early Childhood Education Journal, 2013, 41, 171-179.	2.7	15
148	Automation of measurement processing of substance concentration in water by photometric methods in monitoring and control system of a state. Proceedings of SPIE, 2013, , .	0.8	1
149	Foetal origins of depression? A systematic review and meta-analysis of low birth weight and later depression. Psychological Medicine, 2013, 43, 1-12.	4.5	100
150	Certain problems of synchronization theory. Journal of Inverse and Ill-Posed Problems, 2013, 21, 159-175.	1.0	4
151	Optical Fiber Technology 2012. International Journal of Electronics and Telecommunications, 2013, 59, 131-140.	0.5	1
152	Applications of discriminant analysis methods in medical diagnostics. , 2013, , .		1
153	Mathematical model of radiation interaction with gas. Proceedings of SPIE, 2013, , .	0.8	2
154	Diagnostics of pathologically changed birefringent networks by means of phase Mueller matrix tomography. Proceedings of SPIE, 2013, , .	0.8	9
155	Methods and resources for imaging polarimetry. Proceedings of SPIE, 2013, , .	0.8	9
156	Modified co-operative immune algorithm for solving classification problems. Proceedings of SPIE, 2013, , .	0.8	0
157	Diagnostics of pathologically changed birefringent networks by means of phase Mueller matrix tomography. , 2013, , .		6
158	Laser photoplethysmography in integrated evaluation of collateral circulation of lower extremities. Proceedings of SPIE, 2013, , .	0.8	6
159	The method of cross-section for controlling laser beam spot image shape. , 2013, , .		0
160	Front Matter: Volume OA100. , 2013, , .		0
161	Optoelectronic spiking neural network. , 2013, , .		1
162	Fuzzy Modeling for Optical Sensor for Diagnostics of Pulverized Coal Burner. Procedia Engineering, 2012, 47, 1029-1032.	1.2	8

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163	Advanced diagnostics of industrial pulverized coal burner using optical methods and artificial intelligence. Experimental Thermal and Fluid Science, 2012, 43, 82-89.	2.7	34
164	Interactive systems for sign language learning. , 2012, , .		6
165	Assessment of significance of features acquired from thyroid ultrasonograms in Hashimoto's disease. BioMedical Engineering OnLine, 2012, 11, 48.	2.7	19
166	Influence of the measurement method of features in ultrasound images of the thyroid in the diagnosis of Hashimoto's disease. BioMedical Engineering OnLine, 2012, 11, 91.	2.7	19
167	Chronic fatigue syndrome: Labels, meanings and consequences. Journal of Psychosomatic Research, 2011, 70, 500-504.	2.6	26
168	Is chronic fatigue syndrome a neurological condition? A survey of UK neurologists. Journal of Psychosomatic Research, 2011, 70, 573-574.	2.6	15
169	Development of optical fiber technology in Poland. International Journal of Electronics and Telecommunications, 2010, 56, 99-104.	0.5	1
170	Structural analysis of distributed Bragg reflector mirrors. Vacuum, 2009, 83, S148-S151.	3.5	2
171	<title>Recovery methods for temperature distribution using fiber Bragg grating</title>. Proceedings of SPIE, 2008, , .	0.8	0
172	<title>An automatic protection of a PON feeder based on an optically powered electrooptic switch.</title>. , 2008, , .		0
173	<title>Optical power evaluation by Hermite or Legendre polynomials in single-mode fiber</title>. , 2008, , .		0
174	<title>Determination of CO concentration using the modified laser correlation method</title>. Proceedings of SPIE, 2007, , .	0.8	1
175	<title>Fiber Bragg grating reconstruction by using the genetic algorithm</title>. Proceedings of SPIE, 2007, , .	0.8	0
176	<title>Low electric power supply via optical fibre</title>. , 2007, , .		0
177	<title>Analysis of two dimensional signals via curvelet transform</title>. Proceedings of SPIE, 2007, , .	0.8	1
178	<title>The direct and inverse problem in fiber Bragg gratings modelling</title>. , 2007, , .		0
179	An expanded method to robustly practically output tracking control for uncertain nonlinear systems. International Journal of Mathematical Analysis, 0, 8, 865-879.	0.3	0
180	F-diagram Research Method for Double Circuit Solar System with Thermosyphon Circulation. , 0, , .		0