

Arkadiusz OrÅ,owski

List of Publications by Year in descending order

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111
papers

1,052
citations

471509

17
h-index

477307

29
g-index

118
all docs

118
docs citations

118
times ranked

563
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing Anderson localization of light via decay rate statistics. <i>Physical Review E</i> , 2004, 69, 026605.	2.1	86
2	Random Green matrices: From proximity resonances to Anderson localization. <i>Physical Review A</i> , 2000, 61, .	2.5	62
3	Information entropy and squeezing of quantum fluctuations. <i>Physical Review A</i> , 1997, 56, 2545-2548.	2.5	57
4	Dynamical properties of a classical-like entropy in the Jaynes-Cummings model. <i>Physical Review A</i> , 1995, 52, 1621-1628.	2.5	52
5	Localization of light in three-dimensional random dielectric media. <i>Physical Review E</i> , 1996, 53, 4122-4130.	2.1	46
6	Phase retrieval in quantum mechanics. <i>Physical Review A</i> , 1994, 50, R921-R924.	2.5	41
7	Soluble model of many interacting quantum particles in a trap. <i>Physical Review A</i> , 2000, 61, .	2.5	41
8	Wehrl's Entropy Dynamics in a Kerr-like Medium. <i>Journal of Modern Optics</i> , 1994, 41, 2301-2306.	1.3	39
9	Correlations in financial time series: established versus emerging markets. <i>European Physical Journal B</i> , 2001, 20, 527-530.	1.5	39
10	Distance between density operators: Applications to the Jaynes-Cummings model. <i>Physical Review A</i> , 1995, 51, 1622-1630.	2.5	38
11	Classical entropy of quantum states of light. <i>Physical Review A</i> , 1993, 48, 727-731.	2.5	33
12	Gain-loss asymmetry for emerging stock markets. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 375, 599-604.	2.6	32
13	Analytical approach to localization of electromagnetic waves in two-dimensional random media. <i>Physical Review E</i> , 1995, 51, R2763-R2766.	2.1	29
14	Solitons and shock waves under random external noise. <i>Reports on Mathematical Physics</i> , 1989, 27, 59-71.	0.8	24
15	Phase properties of Kerr media via variance and entropy as measures of uncertainty. <i>Physical Review A</i> , 1995, 51, 4172-4180.	2.5	24
16	Different mechanisms of cluster explosion within a unified smooth particle hydrodynamics Thomas-Fermi approach: Optical and short-wavelength regimes compared. <i>Physical Review A</i> , 2005, 71, .	2.5	24
17	Probabilistic models of income distributions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 344, 146-151.	2.6	19
18	Band of localized electromagnetic waves in random arrays of dielectric cylinders. <i>Physical Review E</i> , 1997, 56, 4892-4895.	2.1	18

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19	On the $SU(1, 1)$ Phase-space Description of Reduced and Squeezed Quantum Fluctuations. Journal of Modern Optics, 1990, 37, 295-301.	1.3	16
20	Entropy Based Trees to Support Decision Making for Customer Churn Management. Acta Physica Polonica A, 2016, 129, 971-979.	0.5	16
21	New Results on Gain-Loss Asymmetry for Stock Markets Time Series. Acta Physica Polonica A, 2008, 114, 569-574.	0.5	15
22	Q-Entropy Approach to Selecting High Income Households. Acta Physica Polonica A, 2015, 127, A-38-A-44.	0.5	14
23	Simulation Study on the Application of the Generalized Entropy Concept in Artificial Neural Networks. Entropy, 2018, 20, 249.	2.2	14
24	Comparison of Decision Trees with Rényi and Tsallis Entropy Applied for Imbalanced Churn Dataset. , 0, , .		13
25	A Decentralized System for Load Balancing of Containerized Microservices in the Cloud. Advances in Intelligent Systems and Computing, 2017, , 142-152.	0.6	12
26	Anderson localization of electromagnetic waves in confined dielectric media. Physical Review E, 1999, 59, 3655-3660.	2.1	11
27	Application of bootstrap to detecting chaos in financial time series. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 317-321.	2.6	11
28	Genetic Algorithms Approach to Community Detection. Acta Physica Polonica A, 2010, 117, 703-705.	0.5	11
29	Data augmentation techniques for transfer learning improvement in drill wear classification using convolutional neural network. Machine Graphics and Vision, 2019, 28, 3-12.	0.1	11
30	Squeezed fluctuations of truncated photon operators. Physical Review A, 1993, 47, 5151-5157.	2.5	9
31	Marginal distributions of quasiprobabilities in quantum optics. Physical Review A, 1993, 48, 4697-4701.	2.5	9
32	Classifiers ensemble of transfer learning for improved drill wear classification using convolutional neural network. Machine Graphics and Vision, 2019, 28, 13-23.	0.1	9
33	Wehrl's entropy and classification of states. Reports on Mathematical Physics, 1999, 43, 283-289.	0.8	8
34	A four-level "system". Exact solvability and effective evolution operators via multiple scales. Reports on Mathematical Physics, 2004, 54, 57-69.	0.8	8
35	Stock Indices for Emerging Markets. Acta Physica Polonica A, 2010, 117, 619-622.	0.5	8
36	Two-photon Jaynes-Cummings model without rotatingwave approximation. Reports on Mathematical Physics, 2004, 54, 71-79.	0.8	7

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37	Pattern Recognition in the Japanese Candlesticks. <i>Advances in Intelligent Systems and Computing</i> , 2015, , 227-234.	0.6	7
38	Cellular automaton approach to electromagnetic wave propagation in dispersive media. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2006, 462, 2927-2948.	2.1	6
39	Decoherence of entangled states in two-mode cavities. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 1763-1771.	1.5	6
40	Generalized visual cryptography scheme with completely random shares. , 2019, , .		6
41	Hough transform for lines with slope defined by a pair of co-primes. <i>Machine Graphics and Vision</i> , 2013, 22, 17-25.	0.1	6
42	A generalization of the construction of the class operator. <i>Journal of Physics A</i> , 1994, 27, 167-175.	1.6	5
43	Defect Detection in Furniture Elements with the Hough Transform Applied to 3D Data. <i>Advances in Intelligent Systems and Computing</i> , 2016, , 631-640.	0.6	5
44	Randomly driven Kortewegâ€“de Vriesâ€“Burgers equation. <i>Physical Review E</i> , 1994, 49, 2465-2467.	2.1	4
45	Facts and Myths of Enigma: Breaking Stereotypes. <i>Lecture Notes in Computer Science</i> , 2003, , 106-122.	1.3	4
46	Numerical Analysis of Two Coupled Kaldor-Kalecki Models with Delay. <i>Acta Physica Polonica A</i> , 2015, 127, A-70-A-74.	0.5	4
47	Testing the Limits of Detection of the â€“Orange Skinâ€“™ Defect in Furniture Elements with the HOG Features. <i>Lecture Notes in Computer Science</i> , 2017, , 276-286.	1.3	4
48	Randomness of Shares Versus Quality of Secret Reconstruction in Black-and-White Visual Cryptography. <i>Lecture Notes in Computer Science</i> , 2019, , 58-69.	1.3	4
49	Testing the randomness of shares in color visual cryptography. <i>Pattern Analysis and Applications</i> , 0, , 1.	4.6	4
50	Detection of Surface Defects of Type â€“orange skinâ€“™ in Furniture Elements with Conventional Image Processing Methods. <i>Lecture Notes in Computer Science</i> , 2016, , 26-37.	1.3	4
51	Dynamics of Argon Clusters in an Intense Laser Pulse: Bloch-Like Hydrodynamic Model. <i>Acta Physica Polonica A</i> , 2004, 106, 3-12.	0.5	4
52	Generalized Entropy Cost Function in Neural Networks. <i>Lecture Notes in Computer Science</i> , 2017, , 128-136.	1.3	4
53	Example of self-averaging in three dimensions: Anderson localization of electromagnetic waves in random distributions of pointlike scatterers. <i>Physical Review E</i> , 1997, 56, 6090-6094.	2.1	3
54	Ground Level Recovery from Terrestrial Laser Scanning Data with the Variably Randomized Iterated Hierarchical Hough Transform. <i>Lecture Notes in Computer Science</i> , 2015, , 630-641.	1.3	3

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55	Color Visual Cryptography with Completely Randomly Coded Colors. Lecture Notes in Computer Science, 2019, , 589-599.	1.3	3
56	Prediction of Trend Reversals in Stock Market by Classification of Japanese Candlesticks. Advances in Intelligent Systems and Computing, 2016, , 641-647.	0.6	3
57	Light Propagation in a Magnetic Field: Random Green Matrix Approach. Acta Physica Polonica A, 2004, 105, 339-347.	0.5	3
58	A Study on Directionality in the Ulam Square with the Use of the Hough Transform. Advances in Intelligent Systems and Computing, 2017, , 81-90.	0.6	3
59	Remarks on a classification of Wigner distributions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 149, 449-451.	2.1	2
60	Squeezing in Finite Superpositions of Photon-number States without the Vacuum. Journal of Modern Optics, 1991, 38, 2107-2109.	1.3	2
61	Eigenstates of squeeze operators do not exist. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 154, 319-320.	2.1	2
62	Application of the ultrametric distance to portfolio taxonomy. Critical approach and comparison with other methods. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 81-86.	2.6	2
63	Swarm of Mobile Virtualization Containers. Advances in Intelligent Systems and Computing, 2016, , 75-85.	0.6	2
64	Detection of "Orange Skin" Type Surface Defects in Furniture Elements with the Use of Textural Features. Lecture Notes in Computer Science, 2017, , 402-411.	1.3	2
65	Insolvency modeling with generalized entropy cost function in neural networks. Physica A: Statistical Mechanics and Its Applications, 2019, 526, 120730.	2.6	2
66	Associations Rules Between Sector Indices on the Warsaw Stock Exchange. Lecture Notes in Business Information Processing, 2016, , 312-321.	1.0	2
67	Swarm Based System for Management of Containerized Microservices in a Cloud Consisting of Heterogeneous Servers. Advances in Intelligent Systems and Computing, 2018, , 262-271.	0.6	2
68	Explosion of Atom Clusters in a Free-Electron Intense Laser Pulse. Acta Physica Polonica A, 2004, 105, 425-436.	0.5	2
69	Segment Counting Versus Prime Counting in the Ulam Square. Lecture Notes in Computer Science, 2017, , 227-236.	1.3	2
70	Two-component structure of household income distributions in Poland. Equilibrium Quarterly Journal of Economics and Economic Policy, 2018, 13, 603-622.	3.5	2
71	Phase-intensity uncertainty relation from quasiprobability distributions. Optics Communications, 1997, 138, 311-316.	2.1	1
72	Fluctuation dynamics of exchange rates on Polish financial market. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 184-189.	2.6	1

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73	Spontaneous emission in a Fabry-Perot cavity: frequency modulation and collective effects. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 065501.	1.5	1
74	Choice of distance function in the segmentation of regions of interest in microscopic images of breast tissues. , 2017, , .		1
75	Milk duct segmentation in microscopic HE images of breast cancer tissues. MATEC Web of Conferences, 2017, 125, 04013.	0.2	1
76	Simulation Study on the Electricity Data Streams Time Series Clustering. Energies, 2020, 13, 924.	3.1	1
77	Description of Electricity Consumption by Using Leading Hours Intra-day Model. Lecture Notes in Computer Science, 2021, , 392-404.	1.3	1
78	Heuristic Assessment of Parameters of the Local Ground Approximation from Terrestrial LIDAR Data. Lecture Notes in Computer Science, 2016, , 88-97.	1.3	1
79	SOME PROPOSAL OF THE TEST FOR A RANDOM WALK DETECTION AND ITS APPLICATION IN THE STOCK MARKET DATA ANALYSIS. Metody Ilościowe W Badaniach Ekonomicznych, 2019, 19, 339-346.	0.0	1
80	Dynamics of a Polish Internet-Based Social Network. Acta Physica Polonica A, 2010, 117, 700-702.	0.5	1
81	Coherence and Large-Scale Pattern Formation in Coupled Logistic-Map Lattices via Computer Algebra Systems. Lecture Notes in Computer Science, 2014, , 230-241.	1.3	1
82	Where Is the Ground? Quality Measures for the Planar Digital Terrain Model in Terrestrial Laser Scanning. Lecture Notes in Computer Science, 2015, , 343-353.	1.3	1
83	The Quantile Decomposition of Personal Income Distributions in the USA. Acta Physica Polonica A, 2016, 129, 965-970.	0.5	1
84	Contiguous Line Segments in the Ulam Spiral: Experiments with Larger Numbers. Lecture Notes in Computer Science, 2017, , 463-472.	1.3	1
85	Feature Selection for "Orange Skin" Type Surface Defect in Furniture Elements. Lecture Notes in Computer Science, 2018, , 81-91.	1.3	1
86	BCT Boost Segmentation with U-net in TensorFlow. Machine Graphics and Vision, 2019, 28, 25-34.	0.1	1
87	Hybrid Reality in the Internet of Things as an Environment for Transferring Knowledge. International Journal of Research in E-learning, 2021, 6, 1-13.	0.0	1
88	Dynamical ordering: Applications to Fokker-Planck equations. Physical Review A, 1994, 50, 3401-3408.	2.5	0
89	Weighted class operators: A new approach to tensor operators for compact groups. Journal of Mathematical Physics, 1997, 38, 2720-2727.	1.1	0
90	Bands of Localized Electromagnetic Waves in 3D Random Media. Foundations of Physics, 1998, 28, 667-681.	1.3	0

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91	Spontaneously Emitting Atom in Front of a Two-Slit Interferometer. Foundations of Physics, 1998, 28, 601-609.	1.3	0
92	Forerunners and shapes of the signal in the propagation of radiation in structured nonlinear dispersive dielectrics. , 0, , .		0
93	Homotopy Analysis Method for Stochastic Differential Equations with Maxima. Lecture Notes in Computer Science, 2015, , 233-244.	1.3	0
94	Application of Automated Theorem-Proving to Philosophical Thought: Spinoza's Ethics. Lecture Notes in Electrical Engineering, 2017, , 512-518.	0.4	0
95	Detecting Changes in Time Sequences with the Competitive Detector. Studies in Systems, Decision and Control, 2018, , 251-267.	1.0	0
96	Persistent Correlations in Major Indices of the World Stock Markets. Studies in Systems, Decision and Control, 2018, , 411-422.	1.0	0
97	New Test for a Random Walk Detection Based on the Arcsine Law. Contributions To Statistics, 2020, , 51-61.	0.2	0
98	From Proximity Resonances to Anderson Localization. , 2001, , 509-518.		0
99	Optimization of Directional Antennas in Two-Dimensional Artificial Dielectrics. Acta Physica Polonica A, 2004, 105, 263-278.	0.5	0
100	Free Electrons Generation in the Interaction of Intense Laser Pulses with Atomic Clusters. Acta Physica Polonica A, 2005, 107, 473-478.	0.5	0
101	Anderson Localization of Electromagnetic Waves in Dielectric Media: Model Studies. Acta Physica Polonica A, 2006, 109, 109-119.	0.5	0
102	Light Localization in Left-Handed Media. Acta Physica Polonica A, 2007, 112, 673-680.	0.5	0
103	Localization of Electromagnetic Waves in 2D Random Media. NATO ASI Series Series B: Physics, 1997, , 295-305.	0.2	0
104	Numerical Analysis of Modified Kaldor-Kalecki Model with Couplings and Delays. Acta Physica Polonica A, 2016, 129, 1008-1010.	0.5	0
105	Ulam Spiral and Prime-Rich Polynomials. Lecture Notes in Computer Science, 2018, , 522-533.	1.3	0
106	Applications of Multilingual Thesauri for the Texts Indexing in the Field of Agriculture. Advances in Intelligent Systems and Computing, 2019, , 185-195.	0.6	0
107	Textural features based on run length encoding in the classification of furniture surfaces with the orange skin defect. Machine Graphics and Vision, 2019, 28, 35-45.	0.1	0
108	Context-based segmentation of the longissimus muscle in beef with a deep neural network. Machine Graphics and Vision, 2019, 28, 47-57.	0.1	0

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109	Does Randomness in the Random Visual Cryptography Protocol Depend on the Period of Pseudorandom Number Generators?. Lecture Notes in Computer Science, 2020, , 36-47.	1.3	0
110	An Interval Calculus Based Approach to Determining the Area of Integration of the Entropy Density Function. Lecture Notes in Computer Science, 2020, , 395-406.	1.3	0
111	Visualization of nonlocality in coupled map lattices. Machine Graphics and Vision, 2012, 25, 13-25.	0.1	0