

# Aleksey A Kudreyko

## List of Publications by Year in descending order

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47  
papers

587  
citations

686830

13  
h-index

642321

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g-index

47  
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docs citations

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times ranked

330  
citing authors

#	ARTICLE	IF	CITATIONS
1	Partial Auxeticity of Laterally Compressed Carbon Nanotube Bundles. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022, 16, 2100189.	1.2	9
2	Negative Thermal Expansion of Carbon Nanotube Bundles. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022, 16, 2100415.	1.2	12
3	An iterative model of the generalized Cauchy process for predicting the remaining useful life of lithium-ion batteries. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 187, 110269.	2.5	23
4	Kinetics of photoinduced phase retardation in azo dye layer. <i>Liquid Crystals</i> , 2022, 49, 1376-1383.	0.9	2
5	Photosensitive Alignment: Advanced Electronic Paper-Based Devices. <i>Crystals</i> , 2022, 12, 364.	1.0	3
6	Chaotic discrete breathers and their effect on macroscopic properties of triangular lattice. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022, 112, 106541.	1.7	14
7	Galerkin Approximation for Stochastic Volterra Integral Equations with Doubly Singular Kernels. <i>Fractal and Fractional</i> , 2022, 6, 311.	1.6	0
8	Multifractional and long-range dependent characteristics for remaining useful life prediction of cracking gas compressor. <i>Reliability Engineering and System Safety</i> , 2022, 225, 108630.	5.1	9
9	Effect of the stiffness of interparticle bonds on properties of delocalized nonlinear vibrational modes in an fcc lattice. <i>Physical Review E</i> , 2022, 105, .	0.8	6
10	Tunable optical properties for ORW e-paper. <i>Liquid Crystals</i> , 2021, 48, 1073-1077.	0.9	10
11	Generalized Cauchy Degradation Model With Long-Range Dependence and Maximum Lyapunov Exponent for Remaining Useful Life. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-12.	2.4	13
12	Discrete breathers in a triangular $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> \langle \text{mml:mi}> \hat{I}^2 \langle \text{mml:mi}> \langle \text{mml:math}> \text{-Fermi-Pasta-Ulam-Tsingou lattice. } \text{Physical Review E}$ , 2021, 103, 052202.	0.8	24
13	Optically Rewritable Liquid Crystal Displays: Characteristics and Performance. <i>Crystals</i> , 2021, 11, 1053.	1.0	2
14	Patterned Photoalignment in Thin Films: Physics and Applications. <i>Crystals</i> , 2021, 11, 84.	1.0	13
15	Surface effects in the model of polymer-stabilized ferroelectric liquid crystal cells. <i>Indian Journal of Physics</i> , 2020, 94, 1931-1937.	0.9	1
16	Supersonic voidions in 2D Morse lattice. <i>Chaos, Solitons and Fractals</i> , 2020, 140, 110217.	2.5	30
17	Reliability Analysis of Power Distribution Network Based on PSO-DBN. <i>IEEE Access</i> , 2020, 8, 224884-224894.	2.6	6
18	Two-dimensional discrete breathers in fcc metals. <i>Computational Materials Science</i> , 2020, 182, 109737.	1.4	19

#	ARTICLE	IF	CITATIONS
19	Design and Optimization of Plasmon Resonance Sensor Based on Micro-Nano Symmetrical Localized Surface. <i>Symmetry</i> , 2020, 12, 841.	1.1	4
20	Photo-Aligned Ferroelectric Liquid Crystal Devices with Novel Electro-Optic Characteristics. <i>Crystals</i> , 2020, 10, 563.	1.0	10
21	Fractional Lévy stable motion: Finite difference iterative forecasting model. <i>Chaos, Solitons and Fractals</i> , 2020, 133, 109632.	2.5	28
22	Spherically localized discrete breathers in bcc metals V and Nb. <i>Computational Materials Science</i> , 2020, 180, 109695.	1.4	27
23	Remaining useful life prediction for Lithium-ion batteries using fractional Brownian motion and Fruit-fly Optimization Algorithm. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 161, 107904.	2.5	70
24	Mechanical Response of Carbon Nanotube Bundle to Lateral Compression. <i>Computation</i> , 2020, 8, 27.	1.0	18
25	Equilibration of sinusoidal modulation of temperature in linear and nonlinear chains. <i>Physical Review E</i> , 2020, 102, 062148.	0.8	12
26	ELASTIC DAMPER BASED ON THE CARBON NANOTUBE BUNDLE. <i>Facta Universitatis, Series: Mechanical Engineering</i> , 2020, 18, 001.	2.3	32
27	New types of one-dimensional discrete breathers in a two-dimensional lattice. <i>Letters on Materials</i> , 2020, 10, 185-188.	0.2	7
28	Ferroelectric liquid crystals for fast switchable circular Dammann grating [Invited]. <i>Chinese Optics Letters</i> , 2020, 18, 080002.	1.3	4
29	Phase transitions in carbon nanotube bundles under lateral compression. , 2020, , .		1
30	Modeling of electro-optic characteristics in vertically aligned deformed helix ferroelectric liquid crystals. <i>International Journal of Modern Physics B</i> , 2019, 33, 1950187.	1.0	0
31	Biaxial surface potential effects in polymer-stabilized ferroelectric liquid crystal cells. <i>Letters on Materials</i> , 2019, 9, 255-259.	0.2	0
32	Chaotic transients in surface-stabilized smectic C* cells induced by magnetic field. <i>Soft Materials</i> , 2018, 16, 160-165.	0.8	0
33	Spare optimistic based on improved ADMM and the minimum entropy de-convolution for the early weak fault diagnosis of bearings in marine systems. <i>ISA Transactions</i> , 2018, 78, 98-104.	3.1	37
34	Correction to "Fractional Autoregressive Integrated Moving Average and Finite-Element Modal: The Forecast of Tire Vibration Trend". <i>IEEE Access</i> , 2018, 6, 58977-58977.	2.6	0
35	Fractional Autoregressive Integrated Moving Average and Finite-Element Modal: The Forecast of Tire Vibration Trend. <i>IEEE Access</i> , 2018, 6, 40137-40142.	2.6	10
36	Frequency voltage controlled light transmittance in ferroelectric liquid crystal cells. <i>European Physical Journal E</i> , 2017, 40, 58.	0.7	3

#	ARTICLE	IF	CITATIONS
37	Electro-optic response in thin smectic C* film with chevron structures. Chinese Physics B, 2016, 25, 126101.	0.7	3
38	Relaxation Dynamics of Ferroelectric Liquid Crystals in Pulsed Electric Field. Russian Physics Journal, 2016, 59, 938-943.	0.2	3
39	Helix unwinding in ferroelectric liquid crystals induced by tilted electric field. Chinese Physics B, 2015, 24, 076101.	0.7	4
40	Cusp Catastrophe Model for Description of Bistability in Ferroelectric Liquid Crystals. Research Letters in Physics, 2014, 2014, 1-5.	0.2	1
41	A New Solution for the Director Relaxation Problem in Twisted Nematic Film Based on Wavelet Analysis. International Journal of Mathematics and Mathematical Sciences, 2011, 2011, 1-8.	0.3	0
42	Harmonic wavelet method towards solution of the Fredholm type integral equations of the second kind. Applied Mathematics and Computation, 2010, 215, 4164-4171.	1.4	73
43	Application of Periodized Harmonic Wavelets towards Solution of Eigenvalue Problems for Integral Equations. Mathematical Problems in Engineering, 2010, 2010, 1-8.	0.6	23
44	Application of Wavelet-Basis for Solution of the Fredholm Type Integral Equations. Lecture Notes in Computer Science, 2010, , 155-163.	1.0	1
45	On the Discrete Harmonic Wavelet Transform. Mathematical Problems in Engineering, 2008, 2008, 1-7.	0.6	7
46	Mutiscale Analysis of the Fisher Equation. Lecture Notes in Computer Science, 2008, , 1171-1180.	1.0	10
47	Optimization of image writer modes for optically rewritable electronic paper. Liquid Crystals, 0, , 1-6.	0.9	3