Yuri Yu Tarasevich

List of Publications by Year
in descending order

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79 papers	1,207 citations	516215 16 h-index	414034 32 g-index
79 all docs	79 docs citations	79 times ranked	794 citing authors

#	Article	IF	Citations
1	Evaporation of a Droplet: From physics to applications. Physics Reports, 2019, 804, 1-56.	10.3	255
2	Percolation of linear<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>k</mml:mi></mml:math>-mers on a square lattice: From isotropic through partially ordered to completely aligned states. Physical Review E, 2012, 86, 061116.	0.8	63
3	Segregation in desiccated sessile drops of biological fluids. European Physical Journal E, 2007, 22, 311-314.	0.7	55
4	Random sequential adsorption of partially oriented linear<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>k</mml:mi></mml:math>-mers on a square lattice. Physical Review E, 2011, 84, 061603.	0.8	48
5	Mechanisms and models of the dehydration self-organization in biological fluids. Physics-Uspekhi, 2004, 47, 717-728.	0.8	45
6	Simple analytical model of capillary flow in an evaporating sessile drop. Physical Review E, 2005, 71, 027301.	0.8	45
7	Droplet Drying Patterns on Solid Substrates: From Hydrophilic to Superhydrophobic Contact to Levitating Drops. Advances in Condensed Matter Physics, 2018, 2018, 1-24.	0.4	43
8	Desiccating colloidal sessile drop: dynamics of shape and concentration. Colloid and Polymer Science, 2011, 289, 1015-1023.	1.0	39
9	Percolation of aligned dimers on a square lattice. European Physical Journal B, 2010, 74, 205-209.	0.6	34
10	AN INVESTIGATION OF SITE-BOND PERCOLATION ON MANY LATTICES. International Journal of Modern Physics C, 1999, 10, 1193-1204.	0.8	33
11	Impact of defects on percolation in random sequential adsorption of linear<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>k</mml:mi></mml:math>-mers on square lattices. Physical Review E, 2015, 91, 012109.	0.8	33
12	Modeling of spatialâ€“temporal distribution of the components in the drying sessile droplet of biological fluid. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 432, 99-103.	2.3	30
13	Percolation and jamming of random sequential adsorption samples of large linear$k$-mers on a square lattice. Physical Review E, 2018, 98, .	0.8	28
14	Dimer percolation and jamming on simple cubic lattice. European Physical Journal B, 2007, 60, 97-100.	0.6	25
15	Drying of a multicomponent solution drop on a solid substrate: Qualitative analysis. Technical Physics, 2007, 52, 159-163.	0.2	24
16	Effect of diffusion on the separation of components in a biological fluid upon wedge-shaped dehydration. Technical Physics, 2003, 48, 535-540.	0.2	17
17	Diffusion-driven self-assembly of rodlike particles: Monte Carlo simulation on a square lattice. Physical Review E, 2017, 95, 052130.	0.8	17
18	Monte Carlo simulation of evaporation-driven self-assembly in suspensions of colloidal rods. Physical Review E, 2016, 94, 062803.	0.8	16

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19	THE MODEL OF DRYING SESSILE DROP OF COLLOIDAL SOLUTION. Modern Physics Letters B, 2011, 25, 1303-1310.	1.0	15
20	Jamming and percolation in generalized models of random sequential adsorption of linear$k$-mers on a square lattice. Physical Review E, 2015, 92, 062116.	0.8	15
21	Anisotropy in electrical conductivity of films of aligned intersecting conducting rods. Physical Review E, 2018, 98, 012104.	0.8	15
22	Electrical conductance of two-dimensional composites with embedded rodlike fillers: An analytical consideration and comparison of two computational approaches. Journal of Applied Physics, 2019, 125, .	1.1	15
23	Electrical conductivity of a monolayer produced by random sequential adsorption of linear<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>k</mml:mi></mml:math>-mers onto a square lattice. Physical Review E, 2016, 94, 042112.	0.8	14
24	Anisotropy in electrical conductivity of two-dimensional films containing aligned nonintersecting rodlike particles: Continuous and lattice models. Physical Review E, 2018, 98, 012105.	0.8	14
25	Transparent electrodes with nanorings: A computational point of view. Journal of Applied Physics, 2019, 125, .	1.1	14
26	Drying of sessile droplets of laponite-based aqueous nanofluids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 462, 52-63.	2.3	13
27	LCAO calculations of the electronic structure of PbTiO₃and PbZrO₃. Ferroelectrics, 1992, 131, 137-140.	0.3	12
28	Influence of defects on the effective electrical conductivity of a monolayer produced by random sequential adsorption of linear <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml47" display="inline" overflow="scroll" altimg="si5.gif"><mml:mi>k</mml:mi></mml:math>-mers onto a square lattice. Physica A: Statistical Mechanics and Its Applications, 2017, 477, 195-203.	1.2	12
29	Effect of tunneling on the electrical conductivity of nanowire-based films: Computer simulation within a coreâ€“shell model. Journal of Applied Physics, 2019, 126, .	1.1	12
30	Effect of evaporation conditions on the spatial redistribution of components in an evaporating liquid drop on a horizontal solid substrate. Technical Physics, 2010, 55, 636-644.	0.2	11
31	Vertical drying of a suspension of sticks: Monte Carlo simulation for continuous two-dimensional problem. Physical Review E, 2018, 97, 022136.	0.8	11
32	Percolation of sticks: Effect of stick alignment and length dispersity. Physical Review E, 2018, 98, .	0.8	11
33	Simulation of the electrical conductivity of two-dimensional films with aligned rod-like conductive fillers: Effect of the filler length dispersity. Journal of Applied Physics, 2018, 124, .	1.1	11
34	Percolation thresholds for discorectangles: Numerical estimation for a range of aspect ratios. Physical Review E, 2020, 101, 022108.	0.8	11
35	Jamming and percolation of parallel squares in single-cluster growth model. Condensed Matter Physics, 2014, 17, 33006.	0.3	11
36	Mathematical modeling of pattern formation caused by drying of colloidal film under a mask. European Physical Journal E, 2016, 39, 26.	0.7	9

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37	Relaxation in two-dimensional suspensions of rods as driven by Brownian diffusion. Physical Review E, 2019, 100, 042139.	0.8	8
38	Electronic structure of point defects in antiferromagnetic insulating cuprates. Physica Status Solidi (B): Basic Research, 1992, 174, 141-154.	0.7	7
39	Percolation and jamming of linear<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>k</mml:mi></mml:math>-mers on a square lattice with defects: Effect of anisotropy. Physical Review E, 2015, 92, 062142.	0.8	7
40	Pattern formation in a two-dimensional two-species diffusion model with anisotropic nonlinear diffusivities: a lattice approach. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 093203.	0.9	7
41	Sedimentation of a suspension of rods: Monte Carlo simulation of a continuous two-dimensional problem. Physical Review E, 2019, 99, 052135.	0.8	7
42	A simple analytical model of the electronic structure of antiferromagnetic alternating systems: The example of the CuO2plane. Ferroelectrics, 1992, 131, 141-145.	0.3	6
43	Criteria for Assessment of Current Condition and Development of Research Studies Based on Scientometric Data Analysis (Comment by P. Arefiev). Voprosy Obrazovaniya, 2015, , 221-240.	0.4	6
44	Electrical conductivity of random metallic nanowire networks: an analytical consideration along with computer simulation. Physical Chemistry Chemical Physics, 2022, 24, 11812-11819.	1.3	6
45	Paris car parking problem for partially oriented discorectangles on a line. Physical Review E, 2020, 102, 012128.	0.8	5
46	Electrical conductivity of nanoring-based transparent conductive films: A mean-field approach. Journal of Applied Physics, 2021, 130, .	1.1	5
47	Electrical conductivity of nanorod-based transparent electrodes: Comparison of mean-field approaches. Physical Review E, 2022, 105, 044129.	0.8	5
48	Computer simulation of crystal growth from solution. Technical Physics, 2001, 46, 627-629.	0.2	4
49	ON SITE PERCOLATION ON THE CORRELATED SIMPLE CUBIC LATTICE. International Journal of Modern Physics C, 2003, 14, 1405-1412.	0.8	4
50	Modeling of mass transfer in a film of solution evaporating under the mask with holes. European Physical Journal E, 2017, 40, 83.	0.7	4
51	Effect of aging on electrical conductivity of two-dimensional composite with rod-like fillers. Journal of Physics: Conference Series, 2018, 955, 012006.	0.3	4
52	Identification of current-carrying part of a random resistor network: electrical approaches vs. graph theory algorithms. Journal of Physics: Conference Series, 2018, 955, 012021.	0.3	4
53	Random sequential adsorption of partially ordered discorectangles onto a continuous plane. Physical Review E, 2020, 102, 022133.	0.8	4
54	Connectedness percolation in the random sequential adsorption packings of elongated particles. Physical Review E, 2021, 103, 042113.	0.8	4

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55	Evaporation-Induced Flow Inside Circular Wells: Analytical Results and Simulations. Microgravity Science and Technology, 2009, 21, 39-44.	0.7	3
56	Particular Experience in Design and Implementation of a Current Research Information System in Russia: National Specificity. Procedia Computer Science, 2014, 33, 168-173.	1.2	3
57	Influence of anisotropy on percolation and jamming of linear$k$-mers on square lattice with defects. Journal of Physics: Conference Series, 2015, 633, 012064.	0.3	3
58	Impact of defects on electrical connectivity of monolayer of ideally aligned rods. Journal of Physics: Conference Series, 2016, 681, 012038.	0.3	3
59	Mass transfer during drying of colloidal film beneath a patterned mask that contains a hexagonal array of holes. Journal of Physics: Conference Series, 2016, 681, 012033.	0.3	3
60	Temporal Dynamics of Hirsch Index. Bulletin of the South Ural State University, Series: Mathematical Modelling, Programming and Computer Software, 2016, 9, 32-45.	0.1	3
61	Exact percolation probabilities for a square lattice: site percolation on a plane, cylinder, and torus. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 204004.	0.7	3
62	Virtual network as excitable medium. Journal of Physics: Conference Series, 2016, 681, 012008.	0.3	2
63	Circles of equal radii randomly placed on a plane: some rigorous results, asymptotic behavior, and application to transparent electrodes. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 033202.	0.9	2
64	Optical and electric properties of crystals with alternate structures. Ferroelectrics, 1995, 164, 303-313.	0.3	1
65	Octahedral cation antisite disorder effects in double 1:1 perovskites: Monte Carlo simulation study and percolation approach. European Physical Journal Special Topics, 2005, 126, 65-68.	0.2	1
66	Scientometric Indicators and Collaboration Network as a Potential Tool for Gift Author Detection. Procedia Computer Science, 2017, 106, 3-10.	1.2	1
67	Characterisation of diffusion-driven self-organisation of rodlike particles by means of entropy of generalised two-dimensional words. Journal of Physics: Conference Series, 2018, 1141, 012137.	0.3	1
68	Science and ethics meet: a mathematical view on one kind of violation of publication ethics. Journal of Physics: Conference Series, 2018, 955, 012034.	0.3	1
69	Monte Carlo simulation of entropy-driven pattern formation in a two-dimensional system of rectangular particles. Journal of Physics: Conference Series, 2019, 1163, 012007.	0.3	1
70	Random nanowire networks: Identification of a current-carrying subset of wires using a modified wall follower algorithm. Physical Review E, 2021, 103, 062145.	0.8	1
71	Confinement effects on the random sequential adsorption packings of elongated particles in a slit. Physical Review E, 2021, 104, 054104.	0.8	1
72	Relaxation of saturated random sequential adsorption packings of discorectangles aligned on a line. Physical Review E, 2021, 104, 064104.	0.8	1

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73	Influence of doping on the electronic and magnetic characteristics of the CuO2 plane. Physics of the Solid State, 1997, 39, 1756-1758.	0.2	0
74	Investigation into the influence of the degree of cation ordering on the magnetic properties of 1:1 double perovskites in the framework of the Heisenberg model. Physics of the Solid State, 2007, 49, 1283-1286.	0.2	0
75	Publisherâ€™s Note: Random sequential adsorption of partially oriented lineark-mers on a square lattice [Phys. Rev. E84, 061603 (2011)]. Physical Review E, 2012, 85, .	0.8	0
76	Self-Assembled and Artificial Surfaces/Interfaces: From Soft Matter to Metamaterials. Advances in Condensed Matter Physics, 2018, 2018, 1-2.	0.4	0
77	Impact of packing fraction on diffusion-driven pattern formation in a two-dimensional system of rod-like particles. Journal of Physics: Conference Series, 2018, 1136, 012015.	0.3	0
78	Effect of dispersity of particle length on electrical conductivity of two-dimensional systems. Journal of Physics: Conference Series, 2019, 1163, 012006.	0.3	0
79	Characterization of domain formation during random sequential adsorption of stiff linear <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>k</mml:mi></mml:math> -mers onto a square lattice. Physical Review E, 2020, 102, 042119.	0.8	0