Alexandr Kupershtokh

List of Publications by Year
in descending order

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40	823	933447 10	501196 28
papers	citations	h-index	g-index

40	40	40	593
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An evaporation flux of pure vapor in the method of lattice Boltzmann equations. Journal of Physics: Conference Series, 2021, 2057, 012070.	0.4	1
2	Electric control of dielectric droplets and films. Physics of Fluids, 2021, 33, 122103.	4.0	8
3	Three-dimensional modeling of dynamics of liquid dielectric droplets on a wettable surface in the electric field. Journal of Physics: Conference Series, 2020, 1677, 012067.	0.4	1
4	Contact angles in the presence of an electrical field. Journal of Physics: Conference Series, 2020, 1675, 012106.	0.4	4
5	Simulations of partial discharges in a chain of gas cavities at AC voltage. Journal of Physics: Conference Series, 2020, 1675, 012105.	0.4	0
6	Dielectric droplet on a superhydrophobic substrate in an electric field. , 2019, , .		1
7	Dynamics of bubbles in liquid dielectrics under the action of an electric field: lattice Boltzmann method. Journal of Physics: Conference Series, 2019, 1359, 012116.	0.4	1
8	Simulation of flows with phase transitions and heat transfer using mesoscopic methods. Journal of Physics: Conference Series, 2019, 1369, 012065.	0.4	0
9	Lattice Boltzmann method in hydrodynamics and thermophysics. Journal of Physics: Conference Series, 2018, 1105, 012058.	0.4	2
10	Use of the lattice Boltzmann method for simulations of heating a â€œplasmaâ€•in channels and vapor-gas cavities at electrical discharges in liquid dielectrics. Journal of Physics: Conference Series, 2018, 1128, 012115.	0.4	0
11	Droplet flow along the wall of rectangular channel with gradient of wettability. AIP Conference Proceedings, 2018, , .	0.4	1
12	"Relay-race" mechanism of partial discharges in a long chain of cavities for stochastic nature of process. Journal of Electrostatics, 2018, 94, 8-13.	1.9	5
13	Simulation of the local electric field at the tips of a growing streamer at the breakdown in liquid dielectric. , 2017, , .		0
14	Dynamics of bubble in dielectric liquid in electric field: Mesoscopic simulation. , 2017, , .		3
15	Simulation of partial discharges in cavities and streamers with high spatial resolution. Journal of Physics: Conference Series, 2017, 899, 082001.	0.4	2
16	Critical electric-field strength for anisotropic spinodal decomposition of water. Technical Physics Letters, 2017, 43, 736-738.	0.7	0
17	A "relay-race" wave propagation of partial discharges in a chain of gas inclusions in condensed dielectrics. , 2017, , .		0
18	"Relay-race" mechanism of propagation of partial discharges in condensed dielectrics at linearly increasing voltage. Journal of Physics: Conference Series, 2017, 899, 082004.	0.4	1

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19	Simulation of waves of partial discharges in a chain of gas inclusions located in condensed dielectrics. Journal of Physics: Conference Series, 2016, 754, 102006.	0.4	11
20	Generation of aerosol and droplets in binary mixtures of saturated water vapor with air and molecular gases. Atmospheric and Oceanic Optics, 2016, 29, 127-134.	1.3	2
21	The Rupture of Thin Liquid Films Placed on Solid and Liquid Substrates in Gravity Body Forces. Communications in Computational Physics, 2015, 17, 1301-1319.	1.7	5
22	Study of microstructure of dielectric liquid in high electric field. , 2014, , .		1
23	Three-dimensional LBE simulations of a decay of liquid dielectrics with a solute gas into the system of gasâ€“vapor channels under the action of strong electric fields. Computers and Mathematics With Applications, 2014, 67, 340-349.	2.7	21
24	A lattice Boltzmann equation method for real fluids with the equation of state known in tabular form only in regions of liquid and vapor phases. Computers and Mathematics With Applications, 2011, 61, 3537-3548.	2.7	21
25	Criterion of numerical instability of liquid state in LBE simulations. Computers and Mathematics With Applications, 2010, 59, 2236-2245.	2.7	66
26	On equations of state in a lattice Boltzmann method. Computers and Mathematics With Applications, 2009, 58, 965-974.	2.7	388
27	Anisotropic spinodal decomposition of a polar dielectric in a strong electric field: Molecular dynamics simulation. Technical Physics Letters, 2009, 35, 479-482.	0.7	7
28	Stochastic models of partial discharge activity in solid and liquid dielectrics. IET Science, Measurement and Technology, 2007, 1, 303-311.	1.6	50
29	Lattice Boltzmann equation method in electrohydrodynamic problems. Journal of Electrostatics, 2006, 64, 581-585.	1.9	125
30	Simulation of the development of branching streamer structures in dielectric liquids with pulsed conductivity of channels. Technical Physics Letters, 2006, 32, 406-409.	0.7	14
31	Anisotropic instability of dielectric liquids and decay to vapor-liquid system in strong electric fields. Technical Physics Letters, 2006, 32, 634-637.	0.7	12
32	Simulation of partial discharge activity in solid dielectrics under AC voltage. Technical Physics Letters, 2006, 32, 680-683.	0.7	10
33	Electrohydrodynamic instability of dielectric liquids in high electric fields and decay into an anisotropic two-phase vapor-liquid system. Doklady Physics, 2006, 51, 662-666.	0.7	1
34	Stochastic model of breakdown initiation in dielectric liquids. Journal Physics D: Applied Physics, 2002, 35, 3106-3121.	2.8	13
35	Simulation of breakdown in air using cellular automata with streamer to leader transition. Journal Physics D: Applied Physics, 2001, 34, 936-946.	2.8	26
36	Simulation of Convective Detonation Waves in a Porous Medium by the Lattice Gas Method. Combustion, Explosion and Shock Waves, 2001, 37, 206-213.	0.8	2

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37	Model for the coagulation of carbon clusters at high densities and temperatures. Combustion, Explosion and Shock Waves, 1998, 34, 460-466.	0.8	8
38	Fractal structure formation in explosion. Combustion, Explosion and Shock Waves, 1991, 27, 231-236.	0.8	10
39	Temperature of detonation products with explosion in a chamber. Combustion, Explosion and Shock Waves, 1986, 22, 368-372.	0.8	0
40	Interpretation of optical measurements in channel and shock-wave expansion speeds for a high-voltage discharge in a liquid. Journal of Applied Mechanics and Technical Physics, 1981, 21, 790-794.	0.5	0