

Alexandr Kupershtokh

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9696840/publications.pdf>

Version: 2024-02-01

40
papers

823
citations

933447

10
h-index

501196

28
g-index

40
all docs

40
docs citations

40
times ranked

593
citing authors

#	ARTICLE	IF	CITATIONS
1	On equations of state in a lattice Boltzmann method. Computers and Mathematics With Applications, 2009, 58, 965-974.	2.7	388
2	Lattice Boltzmann equation method in electrohydrodynamic problems. Journal of Electrostatics, 2006, 64, 581-585.	1.9	125
3	Criterion of numerical instability of liquid state in LBE simulations. Computers and Mathematics With Applications, 2010, 59, 2236-2245.	2.7	66
4	Stochastic models of partial discharge activity in solid and liquid dielectrics. IET Science, Measurement and Technology, 2007, 1, 303-311.	1.6	50
5	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
6	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
7	Three-dimensional LBE simulations of a decay of liquid dielectrics with a solute gas into the system of gas-vapor channels under the action of strong electric fields. Computers and Mathematics With Applications, 2014, 67, 340-349.	2.7	21
8	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
9	Stochastic model of breakdown initiation in dielectric liquids. Journal Physics D: Applied Physics, 2002, 35, 3106-3121.	2.8	13
10	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
11	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
12	Fractal structure formation in explosion. Combustion, Explosion and Shock Waves, 1991, 27, 231-236.	0.8	10
13	Simulation of partial discharge activity in solid dielectrics under AC voltage. Technical Physics Letters, 2006, 32, 680-683.	0.7	10
14	Model for the coagulation of carbon clusters at high densities and temperatures. Combustion, Explosion and Shock Waves, 1998, 34, 460-466.	0.8	8
15	Electric control of dielectric droplets and films. Physics of Fluids, 2021, 33, 122103.	4.0	8
16	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
17	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
18	"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

#	ARTICLE	IF	CITATIONS
19	Contact angles in the presence of an electrical field. Journal of Physics: Conference Series, 2020, 1675, 012106.	0.4	4
20	Dynamics of bubble in dielectric liquid in electric field: Mesoscopic simulation. , 2017, , .		3
21	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
22	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
23	Simulation of partial discharges in cavities and streamers with high spatial resolution. Journal of Physics: Conference Series, 2017, 899, 082001.	0.4	2
24	Lattice Boltzmann method in hydrodynamics and thermophysics. Journal of Physics: Conference Series, 2018, 1105, 012058.	0.4	2
25	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
26	Study of microstructure of dielectric liquid in high electric field. , 2014, , .		1
27	"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
28	Droplet flow along the wall of rectangular channel with gradient of wettability. AIP Conference Proceedings, 2018, , .	0.4	1
29	Dielectric droplet on a superhydrophobic substrate in an electric field. , 2019, , .		1
30	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
31	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
32	An evaporation flux of pure vapor in the method of lattice Boltzmann equations. Journal of Physics: Conference Series, 2021, 2057, 012070.	0.4	1
33	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
34	Temperature of detonation products with explosion in a chamber. Combustion, Explosion and Shock Waves, 1986, 22, 368-372.	0.8	0
35	Simulation of the local electric field at the tips of a growing streamer at the breakdown in liquid dielectric. , 2017, , .		0
36	Critical electric-field strength for anisotropic spinodal decomposition of water. Technical Physics Letters, 2017, 43, 736-738.	0.7	0

#	ARTICLE	IF	CITATIONS
37	A "relay-race" wave propagation of partial discharges in a chain of gas inclusions in condensed dielectrics. , 2017, , .		0
38	Use of the lattice Boltzmann method for simulations of heating a "plasma" in channels and vapor-gas cavities at electrical discharges in liquid dielectrics. Journal of Physics: Conference Series, 2018, 1128, 012115.	0.4	0
39	Simulation of flows with phase transitions and heat transfer using mesoscopic methods. Journal of Physics: Conference Series, 2019, 1369, 012065.	0.4	0
40	Simulations of partial discharges in a chain of gas cavities at AC voltage. Journal of Physics: Conference Series, 2020, 1675, 012105.	0.4	0