

Arkadiusz Brańka

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2192281/publications.pdf>

Version: 2024-02-01

46
papers

909
citations

393982

19
h-index

476904

29
g-index

47
all docs

47
docs citations

47
times ranked

657
citing authors

#	ARTICLE	IF	CITATIONS
1	Interactions between microgel particles. <i>Soft Matter</i> , 2009, 5, 2681.	1.2	110
2	Auxeticity of cubic materials. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 2063-2071.	0.7	98
3	Auxeticity of cubic materials under pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 96-104.	0.7	67
4	Algorithms for Brownian dynamics computer simulations: Multivariable case. <i>Physical Review E</i> , 1999, 60, 2381-2387.	0.8	50
5	Thermodynamic and dynamical properties of the hard sphere system revisited by molecular dynamics simulation. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 6886-6899.	1.3	48
6	The influence of potential softness on the transport coefficients of simple fluids. <i>Journal of Chemical Physics</i> , 2005, 122, 234504.	1.2	36
7	Cubic materials in different auxetic regions: Linking microscopic to macroscopic formulations. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 1373-1378.	0.7	34
8	Time correlation functions of hard sphere and soft sphere fluids. <i>Physical Review E</i> , 2004, 69, 021202.	0.8	31
9	Percolation threshold of hard-sphere fluids in between the soft-core and hard-core limits. <i>Molecular Physics</i> , 2006, 104, 3137-3146.	0.8	29
10	Thermodynamic properties and entropy scaling law for diffusivity in soft spheres. <i>Physical Review E</i> , 2014, 90, 012106.	0.8	26
11	Scaling of Lennard-Jones liquid elastic moduli, viscoelasticity and other properties along fluid-solid coexistence. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 1514-1525.	0.7	26
12	Thermodynamic properties of inverse power fluids. <i>Physical Review E</i> , 2006, 74, 031202.	0.8	24
13	Elastic properties of two-dimensional hard disks in the close-packing limit. <i>Journal of Chemical Physics</i> , 2003, 119, 939-946.	1.2	23
14	The Lennard-Jones melting line and isomorphism. <i>Journal of Chemical Physics</i> , 2015, 143, 234504.	1.2	23
15	Non-equilibrium phase behavior and friction of confined molecular films under shear: A non-equilibrium molecular dynamics study. <i>Journal of Chemical Physics</i> , 2016, 145, 164704.	1.2	23
16	Comprehensive representation of the Lennard-Jones equation of state based on molecular dynamics simulation data. <i>Journal of Chemical Physics</i> , 2018, 148, 114505.	1.2	22
17	Boundary-controlled barostats for slab geometries in molecular dynamics simulations. <i>Physical Review E</i> , 2014, 90, 043302.	0.8	21
18	Static properties and time correlation functions of fluids with steeply repulsive potentials. <i>Molecular Physics</i> , 2004, 102, 2057-2070.	0.8	20

#	ARTICLE	IF	CITATIONS
19	More efficient Brownian dynamics algorithms. <i>Molecular Physics</i> , 2000, 98, 1949-1960.	0.8	19
20	Soft-sphere soft glasses. <i>Journal of Chemical Physics</i> , 2009, 131, 204506.	1.2	18
21	Pair correlation function of soft-sphere fluids. <i>Journal of Chemical Physics</i> , 2011, 134, 064115.	1.2	15
22	The second virial coefficient and critical point behavior of the Mie Potential. <i>Journal of Chemical Physics</i> , 2016, 145, 084505.	1.2	14
23	A comprehensive study of the thermal conductivity of the hard sphere fluid and solid by molecular dynamics simulation. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 8834-8845.	1.3	14
24	Mechanical, rheological and transport properties of soft particle fluids. <i>Molecular Simulation</i> , 2005, 31, 945-959.	0.9	10
25	Representation of the direct correlation function of the hard-sphere fluid. <i>Physical Review E</i> , 2017, 95, 062104.	0.8	10
26	Calculation of nanocolloidal liquid time scales by molecular dynamics simulations. <i>Molecular Physics</i> , 1999, 96, 1757-1766.	0.8	9
27	Thermodynamic curvature of soft-sphere fluids and solids. <i>Physical Review E</i> , 2018, 97, 022119.	0.8	9
28	Another Look at Auxeticity of 2D Square Media. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 2000485.	0.7	9
29	Galilean-invariant Nosé-Hoover-type thermostats. <i>Physical Review E</i> , 2015, 91, 033312.	0.8	7
30	Spatially dependent diffusion coefficient as a model for pH sensitive microgel particles in microchannels. <i>Biomicrofluidics</i> , 2016, 10, 054118.	1.2	7
31	Structural properties of additive binary hard-sphere mixtures. <i>Physical Review E</i> , 2020, 101, 012117.	0.8	7
32	Application of cell models to the melting and sublimation lines of the Lennard-Jones and related potential systems. <i>Physical Review E</i> , 2021, 104, 044119.	0.8	7
33	Equation of state of inverse power fluids. <i>Molecular Physics</i> , 2004, 102, 2049-2056.	0.8	6
34	The effects of particle softness on the dynamics of molecular and colloidal systems. <i>Molecular Physics</i> , 2005, 103, 2359-2373.	0.8	6
35	Pair force distributions in simple fluids. <i>Journal of Chemical Physics</i> , 2011, 135, 164507.	1.2	6
36	Molecular and Brownian Dynamics Simulations of Self-Diffusion in Inverse Power Fluids. <i>Physics and Chemistry of Liquids</i> , 1994, 28, 95-115.	0.4	5

#	ARTICLE	IF	CITATIONS
37	Second virial coefficient of rod-shaped molecules and molecular dynamics simulations of the isotropic phase. <i>Physical Review E</i> , 2015, 91, 042134.	0.8	5
38	Structural properties of additive binary hard-sphere mixtures. II. Asymptotic behavior and structural crossovers. <i>Physical Review E</i> , 2021, 104, 024128.	0.8	3
39	ELASTIC PROPERTIES OF INVERSE POWER FLUIDS. <i>Computational Methods in Science and Technology</i> , 2004, 10, 127-136.	0.3	3
40	Nanowire Stretching by Non-Equilibrium Molecular Dynamics. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600861.	0.7	2
41	Improvement of the blue phase stability in chiral nematic liquid crystal mixtures. <i>Phase Transitions</i> , 2017, 90, 95-98.	0.6	2
42	Determining the Kerr constant in optically isotropic liquid crystals. <i>Physical Review E</i> , 2022, 106, .	0.8	2
43	Non-Equilibrium Phase Behavior of Confined Molecular Films at Low Shear Rates. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600862.	0.7	1
44	A Nosé-Hoover Thermostat Adapted to a Slab Geometry. <i>Computational Methods in Science and Technology</i> , 2017, 23, .	0.3	1
45	Structural properties of additive binary hard-sphere mixtures. III. Direct correlation functions. <i>Physical Review E</i> , 2021, 104, 054142.	0.8	1
46	Jerzy Mańecki. <i>Phase Transitions</i> , 2018, 91, 783-784.	0.6	0