MichaÅ, CieÅ›la

List of Publications by Year
in descending order

73	1,025	430874	501196
papers	citations	18 h-index	28 g-index

73	73	73	656
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The effect of substrate waviness on random sequential adsorption packing properties. Journal of Statistical Mechanics: Theory and Experiment, 2022, 2022, 033303.	2.3	1
2	Random sequential adsorption of rounded rectangles, isosceles and right triangles. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 184003.	2.1	3
3	Optimal hybrid membrane structure based on experimental results and simulation analysis of diffusion process. Journal of Materials Science, 2022, 57, 11491-11504.	3.7	2
4	Nanoparticle deposition on heterogeneous surfaces: Random sequential adsorption modeling and experiments. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 617, 126296.	4.7	9
5	Algorithms to generate saturated random sequential adsorption packings built of rounded polygons. Physical Review E, 2021, 103, 063308.	2.1	6
6	Qualitative Description of Detachment Forces for Macromolecules. Macromolecules, 2021, 54, 7377-7387.	4.8	1
7	Random sequential adsorption of oriented rectangles with random aspect ratio. Physical Review E, 2021, 104, 034903.	2.1	4
8	Diffusion in crowded environments: Trapped by the drift. Physical Review E, 2021, 104, 044127.	2.1	4
9	Deposition of Polymer Particles with Fibrinogen Corona at Abiotic Surfaces under Flow Conditions. Molecules, 2021, 26, 6299.	3.8	5
10	Effective modelling of adsorption monolayers built of complex molecules. Journal of Computational Physics, 2020, 401, 108999.	3.8	6
11	Design of polymer membrane morphology with prescribed structure and diffusion properties. Chemical Physics, 2020, 531, 110662.	1.9	4
12	A Simple Mechanism Causing Wealth Concentration. Entropy, 2020, 22, 1148.	2.2	4
13	Formation of Poly-<scp>l</scp>-lysine Monolayers on Silica: Modeling and Experimental Studies. Journal of Physical Chemistry C, 2020, 124, 4571-4581.	3.1	19
14	Kinetics of random sequential adsorption of two-dimensional shapes on a one-dimensional line. Physical Review E, 2020, 101, 042901.	2.1	9
15	Mechanisms of Fibrinogen Adsorption on Silica Sensors at Various pHs: Experiments and Theoretical Modeling. Langmuir, 2019, 35, 11275-11284.	3.5	15
16	Multimodal stationary states under Cauchy noise. Physical Review E, 2019, 99, 052118.	2.1	8
17	Random sequential adsorption of ellipsoids and spherocylinders. Physica A: Statistical Mechanics and Its Applications, 2019, 527, 121361.	2.6	11
18	Investigation of quaternary structure of aggregating 3-ketosteroid dehydrogenase from Sterolibacterium denitrificans: In the pursuit of consensus of various biophysical techniques. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 1027-1039.	2.4	8

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19	Random sequential adsorption of particles with tetrahedral symmetry. Physical Review E, 2019, 100, 052903.	2.1	6
20	Saturated random packing built of arbitrary polygons under random sequential adsorption protocol. Physical Review E, 2019, 100, 062901.	2.1	9
21	Boundary conditions in random sequential adsorption. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 043302.	2.3	33
22	Random sequential adsorption of cubes. Journal of Chemical Physics, 2018, 148, 024501.	3.0	17
23	Random sequential adsorption of cuboids. Journal of Chemical Physics, 2018, 149, 194704.	3.0	9
24	Random sequential adsorption of unoriented rectangles at saturation. Physical Review E, 2018, 98, .	2.1	18
25	Saturated packings of convex anisotropic objects under random sequential adsorption protocol. Physical Review E, 2018, 98, .	2.1	24
26	Lysozyme Monolayers at Polymer Microparticles: Electrokinetic Characteristics and Modeling. Journal of Physical Chemistry C, 2018, 122, 17846-17855.	3.1	11
27	Random Sequential Adsorption of Unoriented Cuboids with a Square Base and a Comparison of Cuboid--Cuboid Intersection Tests. Acta Physica Polonica B, 2018, 49, 981.	0.8	5
28	Structure-diffusion relationship of polymer membranes with different texture. Physical Review E, 2017, 95, 012155.	2.1	6
29	Surface fine structure influence on saturated random packings. Journal of Chemical Physics, 2017, 146, 054706.	3.0	4
30	Adsorption/Desorption Transition of Recombinant Human Neurotrophin 4: Physicochemical Characterization. Langmuir, 2017, 33, 9548-9557.	3.5	8
31	Scaling Properties of the Number of Random Sequential Adsorption Iterations Needed to Generate Saturated Random Packing. Journal of Statistical Physics, 2017, 166, 39-44.	1.2	15
32	Formation mechanism of human serum albumin monolayers on positively charged polymer microparticles. Colloids and Surfaces B: Biointerfaces, 2017, 159, 929-936.	5.0	17
33	Modulated nematic structures and chiral symmetry breaking in 2D. Liquid Crystals, 2016, , 1-11.	2.2	1
34	In a search for a shape maximizing packing fraction for two-dimensional random sequential adsorption. Journal of Chemical Physics, 2016, 145, 044708.	3.0	39
35	Managing numerical errors in random sequential adsorption. Surface Science, 2016, 651, 182-186.	1.9	10
36	Structure and transport properties of ethylcellulose membranes with different types and granulation of magnetic powder. Physica A: Statistical Mechanics and Its Applications, 2016, 452, 241-250.	2.6	8

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37	Monolayers of the HSA dimer on polymeric microparticles-electrokinetic characteristics. Colloids and Surfaces B: Biointerfaces, 2016, 148, 229-237.	5.0	18
38	Fibrinogen adsorption mechanisms at the gold substrate revealed by QCM-D measurements and RSA modeling. Colloids and Surfaces B: Biointerfaces, 2016, 139, 123-131.	5.0	22
39	Modelling and measurements of fibrinogen adsorption on positively charged microspheres. Condensed Matter Physics, 2016, 19, 13801.	0.7	2
40	Shapes for maximal coverage for two-dimensional random sequential adsorption. Physical Chemistry Chemical Physics, 2015, 17, 24376-24381.	2.8	28
41	Random sequential adsorption of starlike particles. Physical Review E, 2015, 91, 042404.	2.1	8
42	Taming LÃ©vy flights in confined crowded geometries. Journal of Chemical Physics, 2015, 142, 164904.	3.0	4
43	High density monolayers of plasmid protein on latex particles: experiments and theoretical modeling. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P04003.	2.3	9
44	Random packing of regular polygons and star polygons on a flat two-dimensional surface. Physical Review E, 2014, 90, 022402.	2.1	30
45	Properties of random sequential adsorption of generalized dimers. Physical Review E, 2014, 89, 042404.	2.1	19
46	Fibrinogen Monolayers of Controlled Coverage and Conformations for Biosensing Applications. Key Engineering Materials, 2014, 605, 243-246.	0.4	0
47	Tracer diffusion inside fibrinogen layers. Journal of Chemical Physics, 2014, 140, 044706.	3.0	7
48	Human Fibrinogen Adsorption on Positively Charged Latex Particles. Langmuir, 2014, 30, 11165-11174.	3.5	29
49	Kinetics of random sequential adsorption of nearly spherically symmetric particles. Physical Review E, 2014, 89, 022401.	2.1	9
50	Random sequential adsorption of tetramers. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P07011.	2.3	7
51	Ordering in fibrinogen layers: A numerical study. Colloids and Surfaces B: Biointerfaces, 2013, 110, 178-182.	5.0	9
52	Modelling of interacting dimer adsorption. Surface Science, 2013, 612, 24-30.	1.9	24
53	Continuum random sequential adsorption of polymer on a flat and homogeneous surface. Physical Review E, 2013, 87, 052401.	2.1	44
54	Human Fibrinogen Monolayers on Latex Particles: Role of Ionic Strength. Langmuir, 2013, 29, 3700-3710.	3.5	39

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55	Mechanisms of Fibrinogen Adsorption at Solid Substrates at Lower pH. Langmuir, 2013, 29, 7005-7016.	3.5	44
56	Random packing of spheres in Menger sponge. Journal of Chemical Physics, 2013, 138, 214704.	3.0	16
57	Random sequential adsorption of trimers and hexamers. Journal of Molecular Modeling, 2013, 19, 5423-5427.	1.8	16
58	Domain Structure Created by Irreversible Adsorption of Dimers. Acta Physica Polonica B, 2013, 44, 937.	0.8	5
59	Anomalous Diffusion on Fractal Structure of Magnetic Membranes. Acta Physica Polonica B, 2013, 44, 955.	0.8	12
60	Competitive Adsorption of Bimodal Latex Suspension. Acta Physica Polonica B, 2013, 44, 945.	0.8	2
61	An RSA study of dimers. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P03015.	2.3	12
62	Random sequential adsorption on fractals. Journal of Chemical Physics, 2012, 137, 044706.	3.0	23
63	Mechanisms of Fibrinogen Adsorption at Solid Substrates. Langmuir, 2011, 27, 6868-6878.	3.5	85
64	Landau-de Gennes Theory of Thermotropic Biaxial Nematics: A Role of Fluctuations. Molecular Crystals and Liquid Crystals, 2011, 545, 214/[1438]-219/[1443].	0.9	2
65	Kinetics of Fibrinogen Adsorption on Hydrophilic Substrates. Langmuir, 2010, 26, 11934-11945.	3.5	59
66	Molecular Dynamisc Simulation of Polyelectrolites. Procedia Chemistry, 2009, 1, 1547-1552.	0.7	0
67	Synchronization in the presence of memory. Europhysics Letters, 2007, 79, 10002.	2.0	14
68	Structure of Chiral Isotropic Phases. Molecular Crystals and Liquid Crystals, 2005, 438, 9/[1573]-16/[1580].	0.9	0
69	Self-consistent model of blue phase III to isotropic phase transition. Physical Review E, 2004, 70, 012701.	2.1	8
70	Correlations in the isotropic phases of chiral liquid crystals: The role of helicity modes. Physical Review E, 2003, 67, 061705.	2.1	13
71	Synchronization induced by Langevin dynamics. Physical Review E, 2001, 63, 065202.	2.1	18
72	Polymer fragmentation in extensional flow. Physical Review E, 2001, 63, 061801.	2.1	23

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73	Structure formation in monolayers composed of hard bent-core molecules. Liquid Crystals, 0, , 1-19.	2.2	6