Julian Talbot

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60 38 4,192 125 h-index g-index citations papers 5.08 4,356 131 3.4 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
125	From car parking to protein adsorption: an overview of sequential adsorption processes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2000 , 165, 287-324	5.1	333
124	Surface exclusion effects in adsorption processes. <i>Journal of Chemical Physics</i> , 1989 , 91, 4401-4409	3.9	305
123	Kinetics of random sequential adsorption. <i>Physical Review Letters</i> , 1989 , 62, 175-178	7.4	181
122	Random sequential adsorption of anisotropic particles. I. Jamming limit and asymptotic behavior. Journal of Chemical Physics, 1992 , 97, 5212-5218	3.9	157
121	A molecular dynamics simulation of nitrogen adsorbed on graphite. <i>Molecular Physics</i> , 1984 , 51, 1331-	135. 6	109
120	A Brownian Dynamics Study of the Initial Stages of Hen Egg-White Lysozyme Adsorption at a Solid Interface. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 3610-3613	3.4	103
119	Molecular dynamics simulation using hard particles. <i>Computer Physics Reports</i> , 1989 , 9, 301-353		100
118	Molecular theory of vapor phase nucleation: The physically consistent cluster. <i>Journal of Chemical Physics</i> , 1990 , 92, 1266-1274	3.9	98
117	Unexpected asymptotic behavior in random sequential adsorption of nonspherical particles. <i>Physical Review A</i> , 1989 , 40, 4808-4811	2.6	91
116	Random sequential addition: A distribution function approach. <i>Journal of Statistical Physics</i> , 1991 , 63, 167-202	1.5	88
115	Random sequential adsorption of anisotropic particles. II. Low coverage kinetics. <i>Journal of Chemical Physics</i> , 1992 , 97, 5219-5228	3.9	84
114	Studies of the Orientational Ordering Transition in Nitrogen Adsorbed on Graphite. <i>Physical Review Letters</i> , 1983 , 51, 192-195	7.4	81
113	Generalized random sequential adsorption. <i>Journal of Chemical Physics</i> , 1990 , 93, 8352-8360	3.9	80
112	A Particle-Level Model of Irreversible Protein Adsorption with a Postadsorption Transition. <i>Journal of Colloid and Interface Science</i> , 1998 , 207, 317-323	9.3	78
111	Influence of bulk diffusion on the adsorption of hard spheres on a flat surface. <i>Journal of Chemical Physics</i> , 1992 , 97, 3813-3820	3.9	77
110	Mobility of adsorbed proteins: a Brownian dynamics study. <i>Biophysical Journal</i> , 2000 , 78, 110-20	2.9	71
109	Random sequential adsorption of mixtures. <i>Physical Review A</i> , 1989 , 40, 422-427	2.6	67

108	Irreversible adsorption on nonuniform surfaces: the random site model. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 4256-4258		65
107	Analysis of steric hindrance effects on adsorption kinetics and equilibria. AICHE Journal, 1994, 40, 1685-	·15696	65
106	Random sequential addition of hard spheres. <i>Molecular Physics</i> , 1991 , 72, 1397-1406	1.7	65
105	A comparison of perturbative schemes and integral equation theories with computer simulations for fluids at high pressures. <i>Journal of Chemical Physics</i> , 1986 , 85, 2187-2192	3.9	61
104	Route optimisation and solving Zermelo's navigation problem during long distance migration in cross flows. <i>Ecology Letters</i> , 2014 , 17, 137-43	10	58
103	New Equations for Multicomponent Adsorption Kinetics. <i>Langmuir</i> , 1994 , 10, 1663-1666	4	58
102	Analytic model for a ballistic deposition process. <i>Physical Review Letters</i> , 1992 , 68, 958-961	7.4	57
101	Asymptotic behavior of particle deposition. <i>Physical Review Letters</i> , 1991 , 66, 1603-1605	7.4	54
100	Properties of jamming configurations built up by the adsorption of Brownian particles onto solid surfaces. <i>Physical Review A</i> , 1991 , 44, 6926-6928	2.6	52
99	Molecular-dynamics simulation of fluid N2 adsorbed on a graphite surface. <i>Faraday Discussions of the Chemical Society</i> , 1985 , 80, 91		46
98	Analysis of adsorption selectivity in a one-dimensional model system. AICHE Journal, 1997, 43, 2471-247	78 .6	45
97	Kinetics of a frictional granular motor. <i>Physical Review Letters</i> , 2011 , 107, 138001	7.4	44
96	Irreversible adsorption of macromolecules at a liquid lolid interface: Theoretical studies of the effects of conformational change. <i>Journal of Chemical Physics</i> , 1994 , 101, 7064-7073	3.9	43
95	Structure of the hard ellipsoid fluid. <i>Journal of Chemical Physics</i> , 1990 , 92, 3048-3057	3.9	43
94	The planar dumbbell fluid. Journal of Chemical Physics, 1985, 83, 6419-6424	3.9	42
93	Mass and size effects in three-dimensional vibrofluidized granular mixtures. <i>Physical Review E</i> , 2003 , 68, 021304	2.4	41
92	Wall-enhanced convection in vibrofluidized granular systems. <i>Physical Review Letters</i> , 2002 , 89, 064301	7.4	41
91	Adsorption-desorption model and its application to vibrated granular materials. <i>Physical Review E</i> , 2000 , 61, 5429-38	2.4	41

90	A comparison between molecular-dynamics and theoretical results for the structure of fluids of hard ellipsoids. <i>Molecular Physics</i> , 1990 , 70, 285-297	1.7	41
89	Phase transitions in systems of grafted rods. <i>Physical Review Letters</i> , 1988 , 61, 1376-1379	7.4	39
88	Exact solution of a generalized ballistic-deposition model. <i>Physical Review E</i> , 1993 , 48, 480-488	2.4	38
87	Molecular thermodynamics of binary mixture adsorption: A scaled particle theory approach. <i>Journal of Chemical Physics</i> , 1997 , 106, 4696-4706	3.9	33
86	Static and dynamic correlations in fluids with internal quantum states: Computer simulations and theory. <i>Physical Review A</i> , 1988 , 38, 1381-1394	2.6	32
85	An adsorption-desorption process on a line: kinetics of the approach to closest packing. <i>Journal of Physics A</i> , 1994 , 27, L195-L200		31
84	A molecular dynamics simulation of tje uniaxial phase of N2 adsorbed on graphite. <i>Surface Science</i> , 1986 , 169, 71-90	1.8	31
83	First-layer formation in ballistic deposition of spherical particles: Kinetics and structure. <i>Journal of Chemical Physics</i> , 1993 , 99, 9296-9303	3.9	30
82	First-Passage Times in d-Dimensional Heterogeneous Media. <i>Physical Review Letters</i> , 2015 , 115, 240601	7.4	28
81	Random sequential adsorption of squares on a lattice. <i>The Journal of Physical Chemistry</i> , 1988 , 92, 4826	-4829	27
80	Effect of the Bulk Diffusion on the Jamming Limit Configurations for Irreversible Adsorption. <i>Europhysics Letters</i> , 1993 , 21, 135-140	1.6	25
79	Adhesion of hard spheres under the influence of double-layer, van der Waals, and gravitational potentials at a solid/liquid interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 3004-8	11.5	25
78	Homogeneous cooling of hard ellipsoids. <i>Granular Matter</i> , 2012 , 14, 91-97	2.6	24
77	Orientational ordering in sheared inelastic dumbbells. <i>Physical Review E</i> , 2009 , 80, 031304	2.4	24
76	Kinetics of irreversible adsorption with a particle conformational change: A density expansion approach. <i>Physical Review E</i> , 1996 , 53, 785-798	2.4	24
75	Random sequential adsorption of polydisperse mixtures: asymptotic kinetics and structure. <i>Journal of Physics A</i> , 1991 , 24, L913-L917		24
74	Molecular rattling in two-dimensional fluids: Simulations and theory. <i>Journal of Chemical Physics</i> , 1992 , 96, 593-604	3.9	22
73	New analytical and numerical results on virial coefficients for 2-D hard convex bodies. <i>Molecular Physics</i> , 1991 , 73, 773-787	1.7	21

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72	Transport properties of the hard ellipsoid fluid. Journal of Chemical Physics, 1993, 99, 6087-6097	3.9	20
71	Percolation and structural properties of particle deposits. <i>Physical Review E</i> , 1995 , 51, 1353-1363	2.4	19
70	Saturation coverage in random sequential adsorption of very elongated particles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992 , 191, 248-252	3.3	19
69	Accuracy of Enskog theory for rotational versus translational motion: A molecular-dynamics study. <i>Physical Review A</i> , 1989 , 39, 4330-4332	2.6	19
68	On the orientational properties of some one-dimensional model systems. <i>Journal of Statistical Physics</i> , 1987 , 49, 1221-1234	1.5	19
67	Reorientation of N2 adsorbed on graphite in various computer simulated phases. <i>Molecular Physics</i> , 1985 , 54, 183-195	1.7	19
66	Distribution function analysis of the structure of depleted particle configurations. <i>Physical Review E</i> , 1997 , 56, R1299-R1301	2.4	18
65	Restructuring effects in irreversible deposition of spheres on a plane. <i>Physical Review E</i> , 1994 , 49, 3239	-3252	18
64	The second virial coefficient of planar dumb-bells. <i>Molecular Physics</i> , 1985 , 54, 1065-1071	1.7	18
63	Exactly solvable models of irreversible adsorption with particle spreading. <i>Physical Review E</i> , 1994 , 49, 5525-5534	2.4	17
62	Thermalization of an anisotropic granular particle. <i>Physical Review E</i> , 2004 , 69, 051106	2.4	16
61	Time dependent desorption: A memory function approach. <i>Adsorption</i> , 1996 , 2, 89-94	2.6	16
60	Short-time correlations in liquids: Molecular-dynamics simulation of hard spheroids. <i>Physical Review Letters</i> , 1990 , 65, 2828-2831	7.4	16
59	Evaluation of affinity sensor response kinetics towards dimeric ligands linked with spacers of different rigidity: Immobilized recombinant granulocyte colony-stimulating factor based synthetic receptor binding with genetically engineered dimeric analyte derivatives. <i>Biosensors and</i>	11.8	15
58	Aging and response properties in the parking-lot model. <i>European Physical Journal E</i> , 2001 , 5, 445-449	1.5	15
57	Effect of transport mechanisms on the irreversible adsorption of large molecules. <i>Physical Review E</i> , 1995 , 51, 5985-5993	2.4	15
56	Convection in vibrated annular granular beds. <i>Physical Review E</i> , 2005 , 71, 061301	2.4	14
55	The Distribution of Electron DonorAcceptor Potential on Protein Surfaces. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 725-729	3.4	14

54	A structural comparison of random sequential adsorption and equilibrium configurations of spherocylinders. <i>Journal of Chemical Physics</i> , 1994 , 101, 9164-9180	3.9	14
53	Computer simulation of a classical fluid with internal quantum states. <i>Physical Review A</i> , 1987 , 35, 942-9	9 4 46	14
52	Modelling of immunosensor response: the evaluation of binding kinetics between an immobilized receptor and structurally-different genetically engineered ligands. <i>Sensors and Actuators B: Chemical</i> , 2019 , 297, 126770	8.5	13
51	Effect of dynamic and static friction on an asymmetric granular piston. <i>Physical Review E</i> , 2012 , 85, 0213	3104	13
50	Dynamics of sheared inelastic dumbbells. <i>Journal of Fluid Mechanics</i> , 2010 , 660, 475-498	3.7	13
49	Sluggish kinetics in the parking lot model. <i>Journal of Physics A</i> , 1999 , 32, 2997-3003		13
48	PercusMevick-like integral equation for random sequential addition. <i>Journal of Chemical Physics</i> , 1995 , 103, 1607-1613	3.9	13
47	Kinetics of irreversible adsorption of mixtures of pointlike and fixed-size particles: Asymptotic behavior in D dimensions. <i>Physical Review A</i> , 1992 , 45, 4162-4164	2.6	13
46	Enhanced saturation coverages in adsorptiondesorption processes. <i>Journal of Chemical Physics</i> , 2000 , 112, 1483-1488	3.9	12
45	Kinetics of Heterogeneous Adsorption: Mean-Field Theory and Simulations. <i>Langmuir</i> , 2002 , 18, 1112-1	1418	11
44	Stochastic model of channel blocking with an inhomogeneous flux of entering particles. <i>Europhysics Letters</i> , 2015 , 110, 20005	1.6	10
43	Kinetics and equilibrium of multicomponent adsorption on chiraly templated surfaces. <i>Journal of Computational Chemistry</i> , 2004 , 25, 1779-86	3.5	10
42	A Model for the Adsorption Equilibria of Solutes with Multiple Adsorption Orientations. <i>Langmuir</i> , 1999 , 15, 3321-3333	4	10
41	Chemical potentials of hard molecular solutes in hard sphere fluids. Monte Carlo stimulations and analytical approximations. <i>Journal of Chemical Physics</i> , 1995 , 102, 2109-2112	3.9	10
40	Hard spheres in the isobaric-isoenthalpic ensemble. <i>Molecular Physics</i> , 1986 , 59, 625-635	1.7	10
39	Stochastic model of single-file flow with reversible blockage. <i>Europhysics Letters</i> , 2013 , 104, 60005	1.6	9
38	Angular velocity distribution of a granular planar rotator in a thermalized bath. <i>Physical Review E</i> , 2007 , 75, 051307	2.4	9
37	Boltzmann equation for a granular capped rectangle in a thermalized bath of hard disks. <i>Physical Review E</i> , 2005 , 71, 051306	2.4	9

36	Granular silo flow of inelastic dumbbells: Clogging and its reduction. <i>Physical Review E</i> , 2018 , 98, 022904	42.4	8
35	Analysis of a class of granular motors in the brownian limit. <i>Physical Review E</i> , 2010 , 82, 011135	2.4	8
34	Kinetic analysis of a chiral granular motor. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011 , 2011, P03009	1.9	8
33	SLOW DYNAMICS, AGING AND HISTORY-DEPENDENT EFFECTS IN THE PARKING-LOT MODEL. <i>Fractals</i> , 2003 , 11, 185-196	3.2	8
32	Cascading blockages in channel bundles. <i>Physical Review E</i> , 2015 , 92, 052141	2.4	7
31	Application of the Gillespie algorithm to a granular intruder particle. <i>Journal of Physics A</i> , 2006 , 39, 1094	47-10 <u>9</u>	957
30	Anisotropic energy distribution in three-dimensional vibrofluidized granular systems. <i>Physical Review E</i> , 2004 , 69, 061308	2.4	7
29	A statistical model for the dynamical properties of hard particle fluids. <i>Molecular Physics</i> , 1992 , 75, 43-58	8 1.7	7
28	Exact solution of a one-dimensional Boltzmann equation for a granular tracer particle. <i>Physica A:</i> Statistical Mechanics and Its Applications, 2007 , 373, 313-323	3.3	6
27	Nearest-neighbor functions in a one-dimensional generalized ballistic deposition model. <i>Physical Review E</i> , 1998 , 57, 1661-1667	2.4	6
26	Reversible adsorption on a random site surface. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007 , 376, 27-37	3.3	5
25	Torroidal convection roll in a three-dimensional granular system. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002 , 314, 672-677	3.3	5
24	Estimation of free energy via single particle sampling in Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 1993 , 98, 1531-1533	3.9	5
23	Special issue on transport in narrow channels. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 270201	1.8	4
22	Cantor set dynamics of a granular piston. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010 , 2010, P05004	1.9	4
21	Coverage and Structure of Films of Spherical Particles Deposited after Diffusing in a Gravitational Field. <i>Journal of Statistical Physics</i> , 1998 , 92, 891-908	1.5	4
20	Optimum Monte Carlo simulations: some exact results. <i>Journal of Physics A</i> , 2003 , 36, 9009-9023		4
19	Equilibria and kinetics of polydisperse mixture adsorption. <i>Journal of Chemical Physics</i> , 2000 , 112, 3868-	3,874	4

18	Comment on 'Is there a glassy phase transition in two dimensions?'. Journal of Physics A, 1990, 23, 837-	840	4
17	Stochastic models of multi-channel particulate transport with blockage. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 304004	1.8	3
16	Going against the flow: finding the optimal path. European Journal of Physics, 2010, 31, 205-213	0.8	3
15	Response to Comment on Degative velocity correlation in hard sphere fluids LJ. Chem. Phys. 103, 9512 (1995)]. <i>Journal of Chemical Physics</i> , 1995 , 103, 9514-9514	3.9	3
14	Effect of diffusion and convection on the flux of depositing particles near a preadsorbed particle. <i>Korean Journal of Chemical Engineering</i> , 1997 , 14, 117-124	2.8	2
13	A Lattice Model for the Adsorption Kinetics of Proteins on Solid Surfaces. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 4906-4912		2
12	Polydisperse mixture adsorption kinetics. AICHE Journal, 1993, 39, 1322-1329	3.6	2
11	Recurrence dynamics of particulate transport with reversible blockage: From a single channel to a bundle of coupled channels. <i>Physical Review E</i> , 2019 , 99, 042119	2.4	1
10	The Iris billiard: Critical geometries for global chaos. <i>Chaos</i> , 2020 , 30, 123105	3.3	1
9	Effect of crowding and confinement on first-passage times: A model study. <i>Physical Review E</i> , 2016 , 93, 062120	2.4	1
8	Diminishing blocking interval in particle-conveying channel bundles. <i>European Physical Journal B</i> , 2016 , 89, 1	1.2	1
7	Work fluctuation theorem for a granular motor. European Physical Journal: Special Topics, 2013, 216, 213-218	2.3	1
6	Equilibrium adsorption on a random site surface. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 13051-8	3.4	1
5	Exactly solvable model of reversible adsorption on a disordered substrate. <i>Physical Review E</i> , 2007 , 76, 051106	2.4	1
4	Algorithm to Compute the Free Area in a 2-D Configuration of Anisotropic Particles. <i>Molecular Simulation</i> , 1994 , 13, 61-75	2	1
3	The random spheres model as a representation of a random solid: A study using a one-dimensional system of penetrable rods. <i>Journal of Chemical Physics</i> , 1993 , 98, 2232-2240	3.9	
2	Molecular Dynamics Simulation of the Elastic Deformation of Nanometer Diameter Metal Clusters. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 332, 99		
1	Weak clogging in constricted channel flow <i>Physical Review E</i> , 2022 , 105, 014604	2.4	