

Paul Bartlett

List of Publications by Year in descending order

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66
papers

3,523
citations

159585

30
h-index

133252

59
g-index

67
all docs

67
docs citations

67
times ranked

2863
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of crystals of hard colloidal spheres. <i>Physical Review Letters</i> , 1989, 63, 2753-2756.	7.8	453
2	Dynamical Arrest in Attractive Colloids: The Effect of Long-Range Repulsion. <i>Physical Review Letters</i> , 2005, 94, 208301.	7.8	350
3	Superlattice formation in binary mixtures of hard-sphere colloids. <i>Physical Review Letters</i> , 1992, 68, 3801-3804.	7.8	343
4	A neutron scattering study of the structure of a bimodal colloidal crystal. <i>Journal of Chemical Physics</i> , 1992, 96, 3306-3318.	3.0	181
5	Freezing of binary mixtures of colloidal hard spheres. <i>Journal of Chemical Physics</i> , 1990, 93, 1299-1312.	3.0	167
6	Three-Dimensional Binary Superlattices of Oppositely Charged Colloids. <i>Physical Review Letters</i> , 2005, 95, 128302.	7.8	162
7	Electrostatic Charging of Nonpolar Colloids by Reverse Micelles. <i>Langmuir</i> , 2008, 24, 6530-6541.	3.5	130
8	Superlattice formation in mixtures of hard-sphere colloids. <i>Physical Review E</i> , 2000, 62, 900-913.	2.1	115
9	Reentrant Melting in Polydispersed Hard Spheres. <i>Physical Review Letters</i> , 1999, 82, 1979-1982.	7.8	80
10	Binary hard-sphere mixtures: a comparison between computer simulation and experiment. <i>Molecular Physics</i> , 1995, 84, 395-420.	1.7	78
11	Phase behaviour and structure of colloidal suspensions. <i>Journal of Physics Condensed Matter</i> , 1994, 6, A29-A36.	1.8	70
12	Direct measurement of the effective charge in nonpolar suspensions by optical tracking of single particles. <i>Journal of Chemical Physics</i> , 2007, 126, 194503.	3.0	69
13	Ageing and collapse in gels with long-range attractions. <i>Soft Matter</i> , 2011, 7, 1341-1351.	2.7	68
14	Fluorescent Hard-Sphere Polymer Colloids for Confocal Microscopy. <i>Journal of Colloid and Interface Science</i> , 2002, 256, 325-330.	9.4	64
15	Phase separation dynamics in colloid-polymer mixtures: the effect of interaction range. <i>Soft Matter</i> , 2013, 9, 2076.	2.7	62
16	Sudden collapse of a colloidal gel. <i>Physical Review E</i> , 2012, 85, 021404.	2.1	60
17	Nanoparticle Charge Control in Nonpolar Liquids: Insights from Small-Angle Neutron Scattering and Microelectrophoresis. <i>Langmuir</i> , 2010, 26, 6967-6976.	3.5	56
18	Colloidal dynamics in polymer solutions: Optical two-point microrheology measurements. <i>Faraday Discussions</i> , 2003, 123, 323-334.	3.2	51

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19	A model for the freezing of binary colloidal hard spheres. <i>Journal of Physics Condensed Matter</i> , 1990, 2, 4979-4989.	1.8	50
20	Measurement of Effective Temperatures in an Aging Colloidal Glass. <i>Physical Review Letters</i> , 2006, 97, 265702.	7.8	47
21	A geometrically-based mean-field theory of polydisperse hard-sphere mixtures. <i>Journal of Chemical Physics</i> , 1997, 107, 188-196.	3.0	46
22	Counterion condensation on spheres in the salt-free limit. <i>Soft Matter</i> , 2014, 10, 566-577.	2.7	46
23	Fractionated crystallization in a polydisperse mixture of hard spheres. <i>Journal of Chemical Physics</i> , 1998, 109, 10970-10975.	3.0	43
24	Direct measurements of colloidal friction coefficients. <i>Physical Review E</i> , 2001, 64, 061403.	2.1	41
25	Propagation of Hydrodynamic Interactions in Colloidal Suspensions. <i>Physical Review Letters</i> , 2002, 88, 088302.	7.8	40
26	Measurement of the hydrodynamic forces between two polymer-coated spheres. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2001, 359, 883-895.	3.4	39
27	Freezing of binary mixtures of hard-sphere colloids. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1993, 194, 415-423.	2.6	36
28	Synthesis of non-aqueous fluorescent hard-sphere polymer colloids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 211, 127-132.	4.7	36
29	Equilibrium cluster formation and gelation. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S3551-S3556.	1.8	35
30	One- and two-point micro-rheology of viscoelastic media. <i>Journal of Physics Condensed Matter</i> , 2003, 15, S251-S256.	1.8	34
31	Direct measurement of osmotic pressure via adaptive confinement of quasi hard disc colloids. <i>Nature Communications</i> , 2013, 4, 2555.	12.8	27
32	The rotational-vibrational spectrum of symmetric non-rigid triatomics in hyperspherical coordinates: the H ₂ + 3 molecule. <i>Molecular Physics</i> , 1990, 70, 1001-1029.	1.7	26
33	Charge Generation in Low-Polarity Solvents: Poly(ionic liquid)-Functionalized Particles. <i>Langmuir</i> , 2013, 29, 4204-4213.	3.5	25
34	Transmission of torque at the nanoscale. <i>Nature Physics</i> , 2016, 12, 98-103.	16.7	25
35	Freezing in polydisperse colloidal suspensions. <i>Journal of Physics Condensed Matter</i> , 2000, 12, A275-A280.	1.8	24
36	Synthesis of charged particles in an ultra-low dielectric solvent. <i>Soft Matter</i> , 2011, 7, 887.	2.7	24

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37	Gels under stress: The origins of delayed collapse. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 458, 126-133.	4.7	23
38	Geometric interactions in binary colloidal dispersions. <i>Langmuir</i> , 1992, 8, 1919-1925.	3.5	22
39	Thermodynamic properties of polydisperse hard spheres. <i>Molecular Physics</i> , 1999, 97, 685-693.	1.7	22
40	Characterization of microparticles with driven optical tweezers. <i>Faraday Discussions</i> , 2008, 137, 319-333.	3.2	20
41	Three-dimensional force calibration of a single-beam optical gradient trap. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 7757-7768.	1.8	19
42	Non-additivity of pair interactions in charged colloids. <i>Journal of Chemical Physics</i> , 2016, 145, 034905.	3.0	18
43	Phase behavior of dispersions of hard spherical particles. <i>Phase Transitions</i> , 1990, 21, 207-227.	1.3	17
44	Colloidal crystallization under time-averaged zero gravity. <i>Langmuir</i> , 1991, 7, 213-215.	3.5	16
45	Colloidal fluids, crystals and glasses. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1991, 176, 16-27.	2.6	15
46	The effect of boundary adaptivity on hexagonal ordering and bistability in circularly confined quasi hard discs. <i>Journal of Chemical Physics</i> , 2014, 140, 104907.	3.0	15
47	Failure of Debye-Hückel Screening in Low-Charge Colloidal Suspensions. <i>Colloids and Interfaces</i> , 2018, 2, 51.	2.1	15
48	Flexible confinement leads to multiple relaxation regimes in glassy colloidal liquids. <i>Journal of Chemical Physics</i> , 2015, 142, 024505.	3.0	14
49	Charge regulation of nonpolar colloids. <i>Soft Matter</i> , 2018, 14, 331-343.	2.7	14
50	Position correlation microscopy: probing single particle dynamics in colloidal suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 190, 81-88.	4.7	13
51	Electrolyte-induced Instability of Colloidal Dispersions in Nonpolar Solvents. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4668-4672.	4.6	13
52	The curious case of SDS self-assembly in glycerol: Formation of a lamellar gel. <i>Journal of Colloid and Interface Science</i> , 2020, 572, 384-395.	9.4	10
53	Composition inversion in mixtures of binary colloids and polymer. <i>Journal of Chemical Physics</i> , 2018, 148, 184902.	3.0	9
54	Interaction between nearly hard colloidal spheres at an oil-water interface. <i>Physical Review Research</i> , 2020, 2, .	3.6	8

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55	Gravitational effects on the phase behaviour of dispersions. <i>Advances in Colloid and Interface Science</i> , 1994, 50, 39-50.	14.7	6
56	X-ray reflectivity reveals ionic structure at liquid crystal-aqueous interfaces. <i>Soft Matter</i> , 2017, 13, 5535-5542.	2.7	6
57	Fracto-eutectogels: SDS fractal dendrites <i>via</i> counterion condensation in a deep eutectic solvent. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 11672-11683.	2.8	6
58	The internal structure of poly(methyl methacrylate) latexes in nonpolar solvents. <i>Journal of Colloid and Interface Science</i> , 2016, 479, 234-243.	9.4	5
59	A small-angle X-ray scattering study of nanoparticle assembly in an aligned nematic liquid crystal. <i>Liquid Crystals</i> , 2014, 41, 1791-1802.	2.2	4
60	Unexpected observation of an intermediate hexagonal phase upon fluid-to-gel transition: SDS self-assembly in glycerol. <i>Colloids and Interface Science Communications</i> , 2021, 40, 100342.	4.1	4
61	Colloids, grains and dense suspensions: under flow and under arrest. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 4989-4991.	3.4	3
62	Droplet evaporation: Colloidal interactions vs. evaporation kinetics. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 578, 123555.	4.7	2
63	Soft matter in the real world. <i>Physics World</i> , 1998, 11, 23-24.	0.0	1
64	Optical Manipulation. , 0, , 255-265.		0
65	3D printed glass: surface finish and bulk properties as a function of the printing process. , 2015, , .		0
66	Electrostatic interactions of poly (methyl methacrylate) colloids: deposition patterns of evaporating non-aqueous colloidal droplets. <i>Colloid and Polymer Science</i> , 2021, 299, 49-61.	2.1	0