

Bogdan Cichocki

List of Publications by Year in descending order

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124
papers

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172457

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all docs

125
docs citations

125
times ranked

1413
citing authors

#	ARTICLE	IF	CITATIONS
1	Lack of Plasma-like Screening Mechanism in Sedimentation of a Non-Brownian Suspension. <i>Symmetry</i> , 2022, 14, 63.	2.2	0
2	Generalized Rotne-Prager-Yamakawa approximation for Brownian dynamics in shear flow in bounded, unbounded, and periodic domains. <i>Journal of Chemical Physics</i> , 2021, 154, 124905.	3.0	2
3	Diffusion coefficients of elastic macromolecules. <i>Journal of Fluid Mechanics</i> , 2019, 878, .	3.4	11
4	GRPY: An Accurate Bead Method for Calculation of Hydrodynamic Properties of Rigid Biomacromolecules. <i>Biophysical Journal</i> , 2018, 115, 782-800.	0.5	16
5	Intrinsic viscosity of macromolecules within the generalized Rotne-Prager-Yamakawa approximation. <i>Journal of Fluid Mechanics</i> , 2017, 822, .	3.4	3
6	Near-wall diffusion tensor of an axisymmetric colloidal particle. <i>Journal of Chemical Physics</i> , 2016, 145, 034904.	3.0	24
7	Note: Brownian motion of colloidal particles of arbitrary shape. <i>Journal of Chemical Physics</i> , 2016, 144, 076101.	3.0	4
8	Near-wall dynamics of concentrated hard-sphere suspensions: comparison of evanescent wave DLS experiments, virial approximation and simulations. <i>Soft Matter</i> , 2015, 11, 7316-7327.	2.7	8
9	Brownian motion of a particle with arbitrary shape. <i>Journal of Chemical Physics</i> , 2015, 142, 214902.	3.0	17
10	Hydrodynamic radius approximation for spherical particles suspended in a viscous fluid: Influence of particle internal structure and boundary. <i>Journal of Chemical Physics</i> , 2014, 140, 164902.	3.0	7
11	Translational and rotational near-wall diffusion of spherical colloids studied by evanescent wave scattering. <i>Soft Matter</i> , 2014, 10, 4312.	2.7	31
12	Models of atoms in plasmas based on common formalism for bound and free electrons. <i>High Energy Density Physics</i> , 2013, 9, 687-695.	1.5	20
13	Short-time dynamics and high-frequency rheology of suspensions of spherical core-shell particles with thin-shells. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 418, 22-28.	4.7	7
14	One-particle correlation function in evanescent wave dynamic light scattering. <i>Journal of Chemical Physics</i> , 2012, 136, 204704.	3.0	20
15	Transport properties of suspensions - critical assessment of Beenakker-Mazur method. <i>Journal of Chemical Physics</i> , 2012, 137, 184902.	3.0	11
16	Communication: Translational Brownian motion for particles of arbitrary shape. <i>Journal of Chemical Physics</i> , 2012, 136, 071102.	3.0	21
17	Diffusion, sedimentation, and rheology of concentrated suspensions of core-shell particles. <i>Journal of Chemical Physics</i> , 2012, 136, 104902.	3.0	22
18	Intrinsic viscosity for Brownian particles of arbitrary shape. <i>Journal of Physics: Conference Series</i> , 2012, 392, 012004.	0.4	2

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19	Sedimentation of non-Brownian suspensions. Journal of Physics: Conference Series, 2012, 392, 012002.	0.4	2
20	Rotational Diffusion of Spherical Colloids Close to a Wall. Physical Review Letters, 2012, 109, 098305.	7.8	33
21	Fibrinogen conformations and charge in electrolyte solutions derived from DLS and dynamic viscosity measurements. Journal of Colloid and Interface Science, 2012, 385, 244-257.	9.4	63
22	Rotational and translational self-diffusion in concentrated suspensions of permeable particles. Journal of Chemical Physics, 2011, 134, 244903.	3.0	20
23	First-order virial expansion of short-time diffusion and sedimentation coefficients of permeable particles suspensions. Physics of Fluids, 2011, 23, 083303.	4.0	7
24	Motion of a sphero-cylindrical particle in a viscous fluid in confined geometry. European Journal of Mechanics, B/Fluids, 2011, 30, 405-408.	2.5	8
25	Dynamics of permeable particles in concentrated suspensions. Physical Review E, 2010, 81, 020404.	2.1	11
26	The intensity correlation function in evanescent wave scattering. Journal of Chemical Physics, 2010, 132, 074704.	3.0	14
27	High-frequency viscosity of concentrated porous particles suspensions. Journal of Chemical Physics, 2010, 133, 084906.	3.0	21
28	High-frequency viscosity and generalized Stokes-Einstein relations in dense suspensions of porous particles. Journal of Physics Condensed Matter, 2010, 22, 322101.	1.8	12
29	Short-time dynamics of permeable particles in concentrated suspensions. Journal of Chemical Physics, 2010, 132, 014503.	3.0	49
30	Green tensors for Debye-Bragg-Brinkman equations generalized for axisymmetric medium. Journal of Mathematical Physics, 2010, 51, 103101.	1.1	0
31	Variational average atom in quantum plasmas (VAAQP) – first numerical results. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 214059.	2.1	9
32	Self-diffusion of a sphere in an effective medium of rods. Journal of Chemical Physics, 2009, 130, 214902.	3.0	3
33	Variational Average-Atom in Quantum Plasmas (VAAQP) – A check of thermodynamic consistency. High Energy Density Physics, 2009, 5, 258-262.	1.5	9
34	Hydrodynamic friction coefficients of coated spherical particles. Journal of Chemical Physics, 2009, 130, 164712.	3.0	19
35	Stokesian Dynamics – The BBGKY Hierarchy for Correlation Functions. Journal of Statistical Physics, 2008, 132, 129-151.	1.2	5
36	The short-time self-diffusion coefficient of a sphere in a suspension of rigid rods. Journal of Chemical Physics, 2008, 128, 094502.	3.0	6

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37	A diagrammatic approach to response problems in composite systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008, 2008, P01025.	2.3	14
38	Hydrodynamic interactions between spheres in a viscous fluid with a flat free surface or hard wall. <i>Journal of Chemical Physics</i> , 2007, 126, 184704.	3.0	9
39	Variational theory of average-atom and superconfigurations in quantum plasmas. <i>Physical Review E</i> , 2007, 75, 056402.	2.1	51
40	Variational approach to the average-atom-in-jellium and superconfigurations-in-jellium models with all electrons treated quantum-mechanically. <i>High Energy Density Physics</i> , 2007, 3, 34-47.	1.5	29
41	Steady-state particle distribution of a dilute sedimenting suspension. <i>Europhysics Letters</i> , 2005, 72, 936-942.	2.0	11
42	Hydrodynamic interactions between widely separated particles at a free surface. <i>Europhysics Letters</i> , 2004, 67, 383-389.	2.0	10
43	General H-Theorem for Hard Spheres. <i>Journal of Statistical Physics</i> , 2004, 114, 327-360.	1.2	1
44	Brownian dynamics: divergence of mobility tensor. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 335, 339-358.	2.6	27
45	Memory effects in collective dynamics of Brownian suspensions. <i>Journal of Chemical Physics</i> , 2004, 121, 3329-3346.	3.0	11
46	Motion of spheres along a fluid-gas interface. <i>Journal of Chemical Physics</i> , 2004, 121, 2305-2316.	3.0	17
47	Drag force on a sphere moving towards a corrugated wall. <i>Journal of Fluid Mechanics</i> , 2004, 513, 247-264.	3.4	55
48	Three-particle contribution to effective viscosity of hard-sphere suspensions. <i>Journal of Chemical Physics</i> , 2003, 119, 606-619.	3.0	31
49	Three-particle contribution to sedimentation and collective diffusion in hard-sphere suspensions. <i>Journal of Chemical Physics</i> , 2002, 117, 1231-1241.	3.0	44
50	Memory function for collective diffusion of interacting Brownian particles. <i>Europhysics Letters</i> , 2002, 59, 465-471.	2.0	7
51	Rotational velocity autocorrelation function of interacting Brownian particles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 289, 409-418.	2.6	5
52	Comment on "Response to "Rotational velocity autocorrelation function of interacting Brownian particles". <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 297, 115-116.	2.6	2
53	Long-time tails in the solid-body motion of a sphere immersed in a suspension. <i>Physical Review E</i> , 2000, 62, 5383-5388.	2.1	24
54	Friction and mobility for colloidal spheres in Stokes flow near a boundary: The multipole method and applications. <i>Journal of Chemical Physics</i> , 2000, 112, 2548-2561.	3.0	112

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55	Interacting Brownian Particles. , 2000, , 65-71.		0
56	Lubrication corrections for three-particle contribution to short-time self-diffusion coefficients in colloidal dispersions. Journal of Chemical Physics, 1999, 111, 3265-3273.	3.0	113
57	Electrostatic spectrum of renormalized polarizability for nonpolar dielectric. Physica A: Statistical Mechanics and Its Applications, 1998, 261, 391-408.	2.6	0
58	Image representation of a spherical particle near a hard wall. Physica A: Statistical Mechanics and Its Applications, 1998, 258, 273-302.	2.6	114
59	Photoabsorption by an ion immersed in a plasma at any temperature. Journal of Plasma Physics, 1998, 60, 787-810.	2.1	11
60	Dielectric constant of the Drude-Lorentz model of a nonpolar fluid. Journal of Chemical Physics, 1997, 107, 6390-6399.	3.0	6
61	Comment on "Long-time behavior of the angular velocity autocorrelation function" [J. Chem. Phys. 105, 9695 (1996)]. Journal of Chemical Physics, 1997, 107, 291-291.	3.0	3
62	Dielectric constant and density of states of the Drude-Lorentz model of a nonpolar fluid. Physica A: Statistical Mechanics and Its Applications, 1997, 241, 6-11.	2.6	2
63	Long-time translation and rotational Brownian motion in two dimensions. Journal of Statistical Physics, 1997, 87, 989-1003.	1.2	5
64	Comment on "Long-time tails in angular momentum correlations" [J. Chem. Phys. 103, 1582 (1995)]. Journal of Chemical Physics, 1996, 104, 7363-7365.	3.0	4
65	Density of states in the Drude-Lorentz model of a nonpolar fluid. Journal of Chemical Physics, 1996, 104, 3013-3021.	3.0	8
66	Long-time rotational motion of a rigid body immersed in a viscous fluid. Physica A: Statistical Mechanics and Its Applications, 1995, 213, 465-473.	2.6	14
67	Dielectric function of an electron-ion plasma in the optical and X-ray regime. Physica A: Statistical Mechanics and Its Applications, 1995, 217, 161-174.	2.6	14
68	Collective contribution to the frequency-dependent polarizability of an ion or metallic cluster immersed in a plasma. Physica A: Statistical Mechanics and Its Applications, 1995, 217, 175-195.	2.6	9
69	Frequency-dependent extinction cross section of a spherical ion or metallic cluster immersed in a plasma. Physica A: Statistical Mechanics and Its Applications, 1995, 217, 196-213.	2.6	6
70	Stokes drag on conglomerates of spheres. Physics of Fluids, 1995, 7, 285-291.	4.0	55
71	Velocity autocorrelation function of interacting Brownian particles. Physical Review E, 1995, 51, 5549-5555.	2.1	26
72	Transient effects in diffusion-controlled absorption by a nonuniform sink of arbitrary constitution. Journal of Chemical Physics, 1995, 102, 1824-1835.	3.0	5

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73	Self-diffusion of interacting Brownian particles in a plane. <i>Journal of Physics Condensed Matter</i> , 1994, 6, 7287-7302.	1.8	9
74	Linear viscoelasticity of dense colloidal suspensions. <i>Journal of Chemical Physics</i> , 1994, 101, 7850-7855.	3.0	26
75	Continued fraction representation for the effective thermal conductivity coefficient of a regular two-component composite. <i>International Journal of Heat and Mass Transfer</i> , 1994, 37, 2165-2173.	4.8	11
76	Slow dynamics of linear relaxation systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 211, 165-192.	2.6	35
77	Long-time collective motion of rigid bodies immersed in a viscous fluid. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 211, 25-36.	2.6	15
78	Dynamic scattering function of a dense suspension of hard spheres. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 204, 152-168.	2.6	24
79	Polarizability of partially ionized, dense plasmas (application to photo-absorption calculations). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1994, 51, 49-58.	2.3	9
80	Friction and mobility of many spheres in Stokes flow. <i>Journal of Chemical Physics</i> , 1994, 100, 3780-3790.	3.0	228
81	Comment on "The rheological behavior of concentrated colloidal dispersions" [J. Chem. Phys. 99, 567 (1993)]. <i>Journal of Chemical Physics</i> , 1994, 101, 1757-1757.	3.0	7
82	Influence of hydrodynamic interactions on self-diffusion and stress relaxation in a semidilute suspension of hard spheres. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1993, 198, 423-440.	2.6	10
83	Dynamic scattering function of a semidilute suspension of hard spheres. <i>Journal of Chemical Physics</i> , 1993, 98, 8186-8193.	3.0	14
84	Linear response of partially ionized, dense plasmas. <i>Laser and Particle Beams</i> , 1992, 10, 299-309.	1.0	19
85	Memory effects in the self-diffusion of interacting Brownian particles. <i>Journal of Chemical Physics</i> , 1992, 96, 9055-9059.	3.0	11
86	Time-dependent self-diffusion in a semidilute suspension of Brownian particles. <i>Journal of Chemical Physics</i> , 1992, 96, 4669-4675.	3.0	11
87	Linear viscoelasticity of colloidal suspensions. <i>Physical Review A</i> , 1992, 46, 7723-7732.	2.5	31
88	Time-dependent self-diffusion of Brownian particles with square well interaction. <i>Langmuir</i> , 1992, 8, 2889-2897.	3.5	15
89	H-theorem for a linear kinetic theory. <i>Journal of Statistical Physics</i> , 1992, 66, 607-633.	1.2	3
90	Dynamic computer simulation of concentrated hard sphere suspensions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992, 187, 133-144.	2.6	59

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91	Linear viscoelasticity of semidilute hard-sphere suspensions. <i>Physical Review A</i> , 1991, 43, 5405-5411.	2.5	50
92	Diffusion of Brownian particles with hydrodynamic interaction and hard core repulsion. <i>Journal of Chemical Physics</i> , 1991, 94, 556-562.	3.0	59
93	Self-diffusion of Brownian particles with hydrodynamic interaction and square step or well potential. <i>Journal of Chemical Physics</i> , 1991, 94, 563-568.	3.0	15
94	Time-dependent self-diffusion coefficient of interacting Brownian particles. <i>Physical Review A</i> , 1991, 44, 6551-6558.	2.5	27
95	Self and Collective Diffusion Coefficients of Hard Sphere Suspensions. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1990, 94, 243-246.	0.9	25
96	Dynamic computer simulation of concentrated hard sphere suspensions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1990, 166, 473-491.	2.6	126
97	Cavity field and reaction field in nonpolar fluids. <i>Journal of Chemical Physics</i> , 1990, 92, 6104-6111.	3.0	18
98	Density-functional approach to the absorption bands in a dense, partially ionized plasma. <i>Physical Review A</i> , 1990, 41, 6973-6981.	2.5	16
99	Many-body contribution to the van der Waals binding energy of nonpolar fluids. <i>Journal of Chemical Physics</i> , 1990, 92, 6112-6115.	3.0	8
100	Self-diffusion in suspensions of interacting Brownian particles. <i>Physical Review A</i> , 1990, 42, 6024-6031.	2.5	29
101	Diffusion coefficients and effective viscosity of suspensions of sticky hard spheres with hydrodynamic interactions. <i>Journal of Chemical Physics</i> , 1990, 93, 4427-4432.	3.0	87
102	Ladder approximation for three- and four-particle correlation functions. <i>Journal of Chemical Physics</i> , 1989, 91, 7467-7476.	3.0	12
103	Periodic fundamental solution of the linear Navier-Stokes equations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989, 159, 19-27.	2.6	21
104	Sedimentation and self-diffusion in suspensions of spherical particles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989, 154, 213-232.	2.6	37
105	The effective viscosity of suspensions and emulsions of spherical particles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989, 154, 233-256.	2.6	25
106	Generalized Ornstein-Zernike approach to many-particle equilibrium correlation functions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989, 157, 857-890.	2.6	9
107	Electrostatic interactions in two-dimensional Coulomb systems with periodic boundary conditions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989, 158, 706-722.	2.6	14
108	Three-body problem in the theory of the dielectric constant. <i>Journal of Statistical Physics</i> , 1989, 57, 871-885.	1.2	2

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109	Generalization of the Foldy-Lax formula for the self-energy of a wave propagating in a disordered system of scatterers. <i>Journal of Statistical Physics</i> , 1989, 55, 1157-1168.	1.2	10
110	Electrostatic interactions in thin film Coulomb systems with periodic boundary conditions. <i>Molecular Physics</i> , 1989, 67, 1373-1384.	1.7	8
111	Electrostatic spectrum and dielectric constant of nonpolar hard sphere fluids. <i>Journal of Chemical Physics</i> , 1989, 90, 4960-4967.	3.0	49
112	Electrostatic interactions in periodic Coulomb and dipolar systems. <i>Physical Review A</i> , 1989, 39, 5350-5358.	2.5	74
113	Dielectric constant of polarizable, nonpolar fluids and suspensions. <i>Journal of Statistical Physics</i> , 1988, 53, 499-521.	1.2	37
114	Renormalized cluster expansion for multiple scattering in disordered systems. <i>Journal of Statistical Physics</i> , 1988, 51, 57-76.	1.2	30
115	Linear kinetic theory of a suspension of interacting Brownian particles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1988, 148, 165-190.	2.6	22
116	Linear kinetic theory of a suspension of interacting Brownian particles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1988, 148, 191-207.	2.6	19
117	Long-time self-diffusion coefficient and zero-frequency viscosity of dilute suspensions of spherical Brownian particles. <i>Journal of Chemical Physics</i> , 1988, 89, 3705-3709.	3.0	105
118	Short-time diffusion coefficients and high frequency viscosity of dilute suspensions of spherical Brownian particles. <i>Journal of Chemical Physics</i> , 1988, 89, 1049-1054.	3.0	129
119	Enskog renormalization in linear kinetic theory. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1987, 142, 245-272.	2.6	12
120	On the memory function for the dynamic structure factor of interacting brownian particles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1987, 141, 475-488.	2.6	96
121	The generalized Smoluchowski equation for interacting Brownian particles with hard cores. <i>European Physical Journal B</i> , 1987, 66, 537-540.	1.5	23
122	Non-Gaussian effects in the self-diffusion of a low density hard sphere suspension. <i>European Physical Journal B</i> , 1987, 68, 513-517.	1.5	11
123	Comment: On the memory function for a colloidal liquid. <i>Journal of Chemical Physics</i> , 1986, 85, 1705-1706.	3.0	13
124	Linear kinetic theory of hard-sphere fluids. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1984, 127, 38-71.	2.6	14