Roque Hidalgo-Alvarez

List of Publications by Year
in descending order

224 papers	7,231 citations	76322 40 h-index	82542 72 g-index
232 all docs	232 docs citations	232 times ranked	5914 citing authors

#	Article	IF	Citations
1	Magnetorheological fluids: a review. Soft Matter, 2011, 7, 3701.	2.7	900
2	Gel swelling theories: the classical formalism and recent approaches. Soft Matter, 2011, 7, 10536.	2.7	287
3	Electrokinetic properties, colloidal stability and aggregation kinetics of polymer colloids. Advances in Colloid and Interface Science, 1996, 67, 1-118.	14.7	188
4	Overcharging in Colloids: Beyond the Poisson-Boltzmann Approach. ChemPhysChem, 2003, 4, 234-248.	2.1	182
5	Cationic Polymer Nanoparticles and Nanogels: From Synthesis to Biotechnological Applications. Chemical Reviews, 2014, 114, 367-428.	47.7	159
6	Effect of particle shape in magnetorheology. Journal of Rheology, 2010, 54, 1337-1362.	2.6	139
7	Dynamic rheology of sphere- and rod-based magnetorheological fluids. Journal of Chemical Physics, 2009, 131, 194902.	3.0	121
8	Size and stability of liposomes: A possible role of hydration and osmotic forces. European Physical Journal E, 2006, 20, 401-408.	1.6	118
9	Colloidal Stability of Polymer Colloids with Different Interfacial Properties: Mechanisms. Journal of Colloid and Interface Science, 1996, 184, 259-267.	9.4	106
10	Stability of binary colloids: kinetic and structural aspects of heteroaggregation processes. Soft Matter, 2006, 2, 1025.	2.7	102
11	Measurement of Absolute Coagulation Rate Constants for Colloidal Particles: Comparison of Single and Multiparticle Light Scattering Techniques. Journal of Colloid and Interface Science, 1997, 192, 463-470.	9.4	95
12	Preparation and characterization of extruded magnetoliposomes. International Journal of Pharmaceutics, 2008, 347, 156-162.	5.2	85
13	Synthesis and Characterization of Single-Domain Monocrystalline Magnetite Particles by Oxidative Aging of Fe(OH)₂. Journal of Physical Chemistry C, 2008, 112, 5843-5849.	3.1	79
14	Contact angle measurements on two (wood and stone) non-ideal surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 206, 485-495.	4.7	76
15	A comparative study between the adsorption of IgY and IgG on latex particles. Journal of Biomaterials Science, Polymer Edition, 2000, 11, 657-673.	3.5	73
16	Colloidal stability of protein-polymer systems: A possible explanation by hydration forces. Physical Review E, 1997, 55, 4522-4530.	2.1	68
17	Influence of a Magnetic Field on the Formation of Magnetite Particles via Two Precipitation Methods. Langmuir, 2007, 23, 3581-3589.	3.5	67
18	On the adsorption of IgG onto polystyrene particles: electrophoretic mobility and critical coagulation concentration. Colloid and Polymer Science, 1992, 270, 574-583.	2.1	64

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19	Carboxylated Latexes for Covalent Coupling Antibodies, I. Journal of Colloid and Interface Science, 1995, 176, 232-239.	9.4	64
20	Probing interaction forces in colloidal monolayers: Inversion of structural data. Journal of Chemical Physics, 2001, 115, 10897-10902.	3.0	62
21	Simulation of electric double layers with multivalent counterions: Ion size effect. Journal of Chemical Physics, 2004, 121, 8618.	3.0	62
22	Squeeze flow magnetorheology. Journal of Rheology, 2011, 55, 753-779.	2.6	60
23	Two-dimensional aggregation of polystyrene latex particles. Physical Review E, 1993, 47, 2663-2668.	2.1	58
24	A probabilistic aggregation kernel for the computer-simulated transition from DLCA to RLCA. Europhysics Letters, 2001, 53, 797-803.	2.0	58
25	Steady shear magnetorheology of inverse ferrofluids. Journal of Rheology, 2011, 55, 127-152.	2.6	58
26	Interaction potentials, structural ordering and effective charges in dispersions of charged colloidal particles. Advances in Colloid and Interface Science, 2002, 95, 295-315.	14.7	57
27	Looking into overcharging in model colloids through electrophoresis: Asymmetric electrolytes. Journal of Chemical Physics, 2003, 118, 4183-4189.	3.0	57
28	On the conversion of experimental electrokinetic data into double layer characteristics in solid-liquid interfaces. Advances in Colloid and Interface Science, 1991, 34, 217-341.	14.7	56
29	Physical Properties of Elongated Magnetic Particles: Magnetization and Friction Coefficient Anisotropies. ChemPhysChem, 2009, 10, 1165-1179.	2.1	56
30	The role played by hydration forces in the stability of protein-coated particles: non-classical DLVO behaviour. Colloids and Surfaces B: Biointerfaces, 1999, 14, 3-17.	5.0	55
31	A Light Scattering Study of the Transition Region between Diffusion- and Reaction-Limited Cluster Aggregation. Journal of Colloid and Interface Science, 2001, 240, 90-96.	9.4	49
32	Comparison of the Interfacial Activity between Homogeneous and Janus Gold Nanoparticles by Pendant Drop Tensiometry. Langmuir, 2014, 30, 1799-1804.	3.5	49
33	Surface activity of Janus particles adsorbed at fluidâ€“fluid interfaces: Theoretical and experimental aspects. Advances in Colloid and Interface Science, 2016, 233, 240-254.	14.7	49
34	Colloidal stability of IgG- and IgY-coated latex microspheres. Colloids and Surfaces B: Biointerfaces, 2001, 20, 165-175.	5.0	48
35	Effect of the particle surface charge density on the colloidal aggregation mechanism. Physical Review E, 1996, 53, 4981-4989.	2.1	46
36	Colloidal Interaction at the Airâ€“Liquid Interface. Journal of Colloid and Interface Science, 2000, 232, 303-310.	9.4	46

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37	Ion size correlations and charge reversal in real colloids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 267, 24-30.	4.7	45
38	Oxidation of ferrous hydroxides with nitrate: A versatile method for the preparation of magnetic colloidal particles. Journal of Colloid and Interface Science, 2013, 392, 50-56.	9.4	44
39	Simulation of Electric Double Layers Undergoing Charge Inversion:Â Mixtures of Mono- and Multivalent Ions. Langmuir, 2005, 21, 9231-9237.	3.5	43
40	F(abâ€˜)2-Coated Polymer Carriers:Â Electrokinetic Behavior and Colloidal Stability. Langmuir, 1996, 12, 3211-3220.	3.5	41
41	Sequential adsorption of F(abâ€²)2and BSA on negatively and positively charged polystyrene latexes. Biotechnology and Bioengineering, 1995, 47, 633-639.	3.3	40
42	Constant bond breakup probability model for reversible aggregation processes. Physical Review E, 2002, 65, 031405.	2.1	40
43	Effect of anomalous surface conductance on Î¶-potential determination of positively charged polystyrene microspheres. Journal of Colloid and Interface Science, 1992, 149, 23-26.	9.4	39
44	Multiple contact kernel for diffusionlike aggregation. Physical Review E, 2000, 62, 8335-8343.	2.1	39
45	The hydrophobic effect as a driving force for charge inversion in colloids. Soft Matter, 2009, 5, 1350.	2.7	39
46	On the Calculation of Electrokinetic Potential and Hamaker Constant of Model Colloids. Journal of Colloid and Interface Science, 1994, 162, 257-260.	9.4	38
47	Charge reversal in real colloids: Experiments, theory and simulations. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 319, 103-108.	4.7	38
48	Electrostatic heteroaggregation regimes in colloidal suspensions. Advances in Colloid and Interface Science, 2009, 147-148, 186-204.	14.7	38
49	Controlling friction using magnetic nanofluids. Soft Matter, 2011, 7, 880-883.	2.7	38
50	Comparative Studies on Physically Adsorbed and Chemically Bound IgG to Carboxylated Latexes, II. Journal of Colloid and Interface Science, 1995, 176, 240-247.	9.4	37
51	Particle enhanced immunoaggregation of F(abâ€²)2 molecules. Journal of Immunological Methods, 1996, 190, 29-38.	1.4	37
52	Role of Long-Range Repulsive Interactions in Two-Dimensional Colloidal Aggregation:Â Experiments and Simulations. Langmuir, 2002, 18, 9183-9191.	3.5	37
53	Two-step yielding in magnetorheology. Journal of Rheology, 2014, 58, 1507-1534.	2.6	37
54	Spontaneous Formation of Mesostructures in Colloidal Monolayers Trapped at the Airâ^'Water Interface:Â A Simple Explanation. Langmuir, 2004, 20, 6977-6980.	3.5	36

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55	Electric Double Layers with Electrolyte Mixtures:â€‰Integral Equations Theories and Simulations. Journal of Physical Chemistry B, 2006, 110, 1326-1331.	2.6	36
56	Characterization of Immunoglobulin G Bound to Latex Particles Using Surface Plasmon Resonance and Electrophoretic Mobility. Journal of Colloid and Interface Science, 1998, 204, 300-311.	9.4	35
57	Sequential Adsorption of Triton X-100 and Sodium Dodecyl Sulfate onto Positively and Negatively Charged Polystyrene Latexes. Journal of Colloid and Interface Science, 2001, 239, 568-576.	9.4	35
58	Amino-functionalized latex particles obtained by a multistep method: Development of a new immunoreagent. Journal of Polymer Science Part A, 2003, 41, 2404-2411.	2.3	35
59	On the Effect of Ca2+and La3+on the Colloidal Stability of Liposomes. Langmuir, 2005, 21, 10968-10975.	3.5	35
60	Electrophoretic Mobility and Primitive Models:Â Surface Charge Density Effect. Journal of Physical Chemistry B, 2002, 106, 6881-6886.	2.6	34
61	Probing charge inversion in model colloids: electrolyte mixtures of multi- and monovalent counterions. Journal of Physics Condensed Matter, 2003, 15, S3475-S3483.	1.8	34
62	Interfacial Activity and Contact Angle of Homogeneous, Functionalized, and Janus Nanoparticles at the Water/Decane Interface. Langmuir, 2015, 31, 8818-8823.	3.5	34
63	Testing the mean magnetization approximation, dimensionless and scaling numbers in magnetorheology. Soft Matter, 2016, 12, 1468-1476.	2.7	34
64	Particles adsorbed at various non-aqueous liquid-liquid interfaces. Advances in Colloid and Interface Science, 2017, 247, 208-222.	14.7	34
65	Stability of highly charged particles: bitumen-in-water dispersions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 222, 233-251.	4.7	33
66	Evidence of direct crystal growth and presence of hollow microspheres in magnetite particles prepared by oxidation of Fe(OH)2. Journal of Colloid and Interface Science, 2008, 318, 520-524.	9.4	33
67	Effect of Surface Charge on Colloidal Charge Reversal. Journal of Physical Chemistry B, 2009, 113, 6834-6839.	2.6	32
68	Dynamic scaling concepts applied to numerical solutions of Smoluchowskiâ€™s rate equation. Journal of Chemical Physics, 1999, 111, 7657-7667.	3.0	31
69	Electrokinetic Behavior of Polystyrene Latexes with Different Surface Groups: Effect of Heat Treatment. Journal of Colloid and Interface Science, 1996, 177, 372-379.	9.4	30
70	Functionalized Monodisperse Particles with Chloromethyl Groups for the Covalent Coupling of Proteins. Macromolecules, 1998, 31, 4282-4287.	4.8	30
71	Colloidal aggregation in energy minima of restricted depth. Journal of Chemical Physics, 1999, 110, 5412-5420.	3.0	30
72	Specific cation adsorption on protein-covered particles and its influence on colloidal stability. Colloids and Surfaces B: Biointerfaces, 2001, 21, 125-135.	5.0	30

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73	Concentration effects on two- and three-dimensional colloidal aggregation. Physica A: Statistical Mechanics and Its Applications, 2002, 314, 235-245.	2.6	30
74	Small-Amplitude Oscillatory Shear Magnetorheology of Inverse Ferrofluids. Langmuir, 2010, 26, 9334-9341.	3.5	30
75	On the validity of continuous media theory for plastic materials in magnetorheological fluids under slow compression. Rheologica Acta, 2012, 51, 595-602.	2.4	30
76	Comparative Study on the Colloidal Stability Mechanisms of Sulfonate Latexes. Langmuir, 1997, 13, 3938-3943.	3.5	29
77	Colloid stability and electrokinetic characterization of polymer colloids prepared by different methods. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1997, 127, 19-24.	4.7	29
78	Specific ion effects on the electrokinetic properties of iron oxide nanoparticles: experiments and simulations. Physical Chemistry Chemical Physics, 2015, 17, 17069-17078.	2.8	29
79	Model magnetorheology: A direct comparative study between theories, particle-level simulations and experiments, in steady and dynamic oscillatory shear. Journal of Rheology, 2016, 60, 61-74.	2.6	29
80	Two-Dimensional Colloidal Aggregation: Concentration Effects. Journal of Colloid and Interface Science, 2002, 246, 227-234.	9.4	28
81	Electrophoretic mobility of model colloids and overcharging: theory and experiment. Molecular Physics, 2002, 100, 3029-3039.	1.7	27
82	A comparative study on the electrokinetic behavior of bovine serum albumin molecules adsorbed onto different polymer colloids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1994, 92, 113-119.	4.7	26
83	Renormalization processes in the charge density of polymer colloids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 159, 239-252.	4.7	25
84	The DLCA-RLCA transition arising in 2D-aggregation: simulations and mean field theory. European Physical Journal E, 2001, 5, 471-480.	1.6	25
85	Soft Elasto-Hydrodynamic Lubrication. Tribology Letters, 2010, 39, 109-114.	2.6	25
86	Simulations of polydisperse magnetorheological fluids: A structural and kinetic investigation. Journal of Rheology, 2015, 59, 475-498.	2.6	25
87	Coadsorption of IgG and BSA onto sulfonated polystyrene latex: I. Sequential and competitive coadsorption isotherms. Journal of Biomaterials Science, Polymer Edition, 1996, 7, 231-240.	3.5	24
88	Brownian dynamics simulations in magnetorheology and comparison with experiments. Soft Matter, 2013, 9, 6970.	2.7	24
89	Influence of electrostatic forces on IgG adsorption onto polystyrene beads. Colloids and Surfaces B: Biointerfaces, 1994, 2, 435-441.	5.0	23
90	Adsorption of monoclonal IgG on polystyrene microspheres. Colloid and Polymer Science, 1994, 272, 352-358.	2.1	22

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91	Covalent coupling of antibodies to aldehyde groups on polymer carriers. Journal of Materials Science: Materials in Medicine, 1995, 6, 779-785.	3.6	22
92	Effective charges of colloidal particles obtained from collective diffusion experiments. Journal of Colloid and Interface Science, 2003, 263, 74-79.	9.4	22
93	Primitive models and electrophoresis: an experimental study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 222, 155-164.	4.7	22
94	Zeta-potential of polystyrene latex determined using different electrokinetic techniques in binary liquid mixtures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 291, 30-37.	4.7	22
95	A Comparative Study on the Adsorption of Triton X-100 and Tween 20 onto Latexes with Different Interfacial Properties. Journal of Colloid and Interface Science, 1997, 187, 139-147.	9.4	21
96	Study on the Colloidal Stability Mechanisms of Acetal-Functionalized Latexes. Langmuir, 1998, 14, 6377-6384.	3.5	21
97	An improved method to estimate the fractal dimension of physical fractals based on the Hausdorff definition. Physica A: Statistical Mechanics and Its Applications, 2001, 298, 387-399.	2.6	21
98	Imaging techniques applied to characterize bitumen and bituminous emulsions. Advances in Colloid and Interface Science, 2008, 136, 93-108.	14.7	21
99	Covalent Binding of Proteins to Acetal-Functionalized Latexes. I. Physics and Chemical Adsorption and Electrokinetic Characterization. Journal of Colloid and Interface Science, 1998, 201, 132-138.	9.4	20
100	Covalent Binding of Proteins to Acetal-Functionalized Latexes. II. Colloidal Stability and Immunoreactivity. Journal of Colloid and Interface Science, 1998, 201, 139-145.	9.4	20
101	Testing one component plasma models on colloidal overcharging phenomena. Journal of Chemical Physics, 2006, 125, 144906.	3.0	20
102	Surface and electrokinetic characterization of functional aldehyde polymer colloids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1994, 92, 137-146.	4.7	19
103	Surface characterization of latexes with different interfacial properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1996, 108, 263-271.	4.7	19
104	Liquidlike structures in dilute suspensions of charged liposomes. Journal of Chemical Physics, 2003, 118, 5167-5173.	3.0	19
105	Towards a universal master curve in magnetorheology. Smart Materials and Structures, 2017, 26, 054001.	3.5	19
106	Adsorption of anionic surfactants on positively charged polystyrene particles II. Colloid and Polymer Science, 1991, 269, 406-411.	2.1	18
107	ON SOME ASPECTS OF THE ADSORPTION OF IMMUNOGLOBULIN-G MOLECULES ON POLYSTYRENE MICROSPHERES. Journal of Dispersion Science and Technology, 1992, 13, 399-416.	2.4	18
108	COLLOID STABILITY OF POSITIVELY CHARGED MONODISPERSE LATEX IN ALCOHOL-WATER MKTURES. Journal of Dispersion Science and Technology, 1994, 15, 1-19.	2.4	18

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109	Nephelometric Assay of Immunoglobulin G Chemically Bound to Chloromethyl Styrene Beads. Polymers for Advanced Technologies, 1996, 7, 749-753.	3.2	18
110	Stabilization of protein-latex complexes at high ionic strength. Colloids and Surfaces B: Biointerfaces, 1996, 8, 73-80.	5.0	18
111	Anomalous Colloidal Stability of Latex-Protein Systems. Journal of Colloid and Interface Science, 1998, 206, 518-526.	9.4	18
112	Colloidal characterization of micron-sized rod-like magnetite particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 319, 122-129.	4.7	18
113	Dynamic Arrest in Charged Colloidal Systems Exhibiting Large-Scale Structural Heterogeneities. Physical Review Letters, 2009, 102, 018301.	7.8	18
114	A method for the estimation of the film thickness and plate tilt angle in thin film misaligned plateâ€“plate rheometry. Journal of Non-Newtonian Fluid Mechanics, 2010, 165, 1419-1421.	2.4	18
115	A comparative study of optical techniques applied to particle-enhanced assays of C-reactive protein. Journal of Immunological Methods, 1997, 205, 151-156.	1.4	17
116	Particle enhanced immunoassays stabilized by hydration forces: a comparative study between IgG and F(abâ€²)2 immunoreactivity. Journal of Immunological Methods, 1998, 211, 87-95.	1.4	17
117	Simulated Reversible Aggregation Processes for Different Interparticle Potentials: The Cluster Aging Phenomenon. Journal of Physical Chemistry B, 2003, 107, 2180-2188.	2.6	17
118	Cluster discrimination in electrostatic heteroaggregation processes. Physical Review E, 2004, 69, 011404.	2.1	17
119	Irreversible versus reversible aggregation: Mean field theory and experiments. Journal of Chemical Physics, 2004, 121, 5468-5481.	3.0	17
120	Monte Carlo simulations of the electrical double layer forces in the presence of divalent electrolyte solutions: effect of the ion size. Soft Matter, 2011, 7, 1441-1449.	2.7	17
121	Surface activity and collective behaviour of colloidally stable Janus-like particles at the airâ€“water interface. Soft Matter, 2014, 10, 3471.	2.7	17
122	Simulations of model magnetorheological fluids in squeeze flow mode. Journal of Rheology, 2017, 61, 871-881.	2.6	17
123	The adsorption of F(ab')2 on positively and negatively charged polystyrene beads. Journal of Biomaterials Science, Polymer Edition, 1995, 6, 269-279.	3.5	16
124	Coadsorption of IgG and BSA onto sulfonated polystyrene latex: II. Colloidal stability and immunoreactivity. Journal of Biomaterials Science, Polymer Edition, 1996, 7, 241-251.	3.5	16
125	A simple kinetic model of antigen-antibody reactions in particle-enhanced light scattering immunoassays. Colloids and Surfaces B: Biointerfaces, 1997, 8, 303-309.	5.0	16
126	Comparative study of theories of conversion of electrophoretic mobility into Î¶-potential. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 192, 215-226.	4.7	16

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127	An Experimental Test of the Ion Condensation Theory for Spherical Colloidal Particles. Journal of Colloid and Interface Science, 2001, 233, 280-285.	9.4	16
128	Interplay between hydrodynamic and direct interactions using liposomes. Journal of Chemical Physics, 2003, 119, 628-634.	3.0	16
129	Formation and structure of stable aggregates in binary diffusion-limited cluster-cluster aggregation processes. Physical Review E, 2005, 72, 031401.	2.1	16
130	Study on the Effect of Raw Material Composition on Waterâ€Repellent Capacity of Paraffin Wax Emulsions on Wood. Journal of Dispersion Science and Technology, 2005, 26, 9-18.	2.4	16
131	A micromechanical model for magnetorheological fluids under slow compression. Rheologica Acta, 2016, 55, 215-221.	2.4	16
132	Effects of particle concentration, ionic strength, pH and temperature on the microelectrophoretic mobility of cationic polystyrene latex. I. , 1990, , 313-320.		15
133	Study of the adsorption of F(ab')2 onto polystyrene latex beads. Colloids and Surfaces B: Biointerfaces, 1993, 1, 365-372.	5.0	15
134	The Surface Charge Density Influence on the Electrokinetic Properties of Model Colloids: Solvent Composition Effect. Journal of Colloid and Interface Science, 1999, 214, 243-250.	9.4	15
135	The Effect of the Salt Concentration and Counterion Valence on the Aggregation of Latex Particles at the Air/Water Interface. Journal of Colloid and Interface Science, 2002, 249, 405-411.	9.4	15
136	Modeling the aggregation of partially covered particles: Theory and simulation. Physical Review E, 2003, 68, 011404.	2.1	15
137	Additional considerations about the role of ion size in charge reversal. Journal of Physics Condensed Matter, 2009, 21, 424105.	1.8	15
138	Average particle magnetization as an experimental scaling parameter for the yield stress of dilute magnetorheological fluids. Journal Physics D: Applied Physics, 2011, 44, 425002.	2.8	15
139	Comparative sedimentation and streaming potential studies for Î¶ potential determination. Journal of Colloid and Interface Science, 1985, 107, 295-300.	9.4	14
140	Effect of surface charge density on the electrosurface properties of positively charged polystyrene beads. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1994, 92, 121-126.	4.7	14
141	Electrokinetic characterization and colloidal stability of polystyrene latex particles partially covered by IgG/a-CRP and m-BSA proteins. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1994, 92, 127-136.	4.7	14
142	Effect of Storage Time on the Immunoreactivity of IgG Physically Adsorbed or Chemically Bound to Latex Beads. Journal of Colloid and Interface Science, 1996, 184, 331-334.	9.4	14
143	Chloroactivated latex particles for covalent coupling of antibodies. Application to immunoassays. Journal of Biomaterials Science, Polymer Edition, 1997, 8, 765-777.	3.5	14
144	Ionic condensation theories and the liquidlike structures observed in colloidal dispersions. Physical Review E, 2000, 61, 574-582.	2.1	14

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145	Coupled aggregation and sedimentation processes: The sticking probability effect. Physical Review E, 2003, 67, 031401.	2.1	14
146	Synthesis of Ni ferrite and Co ferrite rodlike particles by superposition of a constant magnetic field. Journal of Materials Research, 2008, 23, 1764-1775.	2.6	14
147	On the nonparallelism effect in thin film plateâ€“plate rheometry. Journal of Rheology, 2011, 55, 981-986.	2.6	14
148	Electrophoretic mobility, primary electroviscous effect and colloid stability of highly charged polystyrene latexes. , 1991, , 416-424.		13
149	Repeptization Determined by Turbidity and Photon Correlation Spectroscopy Measurements: Particle Size Effects. Journal of Colloid and Interface Science, 1997, 195, 289-298.	9.4	13
150	Cluster Morphology of Protein-Coated Polymer Colloids. Journal of Colloid and Interface Science, 1998, 208, 445-454.	9.4	13
151	Structural effects of the solvent composition in colloidal liquids. Journal of Chemical Physics, 1999, 110, 6025-6031.	3.0	13
152	Fractal Aggregates Induced by Antigenâ^'Antibody Interaction. Langmuir, 2001, 17, 2514-2520.	3.5	13
153	The YoungÂLaplace equation links capillarity with geometrical optics. European Journal of Physics, 2003, 24, 159-168.	0.6	13
154	Effect of ionic van der Waals forces on the diffuse potential of model colloids. Colloid and Polymer Science, 2010, 288, 151-158.	2.1	13
155	Synthesis and interfacial activity of PMMA/PtBMA Janus and homogeneous nanoparticles at water/oil interfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 536, 259-265.	4.7	13
156	Stabilization of Paraffin Emulsions Used in the Manufacture of Chipboard Panels by Liquid Crystalline Phases. Journal of Dispersion Science and Technology, 2007, 28, 829-836.	2.4	12
157	Aggregation kinetics of latex microspheres in alcoholâ€“water media. Journal of Colloid and Interface Science, 2007, 310, 471-480.	9.4	12
158	Particle roughness in magnetorheology: effect on the strength of the field-induced structures. Journal Physics D: Applied Physics, 2015, 48, 015309.	2.8	12
159	Start-up rheometry of highly polydisperse magnetorheological fluids: experiments and simulations. Rheologica Acta, 2016, 55, 245-256.	2.4	12
160	A simple strategy to improve the interfacial activity of true Janus gold nanoparticles: a shorter hydrophilic capping ligand. Soft Matter, 2016, 12, 31-34.	2.7	12
161	Title is missing!. European Physical Journal E, 2002, 7, 153-161.	1.6	12
162	Latex immunoassays: Comparative studies on covalent and physical immobilization of antibodies. I. F(ab')2 fragments. Journal of Biomaterials Science, Polymer Edition, 1998, 9, 1089-1101.	3.5	11

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163	Probing Electrostatic Forces in Colloidal Suspensions through Turbidity Data. Journal of Colloid and Interface Science, 1999, 217, 177-185.	9.4	11
164	Simulations of aggregation in 2D. A study of kinetics, structure and topological properties. Physica A: Statistical Mechanics and Its Applications, 2000, 282, 50-64.	2.6	11
165	Multifractal behaviour of the estimated natural measure for colloidal clusterâ€“cluster aggregation in 2-D. Physica A: Statistical Mechanics and Its Applications, 2001, 291, 1-12.	2.6	11
166	On the effect of particle porosity and roughness in magnetorheology. Journal of Applied Physics, 2011, 110, .	2.5	11
167	Faceted particles: An approach for the enhancement of the elasticity and the yield-stress of magnetorheological fluids. Applied Physics Letters, 2016, 108, 211904.	3.3	11
168	Concentration dependence of electrokinetic transport coefficients of non-aqueous binary mixtures through weakly charged porous plugs. Journal of the Chemical Society Faraday Transactions I, 1985, 81, 609.	1.0	10
169	Agglutination kinetics of F(abâ€²) 2 coated polymer colloids. Colloid and Polymer Science, 1998, 276, 1117-1124.	2.1	10
170	Latex immunoassays: Comparative studies on covalent and physical immobilization of antibodies. II. IgG. Journal of Biomaterials Science, Polymer Edition, 1998, 9, 1103-1113.	3.5	10
171	Comparative electrophoretic mobility and streaming current study for Î¶-potential determination. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 159, 449-457.	4.7	10
172	Rough and Hollow Spherical Magnetite Microparticles: Revealing the Morphology, Internal Structure, and Growth Mechanism. Journal of Physical Chemistry C, 2013, 117, 5397-5406.	3.1	10
173	Design of smart lubricants using the inverse ferrofluid approach. Tribology International, 2022, 166, 107346.	5.9	10
174	STRATEGIES TO IMPROVE THE COLLOIDAL STABILITY AND THE REACTIVITY OF IMMUNOLATEX BEADS. Journal of Dispersion Science and Technology, 1996, 17, 321-337.	2.4	9
175	Probing the jellium model with colloidal dispersions of charged liposomes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 270-271, 352-356.	4.7	9
176	Self-Assembly in Two-Dimensions of Colloidal Particles at Liquid Mixtures. Langmuir, 2006, 22, 6746-6749.	3.5	9
177	Two-dimensional colloidal aggregation mediated by the range of repulsive interactions. Physical Review E, 2007, 75, 041408.	2.1	9
178	Conformational changes of polyglutamic acid adsorbed on cationic polystyrene as characterized by microelectrophoresis technique. Colloid and Polymer Science, 1989, 267, 853-856.	2.1	8
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