Av Delgado

List of Publications by Year
in descending order

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53 papers	3,309 citations	218677 26 h-index	182427 51 g-index
54 all docs	54 docs citations	54 times ranked	3756 citing authors

#	Article	IF	Citations
1	Measurement and interpretation of electrokinetic phenomena. Journal of Colloid and Interface Science, 2007, 309, 194-224.	9.4	947
2	Synthesis and Characterization of Spherical Magnetite/Biodegradable Polymer Composite Particles. Journal of Colloid and Interface Science, 2001, 240, 40-47.	9.4	212
3	Synthesis and characterization of poly(ethyl-2-cyanoacrylate) nanoparticles with a magnetic core. Journal of Controlled Release, 2001, 77, 309-321.	9.9	180
4	Magnetic Colloids As Drug Vehicles. Journal of Pharmaceutical Sciences, 2008, 97, 2948-2983.	3.3	161
5	Stability and magnetic characterization of oleate-covered magnetite ferrofluids in different nonpolar carriers. Journal of Colloid and Interface Science, 2005, 291, 144-151.	9.4	128
6	Dielectric dispersion in aqueous colloidal systems. Current Opinion in Colloid and Interface Science, 2010, 15, 145-159.	7.4	109
7	Dynamic characterization of extremely bidisperse magnetorheological fluids. Journal of Colloid and Interface Science, 2012, 377, 153-159.	9.4	109
8	Thin double layer theory of the wide-frequency range dielectric dispersion of suspensions of non-conducting spherical particles including surface conductivity of the stagnant layer. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 192, 253-265.	4.7	106
9	Stabilization of magnetorheological suspensions by polyacrylic acid polymers. Journal of Colloid and Interface Science, 2005, 284, 527-541.	9.4	105
10	Preparation and characterization of carbonyl iron/poly(butylcyanoacrylate) core/shell nanoparticles. Journal of Colloid and Interface Science, 2006, 299, 599-607.	9.4	99
11	Polarization of the Electrical Double Layer. Time Evolution after Application of an Electric Field. Journal of Colloid and Interface Science, 2000, 232, 141-148.	9.4	88
12	Electrokinetics of Concentrated Suspensions of Spherical Colloidal Particles with Surface Conductance, Arbitrary Zeta Potential, and Double-Layer Thickness in Static Electric Fields. Journal of Colloid and Interface Science, 2002, 252, 126-137.	9.4	79
13	Analysis of the Dielectric Permittivity of Suspensions by Means of the Logarithmic Derivative of Its Real Part. Journal of Colloid and Interface Science, 2002, 249, 327-335.	9.4	75
14	Electrokinetics of Concentrated Suspensions of Spherical Colloidal Particles: Effect of a Dynamic Stern Layer on Electrophoresis and DC Conductivity. Journal of Colloid and Interface Science, 2001, 243, 351-361.	9.4	65
15	Study of the colloidal stability of concentrated bimodal magnetic fluids. Journal of Colloid and Interface Science, 2007, 309, 135-139.	9.4	64
16	Development of carbonyl iron/ethylcellulose core/shell nanoparticles for biomedical applications. International Journal of Pharmaceutics, 2007, 339, 237-245.	5.2	55
17	Aging Effects in the Electrokinetics of Colloidal Iron Oxides. Journal of Colloid and Interface Science, 2002, 245, 86-90.	9.4	52
18	Electrokinetic characterization of magnetite nanoparticles functionalized with amino acids. Journal of Colloid and Interface Science, 2010, 344, 144-149.	9.4	51

#	Article	IF	Citations
19	The effect of the concentration of dispersed particles on the mechanisms of low-frequency dielectric dispersion (LFDD) in colloidal suspensions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 140, 139-149.	4.7	50
20	Dielectric Dispersion of Colloidal Suspensions in the Presence of Stern Layer Conductance: Particle Size Effects. Journal of Colloid and Interface Science, 1999, 210, 194-199.	9.4	50
21	Ftorafur loading and controlled release from poly(ethyl-2-cyanoacrylate) and poly(butylcyanoacrylate) nanospheres. International Journal of Pharmaceutics, 2007, 337, 282-290.	5.2	47
22	Influence of cell-model boundary conditions on the conductivity and electrophoretic mobility of concentrated suspensions. Advances in Colloid and Interface Science, 2005, 118, 43-50.	14.7	43
23	Sedimentation velocity and potential in a concentrated colloidal suspension. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 195, 157-169.	4.7	40
24	Functionalized magnetic nanoparticles as vehicles for the delivery of the antitumor drug gemcitabine to tumor cells. Physicochemical in vitro evaluation. Materials Science and Engineering C, 2013, 33, 1183-1192.	7.3	33
25	Dynamics of the Electric Double Layer: Analysis in the Frequency and Time Domains. Journal of Colloid and Interface Science, 2000, 228, 95-104.	9.4	29
26	Study of the magnetorheological response of aqueous magnetite suspensions stabilized by acrylic acid polymers. Journal of Colloid and Interface Science, 2008, 324, 199-204.	9.4	29
27	Surface conductivity of colloidal particles: Experimental assessment of its contributions. Journal of Colloid and Interface Science, 2007, 316, 836-843.	9.4	25
28	Use of a cell model for the evaluation of the dynamic mobility of spherical silica suspensions. Journal of Colloid and Interface Science, 2007, 309, 342-349.	9.4	23
29	Magnetic properties of extremely bimodal magnetite suspensions. Journal of Magnetism and Magnetic Materials, 2007, 314, 80-86.	2.3	23
30	Magnetic hyperthermia with magnetite nanoparticles: electrostatic and polymeric stabilization. Colloid and Polymer Science, 2016, 294, 1541-1550.	2.1	23
31	A study on the adhesion of calcium carbonate to glass. Energy balance in the deposition process. Journal of Adhesion Science and Technology, 1996, 10, 847-868.	2.6	22
32	Effects of Temperature and Polydispersity on the Dielectric Relaxation of Dilute Ethylcellulose Suspensions. Journal of Colloid and Interface Science, 1999, 217, 411-416.	9.4	20
33	A simple model of the high-frequency dynamic mobility in concentrated suspensions. Journal of Colloid and Interface Science, 2006, 301, 660-667.	9.4	19
34	Effect of Size Polydispersity on the Dielectric Relaxation of Colloidal Suspensions: A Numerical Study in the Frequency and Time Domains. Journal of Colloid and Interface Science, 1998, 206, 569-576.	9.4	16
35	Effect of a Dynamic Stern Layer on the Sedimentation Velocity and Potential in a Dilute Suspension of Colloidal Particles. Journal of Colloid and Interface Science, 2000, 227, 212-222.	9.4	15
36	Electric permittivity of concentrated suspensions of elongated goethite particles. Journal of Colloid and Interface Science, 2010, 343, 564-573.	9.4	15

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37	Synergy between magnetorheological fluids and aluminum foams: Prospective alternative for seismic damping. Journal of Intelligent Material Systems and Structures, 2016, 27, 872-879.	2.5	14
38	An experimental method for the measurement of the stability of concentrated magnetic fluids. Journal of Colloid and Interface Science, 2007, 311, 475-480.	9.4	13
39	Electroacoustic and dielectric dispersion of concentrated colloidal suspensions. IEEE Transactions on Dielectrics and Electrical Insulation, 2006, 13, 657-663.	2.9	12
40	Dynamic electrophoretic mobility of concentrated suspensions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 267, 95-102.	4.7	10
41	Tunable pattern structures in dielectric liquids under high dc electric fields. IEEE Transactions on Dielectrics and Electrical Insulation, 2006, 13, 462-469.	2.9	8
42	Electrokinetics in extremely bimodal suspensions. Journal of Colloid and Interface Science, 2007, 309, 296-302.	9.4	8
43	Dielectric relaxation of non-conducting colloidal particles in non-binary solutions: mutual enhancement of adsorption oscillations. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1997, 121, 173-187.	4.7	7
44	Nonstationary electro-osmotic flow in closed cylindrical capillaries. Theory and experiment. Journal of Colloid and Interface Science, 2007, 309, 308-314.	9.4	6
45	Consideration of polydispersity in the evaluation of the dynamic mobility of concentrated suspensions. Journal of Colloid and Interface Science, 2010, 343, 350-358.	9.4	6
46	Thin Double-Layer Approximation and Exact Standard Prediction for the Dielectric Response of a Colloidal Suspension. Journal of Colloid and Interface Science, 1995, 170, 176-181.	9.4	4
47	Particle geometry, charge, and wettability. , 2014, , 443-467.		3
48	Electroacoustic and dielectric dispersion of concentrated colloidal suspensions. , 0, , .		2
49	Dielectric relaxation in concentrated nonaqueous colloidal suspensions. Journal of Colloid and Interface Science, 2014, 436, 132-137.	9.4	2
50	Dynamic electrophoretic mobility and electric permittivity of concentrated suspensions of plate-like gibbsite particles. Journal of Colloid and Interface Science, 2017, 502, 112-121.	9.4	2
51	Effect of cationic surfactant addition on the electrokinetics and stability of silica/kaolinite suspensions in copper hydrometallurgy conditions. Minerals Engineering, 2021, 169, 106958.	4.3	1
52	Electrokinetic detection of the salt-free condition in colloids. Application to polystyrene latexes. Advances in Colloid and Interface Science, 2022, 299, 102539.	14.7	1
53	Tunable pattern structures in dielectric liquids under high DC electric fields. , 0, , .		0