

JosÃ© Antonio Molina-bolÃ¡var

List of Publications by Year in descending order

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64
papers

2,796
citations

218677

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175258

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64
all docs

64
docs citations

64
times ranked

3441
citing authors

#	ARTICLE	IF	CITATIONS
1	On the determination of the critical micelle concentration by the pyrene 1:3 ratio method. <i>Journal of Colloid and Interface Science</i> , 2003, 258, 116-122.	9.4	690
2	Thermodynamic and Structural Studies of Triton X-100 Micelles in Ethylene Glycol-Water Mixed Solvents. <i>Langmuir</i> , 2001, 17, 6831-6840.	3.5	185
3	Hydration forces between silica surfaces: Experimental data and predictions from different theories. <i>Journal of Chemical Physics</i> , 2005, 123, 034708.	3.0	127
4	Growth and Hydration Of Triton X-100 Micelles In Monovalent Alkali Salts: A Light Scattering Study. <i>Journal of Physical Chemistry B</i> , 2002, 106, 870-877.	2.6	110
5	Effect of ethylene glycol on the thermodynamic and micellar properties of Tween 20. <i>Colloid and Polymer Science</i> , 2003, 281, 531-541.	2.1	109
6	Systematic study on the preparation of BSA nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 123, 286-292.	5.0	109
7	How Proteins Stabilize Colloidal Particles by Means of Hydration Forces. <i>Langmuir</i> , 1999, 15, 2644-2653.	3.5	108
8	Thermodynamics and Micellar Properties of Tetradecyltrimethylammonium Bromide in Formamide-Water Mixtures. <i>Journal of Colloid and Interface Science</i> , 2002, 255, 382-390.	9.4	99
9	Colloidal stability of protein-polymer systems: A possible explanation by hydration forces. <i>Physical Review E</i> , 1997, 55, 4522-4530.	2.1	68
10	Latex Immunoagglutination Assays. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 2005, 45, 59-98.	2.2	64
11	The role played by hydration forces in the stability of protein-coated particles: non-classical DLVO behaviour. <i>Colloids and Surfaces B: Biointerfaces</i> , 1999, 14, 3-17.	5.0	55
12	Evidence of hydration forces between proteins. <i>Current Opinion in Colloid and Interface Science</i> , 2011, 16, 572-578.	7.4	50
13	Spectroscopic investigation on the interaction of maslinic acid with bovine serum albumin. <i>Journal of Luminescence</i> , 2014, 156, 141-149.	3.1	45
14	Interaction Forces between BSA Layers Adsorbed on Silica Surfaces Measured with an Atomic Force Microscope. <i>Journal of Physical Chemistry B</i> , 2004, 108, 5365-5371.	2.6	43
15	Surface Activity, Micelle Formation, and Growth of n-Octyl- β -D-Thioglucopyranoside in Aqueous Solutions at Different Temperatures. <i>Journal of Physical Chemistry B</i> , 2004, 108, 12813-12820.	2.6	43
16	Applications of serum albumins in delivery systems: Differences in interfacial behaviour and interacting abilities with polysaccharides. <i>Advances in Colloid and Interface Science</i> , 2021, 290, 102365.	14.7	41
17	An Energetic Analysis of the Phase Separation in Non-Ionic Surfactant Mixtures: The Role of the Headgroup Structure. <i>Entropy</i> , 2014, 16, 4375-4391.	2.2	39
18	Existence of Hydration Forces in the Interaction between Apoferritin Molecules Adsorbed on Silica Surfaces. <i>Langmuir</i> , 2005, 21, 9544-9554.	3.5	38

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19	Particle enhanced immunoaggregation of F(ab ϵ) ₂ molecules. Journal of Immunological Methods, 1996, 190, 29-38.	1.4	37
20	Interaction between the anti-cancer drug diacetyl maslinic acid and bovine serum albumin: A biophysical study. Journal of Molecular Liquids, 2015, 208, 304-313.	4.9	37
21	Interaction of Bacterial Endotoxine (Lipopolysaccharide) with Latex Particles: Application to Latex Agglutination Immunoassays. Journal of Colloid and Interface Science, 2002, 245, 230-236.	9.4	32
22	Effect of NaCl on the Self-Aggregation of n-Octyl β -D-Thioglucopyranoside in Aqueous Medium. Journal of Physical Chemistry B, 2006, 110, 12089-12095.	2.6	31
23	Functionalized Monodisperse Particles with Chloromethyl Groups for the Covalent Coupling of Proteins. Macromolecules, 1998, 31, 4282-4287.	4.8	30
24	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
25	Photophysical and light scattering studies on the aggregation behaviour of Triton X-100 in formamide-water mixed solvents. Molecular Physics, 2002, 100, 3259-3269.	1.7	29
26	Effect of glycine on the surface activity and micellar properties of N-decanoyl-N-methylglucamide. Colloid and Polymer Science, 2008, 286, 1281-1289.	2.1	29
27	Self-assembly, hydration, and structures in N-decanoyl-N-methylglucamide aqueous solutions: Effect of salt addition and temperature. Journal of Colloid and Interface Science, 2007, 313, 656-664.	9.4	26
28	On the Urea Action Mechanism: A Comparative Study on the Self-Assembly of Two Sugar-Based Surfactants. Journal of Physical Chemistry B, 2009, 113, 7178-7187.	2.6	26
29	Energetics of clouding and size effects in non-ionic surfactant mixtures: The influence of alkyl chain length and NaCl addition. Journal of Chemical Thermodynamics, 2013, 57, 59-66.	2.0	25
30	Micellar size and phase behavior in n-octyl- β -D-thioglucoside/Triton X-100 mixtures: The effect of NaCl addition. Fluid Phase Equilibria, 2012, 327, 58-64.	2.5	24
31	Simultaneous presence of dynamic and sphere action component in the fluorescence quenching of human serum albumin by diphthaloylmaslinic acid. Journal of Luminescence, 2016, 178, 259-266.	3.1	24
32	Interactions between bovine serum albumin layers adsorbed on different substrates measured with an atomic force microscope. Physical Chemistry Chemical Physics, 2004, 6, 1482-1486.	2.8	23
33	Analysis of the Photophysical Behavior and Rotational-Relaxation Dynamics of Coumarin 6 in Nonionic Micellar Environments: The Effect of Temperature. Molecules, 2015, 20, 19343-19360.	3.8	21
34	Albumin-covered lipid nanocapsules exhibit enhanced uptake performance by breast-tumor cells. Colloids and Surfaces B: Biointerfaces, 2018, 165, 103-110.	5.0	21
35	Aggregation behaviour of octyl- β -D-thioglucopyranoside in the presence of glycine. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 249, 35-39.	4.7	19
36	Stabilization of protein-latex complexes at high ionic strength. Colloids and Surfaces B: Biointerfaces, 1996, 8, 73-80.	5.0	18

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37	Anomalous Colloidal Stability of Latex-Protein Systems. <i>Journal of Colloid and Interface Science</i> , 1998, 206, 518-526.	9.4	18
38	A comparative study of optical techniques applied to particle-enhanced assays of C-reactive protein. <i>Journal of Immunological Methods</i> , 1997, 205, 151-156.	1.4	17
39	Particle enhanced immunoassays stabilized by hydration forces: a comparative study between IgG and F(ab ϵ) ₂ immunoreactivity. <i>Journal of Immunological Methods</i> , 1998, 211, 87-95.	1.4	17
40	Adhesion Forces between Protein Layers Studied by Means of Atomic Force Microscopy. <i>Langmuir</i> , 2006, 22, 5108-5114.	3.5	17
41	Characterization of mixed non-ionic surfactants n-octyl- β -D-thioglucoside and octaethylene β -glycol monododecyl ether: Micellization and microstructure. <i>Journal of Colloid and Interface Science</i> , 2011, 361, 178-185.	9.4	17
42	A simple kinetic model of antigen-antibody reactions in particle-enhanced light scattering immunoassays. <i>Colloids and Surfaces B: Biointerfaces</i> , 1997, 8, 303-309.	5.0	16
43	Study of the colloidal stability of an amphoteric latex. <i>Colloid and Polymer Science</i> , 2003, 281, 708-715.	2.1	14
44	Effect of cross-linker glutaraldehyde on gastric digestion of emulsified albumin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 145, 899-905.	5.0	14
45	Repeptization Determined by Turbidity and Photon Correlation Spectroscopy Measurements: Particle Size Effects. <i>Journal of Colloid and Interface Science</i> , 1997, 195, 289-298.	9.4	13
46	Cluster Morphology of Protein-Coated Polymer Colloids. <i>Journal of Colloid and Interface Science</i> , 1998, 208, 445-454.	9.4	13
47	Fractal Aggregates Induced by Antigen \sim Antibody Interaction. <i>Langmuir</i> , 2001, 17, 2514-2520.	3.5	13
48	A laboratory activity on the eddy current brake. <i>European Journal of Physics</i> , 2012, 33, 697-707.	0.6	12
49	Latex immunoassays: Comparative studies on covalent and physical immobilization of antibodies. I. F(ab') ₂ fragments. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1998, 9, 1089-1101.	3.5	11
50	Agglutination kinetics of F(ab ϵ) ₂ coated polymer colloids. <i>Colloid and Polymer Science</i> , 1998, 276, 1117-1124.	2.1	10
51	Latex immunoassays: Comparative studies on covalent and physical immobilization of antibodies. II. IgG. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1998, 9, 1103-1113.	3.5	10
52	Light scattering and fluorescence studies of non-ionic surfactant binary mixtures formed by MEGA-10 and C12E8. <i>Journal of Molecular Liquids</i> , 2010, 155, 96-102.	4.9	10
53	Olive-oil nanocapsules stabilized by HSA: influence of processing variables on particle properties. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	9
54	Self-Assembly, Surface Activity and Structure of n-Octyl- β -D-thioglucopyranoside in Ethylene Glycol-Water Mixtures. <i>International Journal of Molecular Sciences</i> , 2013, 14, 3228-3253.	4.1	8

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55	Measurement of interactions between protein layers adsorbed on silica by atomic force microscopy. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S2383-S2392.	1.8	7
56	Hyaluronic acid and human/bovine serum albumin shelled nanocapsules: Interaction with mucins and in vitro digestibility of interfacial films. <i>Food Chemistry</i> , 2022, 383, 132330.	8.2	7
57	Development of a high sensitivity IgG-latex immunodetection system stabilized by hydration forces. <i>Polymer International</i> , 1999, 48, 685-690.	3.1	6
58	Energetics of albumin-disuccinylmaslinic acid binding determined by fluorescence spectroscopy. <i>Fluid Phase Equilibria</i> , 2015, 400, 43-52.	2.5	6
59	Effect of the micellar composition on the rotational relaxation dynamics of Coumarin 153 in mixed micelles of n-dodecyl- β -D-maltoside and sodium dodecyl sulfate. <i>Journal of Luminescence</i> , 2017, 192, 188-195.	3.1	6
60	Maslinic acid conjugate with 7-amino-4-methylcoumarin as probe to monitor the temperature dependent conformational changes of human serum albumin by FRET. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 214, 161-169.	3.9	6
61	Forces acting on particle-enhanced immunoassays. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1999, 10, 1093-1105.	3.5	5
62	Micelle size modulation and phase behavior in MEGA-10/Triton X-100 mixtures. <i>Thermochimica Acta</i> , 2014, 598, 68-76.	2.7	5
63	Secondary Minimum Coagulation in Charged Colloidal Suspensions from Statistical Mechanics Methods. <i>Journal of Physical Chemistry B</i> , 2007, 111, 1110-1118.	2.6	4
64	Stabilisation of an amphoteric latex by hydration forces. , 0, , 255-259.		0