Maria Graca Miguel

List of Publications by Year
in descending order

57 papers	3,156 citations	136950 32 h-index	149698 56 g-index
57 all docs	57 docs citations	57 times ranked	3311 citing authors

#	Article	IF	Citations
1	Rationalizing cellulose (in)solubility: reviewing basic physicochemical aspects and role of hydrophobic interactions. Cellulose, 2012, 19, 581-587.	4.9	437
2	DNA Phase Behavior in the Presence of Oppositely Charged Surfactants. Langmuir, 2000, 16, 9577-9583.	3.5	196
3	DNAâ^'Cationic Surfactant Interactions Are Different for Double- and Single-Stranded DNA. Biomacromolecules, 2005, 6, 2164-2171.	5.4	127
4	Coilâ^'Globule Transition of DNA Molecules Induced by Cationic Surfactants:Â A Dynamic Light Scattering Study. Journal of Physical Chemistry B, 2005, 109, 10458-10463.	2.6	111
5	Interactions between Catanionic Vesicles and Oppositely Charged PolyelectrolytesPhase Behavior and Phase Structure. Macromolecules, 1999, 32, 6626-6637.	4.8	107
6	DNA Interaction with Catanionic Vesicles. Journal of Physical Chemistry B, 2002, 106, 12600-12607.	2.6	104
7	Preparation of Calcium Alginate Nanoparticles Using Water-in-Oil (W/O) Nanoemulsions. Langmuir, 2012, 28, 4131-4141.	3.5	103
8	Compaction and Decompaction of DNA in the Presence of Catanionic Amphiphile Mixtures. Journal of Physical Chemistry B, 2002, 106, 12608-12612.	2.6	100
9	Interaction between DNA and Cationic Surfactants: Effect of DNA Conformation and Surfactant Headgroup. Journal of Physical Chemistry B, 2008, 112, 14446-14452.	2.6	88
10	Modeling of DNA compaction by polycations. Journal of Chemical Physics, 2003, 119, 8150-8157.	3.0	82
11	Spontaneous Formation of Vesicles and Dispersed Cubic and Hexagonal Particles in Amino Acid-Based Catanionic Surfactant Systems. Langmuir, 2006, 22, 5588-5596.	3.5	81
12	Effect of Headgroup on DNAâ^'Cationic Surfactant Interactionsâ€. Journal of Physical Chemistry B, 2007, 111, 8502-8508.	2.6	81
13	Network Formation of Catanionic Vesicles and Oppositely Charged Polyelectrolytes. Effect of Polymer Charge Density and Hydrophobic Modification. Langmuir, 2004, 20, 4647-4656.	3.5	80
14	DNA conformational dynamics in the presence of catanionic mixtures. FEBS Letters, 1999, 453, 113-118.	2.8	79
15	Cyclodextrin-grafted cellulose: Physico-chemical characterization. Carbohydrate Polymers, 2013, 93, 324-330.	10.2	73
16	Vesicle-Templated Layer-by-Layer Assembly for the Production of Nanocapsules. Langmuir, 2010, 26, 10555-10560.	3.5	65
17	Surface Complexation of DNA with Insoluble Monolayers. Influence of Divalent Counterions. Langmuir, 2005, 21, 1900-1907.	3.5	61
18	Association of Naphthalene-Labeled Poly(acrylic acid) and Interaction with Cationic Surfactants. Fluorescence Studies. Langmuir, 2000, 16, 10528-10539.	3.5	60

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19	PVAâˆ'DNA Cryogel Membranes:â€‰ Characterization, Swelling, and Transport Studies. Langmuir, 2008, 24, 273-279.	3.5	60
20	DNAâˆ'Surfactant Complexes at Solid Surfaces. Langmuir, 2001, 17, 1666-1669.	3.5	59
21	DNA encapsulation by biocompatible catanionic vesicles. Journal of Colloid and Interface Science, 2007, 312, 87-97.	9.4	58
22	pH-responsive liposome-templated polyelectrolyte nanocapsules. Soft Matter, 2012, 8, 4415.	2.7	58
23	Interaction between Covalent DNA Gels and a Cationic Surfactant. Biomacromolecules, 2006, 7, 1090-1095.	5.4	57
24	DNA Gel Particles:â€‰ Particle Preparation and Release Characteristics. Langmuir, 2007, 23, 6478-6481.	3.5	57
25	Polyion Adsorption onto Catanionic Surfaces. A Monte Carlo Study. Journal of Physical Chemistry B, 2005, 109, 11781-11788.	2.6	52
26	Cationic agents for DNA compaction. Journal of Colloid and Interface Science, 2008, 323, 75-83.	9.4	48
27	Effect of the Head-Group Geometry of Amino Acid-Based Cationic Surfactants on Interaction with Plasmid DNA. Biomacromolecules, 2008, 9, 1852-1859.	5.4	48
28	Responsive Polymer Gels:â€‰ Double-Stranded versus Single-Stranded DNA. Journal of Physical Chemistry B, 2007, 111, 10886-10896.	2.6	47
29	Surfactantâˆ'DNA Gel Particles: Formation and Release Characteristics. Biomacromolecules, 2007, 8, 3886-3892.	5.4	40
30	Polyelectrolytes confined to spherical cavities. Journal of Chemical Physics, 2002, 117, 1385-1394.	3.0	38
31	DNA pre-condensation with an amino acid-based cationic amphiphile. A viable approach for liposome-based gene delivery. Molecular Membrane Biology, 2008, 25, 23-34.	2.0	35
32	Planar lamellae and onions: a spatially resolved rheoâ€"NMR approach to the shear-induced structural transformations in a surfactant model system. Soft Matter, 2011, 7, 4938.	2.7	33
33	Controlling the Morphology in DNA Condensation and Precipitation. Biomacromolecules, 2009, 10, 1319-1323.	5.4	30
34	Swelling behavior of a new biocompatible plasmid DNA hydrogel. Colloids and Surfaces B: Biointerfaces, 2012, 92, 106-112.	5.0	29
35	Role of Linker Groups between Hydrophilic and Hydrophobic Moieties of Cationic Surfactants on Oligonucleotideâˆ'Surfactant Interactions. Langmuir, 2009, 25, 13770-13775.	3.5	27
36	Dynamics and Energetics of the Self-Assembly of a Hydrophobically Modified Polyelectrolyte:â€‰ Naphthalene-Labeled Poly(Acrylic Acid). Journal of Physical Chemistry B, 2005, 109, 11478-11492.	2.6	25

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37	DNA gel particles. Soft Matter, 2010, 6, 3143.	2.7	25
38	Kinetic Studies of Amino Acid-Based Surfactant Binding to DNA. Journal of Physical Chemistry B, 2012, 116, 5831-5837.	2.6	23
39	Novel Biocompatible DNA Gel Particles. Langmuir, 2010, 26, 10606-10613.	3.5	22
40	Counter-ion effect on surfactantâ€"DNA gel particles as controlled DNA delivery systems. Soft Matter, 2012, 8, 3200.	2.7	22
41	Mixed Protein Carriers for Modulating DNA Release. Langmuir, 2009, 25, 10263-10270.	3.5	20
42	Size and morphology of assemblies formed by DNA and lysozyme in dilute aqueous mixtures. Physical Chemistry Chemical Physics, 2011, 13, 3082-3091.	2.8	18
43	DNA gel particles from single and double-tail surfactants: supramolecular assemblies and release characteristics. Soft Matter, 2011, 7, 2001.	2.7	18
44	Electrophoretic properties of complexes between DNA and the cationic surfactant cetyltrimethylammonium bromide. Electrophoresis, 2005, 26, 2908-2917.	2.4	17
45	Mixed Systems of Hydrophobically Modified Polyelectrolytes:â€‰ Controlling Rheology by Charge and Hydrophobe Stoichiometry and Interaction Strength. Langmuir, 2005, 21, 10188-10196.	3.5	17
46	Gels of Catanionic Vesicles and Hydrophobically Modified Poly(ethylene glycol). Journal of Dispersion Science and Technology, 2006, 27, 83-90.	2.4	17
47	DNA gel particles: An overview. Advances in Colloid and Interface Science, 2014, 205, 240-256.	14.7	17
48	Self-Assembly of a Hydrophobically Modified Naphthalene-Labeled Poly(acrylic acid) Polyelectrolyte in Water:Organic Solvent Mixtures Followed by Steady-State and Time-Resolved Fluorescence. Journal of Physical Chemistry B, 2005, 109, 3243-3251.	2.6	14
49	Interactions between DNA and Nonionic Ethylene Oxide Surfactants are Predominantly Repulsive. Langmuir, 2010, 26, 13102-13109.	3.5	13
50	Phase Behavior and Coassembly of DNA and Lysozyme in Dilute Aqueous Mixtures: A Model Investigation of DNAâ^'Protein Interactions. Langmuir, 2010, 26, 2986-2988.	3.5	12
51	Mixed proteinâ€"DNA gel particles for DNA delivery: Role of protein composition and preparation method on biocompatibility. International Journal of Pharmaceutics, 2013, 454, 192-203.	5.2	12
52	Interactions between Cationic Lipid Bilayers and Model Chromatin. Langmuir, 2010, 26, 12488-12492.	3.5	11
53	Chitosan-DNA Particles for DNA Delivery: Effect of Chitosan Molecular Weight on Formation and Release Characteristics. Journal of Dispersion Science and Technology, 2009, 30, 1494-1499.	2.4	10
54	Physicochemical properties of transferrin-associated lipopolyplexes and their role in biological activity. Colloids and Surfaces B: Biointerfaces, 2010, 76, 207-214.	5.0	10

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55	Phase behavior and rheological properties of DNAâ€“cationic polysaccharide mixtures. Journal of Colloid and Interface Science, 2012, 383, 63-74.	9.4	8
56	Inclusion of a single-tail amino acid-based amphiphile in a lipoplex formulation: Effects on transfection efficiency and physicochemical properties. Molecular Membrane Biology, 2011, 28, 42-53.	2.0	7
57	Supramolecular Organization in Self-Assembly of Chromatin and Cationic Lipid Bilayers is Controlled by Membrane Charge Density. Biomacromolecules, 2012, 13, 4146-4157.	5.4	7