

# Eduardo F Marques

## List of Publications by Year in descending order

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110  
papers

4,188  
citations

101543

36  
h-index

128289

60  
g-index

116  
all docs

116  
docs citations

116  
times ranked

3433  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer/surfactant mixtures as dispersants and non-covalent functionalization agents of multiwalled carbon nanotubes: Synergism, morphological characterization and molecular picture. <i>Journal of Molecular Liquids</i> , 2022, 347, 118338.	4.9	13
2	Drugâ€Derived Surfaceâ€Active Ionic Liquids: A Costâ€Effective Way To Expressively Increase the Bloodâ€Stage Antimalarial Activity of Primaquine. <i>ChemMedChem</i> , 2022, 17, .	3.2	6
3	Combining metal nanoclusters and carbon nanomaterials: Opportunities and challenges in advanced nanohybrids. <i>Advances in Colloid and Interface Science</i> , 2022, 304, 102667.	14.7	16
4	A critical assessment of the role of ionic surfactants in the exfoliation and stabilization of 2D nanosheets: The case of the transition metal dichalcogenides MoS <sub>2</sub> , WS <sub>2</sub> and MoSe <sub>2</sub> . <i>Journal of Colloid and Interface Science</i> , 2022, 626, 167-177.	9.4	11
5	Effective cytocompatible nanovectors based on serine-derived gemini surfactants and monoolein for small interfering RNA delivery. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 34-44.	9.4	12
6	Biocompatible thermosensitive nanostructures and hydrogels of an amino acid-derived surfactant and hydroxyethyl cellulose polymers. <i>Journal of Molecular Liquids</i> , 2021, 322, 114540.	4.9	6
7	Stimuliâ€Sensitive Selfâ€Assembled Tubules Based on Lysineâ€Derived Surfactants for Delivery of Antimicrobial Proteins. <i>Chemistry - A European Journal</i> , 2021, 27, 692-704.	3.3	3
8	Formation of catanionic vesicles by threonine-derived surfactants and gemini surfactants based on conventional or serine-derived headgroups: designing versatile and cytocompatible nanocarriers. <i>Soft Matter</i> , 2021, 17, 7099-7110.	2.7	6
9	Nanocomposites Prepared from Carbon Nanotubes and the Transition Metal Dichalcogenides WS <sub>2</sub> and MoS <sub>2</sub> via Surfactant-Assisted Dispersions as Electrocatalysts for Oxygen Reactions. <i>Materials</i> , 2021, 14, 896.	2.9	14
10	Surfing the Third Wave of Ionic Liquids: A Brief Review on the Role of Surfaceâ€Active Ionic Liquids in Drug Development and Delivery. <i>ChemMedChem</i> , 2021, 16, 2604-2611.	3.2	19
11	Comparative trends and molecular analysis on the surfactant-assisted dispersibility of 1D and 2D carbon materials: Multiwalled nanotubes vs graphene nanoplatelets. <i>Journal of Molecular Liquids</i> , 2021, 333, 116002.	4.9	9
12	Carbon nanotube/graphene nanocomposites built via surfactant-mediated colloid assembly as metal-free catalysts for the oxygen reduction reaction. <i>Journal of Materials Science</i> , 2021, 56, 19512-19527.	3.7	6
13	Enhancing the dispersibility of multiwalled carbon nanotubes within starch-based films by the use of ionic surfactants. <i>Carbohydrate Polymers</i> , 2021, 273, 118531.	10.2	11
14	Influence of the media ionic strength on the formation and in vitro biological performance of polycation-DNA complexes. <i>Journal of Molecular Liquids</i> , 2021, 344, 117930.	4.9	2
15	Building on Surface-Active Ionic Liquids for the Rescuing of the Antimalarial Drug Chloroquine. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5334.	4.1	17
16	Textile Industry in a Changing World. <i>U Porto Journal of Engineering</i> , 2020, 6, 86-97.	0.4	17
17	Surface charge tunable catanionic vesicles based on serine-derived surfactants as efficient nanocarriers for the delivery of the anticancer drug doxorubicin. <i>Nanoscale</i> , 2019, 11, 5932-5941.	5.6	36
18	From single gemini surfactants in water to catanionic mixtures with the bile salt sodium taurodeoxycholate: Extensive micellar solutions, coacervation and liquid crystal polymorphism as revealed by phase behavior studies. <i>Journal of Molecular Liquids</i> , 2019, 285, 330-337.	4.9	7

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19	Gemini surfactants as efficient dispersants of multiwalled carbon nanotubes: Interplay of molecular parameters on nanotube dispersibility and debundling. <i>Journal of Colloid and Interface Science</i> , 2019, 547, 69-77.	9.4	32
20	Temperature-responsive self-assembled nanostructures from lysine-based surfactants with high chain length asymmetry: from tubules and helical ribbons to micelles and vesicles. <i>Soft Matter</i> , 2019, 15, 3700-3711.	2.7	19
21	Modeling of ultra-small lipid nanoparticle surface charge for targeting glioblastoma. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 117, 255-269.	4.0	33
22	Dispersing Carbon Nanotubes in Water with Amphiphiles: Dispersant Adsorption, Kinetics, and Bundle Size Distribution as Defining Factors. <i>Journal of Physical Chemistry C</i> , 2018, 122, 24386-24393.	3.1	19
23	Block Copolymers as Dispersants for Single-Walled Carbon Nanotubes: Modes of Surface Attachment and Role of Block Polydispersity. <i>Langmuir</i> , 2018, 34, 13672-13679.	3.5	23
24	Mechanical agitation induces counterintuitive aggregation of pre-dispersed carbon nanotubes. <i>Journal of Colloid and Interface Science</i> , 2017, 493, 398-404.	9.4	9
25	Critical Role of the Spacer Length of Gemini Surfactants on the Formation of Ionic Liquid Crystals and Thermotropic Behavior. <i>Journal of Physical Chemistry B</i> , 2017, 121, 10583-10592.	2.6	17
26	Impact of Surface Active Ionic Liquids on the Cloud Points of Nonionic Surfactants and the Formation of Aqueous Micellar Two-Phase Systems. <i>Journal of Physical Chemistry B</i> , 2017, 121, 8742-8755.	2.6	45
27	Interplay between bulk self-assembly, interfacial and foaming properties in a catanionic surfactant mixture of varying composition. <i>Soft Matter</i> , 2017, 13, 7197-7206.	2.7	26
28	Gene delivery mediated by gemini surfactants. , 2016, , 227-256.		1
29	Acylated-naproxen as the surface-active template in the preparation of micro- and nanospherical imprinted xerogels by emulsion techniques. <i>Journal of Chromatography A</i> , 2016, 1437, 107-115.	3.7	3
30	Enhancing glioblastoma cell sensitivity to chemotherapeutics: A strategy involving survivin gene silencing mediated by gemini surfactant-based complexes. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016, 104, 7-18.	4.3	16
31	Phase behavior, microstructure and cytotoxicity in mixtures of a charged triblock copolymer and an ionic surfactant. <i>European Polymer Journal</i> , 2016, 75, 461-473.	5.4	6
32	Supramolecular self-assembly between an amino acid-based surfactant and a sulfonatocalixarene driven by electrostatic interactions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 480, 71-78.	4.7	16
33	Gemini Surfactants Mediate Efficient Mitochondrial Gene Delivery and Expression. <i>Molecular Pharmaceutics</i> , 2015, 12, 716-730.	4.6	52
34	Size, Charge, and Stability of Fully Serine-Based Catanionic Vesicles: Towards Versatile Biocompatible Nanocarriers. <i>Chemistry - A European Journal</i> , 2015, 21, 4092-4101.	3.3	26
35	New serine-derived gemini surfactants as gene delivery systems. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 89, 347-356.	4.3	33
36	Novel serine-based gemini surfactants as chemical permeation enhancers of local anesthetics: A comprehensive study on structure-activity relationships, molecular dynamics and dermal delivery. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 93, 205-213.	4.3	17

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37	Dispersing Carbon Nanotubes with Ionic Surfactants under Controlled Conditions: Comparisons and Insight. <i>Langmuir</i> , 2015, 31, 10955-10965.	3.5	86
38	Surface Coverage and Competitive Adsorption on Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22190-22197.	3.1	19
39	Lysine-based surfactants as chemical permeation enhancers for dermal delivery of local anesthetics. <i>International Journal of Pharmaceutics</i> , 2014, 474, 212-222.	5.2	18
40	Serine-based gemini surfactants with different spacer linkages: from self-assembly to DNA compaction. <i>Soft Matter</i> , 2014, 10, 9352-9361.	2.7	31
41	Bis-quaternary gemini surfactants as components of nonviral gene delivery systems: A comprehensive study from physicochemical properties to membrane interactions. <i>International Journal of Pharmaceutics</i> , 2014, 474, 57-69.	5.2	34
42	Lateral Diffusion of Dispersing Molecules on Nanotubes As Probed by NMR. <i>Journal of Physical Chemistry C</i> , 2014, 118, 582-589.	3.1	20
43	Morphological and Nanomechanical Behavior of Supported Lipid Bilayers on Addition of Cationic Surfactants. <i>Langmuir</i> , 2013, 29, 9352-9361.	3.5	24
44	Surfactants, Phase Behavior. , 2013, , 1290-1333.		4
45	Morphology, Thermal Behavior, and Stability of Self-Assembled Supramolecular Tubules from Lysine-Based Surfactants. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9400-9411.	2.6	20
46	Structure Activity Relationships in Alkylammonium C12-Gemini Surfactants Used as Dermal Permeation Enhancers. <i>AAPS Journal</i> , 2013, 15, 1119-1127.	4.4	19
47	Synthesis of glycylglycine-imprinted silica microspheres through different water-in-oil emulsion techniques. <i>Journal of Chromatography A</i> , 2013, 1297, 138-145.	3.7	9
48	Chain length mismatch and packing effects on the thermotropic phase behavior of salt-free catanionic surfactants. <i>Journal of Colloid and Interface Science</i> , 2013, 405, 134-144.	9.4	17
49	Self-Aggregation Properties of Ionic Liquid 1,3-Didecyl-2-methylimidazolium Chloride in Aqueous Solution: From Spheres to Cylinders to Bilayers. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2926-2937.	2.6	46
50	Synthesis of Gemini Surfactants and Evaluation of Their Interfacial and Cytotoxic Properties: Exploring the Multifunctionality of Serine as Headgroup. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 1758-1769.	2.4	42
51	In vitro cytotoxicity of a thermoresponsive gel system combining ethyl(hydroxyethyl) cellulose and lysine-based surfactants. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 102, 682-686.	5.0	24
52	Surfactant Self-Assembly. , 2013, , 1202-1241.		9
53	Unusual Phase Behavior in a Two-Component System Catanionic Surfactant-Water: From Lamellar-Lamellar to Vesicle-Micelle Coexistence. <i>Statistical Science and Interdisciplinary Research</i> , 2012, , 69-84.	0.0	0
54	Interactions between ethyl(hydroxyethyl) cellulose and lysine-based surfactants in aqueous media. <i>European Polymer Journal</i> , 2012, 48, 1622-1631.	5.4	12

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55	Aggregation behavior of aqueous dioctadecyldimethylammonium bromide/monoolein mixtures: A multitechnique investigation on the influence of composition and temperature. <i>Journal of Colloid and Interface Science</i> , 2012, 374, 206-217.	9.4	29
56	Serine-Based Bisquat Gemini Surfactants: Synthesis and Micellization Properties. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 345-352.	2.4	32
57	Structure and order of DODAB bilayers modulated by dicationic gemini surfactants. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13772.	2.8	17
58	Fusion and fission of catanionic bilayers. <i>Soft Matter</i> , 2011, 7, 1686.	2.7	6
59	Aqueous phase behavior of salt-free catanionic surfactants: the influence of solubility mismatch on spontaneous curvature and balance of forces. <i>Soft Matter</i> , 2011, 7, 225-236.	2.7	38
60	Gemini surfactant dimethylene-1,2-bis(tetradecyldimethylammonium bromide)-based gene vectors: A biophysical approach to transfection efficiency. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 341-351.	2.6	42
61	Formation of solid organic nanoparticles from a volatile catanionic microemulsion. <i>Soft Matter</i> , 2011, 7, 9359.	2.7	12
62	Enhanced interfacial properties of novel amino acid-derived surfactants: Effects of headgroup chemistry and of alkyl chain length and unsaturation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 86, 65-70.	5.0	42
63	Dicationic Alkylammonium Bromide Gemini Surfactants. <i>Membrane Perturbation and Skin Irritation</i> . <i>PLoS ONE</i> , 2011, 6, e26965.	2.5	41
64	Mesophase formation and thermal behavior of catanionic mixtures of gemini surfactants with sodium alkylsulfates. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 100, 501-508.	3.6	10
65	Micellization behavior of a catanionic surfactant with high solubility mismatch: Composition, temperature, and salt effects. <i>Journal of Molecular Liquids</i> , 2010, 157, 113-118.	4.9	27
66	Headgroup Effects on the Unusual Lamellar-Lamellar Coexistence and Vesicle-to-Micelle Transition of Salt-Free Catanionic Amphiphiles. <i>Langmuir</i> , 2010, 26, 3058-3066.	3.5	39
67	Absence of Lateral Phase Segregation in Fatty Acid-Based Catanionic Mixtures. <i>Journal of Physical Chemistry B</i> , 2010, 114, 1932-1938.	2.6	26
68	The effect of cationic gemini surfactants upon lipid membranes. An experimental and molecular dynamics simulation study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14462.	2.8	41
69	Novel catanionic vesicles from calixarene and single-chain surfactant. <i>Chemical Communications</i> , 2010, 46, 6551.	4.1	71
70	Physicochemical and toxicological properties of novel amino acid-based amphiphiles and their spontaneously formed catanionic vesicles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 72, 80-87.	5.0	59
71	Towards novel efficient monomeric surfactants based on serine, tyrosine and 4-hydroxyproline: synthesis and micellization properties. <i>Tetrahedron</i> , 2009, 65, 4156-4164.	1.9	28
72	Polymer-vesicle association. <i>Advances in Colloid and Interface Science</i> , 2009, 147-148, 18-35.	14.7	106

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73	Size, Shape, and Charge of Salt-Free Catanionic Microemulsion Droplets: A Small-Angle Neutron Scattering and Modeling Study. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10230-10239.	2.6	21
74	Unravelling micellar structure and dynamics in an unusually extensive DDAB/bile salt catanionic solution by rheology and NMR-diffusometry. <i>Journal of Colloid and Interface Science</i> , 2008, 324, 192-198.	9.4	18
75	Monolayers of gemini surfactants and their catanionic mixtures with sodium dodecyl sulfate at the air/water interface: Chain length and composition effects. <i>Thin Solid Films</i> , 2008, 516, 7458-7466.	1.8	29
76	Non-ideal behavior of mixed micelles of cationic gemini surfactants with varying spacer length and anionic surfactants: A conductimetric study. <i>Journal of Molecular Liquids</i> , 2008, 142, 136-142.	4.9	47
77	Spontaneous Vesicle Formation in Catanionic Mixtures of Amino Acid-Based Surfactants: Chain Length Symmetry Effects. <i>Langmuir</i> , 2008, 24, 11009-11017.	3.5	58
78	Straightforward Method for the Preparation of Lysine-Based Double-Chained Anionic Surfactants. <i>Synthetic Communications</i> , 2008, 38, 2025-2036.	2.1	14
79	Structure/Property Relationships for the Thermotropic Behavior of Lysine-Based Amphiphiles: from Hexagonal to Smectic Phases. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14877-14887.	2.6	19
80	Unusual Vesicle/Micelle Transitions in a Salt-Free Catanionic Surfactant: Temperature and Concentration Effects. <i>Langmuir</i> , 2008, 24, 10746-10754.	3.5	73
81	Interactions between Gemini Surfactants and Polymers: Thermodynamic Studies. <i>Langmuir</i> , 2007, 23, 5963-5970.	3.5	30
82	Interplay of Electrostatic and Hydrophobic Effects with Binding of Cationic Gemini Surfactants and a Conjugated Polyanion: Experimental and Molecular Modeling Studies. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4401-4410.	2.6	68
83	Lamellar Miscibility Gap in a Binary Catanionic Surfactant/Water System. <i>Journal of Physical Chemistry B</i> , 2007, 111, 13520-13526.	2.6	27
84	Mechanisms behind the Faceting of Catanionic Vesicles by Polycations: Chain Crystallization and Segregation. <i>Journal of Physical Chemistry B</i> , 2007, 111, 116-123.	2.6	35
85	Thermotropic Phase Behavior of Cationic Gemini Surfactants and Their Equicharge Mixtures with Sodium Dodecyl Sulfate. <i>Journal of Physical Chemistry B</i> , 2006, 110, 1151-1157.	2.6	37
86	Self-Assembly in a Catanionic Mixture with an Aminoacid-Derived Surfactant: From Mixed Micelles to Spontaneous Vesicles. <i>Journal of Physical Chemistry B</i> , 2006, 110, 18158-18165.	2.6	60
87	Phase Behavior and Thermodynamics of a Mixture of Cationic Gemini and Anionic Surfactant. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5294-5300.	2.6	41
88	Thermotropic phase behavior of triple-chained catanionic surfactants with varying headgroup chemistry. <i>Journal of Colloid and Interface Science</i> , 2006, 294, 240-247.	9.4	36
89	Catanionic surfactant films at the air/water interface. <i>Thin Solid Films</i> , 2006, 515, 2031-2037.	1.8	18
90	Neat DODAB vesicles: Effect of sonication time on the phase transition thermodynamic parameters and its relation with incomplete chain freezing. <i>Chemistry and Physics of Lipids</i> , 2005, 137, 18-28.	3.2	50

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91	Phase equilibria of the mixed didodecyldimethylammonium bromide–sodium taurodeoxycholate–water system with a large solution region. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 269, 87-95.	4.7	8
92	Thermotropic behavior of asymmetric chain length catanionic surfactants: The influence of the polar head group. Journal of Colloid and Interface Science, 2005, 290, 267-274.	9.4	59
93	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
94	Bile salts form lyotropic liquid crystals. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 213, 79-92.	4.7	25
95	Self-organization of double-chained and pseudodouble-chained surfactants: counterion and geometry effects. Advances in Colloid and Interface Science, 2003, 100-102, 83-104.	14.7	148
96	A calorimetric study of the gel-to-liquid crystal transition in catanionic surfactant vesicles. Thermochimica Acta, 2002, 394, 31-37.	2.7	46
97	Effect of a bile salt on the aggregation behavior of a double-chained cationic surfactant - the cationic-rich dilute region of the didodecyldimethylammonium bromide-sodium taurodeoxycholate-water system. , 2002, , 83-91.		10
98	Liquid Crystals and Phase Equilibria Binary Bile Salt-Water Systems. Langmuir, 2000, 16, 5178-5186.	3.5	59
99	Micelles, Dispersions, and Liquid Crystals in the Catanionic Mixture Bile Salt–Double-Chained Surfactant. The Bile Salt-Rich Area. Langmuir, 2000, 16, 8255-8262.	3.5	38
100	Size and Stability of Catanionic Vesicles: Effects of Formation Path, Sonication, and Aging. Langmuir, 2000, 16, 4798-4807.	3.5	158
101	Synergism and polymorphism in mixed surfactant systems. Current Opinion in Colloid and Interface Science, 1999, 4, 402-410.	7.4	177
102	DNA conformational dynamics in the presence of catanionic mixtures. FEBS Letters, 1999, 453, 113-118.	2.8	79
103	Vesicle Formation and General Phase Behavior in the Catanionic Mixture SDS–DDAB–Water. The Cationic-Rich Side. Journal of Physical Chemistry B, 1999, 103, 8353-8363.	2.6	153
104	Interactions between Catanionic Vesicles and Oppositely Charged Polyelectrolytes Phase Behavior and Phase Structure. Macromolecules, 1999, 32, 6626-6637.	4.8	107
105	Polymer-Induced Structural Effects on Catanionic Vesicles: Formation of Faceted Vesicles, Disks, and Cross-links. Langmuir, 1999, 15, 642-645.	3.5	49
106	The structure and thermal behaviour of some long chain cerium(III) carboxylates. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 1729-1736.	1.7	85
107	Vesicle Formation and General Phase Behavior in the Catanionic Mixture SDS–DDAB–Water. The Anionic-Rich Side. Journal of Physical Chemistry B, 1998, 102, 6746-6758.	2.6	236
108	Catanionic surfactants. , 1997, , 37-80.		45

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109	Self-assembly in mixtures of a cationic and an anionic surfactant: the sodium dodecyl sulfate-didodecyldimethylammonium bromide-water system. The Journal of Physical Chemistry, 1993, 97, 4729-4736.	2.9	202
110	Phase behavior of polymer-surfactant systems in relation to polymer-polymer and surfactant-surfactant mixtures. Pure and Applied Chemistry, 1993, 65, 953-958.	1.9	35