Lourdes Perez

List of Publications by Year
in descending order

102 papers	4,789 citations	117625 34 h-index	102487 66 g-index
106 all docs	106 docs citations	106 times ranked	3952 citing authors

#	Article	IF	Citations
1	Antifungal activity of amino-alcohols based cationic surfactants and in silico, homology modeling, docking and molecular dynamics studies against lanosterol 14-Î±-demethylase enzyme. Journal of Biomolecular Structure and Dynamics, 2022, 40, 7762-7778.	3.5	8
2	Bioactive Functional Nanolayers of Chitosanâ€“Lysine Surfactant with Single- and Mixed-Protein-Repellent and Antibiofilm Properties for Medical Implants. ACS Applied Materials & Interfaces, 2021, 13, 23352-23368.	8.0	16
3	Green cationic arginine surfactants: Influence of the polar head cationic character on the self-aggregation and biological properties. Journal of Molecular Liquids, 2021, 339, 116819.	4.9	17
4	Arginine-phenylalanine and arginine-tryptophan-based surfactants as new biocompatible antifungal agents and their synergistic effect with Amphotericin B against fluconazole-resistant Candida strains. Colloids and Surfaces B: Biointerfaces, 2021, 207, 112017.	5.0	9
5	Biocompatible Catanionic Vesicles from Arginine-Based Surfactants: A New Strategy to Tune the Antimicrobial Activity and Cytotoxicity of Vesicular Systems. Pharmaceutics, 2020, 12, 857.	4.5	19
6	Biocompatible Nanovector of siRNA Consisting of Arginine-Based Cationic Lipid for Gene Knockdown in Cancer Cells. ACS Applied Materials & Interfaces, 2020, 12, 34536-34547.	8.0	13
7	Aggregation Behavior, Antibacterial Activity and Biocompatibility of Catanionic Assemblies Based on Amino Acid-Derived Surfactants. International Journal of Molecular Sciences, 2020, 21, 8912.	4.1	13
8	Protein Expression Knockdown in Cancer Cells Induced by a Gemini Cationic Lipid Nanovector with Histidine-Based Polar Heads. Pharmaceutics, 2020, 12, 791.	4.5	7
9	Antifungal and antiprotozoal green amino acid-based rhamnolipids: Mode of action, antibiofilm efficiency and selective activity against resistant Candida spp. strains and Acanthamoeba castellanii. Colloids and Surfaces B: Biointerfaces, 2020, 193, 111148.	5.0	8
10	Gemini histidine based surfactants: Characterization; surface properties and biological activity. Journal of Molecular Liquids, 2019, 289, 111156.	4.9	32
11	Rhamnolipids functionalized with basic amino acids: Synthesis, aggregation behavior, antibacterial activity and biodegradation studies. Colloids and Surfaces B: Biointerfaces, 2019, 181, 234-243.	5.0	22
12	Arginine-Based Surfactants: Synthesis, Aggregation Properties, and Applications. , 2019, , 413-445.		8
13	Synthesis, self-assembly, bacterial and fungal toxicity, and preliminary biodegradation studies of a series of<scp>l</scp>-phenylalanine-derived surface-active ionic liquids. Green Chemistry, 2019, 21, 1777-1794.	9.0	52
14	A Gemini Cationic Lipid with Histidine Residues as a Novel Lipid-Based Gene Nanocarrier: A Biophysical and Biochemical Study. Nanomaterials, 2018, 8, 1061.	4.1	15
15	Monocatenary histidine-based surfactants: Role of the alkyl chain length in antimicrobial activity and their selectivity over red blood cells. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 532, 501-509.	4.7	29
16	Protein-repellent and antimicrobial nanoparticle coatings from hyaluronic acid and a lysine-derived biocompatible surfactant. Journal of Materials Chemistry B, 2017, 5, 3888-3897.	5.8	32
17	Micellization and Antimicrobial Properties of Surface-Active Ionic Liquids Containing Cleavable Carbonate Linkages. Langmuir, 2017, 33, 6511-6520.	3.5	46
18	Selfâ€Aggregation and Emulsifying Properties of Methyl Ester Sulfonate Surfactants. Journal of Surfactants and Detergents, 2017, 20, 1453-1465.	2.1	11

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19	Green Catanionic Gemini Surfactantâ€“Lichenysin Mixture: Improved Surface, Antimicrobial, and Physiological Properties. ACS Applied Materials & Interfaces, 2017, 9, 22121-22131.	8.0	33
20	Pharmaceutical versatility of cationic niosomes derived from amino acid-based surfactants: Skin penetration behavior and controlled drug release. International Journal of Pharmaceutics, 2017, 529, 245-252.	5.2	55
21	Lichenysin-geminal amino acid-based surfactants: Synergistic action of an unconventional antimicrobial mixture. Colloids and Surfaces B: Biointerfaces, 2017, 149, 38-47.	5.0	14
22	New cationic vesicles prepared with double chain surfactants from arginine: Role of the hydrophobic group on the antimicrobial activity and cytotoxicity. Colloids and Surfaces B: Biointerfaces, 2016, 141, 19-27.	5.0	35
23	Amino acidâ€“based surfactants: New antimicrobial agents. Advances in Colloid and Interface Science, 2016, 228, 17-39.	14.7	162
24	Interaction of Sodium Hyaluronate with a Biocompatible Cationic Surfactant from Lysine: A Binding Study. Langmuir, 2015, 31, 12043-12053.	3.5	20
25	Catanionic vesicles and DNA complexes: a strategy towards novel gene delivery systems. RSC Advances, 2015, 5, 81168-81175.	3.6	8
26	Valorization of tannery wastes: Lipoamino acid surfactant mixtures from the protein fraction of process wastewater. Chemical Engineering Journal, 2015, 262, 399-408.	12.7	19
27	Interfacial Chiral Selection by Bulk Species. Chemistry - A European Journal, 2014, 20, 7396-7401.	3.3	2
28	Complex rhamnolipid mixture characterization and its influence on DPPC bilayer organization. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 776-783.	2.6	41
29	Gemini surfactants from natural amino acids. Advances in Colloid and Interface Science, 2014, 205, 134-155.	14.7	142
30	Characterization and stability of catanionic vesicles formed by pseudo-tetraalkyl surfactant mixtures. Soft Matter, 2014, 10, 9657-9667.	2.7	21
31	Self-assembly and antimicrobial activity of long-chain amide-functionalized ionic liquids in aqueous solution. Colloids and Surfaces B: Biointerfaces, 2014, 123, 318-325.	5.0	87
32	A novel synergistic formulation between a cationic surfactant from lysine and hyaluronic acid as an antimicrobial coating for advanced cellulose materials. Cellulose, 2014, 21, 2647-2663.	4.9	23
33	Cationic vesicles based on biocompatible diacyl glycerol-arginine surfactants: Physicochemical properties, antimicrobial activity, encapsulation efficiency and drug release. Colloids and Surfaces B: Biointerfaces, 2014, 120, 160-167.	5.0	40
34	Lysine-based surfactants in nanovesicle formulations: the role of cationic charge position and hydrophobicity inin vitrocytotoxicity and intracellular delivery. Nanotoxicology, 2014, 8, 404-421.	3.0	13
35	Synthesis and Physicoâ€Chemical Studies of Esterâ€Quat Surfactants in the Series of (Dodecanoyloxy)propyl <i>n</i>â€Alkyl Dimethyl Ammonium Bromide. Journal of Surfactants and Detergents, 2013, 16, 473-485.	2.1	16
36	Role of aggregate size in the hemolytic and antimicrobial activity of colloidal solutions based on single and gemini surfactants from arginine. Soft Matter, 2013, 9, 306-319.	2.7	86

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37	New cationic nanovesicular systems containing lysine-based surfactants for topical administration: Toxicity assessment using representative skin cell lines. European Journal of Pharmaceutics and Biopharmaceutics, 2013, 83, 33-43.	4.3	22
38	Aggregation Behavior and Antimicrobial Activity of Ester-Functionalized Imidazolium- and Pyridinium-Based Ionic Liquids in Aqueous Solution. Langmuir, 2013, 29, 2536-2545.	3.5	208
39	Mixed Monolayer of DPPC and Lysine-Based Cationic Surfactants: An Investigation into the Antimicrobial Activity. Langmuir, 2013, 29, 7912-7921.	3.5	27
40	InÂvitro antitumor activity of methotrexate via pH-sensitive chitosan nanoparticles. Biomaterials, 2013, 34, 2758-2772.	11.4	166
41	Thermoresponsive hydrogels with low toxicity from mixtures of ethyl(hydroxyethyl) cellulose and arginine-based surfactants. International Journal of Pharmaceutics, 2012, 436, 454-462.	5.2	26
42	Phospholipid Bilayer-Perturbing Properties Underlying Lysis Induced by pH-Sensitive Cationic Lysine-Based Surfactants in Biomembranes. Langmuir, 2012, 28, 11687-11698.	3.5	17
43	Membrane-destabilizing activity of pH-responsive cationic lysine-based surfactants: role of charge position and alkyl chain length. Amino Acids, 2012, 43, 1203-1215.	2.7	24
44	Self Assembly of pH-Sensitive Cationic Lysine Based Surfactants. Langmuir, 2012, 28, 16761-16771.	3.5	34
45	pH-Sensitive Surfactants from Lysine: Assessment of Their Cytotoxicity and Environmental Behavior. Langmuir, 2012, 28, 5900-5912.	3.5	89
46	Ribbon-type and cluster-type lipoplexes constituted by a chiral lysine based cationic gemini lipid and plasmid DNA. Soft Matter, 2012, 8, 7368.	2.7	34
47	Cationic Surfactants Derived from Lysine: Effects of Their Structure and Charge Type on Antimicrobial and Hemolytic Activities. Journal of Medicinal Chemistry, 2011, 54, 989-1002.	6.4	140
48	Amino Acids as Raw Material for Biocompatible Surfactants. Industrial & Engineering Chemistry Research, 2011, 50, 4805-4817.	3.7	135
49	Membrane perturbing properties of biocompatible cationic lysine-based surfactants. Toxicology Letters, 2011, 205, S169.	0.8	0
50	Diacyl glycerol arginine-based surfactants: biological and physicochemical properties of catanionic formulations. Amino Acids, 2011, 40, 721-729.	2.7	28
51	Arginine diacyl-glycerolipid conjugates as multifunctional biocompatible surfactants. Comptes Rendus Chimie, 2011, 14, 726-735.	0.5	10
52	Self-aggregation and antimicrobial activity of imidazolium and pyridinium based ionic liquids in aqueous solution. Journal of Colloid and Interface Science, 2011, 355, 164-171.	9.4	369
53	Inhibition of the corrosion of iron in acidic solution by the oligomeric surfactant N, N, Nâ€², Nâ€³, Nâ€³â€pentamethyl diethyleneamineâ€N, Nâ€³â€diâ€[tetradecylammonium bromide]. Anti-Corrosion Methods and Materials, 2011, 58, 258-266.	1.5	9
54	Dynamic Properties of Cationic Diacyl-Glycerol-Arginine-Based Surfactant/Phospholipid Mixtures at the Air/Water Interface. Langmuir, 2010, 26, 2559-2566.	3.5	9

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55	Study of the Interaction Between Methyl Orange and Mono and Bisâ€Quaternary Ammonium Surfactants. Journal of Surfactants and Detergents, 2010, 13, 225-231.	2.1	23
56	Preparation of a New Oligomeric Surfactant:<i>N</i>,<i>N</i>,<i>N</i>â€²,<i>N</i>â€³,<i>N</i>â€³â€Pentamethyl Diethyleneamineâ€"<i>N</i>,<i>N</i>â€³â€Diâ€[Tetradecylammonium Bromide] and the Study of its Thermodynamic Properties. Journal of Surfactants and Detergents, 2010, 13, 339-348.	2.1	2
57	Biocompatible surfactants from renewable hydrophiles. European Journal of Lipid Science and Technology, 2010, 112, 110-121.	1.5	52
58	Effects of commercial non-ionic alkyl oxyethylene and ionic biocompatible arginine-based surfactants on the photophysical behaviour of several poly(fluorene-1,4-phenylene)s. Journal of Molecular Liquids, 2010, 156, 18-27.	4.9	10
59	Surface tension and adsorption behavior of mixtures of diacyl glycerol arginine-based surfactants with DPPC and DMPC phospholipids. Colloids and Surfaces B: Biointerfaces, 2009, 74, 67-74.	5.0	10
60	Cationic surfactants from lysine: Synthesis, micellization and biological evaluation. European Journal of Medicinal Chemistry, 2009, 44, 1884-1892.	5.5	113
61	Catanionic Vesicles Formed with Arginine-Based Surfactants and 1,2-Dipalmitoyl-sn-glycero-3-phosphate Monosodium Salt. Journal of Physical Chemistry B, 2009, 113, 6321-6327.	2.6	30
62	Lysineâ^'Bisglycidol Conjugates as Novel Lysine Cationic Surfactants. Langmuir, 2009, 25, 7803-7814.	3.5	19
63	Aqueous self-assembly and physicochemical properties of 1,2-dilauroyl-rac-glycero-3-(NÎ±-acetyl-l-arginine). Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 327, 111-121.	4.7	2
64	Interaction studies of diacyl glycerol arginine-based surfactants with DPPC and DMPC monolayers, relation with antimicrobial activity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 319, 196-203.	4.7	28
65	Gemini Surfactant Binding onto Hydrophobically Modified Silica Nanoparticles. Journal of Physical Chemistry C, 2008, 112, 12142-12148.	3.1	6
66	Aggregation Properties of Diacyl Lysine Surfactant Compounds: Hydrophobic Chain Length and Counterion Effect. Journal of Physical Chemistry B, 2008, 112, 8578-8585.	2.6	18
67	Interactions between Gemini Surfactants and Polymers:Â Thermodynamic Studies. Langmuir, 2007, 23, 5963-5970.	3.5	30
68	Synthesis of 1,3-Bis-[(Dodecanoyl Oxypropyl Dimethylammonium) Propane] Dibromide Ester-Quat Surfactant: Micellar, Thermodynamic and Corrosion-Inhibiting Properties. Tenside, Surfactants, Detergents, 2007, 44, 160-167.	1.2	2
69	Investigation of the Micellization Process of Single and Gemini Surfactants from Arginine by SAXS, NMR Self-Diffusion, and Light Scattering. Journal of Physical Chemistry B, 2007, 111, 11379-11387.	2.6	52
70	Interaction between the Conjugated Polyelectrolyte Poly{1,4-phenylene[9,9-bis(4-phenoxybutylsulfonate)]fluorene-2,7-diyl} Copolymer and the Lecithin Mimic 1-O-(l-Arginyl)-2,3-O-dilauroyl-sn-glycerol in Aqueous Solution. Langmuir, 2006, 22, 10170-10174.	3.5	32
71	Langmuir monolayers of the zwitterionic surfactant hexadecyl 1-N-l-tryptophan glycerol ether. Journal of Colloid and Interface Science, 2005, 283, 144-152.	9.4	19
72	Self-aggregation in dimeric arginine-based cationic surfactants solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 255, 73-78.	4.7	23

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73	Biological properties of arginine-based glycerolipidic cationic surfactants. Green Chemistry, 2005, 7, 540.	9.0	39
74	Amino acid-based surfactants. Comptes Rendus Chimie, 2004, 7, 583-592.	0.5	138
75	The adsorption kinetics of 1-N-l-tryptophanâ€“glycerol-ether surfactants at the airâ€“liquid interface: effect of surfactant concentration and alkyl chain length. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 233, 137-144.	4.7	14
76	Enzymatic synthesis and physicochemical characterization of glycero arginine-based surfactants. Comptes Rendus Chimie, 2004, 7, 169-176.	0.5	15
77	A synthetic alternative to natural lecithins with antimicrobial properties. Colloids and Surfaces B: Biointerfaces, 2004, 35, 235-242.	5.0	28
78	Monoglyceride surfactants from arginine: synthesis and biological properties. New Journal of Chemistry, 2004, 28, 1326-1334.	2.8	30
79	Unconventional vesicle-to-ribbon transition behaviour of diacyl glycerol amino acid based surfactants in extremely diluted systems induced by pH-concentration effects. Physical Chemistry Chemical Physics, 2004, 6, 1475-1481.	2.8	42
80	â€œGreenâ€•amino acid-based surfactants. Green Chemistry, 2004, 6, 233-240.	9.0	227
81	Investigation of the Thermotropic Behavior of Isomer Mixtures of Diacyl Arginine-Based Surfactants. Comparison of Polarized Light Microscopy, DSC, and SAXS Observations. Journal of Physical Chemistry B, 2004, 108, 11080-11088.	2.6	12
82	Low potential ocular irritation of arginine-based gemini surfactants and their mixtures with nonionic and zwitterionic surfactants. Pharmaceutical Research, 2003, 20, 1697-1701.	3.5	34
83	Langmuir Monolayers of Diacyl Glycerol Amino Acid-Based Surfactants. Effect of the Substitution Pattern of the Glycerol Backbone. Langmuir, 2003, 19, 10878-10884.	3.5	13
84	Synthesis and biological properties of dicationic arginineâ€“diglycerides. New Journal of Chemistry, 2002, 26, 1221-1227.	2.8	45
85	Biological properties of arginineâ€based gemini cationic surfactants. Environmental Toxicology and Chemistry, 2002, 21, 1279-1285.	4.3	92
86	Sequestration of bacterial lipopolysaccharide by bis(Args) gemini compounds. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 357-360.	2.2	30
87	BIOLOGICAL PROPERTIES OF ARGININE-BASED GEMINI CATIONIC SURFACTANTS. Environmental Toxicology and Chemistry, 2002, 21, 1279.	4.3	2
88	Biological properties of arginine-based gemini cationic surfactants. Environmental Toxicology and Chemistry, 2002, 21, 1279-85.	4.3	9
89	Chemical Structure/Property Relationship in Single-Chain Arginine Surfactants. Langmuir, 2001, 17, 5071-5075.	3.5	95
90	Relation of foam stability to solution and surface properties of gemini cationic surfactants derived from arginine. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 189, 225-235.	4.7	59

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91	Corrosion inhibition of iron in 1 M HCl by some gemini surfactants in the series of alkanediyl-Î±,Ï‰-bis-(dimethyl tetradecyl ammonium bromide). Progress in Organic Coatings, 2001, 43, 267-273.	3.9	217
92	Synthesis, characterization and surface properties of 1-N-l-tryptophan-glycerol-ether surfactants. Journal of Surfactants and Detergents, 2000, 3, 517-525.	2.1	35
93	Aggregation Behavior in Water of Monomeric and Gemini Cationic Surfactants Derived from Arginine. Langmuir, 1999, 15, 3134-3142.	3.5	113
94	Surface Activity Properties at Equilibrium of Novel Gemini Cationic Amphiphilic Compounds from Arginine, Bis(Args). Langmuir, 1998, 14, 2307-2315.	3.5	116
95	Formation and stability of highly concentrated emulsions (gel emulsions): influence of aromatic aliphatic hydrocarbon interactions. Progress in Colloid and Polymer Science, 1997, 105, 244-251.	0.5	2
96	Synthesis, Aggregation, and Biological Properties of a New Class of Gemini Cationic Amphiphilic Compounds from Arginine, bis(Args). Langmuir, 1996, 12, 5296-5301.	3.5	159
97	Comparative study of conventional and compact detergents. JAOCS, Journal of the American Oil Chemists' Society, 1996, 73, 27-30.	1.9	1
98	The environmental impact of chromium salts: Ecotoxicity and inhibition of surfactant biodegradation. Toxicological and Environmental Chemistry, 1994, 44, 225-232.	1.2	6
99	Study of a Model for the Interaction Between Heavy Metals and Sediments of the Pisuerga River. International Journal of Environmental Analytical Chemistry, 1990, 41, 89-97.	3.3	0
100	Determination and speciation of heavy metals in sediments of the Pisuerga river. Water Research, 1990, 24, 373-379.	11.3	212
101	Glycerolipid arginine-based surfactants: synthesis and surface active properties. , 0, , 210-216.		1
102	Glycerolipid arginine-based surfactants: synthesis and surface active properties. , 0, , 210-216.		2