Joan Estelrich

List of Publications by Year
in descending order

111 papers	4,553 citations	101543 36 h-index	114465 63 g-index
112 all docs	112 docs citations	112 times ranked	7289 citing authors

#	Article	IF	Citations
1	Nanoparticles in magnetic resonance imaging: from simple to dual contrast agents. International Journal of Nanomedicine, 2015, 10, 1727.	6.7	378
2	Iron Oxide Nanoparticles for Magnetically-Guided and Magnetically-Responsive Drug Delivery. International Journal of Molecular Sciences, 2015, 16, 8070-8101.	4.1	367
3	Iron Oxide Nanoparticles in Photothermal Therapy. Molecules, 2018, 23, 1567.	3.8	222
4	Novel Donepezil-Based Inhibitors of Acetyl- and Butyrylcholinesterase and Acetylcholinesterase-Induced Î²-Amyloid Aggregation. Journal of Medicinal Chemistry, 2008, 51, 3588-3598.	6.4	186
5	Liposomes obtained by the ethanol injection method. International Journal of Pharmaceutics, 1993, 95, 51-56.	5.2	160
6	Influence of cholesterol on liposome fluidity by EPR. Journal of Controlled Release, 2000, 68, 85-95.	9.9	159
7	Evidence of the Existence of Micelles in the Fibrillogenesis of Î²-Amyloid Peptide. Journal of Physical Chemistry B, 2005, 109, 11027-11032.	2.6	125
8	Ferrofluid based on polyethylene glycol-coated iron oxide nanoparticles: Characterization and properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 420, 74-81.	4.7	98
9	An autocatalytic reaction as a model for the kinetics of the aggregation of Î²-amyloid. Biopolymers, 2003, 71, 190-195.	2.4	96
10	Soft nanoparticles (thermo-responsive nanogels and bicelles) with biotechnological applications: from synthesis to simulation through colloidal characterization. Soft Matter, 2011, 7, 5067.	2.7	93
11	Chitosan (or alginate)-coated iron oxide nanoparticles: A comparative study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 468, 151-158.	4.7	91
12	Physicochemical properties of enrofloxacin. Journal of Pharmaceutical and Biomedical Analysis, 1997, 15, 1845-1849.	2.8	86
13	Preparation and characterization of extruded magnetoliposomes. International Journal of Pharmaceutics, 2008, 347, 156-162.	5.2	85
14	A nanovector with complete discrimination for targeted delivery to Plasmodium falciparum-infected versus non-infected red blood cells in vitro. Journal of Controlled Release, 2011, 151, 202-211.	9.9	80
15	Prussian blue nanoparticles: synthesis, surface modification, and biomedical applications. Drug Discovery Today, 2020, 25, 1431-1443.	6.4	80
16	A Spectroscopy Study of the Interaction of Pinacyanol with n-dodecyltrimethylammonium Bromide Micelles. Langmuir, 2001, 17, 6433-6437.	3.5	71
17	Combined in Vitro Cell-Based/in Silico Screening of Naturally Occurring Flavonoids and Phenolic Compounds as Potential Anti-Alzheimer Drugs. Journal of Natural Products, 2017, 80, 278-289.	3.0	68
18	Magnetic Nanoparticles Cross the Blood-Brain Barrier: When Physics Rises to a Challenge. Nanomaterials, 2015, 5, 2231-2248.	4.1	67

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19	Stimulatory and Inhibitory Effects of Alkyl Bromide Surfactants on Î²-Amyloid Fibrillogenesis. Langmuir, 2005, 21, 6944-6949.	3.5	65
20	Physical stability of different liposome compositions obtained by extrusion method. Journal of Microencapsulation, 1995, 12, 525-535.	2.8	63
21	Bicelles: Lipid Nanostructured Platforms with Potential Dermal Applications. Small, 2012, 8, 807-818.	10.0	57
22	Determination of Micellar Microenvironment of Pinacyanol by Visible Spectroscopy. Journal of Physical Chemistry B, 2003, 107, 4137-4142.	2.6	56
23	Influence of Size on Electrokinetic Behavior of Phosphatidylserine and Phosphatidylethanolamine Lipid Vesicles. Journal of Colloid and Interface Science, 1998, 206, 512-517.	9.4	55
24	Temperature dependence of the nucleation constant rate in Î² amyloid fibrillogenesis. International Journal of Biological Macromolecules, 2005, 35, 9-13.	7.5	55
25	Potential applications of magnetic particles to detect and treat Alzheimer's disease. Nanoscale Research Letters, 2014, 9, 538.	5.7	53
26	Prussian Blue: A Nanozyme with Versatile Catalytic Properties. International Journal of Molecular Sciences, 2021, 22, 5993.	4.1	52
27	Physical stability of liposomes bearing hemostatic activity. Chemistry and Physics of Lipids, 2003, 125, 139-146.	3.2	47
28	Study of the efficacy of antimalarial drugs delivered inside targeted immunoliposomal nanovectors. Nanoscale Research Letters, 2011, 6, 620.	5.7	47
29	Liposomes Loaded with Hydrophobic Iron Oxide Nanoparticles: Suitable T2 Contrast Agents for MRI. International Journal of Molecular Sciences, 2016, 17, 1209.	4.1	47
30	Location of Pinacyanol in Micellar Solutions of N-Alkyl Trimethylammonium Bromide Surfactants. Journal of Colloid and Interface Science, 2001, 233, 205-210.	9.4	45
31	Photophysical Changes of Pyranine Induced by Surfactants: Evidence of Premicellar Aggregates. Journal of Physical Chemistry B, 2009, 113, 1972-1982.	2.6	45
32	Conformational Changes in Stratum Corneum Lipids by Effect of Bicellar Systems. Langmuir, 2009, 25, 10595-10603.	3.5	43
33	Penetration and Growth of DPPC/DHPC Bicelles Inside the Stratum Corneum of the Skin. Langmuir, 2008, 24, 5700-5706.	3.5	42
34	Tautomerism of Neutral and Protonated 6-Thioguanine in the Gas Phase and in Aqueous Solution. An ab Initio Study. Journal of Organic Chemistry, 1995, 60, 969-976.	3.2	41
35	The Effect of Liposomes on Skin Barrier Structure. Skin Pharmacology and Physiology, 1999, 12, 235-246.	2.5	41
36	Effect of the surface charge of artificial model membranes on the aggregation of amyloid Î²-peptide. Biochimie, 2012, 94, 1730-1738.	2.6	40

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37	IMPROVED THERMAL ABLATION EFFICACY USING MAGNETIC NANOPARTICLES: A STUDY IN TUMOR PHANTOMS. Progress in Electromagnetics Research, 2012, 128, 229-248.	4.4	38
38	Influence of the Fluidity of Liposome Compositions on Percutaneous Absorption. Drug Delivery, 2000, 7, 7-13.	5.7	37
39	Application of Bicellar Systems on Skin: Diffusion and Molecular Organization Effects. Langmuir, 2010, 26, 10578-10584.	3.5	34
40	Pinacyanol as effective probe of fibrillar Î²-amyloid peptide: Comparative study with Congo Red. Biopolymers, 2003, 72, 455-463.	2.4	31
41	Bilayer Distribution of Phosphatidylserine and Phosphatidylethanolamine in Lipid Vesicles. Bioconjugate Chemistry, 1997, 8, 941-945.	3.6	30
42	External magnetic field-induced selective biodistribution of magnetoliposomes in mice. Nanoscale Research Letters, 2012, 7, 452.	5.7	30
43	Magnetic Nanoemulsions: Comparison between Nanoemulsions Formed by Ultrasonication and by Spontaneous Emulsification. Nanomaterials, 2017, 7, 190.	4.1	30
44	Electrophoretic properties of dodecyltrimethylammonium bromide micelles in KBr solution. Electrophoresis, 2000, 21, 481-485.	2.4	29
45	Prussian Blue: A Safe Pigment with Zeolitic-Like Activity. International Journal of Molecular Sciences, 2021, 22, 780.	4.1	29
46	Magnetoliposomes prepared by reverse-phase followed by sequential extrusion: Characterization and possibilities in the treatment of inflammation. International Journal of Pharmaceutics, 2011, 405, 181-187.	5.2	26
47	Bicosomes: Bicelles in Dilute Systems. Biophysical Journal, 2010, 99, 480-488.	0.5	25
48	Formation and characterization of biobased magnetic nanoparticles double coated with dextran and chitosan by layer-by-layer deposition. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 450, 121-129.	4.7	25
49	Interaction of Î±-amylase with n-alkylammonium bromides. International Journal of Biological Macromolecules, 2001, 28, 151-156.	7.5	24
50	Oil-in-water nanoemulsions are suitable for carrying hydrophobic compounds: Indomethacin as a model of anti-inflammatory drug. International Journal of Pharmaceutics, 2016, 515, 749-756.	5.2	24
51	Fluorescence quenching of albumin. A spectrofluorimetric experiment. Biochemical Education, 1990, 18, 99-101.	0.1	23
52	Growth of lipid vesicle structures: From surface fractals to mass fractals. Physical Review E, 2008, 78, 010902.	2.1	23
53	Kinetic and Structural Aspects of the Adsorption of Sodium Dodecyl Sulfate on Phosphatidylcholine Liposomes. Langmuir, 2000, 16, 4068-4071.	3.5	22
54	Binding of non-steroidal anti-inflammatory drugs to human serum albumin. International Journal of Pharmaceutics, 1990, 62, 21-25.	5.2	21

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55	Chemical degradation of liposomes by serum components detected by NMR. Chemistry and Physics of Lipids, 2000, 104, 133-148.	3.2	21
56	Î²-Phase Formation of Poly(9,9-dioctylfluorene) Induced by Liposome Phospholipid Bilayers. Journal of Physical Chemistry B, 2011, 115, 5794-5800.	2.6	21
57	Atomic Force Microscopy of Liposomes Bearing Fibrinogen. Bioconjugate Chemistry, 2003, 14, 593-600.	3.6	20
58	Spontaneous incorporation of Î²-amyloid peptide into neutral liposomes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 270-271, 13-17.	4.7	20
59	Aggregation of liposomes induced by calcium: A structural and kinetic study. Physical Review E, 2007, 75, 021912.	2.1	20
60	Morphological effects of ceramide on DMPC/DHPC bicelles. Journal of Microscopy, 2008, 230, 16-26.	1.8	20
61	Encapsulation of thioguanine in liposomes. International Journal of Pharmaceutics, 1995, 124, 261-269.	5.2	19
62	Liquidlike structures in dilute suspensions of charged liposomes. Journal of Chemical Physics, 2003, 118, 5167-5173.	3.0	19
63	Determination of the dimerization constant of pinacyanol: Role of the thermochromic effect. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 70, 471-476.	3.9	19
64	USING NANOPARTICLES FOR ENHANCING THE FOCUSING HEATING EFFECT OF AN EXTERNAL WAVEGUIDE APPLICATOR FOR ONCOLOGY HYPERTHERMIA: EVALUATION IN MUSCLE AND TUMOR PHANTOMS. Progress in Electromagnetics Research, 2011, 121, 343-363.	4.4	19
65	Key Points Concerning Amyloid Infectivity and Prion-Like Neuronal Invasion. Frontiers in Molecular Neuroscience, 2016, 9, 29.	2.9	19
66	Evidence of Protein Adsorption in Pegylated Liposomes: Influence of Liposomal Decoration. Nanomaterials, 2017, 7, 37.	4.1	19
67	Electrophoretic Behavior of Stearylamine-Containing Liposomes. Langmuir, 1998, 14, 7522-7526.	3.5	18
68	Transbilayer Movement of Sodium Dodecyl Sulfate in Large Unilamellar Phospholid Vesicles. Langmuir, 1999, 15, 6609-6612.	3.5	18
69	Effect of salts on the excited state of pyranine as determined by steady-state fluorescence. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 198, 262-267.	3.9	18
70	Liposomes as an agrochemical tool: optimization of their production. Industrial Crops and Products, 1996, 5, 203-208.	5.2	17
71	Electrokinetic Study of the Sublytic Interaction of Alkyl Sulfates with Phosphatidylcholine Liposomes. Langmuir, 1999, 15, 2230-2233.	3.5	16
72	Interplay between hydrodynamic and direct interactions using liposomes. Journal of Chemical Physics, 2003, 119, 628-634.	3.0	16

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73	Surface fractals in liposome aggregation. Physical Review E, 2009, 79, 011905.	2.1	16
74	Determination of the encapsulation efficiency in liposomes obtained by the â€˜extruder methodâ€™. Journal of Microencapsulation, 1987, 4, 315-320.	2.8	14
75	Enrofloxacin Loaded Liposomes Obtained by High Speed Dispersion Method.. Chemical and Pharmaceutical Bulletin, 1995, 43, 983-987.	1.3	13
76	Review of drug stability in parenteral nutrition admixtures. E-SPEN Journal, 2013, 8, e135-e140.	0.5	12
77	Effect of PEGylation on Ligand-Targeted Magnetoliposomes: A Missed Goal. ACS Omega, 2017, 2, 6544-6555.	3.5	12
78	Influence of Dielectric Constant on the Spectral Behavior of Pinacyanol. A Spectrophotometric Experiment for Physical Chemistry. Journal of Chemical Education, 2001, 78, 243.	2.3	11
79	Influence of the temperature in the adsorption of sodium dodecyl sulfate on phosphatidylcholine liposomes. Chemistry and Physics of Lipids, 2003, 124, 15-22.	3.2	11
80	Use of highâ€pressure freeze fixation and freeze fracture electron microscopy to study the influence of the phospholipid molar ratio in the morphology and alignment of bicelles. Journal of Microscopy, 2009, 233, 35-41.	1.8	11
81	Dual Effect of Prussian Blue Nanoparticles on AÎ²40 Aggregation: Î²-Sheet Fibril Reduction and Copper Dyshomeostasis Regulation. Biomacromolecules, 2021, 22, 430-440.	5.4	11
82	The action of Triton X-100 and sodium dodecyl sulphate on lipid layers. Effect on monolayers and liposomes. Journal of Microencapsulation, 1990, 7, 255-259.	2.8	10
83	Interaction of doxorubicin with lipid systems. Bioconjugate Chemistry, 1991, 2, 398-402.	3.6	10
84	Design and applications of a new fluorimetric assay of thioguanine in liposomes. Journal of Pharmaceutical and Biomedical Analysis, 1994, 12, 1495-1499.	2.8	10
85	Factors influencing the encapsulation of thioguanine in DRV liposomes. International Journal of Pharmaceutics, 1996, 143, 171-177.	5.2	10
86	Determination of Polyethylene Glycol Activated with Cyanuric Chloride in Liposomes. Analytical Biochemistry, 1997, 253, 33-36.	2.4	10
87	Adsorption of Sodium Lauryl Ether Sulfate on Liposomes by Means of a Fluorescent Probe:â€‰ Effect of the Ethylene Oxide Groups. Langmuir, 2002, 18, 8250-8254.	3.5	10
88	Aggregation characteristics of ovalbumin in Î²-sheet conformation determined by spectroscopy. Biopolymers, 2002, 67, 113-120.	2.4	10
89	CouldÎ±-Synuclein Amyloid-Like Aggregates Trigger a Prionic Neuronal Invasion?. BioMed Research International, 2015, 2015, 1-7.	1.9	10
90	Facile Synthesis of Novel Prussian Blueâ€“Lipid Nanocomplexes. Molecules, 2019, 24, 4137.	3.8	10

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91	Serumâ€“liposome interaction is an oxygen-dependent process. Lipids and Lipid Metabolism, 1997, 1345, 43-55.	2.6	9
92	Disaggregating effects of ethanol at low concentration on Î²-poly-l-lysines. International Journal of Biological Macromolecules, 2003, 32, 10-16.	7.5	9
93	Reversible and irreversible aggregation of magnetic liposomes. Nanoscale, 2017, 9, 15131-15143.	5.6	9
94	Insertion of semifluorinated diblocks on DMPC and DPPC liposomes. Influence on the gel and liquid states of the bilayer. Journal of Colloid and Interface Science, 2010, 348, 388-392.	9.4	8
95	Predicting the aggregation propensity of prion sequences. Virus Research, 2015, 207, 127-135.	2.2	7
96	Superparamagnetic Nanoparticles with Efficient Near-Infrared Photothermal Effect at the Second Biological Window. Molecules, 2020, 25, 5315.	3.8	7
97	Flash tooth whitening: A friendly formulation based on a nanoencapsulated reductant. Colloids and Surfaces B: Biointerfaces, 2020, 195, 111241.	5.0	7
98	Bacterial Inclusion Bodies for Anti-Amyloid Drug Discovery: Current and Future Screening Methods. Current Protein and Peptide Science, 2019, 20, 563-576.	1.4	7
99	Possible hemostatic effect of synthetic liposomes in experimental studies under flow conditions. Haematologica, 2002, 87, 615-23.	3.5	7
100	Ampicillin polymers: identification by gel-filtration chromatography. International Journal of Pharmaceutics, 1988, 41, 241-244.	5.2	6
101	Enhanced reactivity of Lys182 explains the limited efficacy of biogenic amines in preventing the inactivation of glucose-6-phosphate dehydrogenase by methylglyoxal. Bioorganic and Medicinal Chemistry, 2011, 19, 1613-1622.	3.0	6
102	Amyloids in solid-state nuclear magnetic resonance: potential causes of the usually low resolution. International Journal of Nanomedicine, 2015, 10, 6975.	6.7	5
103	Nondiffusive Brownian motion of deformable particles: Breakdown of the â€œlong-time tailâ€• Physical Review E, 2009, 80, 021403.	2.1	4
104	Study on the Correlation between Lateral Diffusion Effect and Effective Charge in Neutral Liposomes. Langmuir, 2010, 26, 2665-2670.	3.5	4
105	Physicochemical Properties of a Human Glycoprotein Bearing Blood Group A Activity. Journal of Biochemistry, 1989, 106, 745-750.	1.7	3
106	Liposomes bearing fibrinogen could potentially interfere with platelet interaction and procoagulant activity. International Journal of Nanomedicine, 2012, 7, 2339.	6.7	2
107	Effect of the Phospholipid Chain Length and Head Group on Betaâ€Phase Formation of Poly(9,9â€dioctylfluorene) Enclosed in Liposomes. Photochemistry and Photobiology, 2013, 89, 1471-1478.	2.5	2
108	Interaction of non-steroidal anti-inflammatory agents on monolayers: an approach for understanding the entrappment of drugs in liposomes. Biochemical Society Transactions, 1989, 17, 996-997.	3.4	1

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109	Suspensions of repulsive colloidal particles near the glass transition: Time and frequency domain descriptions. Physical Review E, 2010, 82, 021406.	2.1	1
110	Measurement of a glycoprotein with blood group A activity by light scattering. Journal of Proteomics, 1987, 14, 119-126.	2.4	0
111	Liquid-glass transition in suspensions of charged liposomes. , 2009, , .		0