Gustavo GonzÃ¡lez-Gaitano

List of Publications by Year
in descending order

95 papers	2,829 citations	185998 28 h-index	205818 48 g-index
97 all docs	97 docs citations	97 times ranked	3325 citing authors

#	Article	IF	Citations
1	Solvent-Free Formation of Cyclodextrin-Based Pseudopolyrotaxanes of Polyethylene Glycol: Kinetic and Structural Aspects. International Journal of Molecular Sciences, 2022, 23, 685.	1.8	2
2	Preparation, Properties and Water Dissolution Behavior of Polyethylene Oxide Mats Prepared by Solution Blow Spinning. Polymers, 2022, 14, 1299.	2.0	13
3	Morphology, gelation and cytotoxicity evaluation of D-Î±-Tocopheryl polyethylene glycol succinate (TPGS) â€“ Tetronic mixed micelles. Journal of Colloid and Interface Science, 2021, 582, 353-363.	5.0	24
4	Poloxamine/D-Î±-Tocopheryl polyethylene glycol succinate (TPGS) mixed micelles and gels: Morphology, loading capacity and skin drug permeability. Journal of Molecular Liquids, 2021, 324, 114930.	2.3	5
5	Improving the miltefosine efficacy against leishmaniasis by using different nanoassemblies made from surfactants or amphiphilic antimony (V) complex. , 2021, , 253-290.		1
6	An antibiotic potentiator retains its activity after being immobilized on silicone and prevents growth of multidrug-resistant Pseudomonas aeruginosa biofilms. Materials Science and Engineering C, 2021, 121, 111876.	3.8	8
7	Activity of Anti-Microbial Peptides (AMPs) against Leishmania and Other Parasites: An Overview. Biomolecules, 2021, 11, 984.	1.8	16
8	New Formulation of a Methylseleno-Aspirin Analog with Anticancer Activity Towards Colon Cancer. International Journal of Molecular Sciences, 2020, 21, 9017.	1.8	5
9	Cyclodextrin-grafted nanoparticles as food preservative carriers. International Journal of Pharmaceutics, 2020, 588, 119664.	2.6	11
10	Understanding the pH-Directed Self-Assembly of a Four-Arm Block Copolymer. Macromolecules, 2020, 53, 11065-11076.	2.2	10
11	Structural characterization by scattering and spectroscopic methods and biological evaluation of polymeric micelles of poloxamines and TPGS as nanocarriers for miltefosine delivery. International Journal of Pharmaceutics, 2020, 578, 119057.	2.6	27
12	Antibiotic-in-Cyclodextrin-in-Liposomes: Formulation Development and Interactions with Model Bacterial Membranes. Molecular Pharmaceutics, 2020, 17, 2354-2369.	2.3	9
13	Threading Different Rings on X-Shaped Block Copolymers: Hybrid Pseudopolyrotaxanes of Cyclodextrins and Tetronics. Macromolecules, 2020, 53, 3166-3174.	2.2	2
14	Pseudo-Polyrotaxanes of Cyclodextrins with Direct and Reverse X-Shaped Block Copolymers: A Kinetic and Structural Study. Macromolecules, 2019, 52, 1458-1468.	2.2	19
15	Nanocomposites based on low density polyethylene filled with carbon nanotubes prepared by high energy ball milling and their potential antibacterial activity. Polymer International, 2019, 68, 1155-1163.	1.6	14
16	Micellar solubilisation of methylparaben in poloxamines: Effects on the aggregation behaviour and reactivity. Journal of Molecular Liquids, 2019, 282, 205-212.	2.3	4
17	PVDF/BaTiO₃/carbon nanotubes ternary nanocomposites prepared by ball milling: Piezo and dielectric responses. Journal of Applied Polymer Science, 2019, 136, 47788.	1.3	20
18	Nanomorphology and nanomechanical characteristics of solutionâ€blowâ€spun PVDFâ€based fibers filled with carbon nanotubes. Journal of Applied Polymer Science, 2019, 136, 47115.	1.3	3

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19	Phase behaviour, micellar structure and linear rheology of tetrablock copolymer Tetronic 908. Journal of Colloid and Interface Science, 2018, 524, 42-51.	5.0	29
20	Conformational changes on PMMA induced by the presence of TiO2 nanoparticles and the processingÂby Solution Blow Spinning. Colloid and Polymer Science, 2018, 296, 461-469.	1.0	10
21	Coencapsulation of cyclodextrins into poly(anhydride) nanoparticles to improve the oral administration of glibenclamide. A screening on C. elegans. Colloids and Surfaces B: Biointerfaces, 2018, 163, 64-72.	2.5	8
22	New methodology to assess the quantity and quality of humic substances in organic materials and commercial products for agriculture. Journal of Soils and Sediments, 2018, 18, 1389-1399.	1.5	34
23	Surface modification and characterization of basalt fibers as potential reinforcement of concretes. Applied Surface Science, 2018, 427, 1248-1256.	3.1	62
24	Preparation and Characterization of Antimicrobial Films Based on LDPE/Ag Nanoparticles with Potential Uses in Food and Health Industries. Nanomaterials, 2018, 8, 60.	1.9	33
25	Cyclodextrin-Grafted TiO2 Nanoparticles: Synthesis, Complexation Capacity, and Dispersion in Polymeric Matrices. Nanomaterials, 2018, 8, 642.	1.9	10
26	Supramolecular Hybrid Structures and Gels from Hostâ€“Guest Interactions between Î±-Cyclodextrin and PEGylated Organosilica Nanoparticles. Langmuir, 2018, 34, 10591-10602.	1.6	20
27	Activity enhancement of selective antitumoral selenodiazoles formulated with poloxamine micelles. Colloids and Surfaces B: Biointerfaces, 2018, 170, 463-469.	2.5	9
28	Structural and Spectroscopic Characterization of TPGS Micelles: Disruptive Role of Cyclodextrins and Kinetic Pathways. Langmuir, 2017, 33, 4737-4747.	1.6	31
29	Poly (ethylene-co-vinyl acetate) films prepared by solution blow spinning: Surface characterization and its relation with E.Âcoli adhesion. Polymer Testing, 2017, 60, 140-148.	2.3	24
30	PVDF/TiO2 nanocomposites prepared by solution blow spinning: Surface properties and their relation with S.ÂMutans adhesion. Polymer Testing, 2017, 58, 21-30.	2.3	36
31	Nanofibrous polysulfone/TiO₂ nanocomposites: Surface properties and their relation with E. coli adhesion. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 1575-1584.	2.4	20
32	Drug Carrier Systems Based on Cyclodextrin Supramolecular Assemblies and Polymers: Present and Perspectives. Current Pharmaceutical Design, 2017, 23, 411-432.	0.9	49
33	Competitive and Synergistic Interactions between Polymer Micelles, Drugs, and Cyclodextrins: The Importance of Drug Solubilization Locus. Langmuir, 2016, 32, 13174-13186.	1.6	46
34	Structure and Rheology of Poloxamine T1107 and Its Nanocomposite Hydrogels with Cyclodextrin-Modified Barium Titanate Nanoparticles. Langmuir, 2016, 32, 6398-6408.	1.6	30
35	Cyclodextrin-grafted barium titanate nanoparticles for improved dispersion and stabilization in water-based systems. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	7
36	Effect of kaolin nanofiller and processing conditions on the structure, morphology, and biofilm development of polylactic acid. Journal of Applied Polymer Science, 2015, 132, .	1.3	10

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37	Effect of a silica nanofiller on the structure, dynamics and thermostability of LDPE in LDPE/silica nanocomposites. RSC Advances, 2015, 5, 34979-34984.	1.7	10
38	Using Inclusion Complexes with Cyclodextrins To Explore the Aggregation Behavior of a Ruthenium Metallosurfactant. Langmuir, 2015, 31, 2677-2688.	1.6	19
39	Selective Tuning of the Self-Assembly and Gelation of a Hydrophilic Poloxamine by Cyclodextrins. Langmuir, 2015, 31, 5645-5655.	1.6	28
40	Modulating the Self-Assembly of Amphiphilic X-Shaped Block Copolymers with Cyclodextrins: Structure and Mechanisms. Langmuir, 2015, 31, 4096-4105.	1.6	25
41	Remarkable Viscoelasticity in Mixtures of Cyclodextrins and Nonionic Surfactants. Langmuir, 2014, 30, 11552-11562.	1.6	10
42	Structure and morphology of composites based on polyvinylidene fluoride filled with BaTiO₃submicrometer particles: Effect of processing and filler content. Polymer Composites, 2013, 34, 2094-2104.	2.3	19
43	Flexible PVDF-BaTiO₃Nanocomposites as Potential Materials for Pressure Sensors. Ferroelectrics, 2013, 447, 9-18.	0.3	20
44	Composites based on HDPE filled with BaTiO3 submicrometric particles. Morphology, structure and dielectric properties. Polymer Testing, 2013, 32, 1342-1349.	2.3	23
45	Definition of QC Parameters for the Practical Use of FTIR-ATR Spectroscopy in the Analysis of Surface Treatment of Cork Stoppers. Journal of Wood Chemistry and Technology, 2013, 33, 217-233.	0.9	4
46	Uniformly dispersed submicrometric BaTiO<inf>3</inf> particles in HDPE based composites morphology, structure and dielectric properties. , 2013, , .		3
47	Flexible PVDF-BaTiO<inf>3</inf> nanocomposites for pressure sensors. , 2012, , .		4
48	Composites based on EVA and barium titanate submicrometric particles: Preparation by highâ€energy ball milling and characterization. Polymer Composites, 2012, 33, 1549-1556.	2.3	19
49	Uniformly dispersed submicrometre BaTiO3 particles in PS based composites. Morphology, structure and dielectric properties. Polymer Testing, 2012, 31, 1121-1130.	2.3	20
50	Rhodamine solid complexes as fluorescence probes to monitor the dispersion of cyclodextrins in polymeric nanocomposites. Dyes and Pigments, 2012, 94, 427-436.	2.0	17
51	Effect of the presence of silica nanoparticles in the coefficient of thermal expansion of LDPE. European Polymer Journal, 2011, 47, 1495-1502.	2.6	34
52	Determination of the ionization constants of natural cyclodextrins by high-resolution 1H-NMR and photon correlation spectroscopy. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2011, 69, 361-367.	1.6	7
53	Chemiluminescence of phthalhydrazide derivatives in organized media: Interactions with surfactants and cyclodextrins. Journal of Luminescence, 2011, 131, 662-668.	1.5	6
54	Pyrolysisâ€“Gas Chromatography/Mass Spectrometry Identification of Distinctive Structures Providing Humic Character to Organic Materials. Journal of Environmental Quality, 2010, 39, 1486-1497.	1.0	16

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55	Natural Cyclodextrins as Efficient Boosters of the Chemiluminescence of Luminol and Isoluminol: Exploration of Potential Applications. Journal of Physical Chemistry B, 2010, 114, 2798-2806.	1.2	38
56	Enhancement of the Chemiluminescence of Two Isoluminol Derivatives by Nanoencapsulation with Natural Cyclodextrins. Journal of Physical Chemistry B, 2010, 114, 10541-10549.	1.2	14
57	Spectroscopic characterisation of the inclusion complexes between the antifungal drugs naftifine and terbinafine and cyclodextrins. Supramolecular Chemistry, 2009, 21, 759-769.	1.5	7
58	Sorption models in cyclodextrin polymers: Langmuir, Freundlich, and a dual-mode approach. Journal of Colloid and Interface Science, 2009, 337, 11-18.	5.0	117
59	Complementary Multianalytical Approach To Study the Distinctive Structural Features of the Main Humic Fractions in Solution: Gray Humic Acid, Brown Humic Acid, and Fulvic Acid. Journal of Agricultural and Food Chemistry, 2009, 57, 3266-3272.	2.4	81
60	Extraction of phenols from aqueous solutions by Î²-cyclodextrin polymers. Comparison of sorptive capacities with other sorbents. Reactive and Functional Polymers, 2008, 68, 406-413.	2.0	85
61	Interfacial Conformations and Molecular Structure of PMMA in PMMA/Silica Nanocomposites. Effect of High-Energy Ball Milling. Macromolecules, 2008, 41, 4777-4785.	2.2	54
62	Multivariate Statistical Analysis of Mass Spectra as a Tool for the Classification of the Main Humic Substances According to Their Structural and Conformational Features. Journal of Agricultural and Food Chemistry, 2008, 56, 5480-5487.	2.4	20
63	Pseudorotaxanes of Cyclodextrin and Diglycidyl Ether of Bisphenol A as Precursors of New Intramolecularly Reinforced Epoxy-based Thermosets. Supramolecular Chemistry, 2008, 20, 335-344.	1.5	2
64	The complementary use of 1H NMR, 13C NMR, FTIR and size exclusion chromatography to investigate the principal structural changes associated with composting of organic materials with diverse origin. Organic Geochemistry, 2007, 38, 2012-2023.	0.9	72
65	Study of the Interaction between a Nonyl Phenyl Ether and Î²-Cyclodextrin:Â Declouding Nonionic Surfactant Solutions by Complexation. Journal of Physical Chemistry B, 2007, 111, 1368-1376.	1.2	26
66	Simultaneous Presence of Diverse Molecular Patterns in Humic Substances in Solution. Journal of Physical Chemistry B, 2007, 111, 10577-10582.	1.2	60
67	Supramolecular association induced by Fe(III) in low molecular weight sodium polyacrylate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 292, 212-216.	2.3	46
68	Analysis of molecular aggregation in humic substances in solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 302, 301-306.	2.3	55
69	Isosteric heats of sorption of 1-naphthol and phenol from aqueous solutions by Î²-cyclodextrin polymers. Journal of Colloid and Interface Science, 2007, 307, 64-70.	5.0	59
70	Application of automated docking to the binding of naphthalenes to Î²CD in water: correlation with spectrofluorimetric data. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2007, 57, 265-270.	1.6	12
71	Effect of Î²-cyclodextrin on the aggregation of the non-ionic surfactant Igepal CO-630 in water as studied by 1D and 2D NMR spectroscopy. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2007, 57, 251-256.	1.6	5
72	Optimization of the entrapment of bacterial cell envelope extracts into microparticles for vaccine delivery. Journal of Microencapsulation, 2006, 23, 169-181.	1.2	10

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73	Inclusion Complexes between Î²-Cyclodextrin and a Gemini Surfactant in Aqueous Solution:Â An NMR Study. Journal of Physical Chemistry B, 2006, 110, 13819-13828.	1.2	69
74	The usefulness of UVâ€“visible and fluorescence spectroscopies to study the chemical nature of humic substances from soils and composts. Organic Geochemistry, 2006, 37, 1949-1959.	0.9	225
75	Thermal stability of solid dispersions of naphthalene derivatives with Î²-cyclodextrin and Î²-cyclodextrin polymers. Thermochimica Acta, 2006, 444, 57-64.	1.2	28
76	Spectral and photophysical properties of 2-dibenzofuranol and its inclusion complexes with cyclodextrins. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 173, 319-327.	2.0	20
77	Binding of dibenzofuran and its derivatives to water-soluble Î²-cyclodextrin polymers. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 173, 248-257.	2.0	23
78	Infrared Study of Solid Dispersions of Â-Cyclodextrin with Naphthalene Derivitaves. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2004, 49, 291-302.	1.6	7
79	Chemical Equilibrium in Supramolecular Systems as Studied by NMR Spectrometry. Journal of Chemical Education, 2004, 81, 270.	1.1	21
80	Site-Specific Interaction between 2-Dibenzofuran Carboxylate and Î²- and Î³-Cyclodextrins Determined by Intermolecular NOE and Molecular Modeling. Journal of Physical Chemistry B, 2004, 108, 14154-14162.	1.2	28
81	Effects of Natural Cyclodextrins on the Photophysical Properties of Dibenzofuran-2-carboxylic Acid. Journal of Physical Chemistry A, 2004, 108, 392-402.	1.1	28
82	FTIR study of dibenzofuran-2-carboxylic acid and its complexes with Î²-cyclodextrin. Vibrational Spectroscopy, 2003, 33, 205-213.	1.2	23
83	Bovine Serum Albumin Modified the Intracellular Distribution and Improved the Antiviral Activity of an Oligonucleotide. Journal of Drug Targeting, 2003, 11, 197-204.	2.1	7
84	HUMIFICATION DEGREE OF SOIL HUMIC ACIDS DETERMINED BY FLUORESCENCE SPECTROSCOPY. Soil Science, 2002, 167, 739-749.	0.9	171
85	Spectroscopic Characterization of the System Î²-Cyclodextrin + Propafenone Hydrochloride + Water. Journal of Physical Chemistry B, 2002, 106, 6096-6103.	1.2	7
86	Fluorescence Quenching Investigation of the Complexes of Dibenzofuran with Natural Cyclodextrins. Applied Spectroscopy, 2002, 56, 1490-1497.	1.2	21
87	The Aggregation of Cyclodextrins as Studied by Photon Correlation Spectroscopy. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2002, 44, 101-105.	1.6	197
88	Thermodynamic and Spectroscopic Study of a Molecular Rotaxane Containing a Bolaform Surfactant and Î²-Cyclodextrin. Langmuir, 2001, 17, 1392-1398.	1.6	41
89	Analysis of the Rotational Structure of CO2 by FTIR Spectroscopy. The Chemical Educator, 2001, 6, 362-364.	0.0	16
90	Inclusion complexes of nabumetone withÎ²-cyclodextrins: thermodynamics and molecular modelling studies. Influence of sodium perchlorate. Luminescence, 2001, 16, 117-127.	1.5	20

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91	Ultrasonic Study of the L Phase of the CTAB/Benzyl Alcohol/Water System. Journal of Colloid and Interface Science, 1999, 211, 104-109.	5.0	10
92	Molar Partial Compressibilities and Volumes,1H NMR, and Molecular Modeling Studies of the Ternary Systems Î²-Cyclodextrin + Sodium Octanoate/Sodium Decanoate + Water. Langmuir, 1999, 15, 7963-7972.	1.6	26
93	Speed of Sound, Density, and Molecular Modeling Studies on the Inclusion Complex between Sodium Cholate and Î²-Cyclodextrin. Langmuir, 1997, 13, 2235-2241.	1.6	55
94	Study at a Molecular Level of the Transfer Process of a Cationic Surfactant from Water to Î²-Cyclodextrin. Journal of Physical Chemistry B, 1997, 101, 4413-4421.	1.2	48
95	Accurate, sensitive, and fully automatic method to measure sound velocity and attenuation. Review of Scientific Instruments, 1994, 65, 2933-2938.	0.6	30