

Gustavo González-Gaitano

List of Publications by Year in descending order

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95
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2,829
citations

185998

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97
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97
docs citations

97
times ranked

3325
citing authors

#	ARTICLE	IF	CITATIONS
1	The usefulness of UV-Vis and fluorescence spectroscopies to study the chemical nature of humic substances from soils and composts. <i>Organic Geochemistry</i> , 2006, 37, 1949-1959.	0.9	225
2	The Aggregation of Cyclodextrins as Studied by Photon Correlation Spectroscopy. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2002, 44, 101-105.	1.6	197
3	HUMIFICATION DEGREE OF SOIL HUMIC ACIDS DETERMINED BY FLUORESCENCE SPECTROSCOPY. <i>Soil Science</i> , 2002, 167, 739-749.	0.9	171
4	Sorption models in cyclodextrin polymers: Langmuir, Freundlich, and a dual-mode approach. <i>Journal of Colloid and Interface Science</i> , 2009, 337, 11-18.	5.0	117
5	Extraction of phenols from aqueous solutions by β -cyclodextrin polymers. Comparison of sorptive capacities with other sorbents. <i>Reactive and Functional Polymers</i> , 2008, 68, 406-413.	2.0	85
6	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. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 3266-3272.	2.4	81
7	The complementary use of ^1H NMR, ^{13}C NMR, FTIR and size exclusion chromatography to investigate the principal structural changes associated with composting of organic materials with diverse origin. <i>Organic Geochemistry</i> , 2007, 38, 2012-2023.	0.9	72
8	Inclusion Complexes between β -Cyclodextrin and a Gemini Surfactant in Aqueous Solution: An NMR Study. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13819-13828.	1.2	69
9	Surface modification and characterization of basalt fibers as potential reinforcement of concretes. <i>Applied Surface Science</i> , 2018, 427, 1248-1256.	3.1	62
10	Simultaneous Presence of Diverse Molecular Patterns in Humic Substances in Solution. <i>Journal of Physical Chemistry B</i> , 2007, 111, 10577-10582.	1.2	60
11	Isosteric heats of sorption of 1-naphthol and phenol from aqueous solutions by β -cyclodextrin polymers. <i>Journal of Colloid and Interface Science</i> , 2007, 307, 64-70.	5.0	59
12	Speed of Sound, Density, and Molecular Modeling Studies on the Inclusion Complex between Sodium Cholate and β -Cyclodextrin. <i>Langmuir</i> , 1997, 13, 2235-2241.	1.6	55
13	Analysis of molecular aggregation in humic substances in solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 302, 301-306.	2.3	55
14	Interfacial Conformations and Molecular Structure of PMMA in PMMA/Silica Nanocomposites. Effect of High-Energy Ball Milling. <i>Macromolecules</i> , 2008, 41, 4777-4785.	2.2	54
15	Drug Carrier Systems Based on Cyclodextrin Supramolecular Assemblies and Polymers: Present and Perspectives. <i>Current Pharmaceutical Design</i> , 2017, 23, 411-432.	0.9	49
16	Study at a Molecular Level of the Transfer Process of a Cationic Surfactant from Water to β -Cyclodextrin. <i>Journal of Physical Chemistry B</i> , 1997, 101, 4413-4421.	1.2	48
17	Supramolecular association induced by Fe(III) in low molecular weight sodium polyacrylate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 292, 212-216.	2.3	46
18	Competitive and Synergistic Interactions between Polymer Micelles, Drugs, and Cyclodextrins: The Importance of Drug Solubilization Locus. <i>Langmuir</i> , 2016, 32, 13174-13186.	1.6	46

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19	Thermodynamic and Spectroscopic Study of a Molecular Rotaxane Containing a Bolaform Surfactant and β -Cyclodextrin. <i>Langmuir</i> , 2001, 17, 1392-1398.	1.6	41
20	Natural Cyclodextrins as Efficient Boosters of the Chemiluminescence of Luminol and Isoluminol: Exploration of Potential Applications. <i>Journal of Physical Chemistry B</i> , 2010, 114, 2798-2806.	1.2	38
21	PVDF/TiO ₂ nanocomposites prepared by solution blow spinning: Surface properties and their relation with S. <i>Mutans</i> adhesion. <i>Polymer Testing</i> , 2017, 58, 21-30.	2.3	36
22	Effect of the presence of silica nanoparticles in the coefficient of thermal expansion of LDPE. <i>European Polymer Journal</i> , 2011, 47, 1495-1502.	2.6	34
23	New methodology to assess the quantity and quality of humic substances in organic materials and commercial products for agriculture. <i>Journal of Soils and Sediments</i> , 2018, 18, 1389-1399.	1.5	34
24	Preparation and Characterization of Antimicrobial Films Based on LDPE/Ag Nanoparticles with Potential Uses in Food and Health Industries. <i>Nanomaterials</i> , 2018, 8, 60.	1.9	33
25	Structural and Spectroscopic Characterization of TPGS Micelles: Disruptive Role of Cyclodextrins and Kinetic Pathways. <i>Langmuir</i> , 2017, 33, 4737-4747.	1.6	31
26	Accurate, sensitive, and fully automatic method to measure sound velocity and attenuation. <i>Review of Scientific Instruments</i> , 1994, 65, 2933-2938.	0.6	30
27	Structure and Rheology of Poloxamine T1107 and Its Nanocomposite Hydrogels with Cyclodextrin-Modified Barium Titanate Nanoparticles. <i>Langmuir</i> , 2016, 32, 6398-6408.	1.6	30
28	Phase behaviour, micellar structure and linear rheology of tetrablock copolymer Tetronic 908. <i>Journal of Colloid and Interface Science</i> , 2018, 524, 42-51.	5.0	29
29	Site-Specific Interaction between 2-Dibenzofuran Carboxylate and β - and γ -Cyclodextrins Determined by Intermolecular NOE and Molecular Modeling. <i>Journal of Physical Chemistry B</i> , 2004, 108, 14154-14162.	1.2	28
30	Effects of Natural Cyclodextrins on the Photophysical Properties of Dibenzofuran-2-carboxylic Acid. <i>Journal of Physical Chemistry A</i> , 2004, 108, 392-402.	1.1	28
31	Thermal stability of solid dispersions of naphthalene derivatives with β -cyclodextrin and β -cyclodextrin polymers. <i>Thermochimica Acta</i> , 2006, 444, 57-64.	1.2	28
32	Selective Tuning of the Self-Assembly and Gelation of a Hydrophilic Poloxamine by Cyclodextrins. <i>Langmuir</i> , 2015, 31, 5645-5655.	1.6	28
33	Structural characterization by scattering and spectroscopic methods and biological evaluation of polymeric micelles of poloxamines and TPGS as nanocarriers for miltefosine delivery. <i>International Journal of Pharmaceutics</i> , 2020, 578, 119057.	2.6	27
34	Molar Partial Compressibilities and Volumes, ¹ H NMR, and Molecular Modeling Studies of the Ternary Systems β -Cyclodextrin + Sodium Octanoate/Sodium Decanoate + Water. <i>Langmuir</i> , 1999, 15, 7963-7972.	1.6	26
35	Study of the Interaction between a Nonyl Phenyl Ether and β -Cyclodextrin: β Decloaking Nonionic Surfactant Solutions by Complexation. <i>Journal of Physical Chemistry B</i> , 2007, 111, 1368-1376.	1.2	26
36	Modulating the Self-Assembly of Amphiphilic X-Shaped Block Copolymers with Cyclodextrins: Structure and Mechanisms. <i>Langmuir</i> , 2015, 31, 4096-4105.	1.6	25

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37	Poly (ethylene-co-vinyl acetate) films prepared by solution blow spinning: Surface characterization and its relation with E. Coli adhesion. <i>Polymer Testing</i> , 2017, 60, 140-148.	2.3	24
38	Morphology, gelation and cytotoxicity evaluation of D- α -Tocopheryl polyethylene glycol succinate (TPGS) α -Tetronic mixed micelles. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 353-363.	5.0	24
39	FTIR study of dibenzofuran-2-carboxylic acid and its complexes with β -cyclodextrin. <i>Vibrational Spectroscopy</i> , 2003, 33, 205-213.	1.2	23
40	Binding of dibenzofuran and its derivatives to water-soluble β -cyclodextrin polymers. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 173, 248-257.	2.0	23
41	Composites based on HDPE filled with BaTiO ₃ submicrometric particles. Morphology, structure and dielectric properties. <i>Polymer Testing</i> , 2013, 32, 1342-1349.	2.3	23
42	Fluorescence Quenching Investigation of the Complexes of Dibenzofuran with Natural Cyclodextrins. <i>Applied Spectroscopy</i> , 2002, 56, 1490-1497.	1.2	21
43	Chemical Equilibrium in Supramolecular Systems as Studied by NMR Spectrometry. <i>Journal of Chemical Education</i> , 2004, 81, 270.	1.1	21
44	Inclusion complexes of nabumetone with β -cyclodextrins: thermodynamics and molecular modelling studies. Influence of sodium perchlorate. <i>Luminescence</i> , 2001, 16, 117-127.	1.5	20
45	Spectral and photophysical properties of 2-dibenzofuranol and its inclusion complexes with cyclodextrins. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 173, 319-327.	2.0	20
46	Multivariate Statistical Analysis of Mass Spectra as a Tool for the Classification of the Main Humic Substances According to Their Structural and Conformational Features. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 5480-5487.	2.4	20
47	Uniformly dispersed submicrometre BaTiO ₃ particles in PS based composites. Morphology, structure and dielectric properties. <i>Polymer Testing</i> , 2012, 31, 1121-1130.	2.3	20
48	Flexible PVDF-BaTiO ₃ Nanocomposites as Potential Materials for Pressure Sensors. <i>Ferroelectrics</i> , 2013, 447, 9-18.	0.3	20
49	Nanofibrous polysulfone/TiO ₂ nanocomposites: Surface properties and their relation with E. coli adhesion. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 1575-1584.	2.4	20
50	Supramolecular Hybrid Structures and Gels from Host-Guest Interactions between β -Cyclodextrin and PEGylated Organosilica Nanoparticles. <i>Langmuir</i> , 2018, 34, 10591-10602.	1.6	20
51	PVDF/BaTiO ₃ /carbon nanotubes ternary nanocomposites prepared by ball milling: Piezo and dielectric responses. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47788.	1.3	20
52	Composites based on EVA and barium titanate submicrometric particles: Preparation by high-energy ball milling and characterization. <i>Polymer Composites</i> , 2012, 33, 1549-1556.	2.3	19
53	Structure and morphology of composites based on polyvinylidene fluoride filled with BaTiO ₃ submicrometer particles: Effect of processing and filler content. <i>Polymer Composites</i> , 2013, 34, 2094-2104.	2.3	19
54	Using Inclusion Complexes with Cyclodextrins To Explore the Aggregation Behavior of a Ruthenium Metallosurfactant. <i>Langmuir</i> , 2015, 31, 2677-2688.	1.6	19

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55	Pseudo-Polyrotaxanes of Cyclodextrins with Direct and Reverse X-Shaped Block Copolymers: A Kinetic and Structural Study. <i>Macromolecules</i> , 2019, 52, 1458-1468.	2.2	19
56	Rhodamine solid complexes as fluorescence probes to monitor the dispersion of cyclodextrins in polymeric nanocomposites. <i>Dyes and Pigments</i> , 2012, 94, 427-436.	2.0	17
57	Analysis of the Rotational Structure of CO ₂ by FTIR Spectroscopy. <i>The Chemical Educator</i> , 2001, 6, 362-364.	0.0	16
58	Pyrolysis-Gas Chromatography/Mass Spectrometry Identification of Distinctive Structures Providing Humic Character to Organic Materials. <i>Journal of Environmental Quality</i> , 2010, 39, 1486-1497.	1.0	16
59	Activity of Anti-Microbial Peptides (AMPs) against Leishmania and Other Parasites: An Overview. <i>Biomolecules</i> , 2021, 11, 984.	1.8	16
60	Enhancement of the Chemiluminescence of Two Isoluminol Derivatives by Nanoencapsulation with Natural Cyclodextrins. <i>Journal of Physical Chemistry B</i> , 2010, 114, 10541-10549.	1.2	14
61	Nanocomposites based on low density polyethylene filled with carbon nanotubes prepared by high energy ball milling and their potential antibacterial activity. <i>Polymer International</i> , 2019, 68, 1155-1163.	1.6	14
62	Preparation, Properties and Water Dissolution Behavior of Polyethylene Oxide Mats Prepared by Solution Blow Spinning. <i>Polymers</i> , 2022, 14, 1299.	2.0	13
63	Application of automated docking to the binding of naphthalenes to ¹² CD in water: correlation with spectrofluorimetric data. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2007, 57, 265-270.	1.6	12
64	Cyclodextrin-grafted nanoparticles as food preservative carriers. <i>International Journal of Pharmaceutics</i> , 2020, 588, 119664.	2.6	11
65	Ultrasonic Study of the L Phase of the CTAB/Benzyl Alcohol/Water System. <i>Journal of Colloid and Interface Science</i> , 1999, 211, 104-109.	5.0	10
66	Optimization of the entrapment of bacterial cell envelope extracts into microparticles for vaccine delivery. <i>Journal of Microencapsulation</i> , 2006, 23, 169-181.	1.2	10
67	Remarkable Viscoelasticity in Mixtures of Cyclodextrins and Nonionic Surfactants. <i>Langmuir</i> , 2014, 30, 11552-11562.	1.6	10
68	Effect of kaolin nanofiller and processing conditions on the structure, morphology, and biofilm development of polylactic acid. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	10
69	Effect of a silica nanofiller on the structure, dynamics and thermostability of LDPE in LDPE/silica nanocomposites. <i>RSC Advances</i> , 2015, 5, 34979-34984.	1.7	10
70	Conformational changes on PMMA induced by the presence of TiO ₂ nanoparticles and the processing by Solution Blow Spinning. <i>Colloid and Polymer Science</i> , 2018, 296, 461-469.	1.0	10
71	Cyclodextrin-Grafted TiO ₂ Nanoparticles: Synthesis, Complexation Capacity, and Dispersion in Polymeric Matrices. <i>Nanomaterials</i> , 2018, 8, 642.	1.9	10
72	Understanding the pH-Directed Self-Assembly of a Four-Arm Block Copolymer. <i>Macromolecules</i> , 2020, 53, 11065-11076.	2.2	10

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73	Activity enhancement of selective antitumoral selenodiazoles formulated with poloxamine micelles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 170, 463-469.	2.5	9
74	Antibiotic-in-Cyclodextrin-in-Liposomes: Formulation Development and Interactions with Model Bacterial Membranes. <i>Molecular Pharmaceutics</i> , 2020, 17, 2354-2369.	2.3	9
75	Coencapsulation of cyclodextrins into poly(anhydride) nanoparticles to improve the oral administration of glibenclamide. A screening on <i>C. elegans</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 163, 64-72.	2.5	8
76	An antibiotic potentiator retains its activity after being immobilized on silicone and prevents growth of multidrug-resistant <i>Pseudomonas aeruginosa</i> biofilms. <i>Materials Science and Engineering C</i> , 2021, 121, 111876.	3.8	8
77	Spectroscopic Characterization of the System β -Cyclodextrin + Propafenone Hydrochloride + Water. <i>Journal of Physical Chemistry B</i> , 2002, 106, 6096-6103.	1.2	7
78	Infrared Study of Solid Dispersions of α -Cyclodextrin with Naphthalene Derivatives. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2004, 49, 291-302.	1.6	7
79	Spectroscopic characterisation of the inclusion complexes between the antifungal drugs naftifine and terbinafine and cyclodextrins. <i>Supramolecular Chemistry</i> , 2009, 21, 759-769.	1.5	7
80	Determination of the ionization constants of natural cyclodextrins by high-resolution $^1\text{H-NMR}$ and photon correlation spectroscopy. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2011, 69, 361-367.	1.6	7
81	Cyclodextrin-grafted barium titanate nanoparticles for improved dispersion and stabilization in water-based systems. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	7
82	Bovine Serum Albumin Modified the Intracellular Distribution and Improved the Antiviral Activity of an Oligonucleotide. <i>Journal of Drug Targeting</i> , 2003, 11, 197-204.	2.1	7
83	Chemiluminescence of phthalhydrazide derivatives in organized media: Interactions with surfactants and cyclodextrins. <i>Journal of Luminescence</i> , 2011, 131, 662-668.	1.5	6
84	Effect of β -cyclodextrin on the aggregation of the non-ionic surfactant Igepal CO-630 in water as studied by 1D and 2D NMR spectroscopy. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2007, 57, 251-256.	1.6	5
85	New Formulation of a Methylseleno-Aspirin Analog with Anticancer Activity Towards Colon Cancer. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9017.	1.8	5
86	Poloxamine/D- α -Tocopheryl polyethylene glycol succinate (TPGS) mixed micelles and gels: Morphology, loading capacity and skin drug permeability. <i>Journal of Molecular Liquids</i> , 2021, 324, 114930.	2.3	5
87	Flexible PVDF-BaTiO ₃ nanocomposites for pressure sensors. , 2012, , .		4
88	Definition of QC Parameters for the Practical Use of FTIR-ATR Spectroscopy in the Analysis of Surface Treatment of Cork Stoppers. <i>Journal of Wood Chemistry and Technology</i> , 2013, 33, 217-233.	0.9	4
89	Micellar solubilisation of methylparaben in poloxamines: Effects on the aggregation behaviour and reactivity. <i>Journal of Molecular Liquids</i> , 2019, 282, 205-212.	2.3	4
90	Uniformly dispersed submicrometric BaTiO ₃ particles in HDPE based composites morphology, structure and dielectric properties. , 2013, , .		3

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91	Nanomorphology and nanomechanical characteristics of solution-blown spun PVDF-based fibers filled with carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47115.	1.3	3
92	Pseudorotaxanes of Cyclodextrin and Diglycidyl Ether of Bisphenol A as Precursors of New Intramolecularly Reinforced Epoxy-based Thermosets. <i>Supramolecular Chemistry</i> , 2008, 20, 335-344.	1.5	2
93	Threading Different Rings on X-Shaped Block Copolymers: Hybrid Pseudopolyrotaxanes of Cyclodextrins and Tetronics. <i>Macromolecules</i> , 2020, 53, 3166-3174.	2.2	2
94	Solvent-Free Formation of Cyclodextrin-Based Pseudopolyrotaxanes of Polyethylene Glycol: Kinetic and Structural Aspects. <i>International Journal of Molecular Sciences</i> , 2022, 23, 685.	1.8	2
95	Improving the miltefosine efficacy against leishmaniasis by using different nanoassemblies made from surfactants or amphiphilic antimony (V) complex. , 2021, , 253-290.		1