

Ignacio Moreno-Villoslada

List of Publications by Year in descending order

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265206
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83
all docs

83
docs citations

83
times ranked

1876
citing authors

#	ARTICLE	IF	CITATIONS
1	Water-soluble polymer-metal ion interactions. Progress in Polymer Science, 2003, 28, 173-208.	24.7	416
2	pH Dependence of the Interaction between Rhodamine B and the Water-Soluble Poly(sodium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	2.6	85
3	Nanoparticles for the Treatment of Wounds. Current Pharmaceutical Design, 2015, 21, 4329-4341.	1.9	67
4	Binding of Methylene Blue to Polyelectrolytes Containing Sulfonate Groups. Macromolecular Chemistry and Physics, 2009, 210, 1167-1175.	2.2	60
5	Influence of the Linear Aromatic Density on Methylene Blue Aggregation around Polyanions Containing Sulfonate Groups. Journal of Physical Chemistry B, 2010, 114, 4151-4158.	2.6	58
6	Competition of Divalent Metal Ions with Monovalent Metal Ions on the Adsorption on Water-Soluble Polymers. Journal of Physical Chemistry B, 2002, 106, 9708-9711.	2.6	50
7	π-Stacking of rhodamine B onto water-soluble polymers containing aromatic groups. Polymer, 2006, 47, 6496-6500.	3.8	48
8	Chelation properties of polymer complexes of poly(acrylic acid) with poly(acrylamide), and poly(acrylic acid) with poly(N,N-dimethylacrylamide). Macromolecular Chemistry and Physics, 1998, 199, 1153-1160.	2.2	46
9	Comparative Study of the Self-Aggregation of Rhodamine 6G in the Presence of Poly(sodium) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 702	2.6	45
10	Poly(styrene-co-maleic acid), and Poly(sodium acrylate). Journal of Physical Chemistry B, 2010, 114, 11983-11992.	2.6	45
10	Tuning the pKa of the antihistaminic drug chlorpheniramine maleate by supramolecular interactions with water-soluble polymers. Polymer, 2007, 48, 799-804.	3.8	42
11	Complex Formation between Rhodamine B and Poly(sodium 4-styrenesulfonate) Studied by ¹ H-NMR. Journal of Physical Chemistry B, 2006, 110, 21576-21581.	2.6	40
12	Self-Healing Polymer Nanocomposite Materials by Joule Effect. Polymers, 2021, 13, 649.	4.5	38
13	Effect of the Polymer Concentration on the Interactions of Water-Soluble Polymers with Metal Ions. Chemistry Letters, 2000, 29, 166-167.	1.3	37
14	Interactions of polyelectrolytes bearing carboxylate and/or sulfonate groups with Cu(II) and Ni(II). Polymer, 2004, 45, 1771-1775.	3.8	37
15	Prediction of the retention values associated to the ultrafiltration of mixtures of metal ions and high molecular weight water-soluble polymers as a function of the initial ionic strength. Journal of Membrane Science, 2000, 178, 165-170.	8.2	36
16	Controlling the aggregation of 5,10,15,20-tetrakis-(4-sulfonatophenyl)-porphyrin by the use of polycations derived from polyketones bearing charged aromatic groups. Dyes and Pigments, 2013, 98, 51-63.	3.7	36
17	Aromatic-Aromatic Interaction between 2,3,5-Triphenyl-2H-tetrazolium Chloride and Poly(sodium) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 702	2.6	34
18	Aerogels made of chitosan and chondroitin sulfate at high degree of neutralization: Biological properties toward wound healing. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 2464-2471.	3.4	34

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19	Electrically Self-Healing Thermoset MWCNTs Composites Based on Diels-Alder and Hydrogen Bonds. <i>Polymers</i> , 2019, 11, 1885.	4.5	32
20	Diels-Alder-based thermo-reversibly crosslinked polymers: Interplay of crosslinking density, network mobility, kinetics and stereoisomerism. <i>European Polymer Journal</i> , 2020, 135, 109882.	5.4	32
21	Control of C.I. Basic Violet 10 aggregation in aqueous solution by the use of poly(sodium) Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 30	3.7	30
22	Protection of astaxanthin from photodegradation by its inclusion in hierarchically assembled nano and microstructures with potential as food. <i>Food Hydrocolloids</i> , 2018, 83, 36-44.	10.7	30
23	Simultaneous interactions between a low molecular-weight species and two high molecular-weight species studied by diafiltration. <i>Journal of Membrane Science</i> , 2006, 272, 137-142.	8.2	26
24	Immobilization of Hydrophilic Low Molecular-Weight Molecules in Nanoparticles of Chitosan/Poly(sodium 4-styrenesulfonate) Assisted by Aromatic Aromatic Interactions. <i>Journal of Physical Chemistry B</i> , 2014, 118, 9782-9791.	2.6	25
25	USE OF ULTRAFILTRATION ON THE EVALUATION AND QUANTIFICATION OF THE INTERACTIONS BETWEEN POLYMERS AND LOW MOLECULAR-WEIGHT MOLECULES IN AQUEOUS SOLUTIONS. <i>Journal of the Chilean Chemical Society</i> , 2004, 49, .	1.2	25
26	Metal ion enrichment of a water-soluble chelating polymer studied by ultrafiltration. <i>Journal of Membrane Science</i> , 2002, 208, 69-73.	8.2	24
27	Confinement of 5,10,15,20-tetrakis-(4-sulfonatophenyl)-porphyrin in novel poly(vinylpyrrolidone)s modified with aromatic amines. <i>Dyes and Pigments</i> , 2013, 99, 759-770.	3.7	23
28	Comparison between the binding of chlorpheniramine maleate to poly(sodium 4-styrenesulfonate) and the binding to other polyelectrolytes. <i>Polymer</i> , 2005, 46, 7240-7245.	3.8	22
29	Stacking of 2,3,5-Triphenyl-2-tetrazolium Chloride onto Polyelectrolytes Containing 4-Styrenesulfonate Groups. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11244-11249.	2.6	22
30	Use of Ultrafiltration on the Analysis of Low Molecular Weight Complexing Molecules. Analysis of Iminodiacetic Acid at Constant Ionic Strength. <i>Analytical Chemistry</i> , 2001, 73, 5468-5471.	6.5	21
31	Interactions of 2,3,5-triphenyl-2-tetrazolium chloride with poly(sodium 4-styrenesulfonate) studied by diafiltration and UV-vis spectroscopy. <i>Journal of Membrane Science</i> , 2004, 244, 205-213.	8.2	21
32	Reduction of 2,3,5-Triphenyl-2-tetrazolium Chloride in the Presence of Polyelectrolytes Containing 4-Styrenesulfonate Moieties. <i>Journal of Physical Chemistry B</i> , 2008, 112, 5350-5354.	2.6	21
33	Polyelectrolyte behavior of three copolymers of 2-acrylamido-2-methyl-propanesulfonic acid and N-acryloyl-N-methylpiperazine studied by ultrafiltration. <i>Journal of Membrane Science</i> , 2001, 187, 271-275.	8.2	20
34	Photodynamic action of methylene blue subjected to aromatic-aromatic interactions with poly(sodium 4-styrenesulfonate) in solution and supported in solid, highly porous alginate sponges. <i>Dyes and Pigments</i> , 2017, 147, 455-464.	3.7	20
35	Comment on π - and H-Aggregates of 5,10,15,20-Tetrakis-(4-sulfonatophenyl)-porphyrin and Interconversion in PEG-b-P4VP Micelles. <i>Biomacromolecules</i> , 2009, 10, 3341-3342.	5.4	19
36	Electrically-Responsive Reversible Polyketone/MWCNT Network through Diels-Alder Chemistry. <i>Polymers</i> , 2018, 10, 1076.	4.5	19

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37	Maleimide Self-Reaction in Furan/Maleimide-Based Reversibly Crosslinked Polyketones: Processing Limitation or Potential Advantage?. <i>Molecules</i> , 2021, 26, 2230.	3.8	19
38	Electroactive Self-Healing Shape Memory Polymer Composites Based on Diels-Alder Chemistry. <i>ACS Applied Polymer Materials</i> , 2021, 3, 6147-6156.	4.4	19
39	Analysis of the retention profiles of poly (acrylic acid) with Co(II) and Ni(II). <i>Polymer Bulletin</i> , 1997, 39, 653-660.	3.3	16
40	Association Efficiency of Three Ionic Forms of Oxytetracycline to Cationic and Anionic Oil-In-Water Nanoemulsions Analyzed by Diafiltration. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 1141-1152.	3.3	16
41	A New Methodology to Create Polymeric Nanocarriers Containing Hydrophilic Low Molecular-Weight Drugs: A Green Strategy Providing a Very High Drug Loading. <i>Molecular Pharmaceutics</i> , 2019, 16, 2892-2901.	4.6	16
42	Immobilization of rhodamine 6G in calcium alginate microcapsules based on aromatic-aromatic interactions with poly(sodium 4-styrenesulfonate). <i>Reactive and Functional Polymers</i> , 2014, 81, 14-21.	4.1	15
43	Self-association of 5,10,15,20-tetrakis-(4-sulfonatophenyl)-porphyrin tuned by poly(decylviologen) and sulfobutylether- β -cyclodextrin. <i>Dyes and Pigments</i> , 2015, 112, 262-273.	3.7	15
44	Photochromic Solid Materials Based on Poly(decylviologen) Complexed with Alginate and Poly(sodium 4-styrenesulfonate). <i>Journal of Physical Chemistry B</i> , 2015, 119, 13208-13217.	2.6	14
45	Aerogels containing 5,10,15,20-tetrakis-(4-sulfonatophenyl)-porphyrin with controlled state of aggregation. <i>Dyes and Pigments</i> , 2017, 139, 193-200.	3.7	14
46	Ionic Nanocomplexes of Hyaluronic Acid and Polyarginine to Form Solid Materials: A Green Methodology to Obtain Sponges with Biomedical Potential. <i>Nanomaterials</i> , 2019, 9, 944.	4.1	14
47	Fibrous Materials Made of Poly(μ -caprolactone)/Poly(ethylene oxide)-b-Poly(μ -caprolactone) Blends Support Neural Stem Cells Differentiation. <i>Polymers</i> , 2019, 11, 1621.	4.5	14
48	Analysis of the interactions of biologically active poly(methacrylic-aminosalicylic acid) supports with Ca ²⁺ and Zn ²⁺ by ultrafiltration. <i>Journal of Membrane Science</i> , 2001, 192, 187-191.	8.2	13
49	Relevance of charge balance and hyaluronic acid on alginate-chitosan sponge microstructure and its influence on fibroblast growth. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2537-2543.	4.0	13
50	Binding of chlorpheniramine maleate to pharmacologically important alginic acid, carboxymethylcellulose, κ -carrageenan, and λ -carrageenan as studied by diafiltration. <i>Journal of Applied Polymer Science</i> , 2005, 98, 598-602.	2.6	12
51	Polyaromatic-Anion Behavior of Different Polyelectrolytes Containing Benzenecarboxylate Units. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7753-7759.	2.6	12
52	Totally Organic Redox-Active pH-Sensitive Nanoparticles Stabilized by Amphiphilic Aromatic Polyketones. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1747-1755.	2.6	12
53	Antibacterial activity against <i>Staphylococcus aureus</i> of chitosan/chondroitin sulfate nanocomplex aerogels alone and enriched with erythromycin and elephant garlic (<i>Allium</i>) Tj ETQq1 1 0.784314 10.8 BT / Overlock 10 11	10.8	11
54	Complexation Behavior of Cu ²⁺ in the Presence of Iminodiacetic Acid and Poly(ethyleneimine). <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 1541-1548.	2.2	11

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55	n-Hexanol association in cyclohexane studied by NMR and NIR spectroscopies. Journal of Molecular Liquids, 2014, 199, 301-308.	4.9	11
56	A Simple Mathematical Model for Wound Closure Evaluation. The Journal of the American College of Clinical Wound Specialists, 2015, 7, 40-49.	0.1	11
57	Novel polyketones with pendant imidazolium groups as nanodispersants of hydrophobic antibiotics. Journal of Applied Polymer Science, 2015, 132, .	2.6	11
58	Water-Induced Phase Transition in Cyclohexane/n-Hexanol/Triton X-100 Mixtures at a Molar Composition of 1/16/74 Studied by NMR. Journal of Physical Chemistry B, 2017, 121, 876-882.	2.6	11
59	A mechanistic approach for the optimization of loperamide loaded nanocarriers characterization: Diafiltration and mathematical modeling advantages. European Journal of Pharmaceutical Sciences, 2018, 125, 215-222.	4.0	11
60	Synthesis of tuneable amphiphilic-modified polyketone polymers, their complexes with 5,10,15,20-tetrakis-(4-sulfonatophenyl)porphyrin, and their role in the photooxidation of 1,3,5-triphenylformazan confined in polymeric nanoparticles. Polymer, 2019, 167, 215-223.	3.8	11
61	Combining Materials Obtained by 3D-Printing and Electrospinning from Commercial Polylactide Filament to Produce Biocompatible Composites. Polymers, 2021, 13, 3806.	4.5	11
62	Therapeutic Potential of a Low-Cost Device for Wound Healing. American Journal of Therapeutics, 2013, 20, 394-398.	0.9	10
63	Synthesis and behaviour of two copolymers of poly[acrylamide-co -(N-(hydroxymethyl)acrylamide)] in ultrafiltration experiments. Polymer Bulletin, 2000, 44, 159-165.	3.3	9
64	Facile Formation of Redox-Active Totally Organic Nanoparticles in Water by In Situ Reduction of Organic Precursors Stabilized through Aromatic-Aromatic Interactions by Aromatic Polyelectrolytes. Macromolecular Rapid Communications, 2016, 37, 1729-1734.	3.9	9
65	Correlation between ¹ H NMR chemical shifts of hydroxyl protons in n-hexanol/cyclohexane and molecular association properties investigated using density functional theory. Chemical Physics Letters, 2016, 644, 276-279.	2.6	9
66	Different Models on Binding of Aromatic Counterions to Polyelectrolytes. Molecular Crystals and Liquid Crystals, 2010, 522, 136/[436]-147/[447].	0.9	8
67	Chitosan/chondroitin sulfate aerogels with high polymeric electroneutralization degree: formation and mechanical properties. Pure and Applied Chemistry, 2018, 90, 901-911.	1.9	8
68	Sensing Cu ²⁺ by controlling the aggregation properties of the fluorescent dye rhodamine 6G with the aid of polyelectrolytes bearing different linear aromatic density. Reactive and Functional Polymers, 2013, 73, 1455-1463.	4.1	7
69	New insights into the nature of the Cibacron brilliant red 3B-A - Chitosan interaction. Pure and Applied Chemistry, 2016, 88, 891-904.	1.9	7
70	ERROR SIMULATION IN THE DETERMINATION OF THE FORMATION CONSTANTS OF POLYMER-METAL COMPLEXES (PMC) BY THE LIQUID-PHASE POLYMER-BASED RETENTION (LPR) TECHNIQUE. Journal of the Chilean Chemical Society, 2004, 49, .	1.2	6
71	Interactions of Water-Soluble Poly(sodium 4-styrenesulfonate) with Iminodiacetic Acid and Cu ²⁺ . Macromolecular Rapid Communications, 2001, 22, 1191.	3.9	5
72	Studies on the equilibrium among poly(sodium 4-styrenesulfonate), Cu ²⁺ , and iminodiacetic acid by ultrafiltration at constant ionic strength. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 2587-2593.	2.1	5

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73	Aggregation Number in Water/n-Hexanol Molecular Clusters Formed in Cyclohexane at Different Water/n-Hexanol/Cyclohexane Compositions Calculated by Titration 1H NMR. Journal of Physical Chemistry B, 2017, 121, 10285-10291.	2.6	5
74	A simple and green methodology to assemble poly(4-vinylpyridine) and a sulfonated azo-dye for obtaining stable polymeric nanoparticles. Polymer, 2018, 158, 289-296.	3.8	5
75	The key role of the drug self-aggregation ability to obtain optimal nanocarriers based on aromatic-aromatic drug-polymer interactions. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 166, 19-29.	4.3	5
76	Stability of Water/Poly(ethylene oxide)43-b-poly(ϵ -caprolactone)14/Cyclohexanone Emulsions Involves Water Exchange between the Core and the Bulk. Journal of Physical Chemistry B, 2015, 119, 15929-15937.	2.6	4
77	Dispersion of the Photosensitizer 5,10,15,20-Tetrakis(4-Sulfonatophenyl)-porphyrin by the Amphiphilic Polymer Poly(vinylpyrrolidone) in Highly Porous Solid Materials Designed for Photodynamic Therapy. Journal of Physical Chemistry B, 2017, 121, 7373-7381.	2.6	4
78	pH-Responsive Polyketone/5,10,15,20-Tetrakis-(Sulfonatophenyl)Porphyrin Supramolecular Submicron Colloidal Structures. Polymers, 2020, 12, 2017.	4.5	3
79	Mechanical properties and electrical surface charges of microfibrillated cellulose/imidazole-modified polyketone composite membranes. Polymer Testing, 2020, 89, 106710.	4.8	3
80	Porous polyelectrolyte materials with controlled luminescence properties based on aromatic-aromatic interactions with rhodamine B. Polymers for Advanced Technologies, 2021, 32, 2781.	3.2	2
81	On the comparison between diafiltration and isothermal titration calorimetry: Determination of the amount of analytes bound to water-soluble polymers. Polymer Testing, 2019, 76, 443-447.	4.8	1
82	The effect of chitosan-modified gold nanoparticles in Lemna valdiviana and Daphnia pulex. Gold Bulletin, 2022, 55, 77.	2.4	1
83	Concentration Dependent Single Chain Properties of Poly(sodium 4-styrenesulfonate) Subjected to Aromatic Interactions with Chlorpheniramine Maleate Studied by Diafiltration and Synchrotron-SAXS. Polymers, 2021, 13, 3563.	4.5	0