Ignacio Moreno-Villoslada

List of Publications by Year
in descending order

83 papers	2,091 citations	236612 25 h-index	264894 42 g-index
83 all docs	83 docs citations	83 times ranked	1876 citing authors

#	Article	IF	Citations
1	Water-soluble polymerâ€“metal ion interactions. Progress in Polymer Science, 2003, 28, 173-208.	11.8	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	1.2	85
3	Nanoparticles for the Treatment of Wounds. Current Pharmaceutical Design, 2015, 21, 4329-4341.	0.9	67
4	Binding of Methylene Blue to Polyelectrolytes Containing Sulfonate Groups. Macromolecular Chemistry and Physics, 2009, 210, 1167-1175.	1.1	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.	1.2	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.	1.2	50
7	Ï€-Stacking of rhodamine B onto water-soluble polymers containing aromatic groups. Polymer, 2006, 47, 6496-6500.	1.8	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.	1.1	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 Poly(styrene-<i>alt</i>-maleic acid), and Poly(sodium acrylate). Journal of Physical Chemistry B, 2010, 114, 11983-11992.	1.2	45
10	Tuning the pKa of the antihistaminic drug chlorpheniramine maleate by supramolecular interactions with water-soluble polymers. Polymer, 2007, 48, 799-804.	1.8	42
11	Complex Formation between Rhodamine B and Poly(sodium 4-styrenesulfonate) Studied by1H-NMR. Journal of Physical Chemistry B, 2006, 110, 21576-21581.	1.2	40
12	Self-Healing Polymer Nanocomposite Materials by Joule Effect. Polymers, 2021, 13, 649.	2.0	38
13	Effect of the Polymer Concentration on the Interactions of Water-Soluble Polymers with Metal Ions. Chemistry Letters, 2000, 29, 166-167.	0.7	37
14	Interactions of polyelectrolytes bearing carboxylate and/or sulfonate groups with Cu(II) and Ni(II). Polymer, 2004, 45, 1771-1775.	1.8	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.	4.1	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.	2.0	36
17	Aromaticâ˜'Aromatic Interaction between 2,3,5-Triphenyl-2H-tetrazolium Chloride and Poly(sodium) Tj ETQq1 1 0.784314 rgBT /Overlock	1.2	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.	1.6	34

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19	Electrically Self-Healing Thermoset MWCNTs Composites Based on Diels-Alder and Hydrogen Bonds. Polymers, 2019, 11, 1885.	2.0	32
20	Diels-Alder-based thermo-reversibly crosslinked polymers: Interplay of crosslinking density, network mobility, kinetics and stereoisomerism. European Polymer Journal, 2020, 135, 109882.	2.6	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 50	2.0	30
22	Protection of astaxanthin from photodegradation by its inclusion in hierarchically assembled nano and microstructures with potential as food. Food Hydrocolloids, 2018, 83, 36-44.	5.6	30
23	Simultaneous interactions between a low molecular-weight species and two high molecular-weight species studied by diafiltration. Journal of Membrane Science, 2006, 272, 137-142.	4.1	26
24	Immobilization of Hydrophilic Low Molecular-Weight Molecules in Nanoparticles of Chitosan/Poly(sodium 4-styrenesulfonate) Assisted by Aromaticâ€"Aromatic Interactions. Journal of Physical Chemistry B, 2014, 118, 9782-9791.	1.2	25
25	USE OF ULTRAFILTRATION ON THE EVALUATION AND QUANTIFICATION OF THE INTERACTIONS BETWEEN POLYMERS AND LOW MOLECULAR-WEIGHT MOLECULES IN AQUEOUS SOLUTIONS. Journal of the Chilean Chemical Society, 2004, 49, .	0.5	25
26	Metal ion enrichment of a water-soluble chelating polymer studied by ultrafiltration. Journal of Membrane Science, 2002, 208, 69-73.	4.1	24
27	Confinement of 5,10,15,20-tetrakis-(4-sulfonatophenyl)-porphyrin in novel poly(vinylpyrrolidone)s modified with aromatic amines. Dyes and Pigments, 2013, 99, 759-770.	2.0	23
28	Comparison between the binding of chlorpheniramine maleate to poly(sodium 4-styrenesulfonate) and the binding to other polyelectrolytes. Polymer, 2005, 46, 7240-7245.	1.8	22
29	Stacking of 2,3,5-Triphenyl-2<i>H</i>-tetrazolium Chloride onto Polyelectrolytes Containing 4-Styrenesulfonate Groups. Journal of Physical Chemistry B, 2008, 112, 11244-11249.	1.2	22
30	Use of Ultrafiltration on the Analysis of Low Molecular Weight Complexing Molecules. Analysis of Iminodiacetic Acid at Constant Ionic Strength. Analytical Chemistry, 2001, 73, 5468-5471.	3.2	21
31	Interactions of 2,3,5-triphenyl-2-tetrazolium chloride with poly(sodium 4-styrenesulfonate) studied by diafiltration and UV?vis spectroscopy. Journal of Membrane Science, 2004, 244, 205-213.	4.1	21
32	Reduction of 2,3,5-Triphenyl-2<i>H</i>-tetrazolium Chloride in the Presence of Polyelectrolytes Containing 4-Styrenesulfonate Moieties. Journal of Physical Chemistry B, 2008, 112, 5350-5354.	1.2	21
33	Polyelectrolyte behavior of three copolymers of 2-acrylamido-2-methyl-propanesulfonic acid and N-acryloyl-Nâ€²-methylpiperazine studied by ultrafiltration. Journal of Membrane Science, 2001, 187, 271-275.	4.1	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. Dyes and Pigments, 2017, 147, 455-464.	2.0	20
35	Comment on â€œJ- and H-Aggregates of 5,10,15,20-Tetrakis-(4â^'sulfonatophenyl)-porphyrin and Interconversion in PEG-<i>b</i>-P4VP Micellesâ€• Biomacromolecules, 2009, 10, 3341-3342.	2.6	19
36	Electrically-Responsive Reversible Polyketone/MWCNT Network through Diels-Alder Chemistry. Polymers, 2018, 10, 1076.	2.0	19

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37	Maleimide Self-Reaction in Furan/Maleimide-Based Reversibly Crosslinked Polyketones: Processing Limitation or Potential Advantage?. Molecules, 2021, 26, 2230.	1.7	19
38	Electroactive Self-Healing Shape Memory Polymer Composites Based on Dielsâ€“Alder Chemistry. ACS Applied Polymer Materials, 2021, 3, 6147-6156.	2.0	19
39	Analysis of the retention profiles of poly (acrylic acid) with Co(II) and Ni(II). Polymer Bulletin, 1997, 39, 653-660.	1.7	16
40	Association Efficiency of Three Ionic Forms of Oxytetracycline to Cationic and Anionic Oil-In-Water Nanoemulsions Analyzed by Diafiltration. Journal of Pharmaceutical Sciences, 2015, 104, 1141-1152.	1.6	16
41	A New Methodology to Create Polymeric Nanocarriers Containing Hydrophilic Low Molecular-Weight Drugs: A Green Strategy Providing a Very High Drug Loading. Molecular Pharmaceutics, 2019, 16, 2892-2901.	2.3	16
42	Immobilization of rhodamine 6G in calcium alginate microcapsules based on aromaticâ€“aromatic interactions with poly(sodium 4-styrenesulfonate). Reactive and Functional Polymers, 2014, 81, 14-21.	2.0	15
43	Self-association of 5,10,15,20-tetrakis-(4-sulfonatophenyl)-porphyrin tuned by poly(decylviologen) and sulfobutylether-Î²-cyclodextrin. Dyes and Pigments, 2015, 112, 262-273.	2.0	15
44	Photochromic Solid Materials Based on Poly(decylviologen) Complexed with Alginate and Poly(sodium 4-styrenesulfonate). Journal of Physical Chemistry B, 2015, 119, 13208-13217.	1.2	14
45	Aerogels containing 5,10,15,20-tetrakis-(4-sulfonatophenyl)-porphyrin with controlled state of aggregation. Dyes and Pigments, 2017, 139, 193-200.	2.0	14
46	Ionic Nanocomplexes of Hyaluronic Acid and Polyarginine to Form Solid Materials: A Green Methodology to Obtain Sponges with Biomedical Potential. Nanomaterials, 2019, 9, 944.	1.9	14
47	Fibrous Materials Made of Poly(Îµ-caprolactone)/Poly(ethylene oxide)-b-Poly(Îµ-caprolactone) Blends Support Neural Stem Cells Differentiation. Polymers, 2019, 11, 1621.	2.0	14
48	Analysis of the interactions of biologically active poly(methacrylic-aminosalicylic acid) supports with Ca2+ and Zn2+ by ultrafiltration. Journal of Membrane Science, 2001, 192, 187-191.	4.1	13
49	Relevance of charge balance and hyaluronic acid on alginateâ€chitosan sponge microstructure and its influence on fibroblast growth. Journal of Biomedical Materials Research - Part A, 2016, 104, 2537-2543.	2.1	13
50	Binding of chlorpheniramine maleate to pharmacologically important alginic acid, carboxymethylcellulose, Îº-carageenan, and Î¹-carrageenan as studied by diafiltration. Journal of Applied Polymer Science, 2005, 98, 598-602.	1.3	12
51	Polyaromatic-Anion Behavior of Different Polyelectrolytes Containing Benzenecarboxylate Units. Journal of Physical Chemistry B, 2010, 114, 7753-7759.	1.2	12
52	Totally Organic Redox-Active pH-Sensitive Nanoparticles Stabilized by Amphiphilic Aromatic Polyketones. Journal of Physical Chemistry B, 2018, 122, 1747-1755.	1.2	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) Tj ETQq1 1 0.784314 rg BT /Overlock 10 Tf	[illegible]	12
54	Complexation Behavior of Cu2+ in the Presence of Iminodiacetic Acid and Poly(ethyleneimine). Macromolecular Chemistry and Physics, 2005, 206, 1541-1548.	1.1	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.	2.3	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, .	1.3	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.	1.2	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.	1.9	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.	1.8	11
61	Combining Materials Obtained by 3D-Printing and Electrospinning from Commercial Polylactide Filament to Produce Biocompatible Composites. Polymers, 2021, 13, 3806.	2.0	11
62	Therapeutic Potential of a Low-Cost Device for Wound Healing. American Journal of Therapeutics, 2013, 20, 394-398.	0.5	10
63	Synthesis and behaviour of two copolymers of poly[acrylamide- co -(N-(hydroxymethyl)acrylamide)] in ultrafiltration experiments. Polymer Bulletin, 2000, 44, 159-165.	1.7	9
64	Facile Formation of Redoxâ€Active Totally Organic Nanoparticles in Water by In Situ Reduction of Organic Precursors Stabilized through Aromaticâ€"Aromatic Interactions by Aromatic Polyelectrolytes. Macromolecular Rapid Communications, 2016, 37, 1729-1734.	2.0	9
65	Correlation between 1H 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.	1.2	9
66	Different Models on Binding of Aromatic Counterions to Polyelectrolytes. Molecular Crystals and Liquid Crystals, 2010, 522, 136/[436]-147/[447].	0.4	8
67	Chitosan/chondroitin sulfate aerogels with high polymeric electroneutralization degree: formation and mechanical properties. Pure and Applied Chemistry, 2018, 90, 901-911.	0.9	8
68	Sensing Cu2+ 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.	2.0	7
69	New insights into the nature of the Cibacron brilliant red 3B-A â€" Chitosan interaction. Pure and Applied Chemistry, 2016, 88, 891-904.	0.9	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, .	0.5	6
71	Interactions of Water-Soluble Poly(sodium 4-styrenesulfonate) with Iminodiacetic Acid and Cu2+. Macromolecular Rapid Communications, 2001, 22, 1191.	2.0	5
72	Studies on the equilibrium among poly(sodium 4-styrenesulfonate), Cu2+, and iminodiacetic acid by ultrafiltration at constant ionic strength. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 2587-2593.	2.4	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.	1.2	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.	1.8	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.	2.0	5
76	Stability of Water/Poly(ethylene oxide)43-b-poly(Îµ-caprolactone)14/Cyclohexanone Emulsions Involves Water Exchange between the Core and the Bulk. Journal of Physical Chemistry B, 2015, 119, 15929-15937.	1.2	4
77	Dispersion of the Photosensitizer 5,10,15,20-Tetrakis(4-Sulfonatophenyl)-porphyrin by the Amphiphilic Polymer Poly(vinylpirrolidone) in Highly Porous Solid Materials Designed for Photodynamic Therapy. Journal of Physical Chemistry B, 2017, 121, 7373-7381.	1.2	4
78	pH-Responsive Polyketone/5,10,15,20-Tetrakis-(Sulfonatophenyl)Porphyrin Supramolecular Submicron Colloidal Structures. Polymers, 2020, 12, 2017.	2.0	3
79	Mechanical properties and electrical surface charges of microfibrillated cellulose/imidazole-modified polyketone composite membranes. Polymer Testing, 2020, 89, 106710.	2.3	3
80	Porous polyelectrolyte materials with controlled luminescence properties based on aromaticâ€aromatic interactions with rhodamine B. Polymers for Advanced Technologies, 2021, 32, 2781.	1.6	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.	2.3	1
82	The effect of chitosan-modified gold nanoparticles in Lemna valdiviana and Daphnia pulex. Gold Bulletin, 2022, 55, 77.	1.1	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.	2.0	0