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	The effect of chitosan-modified gold nanoparticles in Lemna valdiviana and Daphnia pulex. Gold Bulletin, 2022, 55, 77.	1.1	1
2	Self-Healing Polymer Nanocomposite Materials by Joule Effect. Polymers, 2021, 13, 649.	2.0	38
3	Maleimide Self-Reaction in Furan/Maleimide-Based Reversibly Crosslinked Polyketones: Processing Limitation or Potential Advantage?. Molecules, 2021, 26, 2230.	1.7	19
4	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
5	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
6	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
7	Combining Materials Obtained by 3D-Printing and Electrospinning from Commercial Polylactide Filament to Produce Biocompatible Composites. Polymers, 2021, 13, 3806.	2.0	11
8	Electroactive Self-Healing Shape Memory Polymer Composites Based on Dielsâ€"Alder Chemistry. ACS Applied Polymer Materials, 2021, 3, 6147-6156.	2.0	19
9	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
10	pH-Responsive Polyketone/5,10,15,20-Tetrakis-(Sulfonatophenyl)Porphyrin Supramolecular Submicron Colloidal Structures. Polymers, 2020, 12, 2017.	2.0	3
11	Mechanical properties and electrical surface charges of microfibrillated cellulose/imidazole-modified polyketone composite membranes. Polymer Testing, 2020, 89, 106710.	2.3	3
12	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
13	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
14	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
15	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
16	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
17	Electrically Self-Healing Thermoset MWCNTs Composites Based on Diels-Alder and Hydrogen Bonds. Polymers, 2019, 11, 1885.	2.0	32
18	Totally Organic Redox-Active pH-Sensitive Nanoparticles Stabilized by Amphiphilic Aromatic Polyketones. Journal of Physical Chemistry B, 2018, 122, 1747-1755.	1.2	12

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19	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
20	Chitosan/chondroitin sulfate aerogels with high polymeric electroneutralization degree: formation and mechanical properties. Pure and Applied Chemistry, 2018, 90, 901-911.	0.9	8
21	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
22	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
23	Electrically-Responsive Reversible Polyketone/MWCNT Network through Diels-Alder Chemistry. Polymers, 2018, 10, 1076.	2.0	19
24	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
25	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 rgBT /Overlock 10 Tf	0.9	12
26	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
27	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
28	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
29	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
30	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
31	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
32	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
33	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
34	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
35	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
36	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

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37	Novel polyketones with pendant imidazolium groups as nanodispersants of hydrophobic antibiotics. Journal of Applied Polymer Science, 2015, 132, .	1.3	11
38	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
39	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
40	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
41	Nanoparticles for the Treatment of Wounds. Current Pharmaceutical Design, 2015, 21, 4329-4341.	0.9	67
42	n-Hexanol association in cyclohexane studied by NMR and NIR spectroscopies. Journal of Molecular Liquids, 2014, 199, 301-308.	2.3	11
43	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
44	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
45	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
46	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
47	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
48	Therapeutic Potential of a Low-Cost Device for Wound Healing. American Journal of Therapeutics, 2013, 20, 394-398.	0.5	10
49	Different Models on Binding of Aromatic Counterions to Polyelectrolytes. Molecular Crystals and Liquid Crystals, 2010, 522, 136/[436]-147/[447].	0.4	8
50	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
51	Comparative Study of the Self-Aggregation of Rhodamine 6G in the Presence of Poly(sodium) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Poly(styrene-<i>alt</i>-maleic acid), and Poly(sodium acrylate). Journal of Physical Chemistry B, 2010, 114, 11983-11992.	1.2	45
52	Polyaromatic-Anion Behavior of Different Polyelectrolytes Containing Benzenecarboxylate Units. Journal of Physical Chemistry B, 2010, 114, 7753-7759.	1.2	12
53	Binding of Methylene Blue to Polyelectrolytes Containing Sulfonate Groups. Macromolecular Chemistry and Physics, 2009, 210, 1167-1175.	1.1	60
54	Control of C.I. Basic Violet 10 aggregation in aqueous solution by the use of poly(sodium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (4	2.0	30

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55	Comment on â€œJ- and H-Aggregates of 5,10,15,20-Tetrakis-(4âˆ’sulfonatophenyl)-porphyrin and Interconversion in PEG-<i>b</i>-P4VP Micellesâ€ Biomacromolecules, 2009, 10, 3341-3342.	2.6	19
56	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
57	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
58	Aromaticâˆ’Aromatic Interaction between 2,3,5-Triphenyl-2H-tetrazolium Chloride and Poly(sodium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.2	34
59	Tuning the pKa of the antihistaminic drug chlorpheniramine maleate by supramolecular interactions with water-soluble polymers. Polymer, 2007, 48, 799-804.	1.8	42
60	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
61	pH Dependence of the Interaction between Rhodamine B and the Water-Soluble Poly(sodium) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.2	85
62	Ï€-Stacking of rhodamine B onto water-soluble polymers containing aromatic groups. Polymer, 2006, 47, 6496-6500.	1.8	48
63	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
64	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
65	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
66	Complexation Behavior of Cu2+ in the Presence of Iminodiacetic Acid and Poly(ethyleneimine). Macromolecular Chemistry and Physics, 2005, 206, 1541-1548.	1.1	11
67	Interactions of polyelectrolytes bearing carboxylate and/or sulfonate groups with Cu(II) and Ni(II). Polymer, 2004, 45, 1771-1775.	1.8	37
68	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
69	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
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	Water-soluble polymerâ€“metal ion interactions. Progress in Polymer Science, 2003, 28, 173-208.	11.8	416
72	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

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73	Metal ion enrichment of a water-soluble chelating polymer studied by ultrafiltration. Journal of Membrane Science, 2002, 208, 69-73.	4.1	24
74	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
75	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
76	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
77	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
78	Interactions of Water-Soluble Poly(sodium 4-styrenesulfonate) with Iminodiacetic Acid and Cu2+. Macromolecular Rapid Communications, 2001, 22, 1191.	2.0	5
79	Effect of the Polymer Concentration on the Interactions of Water-Soluble Polymers with Metal Ions. Chemistry Letters, 2000, 29, 166-167.	0.7	37
80	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
81	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
82	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
83	Analysis of the retention profiles of poly (acrylic acid) with Co(II) and Ni(II). Polymer Bulletin, 1997, 39, 653-660.	1.7	16