

# Rebeca Hernandez

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61  
papers

1,738  
citations

25  
h-index

40  
g-index

61  
ext. papers

1,936  
ext. citations

4.9  
avg, IF

4.66  
L-index

#	Paper	IF	Citations
61	A Comparison of Phase Organization of Model Segmented Polyurethanes with Different Intersegment Compatibilities. <i>Macromolecules</i> , <b>2008</b> , 41, 9767-9776	5.5	140
60	Microstructural Organization of Three-Phase Polydimethylsiloxane-Based Segmented Polyurethanes. <i>Macromolecules</i> , <b>2007</b> , 40, 5441-5449	5.5	124
59	Chitosan nanoparticles for combined drug delivery and magnetic hyperthermia: From preparation to in vitro studies. <i>Carbohydrate Polymers</i> , <b>2017</b> , 157, 361-370	10.3	91
58	In situ Synthesis of Magnetic Iron Oxide Nanoparticles in Thermally Responsive Alginate-Poly(N-isopropylacrylamide) Semi-Interpenetrating Polymer Networks. <i>Macromolecular Rapid Communications</i> , <b>2009</b> , 30, 176-81	4.8	80
57	Viscoelastic properties of poly(vinyl alcohol) hydrogels and ferrogels obtained through freezing/thawing cycles. <i>Polymer</i> , <b>2004</b> , 45, 5543-5549	3.9	72
56	In vitro oxidation of high polydimethylsiloxane content biomedical polyurethanes: correlation with the microstructure. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2008</b> , 87, 546-56	5.4	67
55	Structure of Poly(vinyl alcohol) Cryo-Hydrogels as Studied by Proton Low-Field NMR Spectroscopy. <i>Macromolecules</i> , <b>2009</b> , 42, 263-272	5.5	65
54	Chitosan/agarose hydrogels: cooperative properties and microfluidic preparation. <i>Carbohydrate Polymers</i> , <b>2014</b> , 111, 348-55	10.3	61
53	Use of alginate, chitosan and cellulose nanocrystals as emulsion stabilizers in the synthesis of biodegradable polymeric nanoparticles. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 445, 31-39	9.3	61
52	Temperature dependent microphase mixing of model polyurethanes with different intersegment compatibilities. <i>Polymer</i> , <b>2009</b> , 50, 6305-6311	3.9	57
51	Controlling PVA Hydrogels with $\beta$ Cyclodextrin. <i>Macromolecules</i> , <b>2004</b> , 37, 9620-9625	5.5	52
50	Influence of iron oxide nanoparticles on the rheological properties of hybrid chitosan ferrogels. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 339, 53-9	9.3	50
49	Magnetic core-shell chitosan nanoparticles: rheological characterization and hyperthermia application. <i>Carbohydrate Polymers</i> , <b>2014</b> , 102, 691-8	10.3	49
48	Magnetic hydrogels derived from polysaccharides with improved specific power absorption: potential devices for remotely triggered drug delivery. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 12002-374	7.4	45
47	Nanocomposite chitosan hydrogels based on PLGA nanoparticles as potential biomedical materials. <i>European Polymer Journal</i> , <b>2018</b> , 99, 456-463	5.2	43
46	Novel hydrogels of chitosan and poly(vinyl alcohol)-g-glycolic acid copolymer with enhanced rheological properties. <i>Carbohydrate Polymers</i> , <b>2014</b> , 103, 267-73	10.3	37
45	Structure of a spin-crossover Fe(II) $\pi$ ,2,4-triazole polymer complex dispersed in an isotactic polystyrene matrix. <i>European Polymer Journal</i> , <b>2011</b> , 47, 52-60	5.2	36

44	Local and controlled release of tamoxifen from multi (layer-by-layer) alginate/chitosan complex systems. <i>Carbohydrate Polymers</i> , <b>2019</b> , 206, 428-434	10.3	32
43	A reappraisal of the thermoreversible gelation of aqueous poly(vinyl alcohol) solutions through freezing/thawing cycles. <i>Polymer</i> , <b>2002</b> , 43, 5661-5663	3.9	31
42	Structural organization of iron oxide nanoparticles synthesized inside hybrid polymer gels derived from alginate studied with small-angle X-ray scattering. <i>Langmuir</i> , <b>2009</b> , 25, 13212-8	4	30
41	Preparation of alginate hydrogels containing silver nanoparticles: a facile approach for antibacterial applications. <i>Polymer International</i> , <b>2016</b> , 65, 921-926	3.3	30
40	Poly (lactic-co-glycolic acid) particles prepared by microfluidics and conventional methods. Modulated particle size and rheology. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 441, 90-7	9.3	29
39	Composite Chitosan/Agarose Ferrogels for Potential Applications in Magnetic Hyperthermia. <i>Gels</i> , <b>2015</b> , 1, 69-80	4.2	28
38	Sol/Gel Transition of Aqueous Alginate Solutions Induced by Fe <sup>2+</sup> Cations. <i>Macromolecular Chemistry and Physics</i> , <b>2010</b> , 211, 1254-1260	2.6	28
37	An asparagine/tryptophan organogel showing a selective response towards fluoride anions. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 8862		26
36	Structure and viscoelastic properties of hybrid ferrogels with iron oxide nanoparticles synthesized in situ. <i>Soft Matter</i> , <b>2010</b> , 6, 3910	3.6	25
35	Polydimethylsiloxane-Based Polyurethanes: Phase-Separated Morphology and In Vitro Oxidative Biostability. <i>Australian Journal of Chemistry</i> , <b>2009</b> , 62, 794	1.2	25
34	Poly(vinyl alcohol)/poly(acrylic acid) interpenetrating networks. Study on phase separation and molecular motions. <i>Polymer</i> , <b>2005</b> , 46, 7066-7071	3.9	21
33	Quantitative Nanomechanical Properties of Multilayer Films Made of Polysaccharides through Spray Assisted Layer-by-Layer Assembly. <i>Biomacromolecules</i> , <b>2017</b> , 18, 169-177	6.9	19
32	Preparation and characterization of polyacrylic acid-poly(vinyl alcohol)-based interpenetrating hydrogels. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 102, 5789-5794	2.9	19
31	Click Crosslinked Chitosan/Gold Nanocomposite Hydrogels. <i>Macromolecular Materials and Engineering</i> , <b>2016</b> , 301, 1295-1300	3.9	19
30	Magnetic characterization of polyvinyl alcohol ferrogels and films. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 2211-2216	2.5	18
29	Deswelling of Poly(N-isopropylacrylamide) Derived Hydrogels and Their Nanocomposites with Iron Oxide Nanoparticles As Revealed by X-ray Photon Correlation Spectroscopy. <i>Macromolecules</i> , <b>2015</b> , 48, 393-399	5.5	17
28	An integrated device for magnetically-driven drug release and in situ quantitative measurements: Design, fabrication and testing. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 377, 446-451	2.8	16
27	Crosslinking of poly(vinyl alcohol) using functionalized gold nanoparticles. <i>European Polymer Journal</i> , <b>2010</b> , 46, 2099-2104	5.2	16

26	Thermo-responsive PNIPAm nanopillars displaying amplified responsiveness through the incorporation of nanoparticles. <i>Nanoscale</i> , <b>2018</b> , 10, 1189-1195	7.7	16
25	Slow dynamics of nanocomposite polymer aerogels as revealed by X-ray photocorrelation spectroscopy (XPCS). <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 024909	3.9	15
24	Polysaccharide Coating of Gelatin Gels for Controlled BSA Release. <i>Polymers</i> , <b>2019</b> , 11,	4.5	13
23	Double-membrane thermoresponsive hydrogels from gelatin and chondroitin sulphate with enhanced mechanical properties. <i>RSC Advances</i> , <b>2016</b> , 6, 105821-105826	3.7	12
22	Nanocomposite hydrogels based on embedded PLGA nanoparticles in gelatin. <i>Nanocomposites</i> , <b>2015</b> , 1, 46-50	3.4	11
21	Hyaluronic Acid Hydrogels Crosslinked in Physiological Conditions: Synthesis and Biomedical Applications. <i>Biomedicines</i> , <b>2021</b> , 9,	4.8	9
20	Photoresponsive Nanometer-Scale Iron Alginate Hydrogels: A Study of Gel-Sol Transition Using a Quartz Crystal Microbalance. <i>Langmuir</i> , <b>2019</b> , 35, 11397-11405	4	8
19	A novel organogelator incorporating tert-butyl esters of asparagines. <i>Organic and Biomolecular Chemistry</i> , <b>2009</b> , 7, 364-9	3.9	8
18	New hydrogels from interpenetrated physical gels of agarose and chemical gels of polyacrylamide: Effect of relative concentration and crosslinking degree on the viscoelastic and thermal properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2010</b> , 48, 2403-2412	2.6	8
17	Preparation and Characterization of Interpenetrating Polymer Hydrogels Based on Poly(acrylic acid) and Poly(vinyl alcohol). <i>Macromolecular Symposia</i> , <b>2005</b> , 222, 163-168	0.8	8
16	Study of the effect of poly(vinyl alcohol) concentration on the gelation point of poly(vinyl alcohol) poly(acrylic acid) semi-IPN systems as determined by viscoelastic measurements. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2005</b> , 43, 1944-1949	2.6	8
15	Relaxation processes in a lower disorder order transition diblock copolymer. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 064904	3.9	7
14	Preparation of Hybrid Fe <sub>3</sub> O <sub>4</sub> /Poly(lactic-co-glycolic acid) (PLGA) Particles by Emulsion and Evaporation Method. Optimization of the Experimental Parameters. <i>Macromolecular Symposia</i> , <b>2014</b> , 335, 62-69	0.8	7
13	Polyelectrolyte Multilayer Films Based on Natural Polymers: From Fundamentals to Bio-Applications. <i>Polymers</i> , <b>2021</b> , 13,	4.5	7
12	Inclusion of PLLA nanoparticles in thermosensitive semi-interpenetrating polymer networks. <i>Polymer Degradation and Stability</i> , <b>2014</b> , 108, 280-287	4.7	6
11	A Review on Current Strategies for the Modulation of Thermomechanical, Barrier, and Biodegradation Properties of Poly (Butylene Succinate) (PBS) and Its Random Copolymers.. <i>Polymers</i> , <b>2022</b> , 14,	4.5	6
10	Magnetically responsive biopolymeric multilayer films for local hyperthermia. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 8570-8578	7.3	5
9	Crystallization and Stereocomplexation of PLA-mb-PBS Multi-Block Copolymers. <i>Polymers</i> , <b>2017</b> , 10,	4.5	5

8	Novel Hydrogels of Chitosan and Poly(vinyl alcohol) Reinforced with Inorganic Particles of Bioactive Glass. <i>Polymers</i> , <b>2021</b> , 13,	4.5	5
7	Magnetite-poly(lactic-co-glycolic acid) hybrid particles: Preparation and viscoelastic properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2014</b> , 456, 108-113	5.1	3
6	Compact polyelectrolyte hydrogels of gelatin and chondroitin sulfate as ion's mobile media in sustainable all-solid state electrochemical devices. <i>Materials Advances</i> , <b>2020</b> , 1, 2526-2535	3.3	3
5	Nanostructural organization of thin films prepared by sequential dip-coating deposition of poly(butylene succinate), poly(ε-caprolactone) and their copolyesters (PBS-ran-PCL). <i>Polymer</i> , <b>2021</b> , 226, 123812	3.9	3
4	Injectable Tripeptide/Polymer Nanoparticles Supramolecular Hydrogel: A Candidate for the Treatment of Inflammatory Pathologies.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> , 14, 10068-10080 <sup>9.5</sup>		3
3	Preparation and characterization of nickel chelating functionalized poly (lactic-co-glycolic acid) microspheres. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2015</b> , 468, 122-128	5.1	1
2	Chitosan microgels obtained by on-chip crosslinking reaction employing a microfluidic device. <i>Optofluidics, Microfluidics and Nanofluidics</i> , <b>2014</b> , 1,		1
1	Optimization of the Rheological Properties of Self-Assembled Tripeptide/Alginate/Cellulose Hydrogels for 3D Printing. <i>Polymers</i> , <b>2022</b> , 14, 2229	4.5	1