

Rebeca Hernandez

List of Publications by Year in Descending Order

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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	Injectable Tripeptide/Polymer Nanoparticles Supramolecular Hydrogel: A Candidate for the Treatment of Inflammatory Pathologies.. <i>ACS Applied Materials & Interfaces</i> , 2022 , 14, 10068-10080	9.5	3
60	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> , 2022 , 14,	4.5	6
59	Optimization of the Rheological Properties of Self-Assembled Tripeptide/Alginate/Cellulose Hydrogels for 3D Printing. <i>Polymers</i> , 2022 , 14, 2229	4.5	1
58	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> , 2021 , 226, 123812	3.9	3
57	Polyelectrolyte Multilayer Films Based on Natural Polymers: From Fundamentals to Bio-Applications. <i>Polymers</i> , 2021 , 13,	4.5	7
56	Novel Hydrogels of Chitosan and Poly(vinyl alcohol) Reinforced with Inorganic Particles of Bioactive Glass. <i>Polymers</i> , 2021 , 13,	4.5	5
55	Hyaluronic Acid Hydrogels Crosslinked in Physiological Conditions: Synthesis and Biomedical Applications. <i>Biomedicines</i> , 2021 , 9,	4.8	9
54	Compact polyelectrolyte hydrogels of gelatin and chondroitin sulfate as ion's mobile media in sustainable all-solid state electrochemical devices. <i>Materials Advances</i> , 2020 , 1, 2526-2535	3.3	3
53	Polysaccharide Coating of Gelatin Gels for Controlled BSA Release. <i>Polymers</i> , 2019 , 11,	4.5	13
52	Photoresponsive Nanometer-Scale Iron Alginate Hydrogels: A Study of Gel-Sol Transition Using a Quartz Crystal Microbalance. <i>Langmuir</i> , 2019 , 35, 11397-11405	4	8
51	Local and controlled release of tamoxifen from multi (layer-by-layer) alginate/chitosan complex systems. <i>Carbohydrate Polymers</i> , 2019 , 206, 428-434	10.3	32
50	Nanocomposite chitosan hydrogels based on PLGA nanoparticles as potential biomedical materials. <i>European Polymer Journal</i> , 2018 , 99, 456-463	5.2	43
49	Thermo-responsive PNIPAm nanopillars displaying amplified responsiveness through the incorporation of nanoparticles. <i>Nanoscale</i> , 2018 , 10, 1189-1195	7.7	16
48	Quantitative Nanomechanical Properties of Multilayer Films Made of Polysaccharides through Spray Assisted Layer-by-Layer Assembly. <i>Biomacromolecules</i> , 2017 , 18, 169-177	6.9	19
47	Magnetically responsive biopolymeric multilayer films for local hyperthermia. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 8570-8578	7.3	5
46	Crystallization and Stereocomplexation of PLA-mb-PBS Multi-Block Copolymers. <i>Polymers</i> , 2017 , 10,	4.5	5
45	Chitosan nanoparticles for combined drug delivery and magnetic hyperthermia: From preparation to in vitro studies. <i>Carbohydrate Polymers</i> , 2017 , 157, 361-370	10.3	91

44	Preparation of alginate hydrogels containing silver nanoparticles: a facile approach for antibacterial applications. <i>Polymer International</i> , 2016 , 65, 921-926	3.3	30
43	Double-membrane thermoresponsive hydrogels from gelatin and chondroitin sulphate with enhanced mechanical properties. <i>RSC Advances</i> , 2016 , 6, 105821-105826	3.7	12
42	Click Crosslinked Chitosan/Gold Nanocomposite Hydrogels. <i>Macromolecular Materials and Engineering</i> , 2016 , 301, 1295-1300	3.9	19
41	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> , 2015 , 48, 393-399	5.5	17
40	Relaxation processes in a lower disorder order transition diblock copolymer. <i>Journal of Chemical Physics</i> , 2015 , 142, 064904	3.9	7
39	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> , 2015 , 441, 90-7	9.3	29
38	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> , 2015 , 377, 446-451	2.8	16
37	Composite Chitosan/Agarose Ferrogels for Potential Applications in Magnetic Hyperthermia. <i>Gels</i> , 2015 , 1, 69-80	4.2	28
36	Nanocomposite hydrogels based on embedded PLGA nanoparticles in gelatin. <i>Nanocomposites</i> , 2015 , 1, 46-50	3.4	11
35	Preparation and characterization of nickel chelating functionalized poly (lactic-co-glycolic acid) microspheres. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015 , 468, 122-128	5.1	1
34	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> , 2015 , 445, 31-39	9.3	61
33	Chitosan/agarose hydrogels: cooperative properties and microfluidic preparation. <i>Carbohydrate Polymers</i> , 2014 , 111, 348-55	10.3	61
32	Magnetic core-shell chitosan nanoparticles: rheological characterization and hyperthermia application. <i>Carbohydrate Polymers</i> , 2014 , 102, 691-8	10.3	49
31	Novel hydrogels of chitosan and poly(vinyl alcohol)-g-glycolic acid copolymer with enhanced rheological properties. <i>Carbohydrate Polymers</i> , 2014 , 103, 267-73	10.3	37
30	Slow dynamics of nanocomposite polymer aerogels as revealed by X-ray photocorrelation spectroscopy (XPCS). <i>Journal of Chemical Physics</i> , 2014 , 140, 024909	3.9	15
29	Preparation of Hybrid Fe ₃ O ₄ /Poly(lactic-co-glycolic acid) (PLGA) Particles by Emulsion and Evaporation Method. Optimization of the Experimental Parameters. <i>Macromolecular Symposia</i> , 2014 , 335, 62-69	0.8	7
28	Magnetite-poly(lactic-co-glycolic acid) hybrid particles: Preparation and viscoelastic properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 456, 108-113	5.1	3
27	Inclusion of PLLA nanoparticles in thermosensitive semi-interpenetrating polymer networks. <i>Polymer Degradation and Stability</i> , 2014 , 108, 280-287	4.7	6

26	Chitosan microgels obtained by on-chip crosslinking reaction employing a microfluidic device. <i>Optofluidics, Microfluidics and Nanofluidics</i> , 2014 , 1,		1
25	An asparagine/tryptophan organogel showing a selective response towards fluoride anions. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8862		26
24	Structure of a spin-crossover Fe(II) ²⁺ ,2,4-triazole polymer complex dispersed in an isotactic polystyrene matrix. <i>European Polymer Journal</i> , 2011 , 47, 52-60	5.2	36
23	Magnetic hydrogels derived from polysaccharides with improved specific power absorption: potential devices for remotely triggered drug delivery. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 12002-12007	3.74	45
22	Structure and viscoelastic properties of hybrid ferrogels with iron oxide nanoparticles synthesized in situ. <i>Soft Matter</i> , 2010 , 6, 3910	3.6	25
21	Sol/Gel Transition of Aqueous Alginate Solutions Induced by Fe ²⁺ Cations. <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 1254-1260	2.6	28
20	Crosslinking of poly(vinyl alcohol) using functionalized gold nanoparticles. <i>European Polymer Journal</i> , 2010 , 46, 2099-2104	5.2	16
19	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> , 2010 , 48, 2403-2412	2.6	8
18	In situ Synthesis of Magnetic Iron Oxide Nanoparticles in Thermally Responsive Alginate-Poly(N-isopropylacrylamide) Semi-Interpenetrating Polymer Networks. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 176-81	4.8	80
17	Influence of iron oxide nanoparticles on the rheological properties of hybrid chitosan ferrogels. <i>Journal of Colloid and Interface Science</i> , 2009 , 339, 53-9	9.3	50
16	Temperature dependent microphase mixing of model polyurethanes with different intersegment compatibilities. <i>Polymer</i> , 2009 , 50, 6305-6311	3.9	57
15	Structure of Poly(vinyl alcohol) Cryo-Hydrogels as Studied by Proton Low-Field NMR Spectroscopy. <i>Macromolecules</i> , 2009 , 42, 263-272	5.5	65
14	Structural organization of iron oxide nanoparticles synthesized inside hybrid polymer gels derived from alginate studied with small-angle X-ray scattering. <i>Langmuir</i> , 2009 , 25, 13212-8	4	30
13	Polydimethylsiloxane-Based Polyurethanes: Phase-Separated Morphology and In Vitro Oxidative Biostability. <i>Australian Journal of Chemistry</i> , 2009 , 62, 794	1.2	25
12	A novel organogelator incorporating tert-butyl esters of asparagines. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 364-9	3.9	8
11	A Comparison of Phase Organization of Model Segmented Polyurethanes with Different Intersegment Compatibilities. <i>Macromolecules</i> , 2008 , 41, 9767-9776	5.5	140
10	In vitro oxidation of high polydimethylsiloxane content biomedical polyurethanes: correlation with the microstructure. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 87, 546-56	5.4	67
9	Microstructural Organization of Three-Phase Polydimethylsiloxane-Based Segmented Polyurethanes. <i>Macromolecules</i> , 2007 , 40, 5441-5449	5.5	124

8	Magnetic characterization of polyvinyl alcohol ferrogels and films. <i>Journal of Materials Research</i> , 2007 , 22, 2211-2216	2.5	18
7	Preparation and characterization of polyacrylic acid-poly(vinyl alcohol)-based interpenetrating hydrogels. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 5789-5794	2.9	19
6	Preparation and Characterization of Interpenetrating Polymer Hydrogels Based on Poly(acrylic acid) and Poly(vinyl alcohol). <i>Macromolecular Symposia</i> , 2005 , 222, 163-168	0.8	8
5	Poly(vinyl alcohol)–poly(acrylic acid) interpenetrating networks. Study on phase separation and molecular motions. <i>Polymer</i> , 2005 , 46, 7066-7071	3.9	21
4	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> , 2005 , 43, 1944-1949	2.6	8
3	Viscoelastic properties of poly(vinyl alcohol) hydrogels and ferrogels obtained through freezing–thawing cycles. <i>Polymer</i> , 2004 , 45, 5543-5549	3.9	72
2	Controlling PVA Hydrogels with β -Cyclodextrin. <i>Macromolecules</i> , 2004 , 37, 9620-9625	5.5	52
1	A reappraisal of the thermoreversible gelation of aqueous poly(vinyl alcohol) solutions through freezing–thawing cycles. <i>Polymer</i> , 2002 , 43, 5661-5663	3.9	31