Rebeca Hernandez

List of Publications by Year
in descending order

61	2,159	186209 28	233338 45
papers	citations	h-index	g-index

61	61	61	3188
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Comparison of Phase Organization of Model Segmented Polyurethanes with Different Intersegment Compatibilities. Macromolecules, 2008, 41, 9767-9776.	2.2	154
2	Microstructural Organization of Three-Phase Polydimethylsiloxane-Based Segmented Polyurethanes. Macromolecules, 2007, 40, 5441-5449.	2.2	136
3	Chitosan nanoparticles for combined drug delivery and magnetic hyperthermia: From preparation to in vitro studies. Carbohydrate Polymers, 2017, 157, 361-370.	5.1	107
4	Viscoelastic properties of poly(vinyl alcohol) hydrogels and ferrogels obtained through freezingâ€“thawing cycles. Polymer, 2004, 45, 5543-5549.	1.8	88
5	In situ Synthesis of Magnetic Iron Oxide Nanoparticles in Thermally Responsive Alginateâ€Poly(Nâ€isopropylacrylamide) Semiâ€Interpenetrating Polymer Networks. Macromolecular Rapid Communications, 2009, 30, 176-181.	2.0	85
6	Chitosan/agarose hydrogels: Cooperative properties and microfluidic preparation. Carbohydrate Polymers, 2014, 111, 348-355.	5.1	80
7	Structure of Poly(vinyl alcohol) Cryo-Hydrogels as Studied by Proton Low-Field NMR Spectroscopy. Macromolecules, 2009, 42, 263-272.	2.2	75
8	Use of alginate, chitosan and cellulose nanocrystals as emulsion stabilizers in the synthesis of biodegradable polymeric nanoparticles. Journal of Colloid and Interface Science, 2015, 445, 31-39.	5.0	75
9	In vitro oxidation of high polydimethylsiloxane content biomedical polyurethanes: Correlation with the microstructure. Journal of Biomedical Materials Research - Part A, 2008, 87A, 546-556.	2.1	74
10	Temperature dependent microphase mixing of model polyurethanes with different intersegment compatibilities. Polymer, 2009, 50, 6305-6311.	1.8	67
11	Influence of iron oxide nanoparticles on the rheological properties of hybrid chitosan ferrogels. Journal of Colloid and Interface Science, 2009, 339, 53-59.	5.0	56
12	Magnetic coreâ€“shell chitosan nanoparticles: Rheological characterization and hyperthermia application. Carbohydrate Polymers, 2014, 102, 691-698.	5.1	54
13	Controlling PVA Hydrogels with Î³-Cyclodextrin. Macromolecules, 2004, 37, 9620-9625.	2.2	53
14	Magnetic Hydrogels Derived from Polysaccharides with Improved Specific Power Absorption: Potential Devices for Remotely Triggered Drug Delivery. Journal of Physical Chemistry B, 2010, 114, 12002-12007.	1.2	51
15	Hyaluronic Acid Hydrogels Crosslinked in Physiological Conditions: Synthesis and Biomedical Applications. Biomedicines, 2021, 9, 1113.	1.4	50
16	Nanocomposite chitosan hydrogels based on PLGA nanoparticles as potential biomedical materials. European Polymer Journal, 2018, 99, 456-463.	2.6	49
17	Novel hydrogels of chitosan and poly(vinyl alcohol)-g-glycolic acid copolymer with enhanced rheological properties. Carbohydrate Polymers, 2014, 103, 267-273.	5.1	47
18	Local and controlled release of tamoxifen from multi (layer-by-layer) alginate/chitosan complex systems. Carbohydrate Polymers, 2019, 206, 428-434.	5.1	46

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19	Preparation of alginate hydrogels containing silver nanoparticles: a facile approach for antibacterial applications. Polymer International, 2016, 65, 921-926.	1.6	43
20	Structure of a spin-crossover Fe(II)â€“1,2,4-triazole polymer complex dispersed in an isotactic polystyrene matrix. European Polymer Journal, 2011, 47, 52-60.	2.6	38
21	Poly (lactic-co-glycolic acid) particles prepared by microfluidics and conventional methods. Modulated particle size and rheology. Journal of Colloid and Interface Science, 2015, 441, 90-97.	5.0	37
22	Composite Chitosan/Agarose Ferrogels for Potential Applications in Magnetic Hyperthermia. Gels, 2015, 1, 69-80.	2.1	35
23	Polyelectrolyte Multilayer Films Based on Natural Polymers: From Fundamentals to Bio-Applications. Polymers, 2021, 13, 2254.	2.0	35
24	Sol/Gel Transition of Aqueous Alginate Solutions Induced by Fe²⁺ Cations. Macromolecular Chemistry and Physics, 2010, 211, 1254-1260.	1.1	34
25	A reappraisal of the 'thermoreversible' gelation of aqueous poly(vinyl alcohol) solutions through freezingâ€“thawing cycles. Polymer, 2002, 43, 5661-5663.	1.8	33
26	Structural Organization of Iron Oxide Nanoparticles Synthesized Inside Hybrid Polymer Gels Derived from Alginate Studied with Small-Angle X-ray Scattering. Langmuir, 2009, 25, 13212-13218.	1.6	33
27	A Review on Current Strategies for the Modulation of Thermomechanical, Barrier, and Biodegradation Properties of Poly (Butylene Succinate) (PBS) and Its Random Copolymers. Polymers, 2022, 14, 1025.	2.0	30
28	Structure and viscoelastic properties of hybrid ferrogels with iron oxide nanoparticles synthesized in situ. Soft Matter, 2010, 6, 3910.	1.2	29
29	An asparagine/tryptophan organogel showing a selective response towards fluoride anions. Journal of Materials Chemistry, 2011, 21, 8862.	6.7	29
30	Polydimethylsiloxane-Based Polyurethanes: Phase-Separated Morphology and In Vitro Oxidative Biostability. Australian Journal of Chemistry, 2009, 62, 794.	0.5	25
31	Quantitative Nanomechanical Properties of Multilayer Films Made of Polysaccharides through Spray Assisted Layer-by-Layer Assembly. Biomacromolecules, 2017, 18, 169-177.	2.6	24
32	Poly(vinyl alcohol)â€“poly(acrylic acid) interpenetrating networks. Study on phase separation and molecular motions. Polymer, 2005, 46, 7066-7071.	1.8	22
33	Click Crosslinked Chitosan/Gold Nanocomposite Hydrogels. Macromolecular Materials and Engineering, 2016, 301, 1295-1300.	1.7	22
34	Preparation and characterization of polyacrylic acid-poly(vinyl alcohol)-based interpenetrating hydrogels. Journal of Applied Polymer Science, 2006, 102, 5789-5794.	1.3	21
35	Slow dynamics of nanocomposite polymer aerogels as revealed by X-ray photocorrelation spectroscopy (XPCS). Journal of Chemical Physics, 2014, 140, 024909.	1.2	20
36	Polysaccharide Coating of Gelatin Gels for Controlled BSA Release. Polymers, 2019, 11, 702.	2.0	20

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37	Magnetic characterization of polyvinyl alcohol ferrogels and films. Journal of Materials Research, 2007, 22, 2211-2216.	1.2	19
38	Thermo-responsive PNIPAm nanopillars displaying amplified responsiveness through the incorporation of nanoparticles. Nanoscale, 2018, 10, 1189-1195.	2.8	19
39	Optimization of the Rheological Properties of Self-Assembled Tripeptide/Alginate/Cellulose Hydrogels for 3D Printing. Polymers, 2022, 14, 2229.	2.0	19
40	Crosslinking of poly(vinyl alcohol) using functionalized gold nanoparticles. European Polymer Journal, 2010, 46, 2099-2104.	2.6	18
41	Deswelling of Poly(N-isopropylacrylamide) Derived Hydrogels and Their Nanocomposites with Iron Oxide Nanoparticles As Revealed by X-ray Photon Correlation Spectroscopy. Macromolecules, 2015, 48, 393-399.	2.2	18
42	An integrated device for magnetically-driven drug release and in situ quantitative measurements: Design, fabrication and testing. Journal of Magnetism and Magnetic Materials, 2015, 377, 446-451.	1.0	18
43	Double-membrane thermoresponsive hydrogels from gelatin and chondroitin sulphate with enhanced mechanical properties. RSC Advances, 2016, 6, 105821-105826.	1.7	18
44	Photoresponsive Nanometer-Scale Iron Alginate Hydrogels: A Study of Gelâ€“Sol Transition Using a Quartz Crystal Microbalance. Langmuir, 2019, 35, 11397-11405.	1.6	18
45	Crystallization and Stereocomplexation of PLA-mb-PBS Multi-Block Copolymers. Polymers, 2018, 10, 8.	2.0	15
46	Novel Hydrogels of Chitosan and Poly(vinyl alcohol) Reinforced with Inorganic Particles of Bioactive Glass. Polymers, 2021, 13, 691.	2.0	14
47	Injectable Tripeptide/Polymer Nanoparticles Supramolecular Hydrogel: A Candidate for the Treatment of Inflammatory Pathologies. ACS Applied Materials & Interfaces, 2022, 14, 10068-10080.	4.0	12
48	Nanocomposite hydrogels based on embedded PLGA nanoparticles in gelatin. Nanocomposites, 2015, 1, 46-50.	2.2	11
49	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. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 2403-2412.	2.4	10
50	A novel organogelator incorporating tert-butyl esters of asparagines. Organic and Biomolecular Chemistry, 2009, 7, 364-369.	1.5	9
51	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. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 1944-1949.	2.4	8
52	Preparation and Characterization of Interpenetrating Polymer Hydrogels Based on Poly(acrylic acid) and Poly(vinyl alcohol). Macromolecular Symposia, 2005, 222, 163-168.	0.4	8
53	Magnetically responsive biopolymeric multilayer films for local hyperthermia. Journal of Materials Chemistry B, 2017, 5, 8570-8578.	2.9	8
54	Preparation of Hybrid Fe₃O₄/Poly(lacticâ€coâ€glycolic acid) (PLGA) Particles by Emulsion and Evaporation Method. Optimization of the Experimental Parameters. Macromolecular Symposia, 2014, 335, 62-69.	0.4	7

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55	Inclusion of PLLA nanoparticles in thermosensitive semi-interpenetrating polymer networks. Polymer Degradation and Stability, 2014, 108, 280-287.	2.7	7
56	Relaxation processes in a lower disorder order transition diblock copolymer. Journal of Chemical Physics, 2015, 142, 064904.	1.2	7
57	Compact polyelectrolyte hydrogels of gelatin and chondroitin sulfate as ion's mobile media in sustainable all-solid state electrochemical devices. Materials Advances, 2020, 1, 2526-2535.	2.6	7
58	Nanostructural organization of thin films prepared by sequential dip-coating deposition of poly(butylene succinate), poly(Îµ-caprolactone) and their copolyesters (PBS-ran-PCL). Polymer, 2021, 226, 123812.	1.8	6
59	Magnetite-poly(lactic-co-glycolic acid) hybrid particles: Preparation and viscoelastic properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 456, 108-113.	2.3	3
60	Chitosan microgels obtained by on-chip crosslinking reaction employing a microfluidic device. Optofluidics, Microfluidics and Nanofluidics, 2014, 1, .	0.5	2
61	Preparation and characterization of nickel chelating functionalized poly (lactic-co-glycolic acid) microspheres. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 468, 122-128.	2.3	1