Carmen Alvarez-Lorenzo

List of Publications by Year
in descending order

359 papers	16,820 citations	13865 67 h-index	29157 104 g-index
369 all docs	369 docs citations	369 times ranked	15917 citing authors

#	Article	IF	Citations
1	Lightâ€sensitive Intelligent Drug Delivery Systems^{â€}. Photochemistry and Photobiology, 2009, 85, 848-860.	2.5	457
2	Crosslinked ionic polysaccharides for stimuli-sensitive drug delivery. Advanced Drug Delivery Reviews, 2013, 65, 1148-1171.	13.7	428
3	Molecularly imprinted polymers for drug delivery. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2004, 804, 231-245.	2.3	340
4	Smart drug delivery systems: from fundamentals to the clinic. Chemical Communications, 2014, 50, 7743-7765.	4.1	329
5	Ocular release of timolol from molecularly imprinted soft contact lenses. Biomaterials, 2005, 26, 1293-1298.	11.4	251
6	Polysaccharide-based aerogel microspheres for oral drug delivery. Carbohydrate Polymers, 2015, 117, 797-806.	10.2	234
7	Imprinted soft contact lenses as norfloxacin delivery systems. Journal of Controlled Release, 2006, 113, 236-244.	9.9	231
8	Timolol uptake and release by imprinted soft contact lenses made of N,N-diethylacrylamide and methacrylic acid. Journal of Controlled Release, 2002, 83, 223-230.	9.9	209
9	Soft Contact Lenses Capable of Sustained Delivery of Timolol. Journal of Pharmaceutical Sciences, 2002, 91, 2182-2192.	3.3	198
10	Cationic cellulose hydrogels: kinetics of the cross-linking process and characterization as pH-/ion-sensitive drug delivery systems. Journal of Controlled Release, 2003, 86, 253-265.	9.9	185
11	Temperature-sensitive chitosan-poly(N-isopropylacrylamide) interpenetrated networks with enhanced loading capacity and controlled release properties. Journal of Controlled Release, 2005, 102, 629-641.	9.9	182
12	Chemically cross-linked and grafted cyclodextrin hydrogels: From nanostructures to drug-eluting medical devices. Advanced Drug Delivery Reviews, 2013, 65, 1188-1203.	13.7	168
13	Reversible adsorption by a pH- and temperature-sensitive acrylic hydrogel. Journal of Controlled Release, 2002, 80, 247-257.	9.9	163
14	The nature of backbone monomers determines the performance of imprinted soft contact lenses as timolol drug delivery systems. Biomaterials, 2004, 25, 1105-1113.	11.4	163
15	Cyclodextrin-based nanogels for pharmaceutical and biomedical applications. International Journal of Pharmaceutics, 2012, 428, 152-163.	5.2	160
16	Semi-solid extrusion 3D printing in drug delivery and biomedicine: Personalised solutions for healthcare challenges. Journal of Controlled Release, 2021, 332, 367-389.	9.9	157
17	To Remove or Not to Remove? The Challenge of Extracting the Template to Make the Cavities Available in Molecularly Imprinted Polymers (MIPs). International Journal of Molecular Sciences, 2011, 12, 4327-4347.	4.1	156
18	Soft contact lenses functionalized with pendant cyclodextrins for controlled drug delivery. Biomaterials, 2009, 30, 1348-1355.	11.4	147

#	Article	IF	Citations
19	Improving the Loading and Release of NSAIDs from pHEMA Hydrogels by Copolymerization with Functionalized Monomers. Journal of Pharmaceutical Sciences, 2007, 96, 802-813.	3.3	144
20	Controlling Drug Release from Imprinted Hydrogels by Modifying the Characteristics of the Imprinted Cavities. Macromolecular Bioscience, 2005, 5, 728-733.	4.1	143
21	Supramolecular cyclodextrin-based drug nanocarriers. Chemical Communications, 2015, 51, 6275-6289.	4.1	142
22	Vancomycin-loaded chitosan aerogel particles for chronic wound applications. Carbohydrate Polymers, 2019, 204, 223-231.	10.2	136
23	Self-Associative Behavior and Drug-Solubilizing Ability of Poloxamine (Tetronic) Block Copolymers. Langmuir, 2008, 24, 10688-10697.	3.5	130
24	Poly(hydroxyethyl methacrylate-co-methacrylated-Î²-cyclodextrin) hydrogels: Synthesis, cytocompatibility, mechanical properties and drug loading/release properties. Acta Biomaterialia, 2008, 4, 745-755.	8.3	127
25	Polymer Gels That Memorize Elements of Molecular Conformation. Macromolecules, 2000, 33, 8693-8697.	4.8	126
26	Aerogels in drug delivery: From design to application. Journal of Controlled Release, 2021, 332, 40-63.	9.9	123
27	PEO-PPO Block Copolymers for Passive Micellar Targeting and Overcoming Multidrug Resistance in Cancer Therapy. Current Drug Targets, 2011, 12, 1112-1130.	2.1	117
28	Bioinspired Imprinted PHEMA-Hydrogels for Ocular Delivery of Carbonic Anhydrase Inhibitor Drugs. Biomacromolecules, 2011, 12, 701-709.	5.4	113
29	Solubilization and stabilization of camptothecin in micellar solutions of pluronic-g-poly(acrylic acid) copolymers. Journal of Controlled Release, 2004, 97, 537-549.	9.9	105
30	Contact Lenses for Drug Delivery. American Journal of Drug Delivery, 2006, 4, 131-151.	0.6	105
31	New Cyclodextrin Hydrogels Cross-Linked with Diglycidylethers with a High Drug Loading and Controlled Release Ability. Pharmaceutical Research, 2006, 23, 121-130.	3.5	103
32	Tetronic micellization, gelation and drug solubilization: Influence of pH and ionic strength. European Journal of Pharmaceutics and Biopharmaceutics, 2007, 66, 244-252.	4.3	101
33	Acrylic/cyclodextrin hydrogels with enhanced drug loading and sustained release capability. International Journal of Pharmaceutics, 2006, 312, 66-74.	5.2	100
34	Supercritical fluid-assisted preparation of imprinted contact lenses for drug delivery. Acta Biomaterialia, 2011, 7, 1019-1030.	8.3	99
35	Poloxamer 407/TPGS Mixed Micelles as Promising Carriers for Cyclosporine Ocular Delivery. Molecular Pharmaceutics, 2018, 15, 571-584.	4.6	99
36	Incorporation of small quantities of surfactants as a way to improve the rheological and diffusional behavior of carbopol gels. Journal of Controlled Release, 2001, 77, 59-75.	9.9	97

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37	Synthesis of Temperature-Responsive Dextran-MA/PNIPAAm Particles for Controlled Drug Delivery Using Superhydrophobic Surfaces. Pharmaceutical Research, 2011, 28, 1294-1305.	3.5	96
38	Estradiol sustained release from high affinity cyclodextrin hydrogelsâ˜†. European Journal of Pharmaceutics and Biopharmaceutics, 2007, 66, 55-62.	4.3	95
39	Superhydrophobic Chips for Cell Spheroids High-Throughput Generation and Drug Screening. ACS Applied Materials & Interfaces, 2014, 6, 9488-9495.	8.0	91
40	Î±-Lipoic Acid in Soluplus Â® Polymeric Nanomicelles for Ocular Treatment of Diabetes-Associated Corneal Diseases. Journal of Pharmaceutical Sciences, 2016, 105, 2855-2863.	3.3	91
41	Intracellular Biodegradation of Ag Nanoparticles, Storage in Ferritin, and Protection by a Au Shell for Enhanced Photothermal Therapy. ACS Nano, 2018, 12, 6523-6535.	14.6	91
42	Polymeric micelles for oral drug administration enabling locoregional and systemic treatments. Expert Opinion on Drug Delivery, 2015, 12, 297-318.	5.0	90
43	Processing of Materials for Regenerative Medicine Using Supercritical Fluid Technology. Bioconjugate Chemistry, 2015, 26, 1159-1171.	3.6	89
44	Intelligent Drug Delivery Systems: Polymeric Micelles and Hydrogels. Mini-Reviews in Medicinal Chemistry, 2008, 8, 1065-1074.	2.4	87
45	Anti-glaucoma drug-loaded contact lenses prepared using supercritical solvent impregnation. Journal of Supercritical Fluids, 2010, 53, 165-173.	3.2	86
46	Biodegradable electrospun nanofibers coated with platelet-rich plasma for cell adhesion and proliferation. Materials Science and Engineering C, 2014, 40, 180-188.	7.3	86
47	Stereolithography (SLA) 3D printing of a bladder device for intravesical drug delivery. Materials Science and Engineering C, 2021, 120, 111773.	7.3	83
48	Poloxamine-based nanomaterials for drug delivery. Frontiers in Bioscience - Elite, 2010, E2, 424-440.	1.8	82
49	Medical devices modified at the surface by Î³-ray grafting for drug loading and delivery. Expert Opinion on Drug Delivery, 2010, 7, 173-185.	5.0	82
50	Pharmacokinetics of cyclodextrins and drugs after oral and parenteral administration of drug/cyclodextrin complexes. Journal of Pharmacy and Pharmacology, 2016, 68, 544-555.	2.4	82
51	Interactions of ibuprofen with cationic polysaccharides in aqueous dispersions and hydrogels. European Journal of Pharmaceutical Sciences, 2003, 20, 429-438.	4.0	81
52	Î²-Cyclodextrin hydrogels for the ocular release of antibacterial thiosemicarbazones. Carbohydrate Polymers, 2013, 93, 449-457.	10.2	81
53	Syringeable Pluronicâ€“Î±-cyclodextrin supramolecular gels for sustained delivery of vancomycin. European Journal of Pharmaceutics and Biopharmaceutics, 2012, 80, 103-112.	4.3	80
54	Supercritical processing of starch aerogels and aerogel-loaded poly(Îµ-caprolactone) scaffolds for sustained release of ketoprofen for bone regeneration. Journal of CO2 Utilization, 2017, 18, 237-249.	6.8	80

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55	Multiple point adsorption in a heteropolymer gel and the Tanaka approach to imprinting: experiment and theory. Progress in Polymer Science, 2003, 28, 1489-1515.	24.7	78
56	Bioinspired hydrogels for drug-eluting contact lenses. Acta Biomaterialia, 2019, 84, 49-62.	8.3	77
57	Single and mixed poloxamine micelles as nanocarriers for solubilization and sustained release of ethoxzolamide for topical glaucoma therapy. Journal of the Royal Society Interface, 2012, 9, 2059-2069.	3.4	76
58	Imprinted Contact Lenses for Sustained Release of Polymyxin B and Related Antimicrobial Peptides. Journal of Pharmaceutical Sciences, 2015, 104, 3386-3394.	3.3	74
59	N-alkylation of poloxamines modulates micellar assembly and encapsulation and release of the antiretroviral efavirenz. European Journal of Pharmaceutics and Biopharmaceutics, 2010, 76, 24-37.	4.3	73
60	Hybrid Methacrylated Gelatin and Hyaluronic Acid Hydrogel Scaffolds. Preparation and Systematic Characterization for Prospective Tissue Engineering Applications. International Journal of Molecular Sciences, 2021, 22, 6758.	4.1	73
61	Polypropylene grafted with smart polymers (PNIPAAm/PAAc) for loading and controlled release of vancomycin. European Journal of Pharmaceutics and Biopharmaceutics, 2008, 70, 467-477.	4.3	72
62	Hydroxypropyl-Î²-cyclodextrin-based fast dissolving carbamazepine printlets prepared by semisolid extrusion 3D printing. Carbohydrate Polymers, 2019, 221, 55-62.	10.2	72
63	Preparation of chitosan beads by simultaneous cross-linking/insolubilisation in basic pH. European Journal of Pharmaceutical Sciences, 2005, 24, 77-84.	4.0	71
64	Soluplus micelles for acyclovir ocular delivery: Formulation and cornea and sclera permeability. International Journal of Pharmaceutics, 2018, 552, 39-47.	5.2	71
65	Soft contact lenses for controlled ocular delivery: 50 years in the making. Therapeutic Delivery, 2013, 4, 1141-1161.	2.2	70
66	A novel hanging spherical drop system for the generation of cellular spheroids and high throughput combinatorial drug screening. Biomaterials Science, 2015, 3, 581-585.	5.4	70
67	Reversible adsorption of calcium ions by imprinted temperature sensitive gels. Journal of Chemical Physics, 2001, 114, 2812-2816.	3.0	69
68	Poly(acrylic acid) microgels (carbopolÂ® 934)/surfactant interactions in aqueous media Part I: Nonionic surfactants. International Journal of Pharmaceutics, 2003, 258, 165-177.	5.2	69
69	Wound dressings loaded with an anti-inflammatory jucÃ¡ (Libidibia ferrea) extract using supercritical carbon dioxide technology. Journal of Supercritical Fluids, 2013, 74, 34-45.	3.2	69
70	Nanogels for regenerative medicine. Journal of Controlled Release, 2019, 313, 148-160.	9.9	68
71	A new era for sterilization based on supercritical CO₂ technology. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 399-428.	3.4	68
72	Effect of Reversible Cross-linker, N,Nâ€˜-Bis(acryloyl)cystamine, on Calcium Ion Adsorption by Imprinted Gels. Langmuir, 2001, 17, 4431-4436.	3.5	67

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73	Bioinspired drug delivery systems. Current Opinion in Biotechnology, 2013, 24, 1167-1173.	6.6	67
74	Cyclodextrins as versatile building blocks for regenerative medicine. Journal of Controlled Release, 2017, 268, 269-281.	9.9	67
75	Macromolecule release and smoothness of semi-interpenetrating PVPâ€“pHEMA networks for comfortable soft contact lenses. European Journal of Pharmaceutics and Biopharmaceutics, 2008, 69, 1094-1103.	4.3	63
76	Modulating drug release with cyclodextrins in hydroxypropyl methylcellulose gels and tablets. Journal of Controlled Release, 2004, 94, 351-363.	9.9	62
77	From the printer to the lungs: Inkjet-printed aerogel particles for pulmonary delivery. Chemical Engineering Journal, 2019, 357, 559-566.	12.7	62
78	Where Is Nano Today and Where Is It Headed? A Review of Nanomedicine and the Dilemma of Nanotoxicology. ACS Nano, 2022, 16, 9994-10041.	14.6	62
79	Additive manufacturing of scaffolds with dexamethasone controlled release for enhanced bone regeneration. International Journal of Pharmaceutics, 2015, 496, 541-550.	5.2	60
80	Dressings Loaded with Cyclodextrinâ€“Hamamelitannin Complexes Increase Staphylococcus aureus Susceptibility Toward Antibiotics Both in Single as well as in Mixed Biofilm Communities. Macromolecular Bioscience, 2016, 16, 859-869.	4.1	60
81	Chemical structure and glass transition temperature of non-ionic cellulose ethers. Journal of Thermal Analysis and Calorimetry, 2003, 73, 587-596.	3.6	59
82	Computational modeling and molecular imprinting for the development of acrylic polymers with high affinity for bile salts. Analytica Chimica Acta, 2010, 659, 178-185.	5.4	59
83	Synergistic performance of cyclodextrinâ€“agar hydrogels for ciprofloxacin delivery and antimicrobial effect. Carbohydrate Polymers, 2011, 85, 765-774.	10.2	59
84	Epalrestat-loaded silicone hydrogels as contact lenses to address diabetic-eye complications. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 122, 126-136.	4.3	59
85	Anti-biofilm multi drug-loaded 3D printed hearing aids. Materials Science and Engineering C, 2021, 119, 111606.	7.3	59
86	Biophysical Characterization of Complexation of DNA with Block Copolymers of Poly(2-dimethylaminoethyl) Methacrylate, Poly(ethylene oxide), and Poly(propylene oxide). Langmuir, 2005, 21, 5142-5148.	3.5	58
87	Dexamethasone eye drops containing Î³-cyclodextrin-based nanogels. International Journal of Pharmaceutics, 2013, 441, 507-515.	5.2	58
88	Controlled release of estradiol solubilized in carbopol/surfactant aggregates. Journal of Controlled Release, 2003, 93, 319-330.	9.9	57
89	Molecularly imprinted materials as advanced excipients for drug delivery systems. Biotechnology Annual Review, 2006, 12, 225-268.	2.1	57
90	Hot melt poly-Îµ-caprolactone/poloxamine implantable matrices for sustained delivery of ciprofloxacin. Acta Biomaterialia, 2012, 8, 1507-1518.	8.3	57

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91	Topical application of polymeric nanomicelles in ophthalmology: a review on research efforts for the noninvasive delivery of ocular therapeutics. Expert Opinion on Drug Delivery, 2019, 16, 397-413.	5.0	57
92	Cyclodextrin-functionalized biomaterials loaded with miconazole prevent Candida albicans biofilm formation in vitro. Acta Biomaterialia, 2010, 6, 1398-1404.	8.3	56
93	Microviscosity of hydroxypropylcellulose gels as a basis for prediction of drug diffusion rates. International Journal of Pharmaceutics, 1999, 180, 91-103.	5.2	55
94	Cross-linked hydroxypropyl-Î²-cyclodextrin and Î³-cyclodextrin nanogels for drug delivery: Physicochemical and loading/release properties. Carbohydrate Polymers, 2012, 87, 2344-2351.	10.2	55
95	Hydrophobically Modified Keratin Vesicles for GSH-Responsive Intracellular Drug Release. Bioconjugate Chemistry, 2015, 26, 1900-1907.	3.6	54
96	3D printed carboxymethyl cellulose scaffolds for autologous growth factors delivery in wound healing. Carbohydrate Polymers, 2022, 278, 118924.	10.2	54
97	Dexamethasone-loaded poly(É›-caprolactone)/silica nanoparticles composites prepared by supercritical CO2 foaming/mixing and deposition. International Journal of Pharmaceutics, 2013, 456, 269-281.	5.2	53
98	Bactericidal Core-Shell Paramagnetic Nanoparticles Functionalized with Poly(hexamethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462	3.5	51
99	Pectin-coated chitosan microgels crosslinked on superhydrophobic surfaces for 5-fluorouracil encapsulation. Carbohydrate Polymers, 2013, 98, 331-340.	10.2	51
100	Post-manufacture loading of filaments and 3D printed PLA scaffolds with prednisolone and dexamethasone for tissue regeneration applications. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 141, 100-110.	4.3	51
101	Stimuli-responsive materials in analytical separation. Analytical and Bioanalytical Chemistry, 2015, 407, 4927-4948.	3.7	50
102	PEOâ€“PPOâ€“PEO micelles as effective rAAV-mediated gene delivery systems to target human mesenchymal stem cells without altering their differentiation potency. Acta Biomaterialia, 2015, 27, 42-52.	8.3	50
103	scCO2-foamed silk fibroin aerogel/poly(Îµ-caprolactone) scaffolds containing dexamethasone for bone regeneration. Journal of CO2 Utilization, 2019, 31, 51-64.	6.8	49
104	Osteogenic efficiency of in situ gelling poloxamine systems with and without bone morphogenetic protein-2. , 2011, 21, 317-340.		49
105	Binding of Functionalized Paramagnetic Nanoparticles to Bacterial Lipopolysaccharides And DNA. Langmuir, 2010, 26, 8829-8835.	3.5	48
106	Rheological Evaluation of the Interactions between Cationic Celluloses and Carbopol 974P in Water. Biomacromolecules, 2001, 2, 886-893.	5.4	47
107	Polycationic Block Copolymers of Poly(ethylene oxide) and Poly(propylene oxide) for Cell Transfection. Bioconjugate Chemistry, 2005, 16, 626-633.	3.6	47
108	Poly-(cyclo)dextrins as ethoxzolamide carriers in ophthalmic solutions and in contact lenses. Carbohydrate Polymers, 2013, 98, 1343-1352.	10.2	47

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109	Biomimetic contact lenses eluting olopatadine for allergic conjunctivitis. Acta Biomaterialia, 2016, 41, 302-311.	8.3	47
110	Inhibition of P-glycoprotein pumps by PEOâ€“PPO amphiphiles: branched versus linear derivatives. Nanomedicine, 2010, 5, 1371-1383.	3.3	46
111	Antifouling foldable acrylic IOLs loaded with norfloxacin by aqueous soaking and by supercritical carbon dioxide technology. European Journal of Pharmaceutics and Biopharmaceutics, 2012, 82, 383-391.	4.3	46
112	Biomimetic Methodology to Produce Polymeric Multilayered Particles for Biotechnological and Biomedical Applications. Small, 2013, 9, 2487-2492.	10.0	46
113	pH/redox dual-sensitive dextran nanogels for enhanced intracellular drug delivery. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 117, 324-332.	4.3	46
114	Glass transitions and viscoelastic properties of CarbopolÂ® and NoveonÂ® compacts. International Journal of Pharmaceutics, 2004, 274, 233-243.	5.2	45
115	Hydrosoluble Cyclodextrin/Poloxamer Polypseudorotaxanes at the Air/Water Interface, in Bulk Solution, and in the Gel State. Journal of Physical Chemistry B, 2009, 113, 2773-2782.	2.6	45
116	Acrylic polymer-grafted polypropylene sutures for covalent immobilization or reversible adsorption of vancomycin. International Journal of Pharmaceutics, 2014, 461, 286-295.	5.2	44
117	Physicochemical and Transfection Properties of Cationic Hydroxyethylcellulose/DNA Nanoparticles. Biomacromolecules, 2006, 7, 2856-2862.	5.4	43
118	Electrospun Fibers of Cyclodextrins and Poly(cyclodextrins). Molecules, 2017, 22, 230.	3.8	43
119	Gallic acid loaded PEO-core/zein-shell nanofibers for chemopreventive action on gallbladder cancer cells. European Journal of Pharmaceutical Sciences, 2018, 119, 49-61.	4.0	43
120	Jet Cutting Technique for the Production of Chitosan Aerogel Microparticles Loaded with Vancomycin. Polymers, 2020, 12, 273.	4.5	43
121	Simultaneous Multiple-Point Adsorption of Aluminum Ions and Charged Molecules by a Polyampholyte Thermosensitive Gel:Â Controlling Frustrations in a Heteropolymer Gel. Langmuir, 2001, 17, 3616-3622.	3.5	42
122	Biofilm inhibition and drug-eluting properties of novel DMAEMA-modified polyethylene and silicone rubber surfaces. Biofouling, 2011, 27, 123-135.	2.2	42
123	Targeted Combinatorial Therapy Using Gold Nanostars as Theranostic Platforms. Journal of Physical Chemistry C, 2014, 118, 26313-26323.	3.1	42
124	Poloxamer-hydroxyethyl cellulose-Î±-cyclodextrin supramolecular gels for sustained release of griseofulvin. International Journal of Pharmaceutics, 2016, 500, 11-19.	5.2	42
125	Biodegradable PCL/fibroin/hydroxyapatite porous scaffolds prepared by supercritical foaming for bone regeneration. International Journal of Pharmaceutics, 2017, 527, 115-125.	5.2	42
126	Antimicrobial Properties and Osteogenicity of Vancomycin-Loaded Synthetic Scaffolds Obtained by Supercritical Foaming. ACS Applied Materials & Interfaces, 2018, 10, 3349-3360.	8.0	42

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127	Influence of polymer structure on the rheological behavior of hydroxypropylmethylcellulose-sodium carboxymethylcellulose dispersions. Colloid and Polymer Science, 2001, 279, 1045-1057.	2.1	41
128	Modification of medical grade PVC with N-vinylimidazole to obtain bactericidal surface. Radiation Physics and Chemistry, 2016, 119, 37-43.	2.8	41
129	Crosslinked Hyaluronan Electrospun Nanofibers for Ferulic Acid Ocular Delivery. Pharmaceutics, 2020, 12, 274.	4.5	41
130	Micelleplexes as nucleic acid delivery systems for cancer-targeted therapies. Journal of Controlled Release, 2020, 323, 442-462.	9.9	41
131	One-step electrospun scaffold of dual-sized gelatin/poly-3-hydroxybutyrate nano/microfibers for skin regeneration in diabetic wound. Materials Science and Engineering C, 2021, 119, 111602.	7.3	41
132	Novel interpenetrating smart polymer networks grafted onto polypropylene by gamma radiation for loading and delivery of vancomycin. European Polymer Journal, 2009, 45, 1859-1867.	5.4	40
133	Drug-Eluting Intraocular Lenses. Materials, 2011, 4, 1927-1940.	2.9	40
134	Hydrophilic acrylic hydrogels with built-in or pendant cyclodextrins for delivery of anti-glaucoma drugs. Carbohydrate Polymers, 2012, 88, 977-985.	10.2	40
135	Silicone rubber films functionalized with poly(acrylic acid) nanobrushes for immobilization of gold nanoparticles and photothermal therapy. Journal of Drug Delivery Science and Technology, 2017, 42, 245-254.	3.0	40
136	Temperature- and Light-Responsive Blends of Pluronic F127 and Poly(N,N-dimethylacrylamide-co-methacryloyloxyazobenzene). Langmuir, 2007, 23, 11475-11481.	3.5	39
137	Molecularly imprinted hydrogels as functional active packaging materials. Food Chemistry, 2016, 190, 487-494.	8.2	39
138	Magnetic Surfactants and Polymers with Gadolinium Counterions for Protein Separations. Langmuir, 2016, 32, 699-705.	3.5	39
139	Surface-modified bioresorbable electrospun scaffolds for improving hemocompatibility of vascular grafts. Materials Science and Engineering C, 2017, 75, 1115-1127.	7.3	39
140	Development of a non-toxic and non-denaturing formulation process for encapsulation of SDF-1Î± into PLGA/PEG-PLGA nanoparticles to achieve sustained release. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 125, 38-50.	4.3	39
141	Poly(acrylic acid) microgels (carbopolÂ® 934)/surfactant interactions in aqueous media Part II: Ionic surfactants. International Journal of Pharmaceutics, 2003, 258, 179-191.	5.2	38
142	Pluronic and Tetronic Copolymers with Polyglycolyzed Oils as Self-Emulsifying Drug Delivery Systems. AAPS PharmSciTech, 2008, 9, 471-479.	3.3	38
143	Cyclodextrin-functionalized polyethylene and polypropylene as biocompatible materials for diclofenac delivery. International Journal of Pharmaceutics, 2009, 382, 183-191.	5.2	38
144	Stimuli-responsive polymers for antimicrobial therapy: drug targeting, contact-killing surfaces and competitive release. Expert Opinion on Drug Delivery, 2016, 13, 1109-1119.	5.0	38

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145	PEO-PPO-PEO Carriers for rAAV-Mediated Transduction of Human Articular Chondrocytes in Vitro and in a Human Osteochondral Defect Model. ACS Applied Materials & Interfaces, 2016, 8, 20600-20613.	8.0	38
146	Growth factors delivery from hybrid PCL-starch scaffolds processed using supercritical fluid technology. Carbohydrate Polymers, 2016, 142, 282-292.	10.2	38
147	Sterile and Dual-Porous Aerogels Scaffolds Obtained through a Multistep Supercritical CO2-Based Approach. Molecules, 2019, 24, 871.	3.8	38
148	The adsorption of cellulose ethers in aqueous suspensions of pyrantel pamoate: effects on zeta potential and stability. European Journal of Pharmaceutics and Biopharmaceutics, 1998, 45, 181-188.	4.3	37
149	Receptor-based biomimetic NVP/DMA contact lenses for loading/eluting carbonic anhydrase inhibitors. Journal of Membrane Science, 2011, 383, 60-69.	8.2	37
150	Stimuliâ€“responsive networks grafted onto polypropylene for the sustained delivery of NSAIDs. Acta Biomaterialia, 2011, 7, 996-1008.	8.3	37
151	Antiviral Properties of Polymeric Aziridine- and Biguanide-Modified Coreâ€“Shell Magnetic Nanoparticles. Langmuir, 2012, 28, 4548-4558.	3.5	36
152	Antimicrobial silver-loaded polypropylene sutures modified by radiation-grafting. European Polymer Journal, 2018, 100, 290-297.	5.4	36
153	Guanidinylated Polyethyleneiminecˆ’Polyoxypropylenecˆ’Polyoxyethylene Conjugates as Gene Transfection Agents. Bioconjugate Chemistry, 2009, 20, 1044-1053.	3.6	35
154	Î³-Cyclodextrin hydrogels and semi-interpenetrating networks for sustained delivery of dexamethasone. Carbohydrate Polymers, 2010, 80, 900-907.	10.2	35
155	Poloxamine micellar solubilization of Î±-tocopherol for topical ocular treatment. Colloids and Surfaces B: Biointerfaces, 2013, 103, 550-557.	5.0	35
156	Supramolecular gels of poly-Î±-cyclodextrin and PEO-based copolymers for controlled drug release. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 87, 579-588.	4.3	35
157	Cyclodextrinâ€“Amphiphilic Copolymer Supramolecular Assemblies for the Ocular Delivery of Natamycin. Nanomaterials, 2019, 9, 745.	4.1	35
158	3D Printed Punctal Plugs for Controlled Ocular Drug Delivery. Pharmaceutics, 2021, 13, 1421.	4.5	35
159	Influence of cationic cellulose structure on its interactions with sodium dodecylsulfate: implications on the properties of the aqueous dispersions and hydrogels. European Journal of Pharmaceutics and Biopharmaceutics, 2003, 56, 133-142.	4.3	34
160	Cyclodextrin/carbopol micro-scale interpenetrating networks (ms-IPNs) for drug delivery. Journal of Controlled Release, 2007, 123, 56-66.	9.9	34
161	Biocompatible polymerâ€“metalâ€“organic framework composite patches for cutaneous administration of cosmetic molecules. Journal of Materials Chemistry B, 2016, 4, 7031-7040.	5.8	34
162	Cyclosporine-loaded cross-linked inserts of sodium hyaluronan and hydroxypropyl-Î²-cyclodextrin for ocular administration. Carbohydrate Polymers, 2018, 201, 308-316.	10.2	34

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163	Conformational Imprinting Effect on Stimuli-Sensitive Gels Made with an â€œImprinterâ€•MonomerÂ§. Macromolecules, 2001, 34, 7796-7803.	4.8	33
164	Modification of polyethylene films by radiation grafting of glycidyl methacrylate and immobilization of Î²-cyclodextrin. Radiation Physics and Chemistry, 2009, 78, 19-24.	2.8	33
165	Functionalization of acrylic hydrogels with Î±-, Î²- or Î³-cyclodextrin modulates protein adsorption and antifungal delivery. Acta Biomaterialia, 2010, 6, 3919-3926.	8.3	33
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