Edvani Muniz

List of Publications by Citations

247 papers	8,724 citations	50 h-index	79 g-index
265 ext. papers	9,745 ext. citations	5.4 avg, IF	6.13 L-index

#	Paper	IF	Citations
247	Superabsorbent hydrogels based on polysaccharides for application in agriculture as soil conditioner and nutrient carrier: A review. *European Polymer Journal*, **2015**, 72, 365-385	5.2	357
246	Chitosan-based hydrogels: From preparation to biomedical applications. *Carbohydrate Polymers*, **2018**, 196, 233-245	10.3	306
245	Chitosan-graft-poly(acrylic acid)/rice husk ash based superabsorbent hydrogel composite: preparation and characterization. *Journal of Polymer Research*, **2012**, 19, 1	2.7	264
244	Removal of methylene blue dye from an aqueous media using superabsorbent hydrogel supported on modified polysaccharide. *Journal of Colloid and Interface Science*, **2006**, 301, 55-62	9.3	237
243	Compressive Elastic Modulus of Polyacrylamide Hydrogels and Semi-IPNs with Poly(N-isopropylacrylamide). *Macromolecules*, **2001**, 34, 4480-4484	5.5	200
242	Superabsorbent hydrogel composite made of cellulose nanofibrils and chitosan-graft-poly(acrylic acid). *Carbohydrate Polymers*, **2012**, 87, 2038-2045	10.3	198
241	Antimicrobial activity of chitosan derivatives containing N-quaternized moieties in its backbone: a review. *International Journal of Molecular Sciences*, **2014**, 15, 20800-32	6.3	181
240	Recent advances in food-packing, pharmaceutical and biomedical applications of zein and zein-based materials. *International Journal of Molecular Sciences*, **2014**, 15, 22438-70	6.3	149
239	Novel adsorbent based on silkworm chrysalides for removal of heavy metals from wastewaters. *Journal of Colloid and Interface Science*, **2006**, 301, 479-87	9.3	139
238	Reaction of glycidyl methacrylate at the hydroxyl and carboxylic groups of poly(vinyl alcohol) and poly(acrylic acid): is this reaction mechanism still unclear?. *Journal of Organic Chemistry*, **2009**, 74, 3750-7	4.2	134
237	Synthesis of a novel superabsorbent hydrogel by copolymerization of acrylamide and cashew gum modified with glycidyl methacrylate. *Carbohydrate Polymers*, **2005**, 61, 464-471	10.3	122
236	Effect of magnetite on the adsorption behavior of Pb(II), Cd(II), and Cu(II) in chitosan-based hydrogels. *Desalination*, **2011**, 275, 187-196	10.3	117
235	Chitosan/TPP microparticles obtained by microemulsion method applied in controlled release of heparin. *International Journal of Biological Macromolecules*, **2012**, 51, 1127-33	7.9	103
234	Superabsorbent hydrogel nanocomposites based on starch-g-poly(sodium acrylate) matrix filled with cellulose nanowhiskers. *Cellulose*, **2012**, 19, 1225-1237	5.5	101
233	Characterization of N-trimethyl chitosan/alginate complexes and curcumin release. *International Journal of Biological Macromolecules*, **2013**, 57, 174-84	7.9	98
232	Nanocomposites based on poly(acrylamide-co-acrylate) and cellulose nanowhiskers. *European Polymer Journal*, **2012**, 48, 454-463	5.2	96
231	Fast dye removal from water by starch-based nanocomposites. *Journal of Colloid and Interface Science*, **2015**, 454, 200-9	9.3	93

230	Surface modification of HDPE, PP, and PET films with KMnO4/HCl solutions. *Polymer Degradation and Stability*, **2007**, 92, 1219-1226	4.7	89
229	Hydrogels based on PAAm network with PNIPAAm included: hydrophilicâ□hydrophobic transition measured by the partition of Orange II and Methylene Blue in water. *Polymer*, **2003**, 44, 4213-4219	3.9	83
228	Synthesis and characterization of pH-responsive hydrogels based on chemically modified Arabic gum polysaccharide. *Polymer*, **2006**, 47, 2023-2029	3.9	82
227	Characterization of polyelectrolytes complexes based on N,N,N-trimethyl chitosan/heparin prepared at different pH conditions. *Carbohydrate Polymers*, **2011**, 86, 1266-1272	10.3	81
226	Aplicaâ□s de fibras lignocelulâ□sicas na quâ□mica de polâ□meros e em compâ□sitos. *Quimica Nova*, **2009**, 32, 661-671	1.6	81
225	Superabsorbent hydrogel based on modified polysaccharide for removal of Pb2+ and Cu2+ from water with excellent performance. *Journal of Applied Polymer Science*, **2007**, 105, 2903-2909	2.9	80
224	Capacity of adsorption of Pb2+ and Ni2+ from aqueous solutions by chitosan produced from silkworm chrysalides in different degrees of deacetylation. *Journal of Hazardous Materials*, **2007**, 147, 139-47	12.8	80
223	Silver sulfadiazine loaded chitosan/chondroitin sulfate films for a potential wound dressing application. *Materials Science and Engineering C*, **2013**, 33, 588-95	8.3	78
222	Precipitation of â□carotene and PHBV and co-precipitation from SEDS technique using supercritical CO2. *Journal of Supercritical Fluids*, **2008**, 47, 259-269	4.2	78
221	Synthesis and characterization of a starch-modified hydrogel as potential carrier for drug delivery system. *Journal of Polymer Science Part A*, **2008**, 46, 2567-2574	2.5	76
220	Efficiency of hydrogels based on natural polysaccharides in the removal of Cd2+ ions from aqueous solutions. *Chemical Engineering Journal*, **2011**, 168, 68-76	14.7	75
219	Antiadhesive and antibacterial multilayer films via layer-by-layer assembly of TMC/heparin complexes. *Biomacromolecules*, **2012**, 13, 3711-22	6.9	74
218	Chitosan-sheath and chitin-core nanowhiskers. *Carbohydrate Polymers*, **2014**, 107, 158-66	10.3	69
217	Hydrogel based on an alginateâ□Ca2+/chondroitin sulfate matrix as a potential colon-specific drug delivery system. *RSC Advances*, **2012**, 2, 11095	3.7	65
216	Mathematical model for the prediction of the overall profile of in vitro solute release from polymer networks. *Journal of Colloid and Interface Science*, **2007**, 310, 128-35	9.3	64
215	Time- and pH-dependent self-rearrangement of a swollen polymer network based on polyelectrolytes complexes of chitosan/chondroitin sulfate. *Carbohydrate Polymers*, **2010**, 80, 934-943	10.3	63
214	Supercritical ethanolysis for biodiesel production from edible oil waste using ionic liquid [HMim][HSO4] as catalyst. *Applied Catalysis B: Environmental*, **2016**, 181, 289-297	21.8	62
213	Natural polymer-based magnetic hydrogels: Potential vectors for remote-controlled drug release. *Carbohydrate Polymers*, **2012**, 90, 1216-25	10.3	60

212	Chemical recycling of PET by catalyzed glycolysis: Kinetics of the heterogeneous reaction. *Chemical Engineering Journal*, **2011**, 173, 210-219	14.7	59
211	Characterization of PNIPAAm photografted on PET and PS surfaces. *Applied Surface Science*, **2005**, 245, 223-233	6.7	59
210	Porous alginate-Ca2+ hydrogels interpenetrated with PNIPAAm networks: Interrelationship between compressive stress and pore morphology. *European Polymer Journal*, **2005**, 41, 2845-2852	5.2	57
209	Synthesis and characterization of pectin derivative with antitumor property against Caco-2 colon cancer cells. *Carbohydrate Polymers*, **2015**, 115, 139-45	10.3	56
208	Starch-based microspheres for sustained-release of curcumin: preparation and cytotoxic effect on tumor cells. *Carbohydrate Polymers*, **2013**, 98, 711-20	10.3	56
207	Superabsorbent hydrogel composites with a focus on hydrogels containing nanofibers or nanowhiskers of cellulose and chitin. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	56
206	Preparation and Characterization of Zein and Zein-Chitosan Microspheres with Great Prospective of Application in Controlled Drug Release. *Journal of Nanomaterials*, **2011**, 2011, 1-6	3.2	56
205	Curcumin-loaded dual pH- and thermo-responsive magnetic microcarriers based on pectin maleate for drug delivery. *Carbohydrate Polymers*, **2017**, 171, 259-266	10.3	54
204	Scaffolds based on chitosan/pectin thermosensitive hydrogels containing gold nanoparticles. *International Journal of Biological Macromolecules*, **2017**, 102, 1186-1194	7.9	54
203	Thermo-sensitive hydrogels membranes from PAAm networks and entangled PNIPAAm: effect of temperature, cross-linking and PNIPAAm contents on the water uptake and permeability. *Reactive and Functional Polymers*, **2004**, 61, 233-243	4.6	53
202	Release of BSA from porous matrices constituted of alginateâCa2+ and PNIPAAm-interpenetrated networks. *Materials Science and Engineering C*, **2009**, 29, 2319-2325	8.3	52
201	Preparation and cytotoxicity of N-modified chitosan nanoparticles applied in curcumin delivery. *International Journal of Biological Macromolecules*, **2016**, 87, 237-45	7.9	51
200	Self-assembly of a swollen chitosan/chondroitin sulfate hydrogel by outward diffusion of the chondroitin sulfate chains. *Acta Biomaterialia*, **2009**, 5, 2601-9	10.8	51
199	Solvent effects on the miscibility of poly(methyl methacrylate)/poly(vinyl acetate) blends. *Polymer*, **1999**, 40, 5129-5135	3.9	51
198	Synthesis of a microhydrogel composite from cellulose nanowhiskers and starch for drug delivery. *Carbohydrate Polymers*, **2015**, 115, 715-22	10.3	50
197	Influence of temperature on the permeability of polyacrylamide hydrogels and semi-IPNs with poly(N-isopropylacrylamide). *Journal of Membrane Science*, **2000**, 172, 287-293	9.6	50
196	Hybrid materials for bone tissue engineering from biomimetic growth of hydroxiapatite on cellulose nanowhiskers. *Carbohydrate Polymers*, **2016**, 152, 734-746	10.3	49
195	Synthesis and characterization of hydrogels formed from a glycidyl methacrylate derivative of galactomannan. *International Journal of Pharmaceutics*, **2003**, 267, 13-25	6.5	49

194	pH-responsive alginate-based hydrogels for protein delivery. *Journal of Molecular Liquids*, **2018**, 262, 29-36	6	48
193	Development and application of chitosan/poly(vinyl alcohol) films for removal and recovery of Pb(II). *Chemical Engineering Journal*, **2012**, 183, 253-260	14.7	48
192	Polyelectrolyte complexes of chitosan/heparin and N,N,N-trimethyl chitosan/heparin obtained at different pH: I. Preparation, characterization, and controlled release of heparin. *Colloid and Polymer Science*, **2011**, 289, 1133-1144	2.4	48
191	Electrochemical and mechanical properties of hydrogels based on conductive poly(3,4-ethylene dioxythiophene)/poly(styrenesulfonate) and PAAm. *Polymer Testing*, **2006**, 25, 158-165	4.5	48
190	Preparation and cytotoxicity of N,N,N-trimethyl chitosan/alginate beads containing gold nanoparticles. *International Journal of Biological Macromolecules*, **2015**, 72, 466-71	7.9	46
189	Morphology and water affinity of superabsorbent hydrogels composed of methacrylated cashew gum and acrylamide with good mechanical properties. *Polymer*, **2005**, 46, 7867-7873	3.9	46
188	Optical and morphological characterization of polyacrylamide hydrogel and liquid crystal systems. *European Polymer Journal*, **2005**, 41, 2134-2141	5.2	44
187	Hydrolysis of post-consume poly(ethylene terephthalate) with sulfuric acid and product characterization by WAXD, 13C NMR and DSC. *Polymer Degradation and Stability*, **2006**, 91, 1326-1332	4.7	43
186	Polyacrylamide hydrogels and semi-interpenetrating networks (IPNs) with poly(N-isopropylacrylamide): mechanical properties by measure of compressive elastic modulus. *Journal of Materials Science: Materials in Medicine*, **2001**, 12, 879-81	4.5	43
185	(1)H NMR and (1)H-(13)C HSQC surface characterization of chitosan-chitin sheath-core nanowhiskers. *Carbohydrate Polymers*, **2015**, 123, 46-52	10.3	42
184	Albumin release from a brain-resembling superabsorbent magnetic hydrogel based on starch. *Soft Matter*, **2012**, 8, 6629	3.6	42
183	Synthesis and characterization of polyurethane composites of wood waste and polyols from chemically recycled pet. *Composites Part A: Applied Science and Manufacturing*, **2011**, 42, 189-195	8.4	42
182	Preparing silk fibroin nanofibers through electrospinning: further heparin immobilization toward hemocompatibility improvement. *Biomacromolecules*, **2014**, 15, 1762-7	6.9	41
181	Effect of starch type on miscibility in poly(ethylene oxide) (PEO)/starch blends and cytotoxicity assays. *Materials Science and Engineering C*, **2011**, 31, 443-451	8.3	41
180	Thermo-responsive sandwiched-like membranes of IPN-PNIPAAm/PAAm hydrogels. *Journal of Membrane Science*, **2006**, 275, 187-194	9.6	41
179	Novel thermo-responsive membranes composed of interpenetrated polymer networks of alginate-Ca2+ and poly(N-isopropylacrylamide). *Polymer*, **2005**, 46, 2668-2674	3.9	41
178	Chitosan/chondroitin sulfate hydrogels prepared in [Hmim][HSO] ionic liquid. *Carbohydrate Polymers*, **2017**, 170, 99-106	10.3	39
177	Cellulose nanowhiskers decorated with silver nanoparticles as an additive to antibacterial polymers membranes fabricated by electrospinning. *Journal of Colloid and Interface Science*, **2018**, 531, 705-715	9.3	39

176	PET and aluminum recycling from multilayer food packaging using supercritical ethanol. *Journal of Supercritical Fluids*, **2013**, 75, 138-143	4.2	39
175	Dual-network hydrogels based on chemically and physically crosslinked chitosan/chondroitin sulfate. *Reactive and Functional Polymers*, **2013**, 73, 1662-1671	4.6	39
174	Hydrogels based on chemically modified poly(vinyl alcohol) (PVA-GMA) and PVA-GMA/chondroitin sulfate: Preparation and characterization. *EXPRESS Polymer Letters*, **2012**, 6, 383-395	3.4	39
173	Reaction of pectin and glycidyl methacrylate and ulterior formation of free films by reticulation. *International Journal of Pharmaceutics*, **2008**, 355, 184-94	6.5	39
172	Thermo-sensitive IPN hydrogels composed of PNIPAAm gels supported on alginate-Ca2+ with LCST tailored close to human body temperature. *Polymer Testing*, **2006**, 25, 961-969	4.5	39
171	Miscibility of PVC/PEO blends by viscosimetric, microscopic and thermal analyses. *European Polymer Journal*, **2000**, 36, 583-589	5.2	39
170	Poly(acrylamide-co-acrylate)/rice husk ash hydrogel composites. II. Temperature effect on rice husk ash obtention. *Composites Part B: Engineering*, **2013**, 51, 246-253	10	38
169	Polyelectrolyte complexes based on pectinâNH2 and chondroitin sulfate. *Carbohydrate Polymers*, **2012**, 87, 1950-1955	10.3	38
168	Deposition of copper sulfide on modified low-density polyethylene surface: morphology and electrical characterization. *Applied Surface Science*, **2002**, 202, 223-231	6.7	37
167	N,N-Dimethyl chitosan/heparin polyelectrolyte complex vehicle for efficient heparin delivery. *International Journal of Biological Macromolecules*, **2015**, 75, 186-91	7.9	36
166	One-pot synthesis of a chitosan-based hydrogel as a potential device for magnetic biomaterial. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 2636-2642	2.8	36
165	Water affinity and permeability in membranes of alginate-Ca2+ containing poly(n-isopropylacrylamide). *Journal of Membrane Science*, **2002**, 210, 129-136	9.6	35
164	Structural, thermal, optical properties and cytotoxicity of PMMA/ZnO fibers and films: Potential application in tissue engineering. *Applied Surface Science*, **2016**, 385, 257-267	6.7	35
163	Polymer blends based on PEO and starch: Miscibility and spherulite growth rate evaluated through DSC and optical microscopy. *Materials Science and Engineering C*, **2009**, 29, 499-504	8.3	34
162	Phase behavior and process parameters effects on the characteristics of precipitated theophylline using carbon dioxide as antisolvent. *Journal of Supercritical Fluids*, **2008**, 44, 8-20	4.2	34
161	Hydrogel nanocomposite based on starch and Co-doped zinc ferrite nanoparticles that shows magnetic field-responsive drug release changes. *Journal of Molecular Liquids*, **2015**, 210, 100-105	6	33
160	Sulfated glycosaminoglycan-based block copolymer: preparation of biocompatible chondroitin sulfate-b-poly(lactic acid) micelles. *Biomacromolecules*, **2014**, 15, 2691-700	6.9	33
159	Adsorption and controlled release of potassium, phosphate and ammonia from modified Arabic gum-based hydrogel. *International Journal of Biological Macromolecules*, **2017**, 105, 363-369	7.9	33

158	Correlation of dye solubility in supercritical carbon dioxide. *Journal of Supercritical Fluids*, **2007**, 40, 163-169	4.2	33
157	Grafting of glycidyl methacrylate onto polypropylene using supercritical carbon dioxide. *European Polymer Journal*, **2005**, 41, 2176-2182	5.2	33
156	Chondroitin sulfate immobilization at the surface of electrospun nanofiber meshes for cartilage tissue regeneration approaches. *Applied Surface Science*, **2017**, 403, 112-125	6.7	32
155	Polyelectrolyte complexes based on alginate/tanfloc: Optimization, characterization and medical application. *International Journal of Biological Macromolecules*, **2017**, 103, 129-138	7.9	31
154	Polyelectrolyte complexes of poly[(2-dimethylamino) ethyl methacrylate]/chondroitin sulfate obtained at different pHs: I. Preparation, characterization, cytotoxicity and controlled release of chondroitin sulfate. *International Journal of Pharmaceutics*, **2014**, 477, 197-207	6.5	31
153	Glyco-Nanoparticles Made from Self-Assembly of Maltoheptaose-block-Poly(methyl methacrylate): Micelle, Reverse Micelle, and Encapsulation. *Biomacromolecules*, **2015**, 16, 2012-24	6.9	31
152	Polyelectrolyte complex containing silver nanoparticles with antitumor property on Caco-2 colon cancer cells. *International Journal of Biological Macromolecules*, **2015**, 79, 748-55	7.9	31
151	Synthesis and water absorption transport mechanism of a pH-sensitive polymer network structured on vinyl-functionalized pectin. *Biomacromolecules*, **2009**, 10, 190-6	6.9	31
150	Depolymerization of poly(ethylene terephthalate) wastes using ethanol and ethanol/water in supercritical conditions. *Journal of Applied Polymer Science*, **2006**, 101, 2009-2016	2.9	31
149	Composite materials based on chitosan/gold nanoparticles: From synthesis to biomedical applications. *International Journal of Biological Macromolecules*, **2020**, 161, 977-998	7.9	30
148	Bactericidal activity of hydrogel beads based on N,N,N-trimethyl chitosan/alginate complexes loaded with silver nanoparticles. *Chinese Chemical Letters*, **2015**, 26, 1129-1132	8.1	30
147	Effects of europium (III) acetylacetonate doping on the miscibility and photoluminescent properties of polycarbonate and poly(methyl methacrylate) blends. *Polymer*, **2005**, 46, 253-259	3.9	30
146	Antibacterial Performance of a PCL-PDMAEMA Blend Nanofiber-Based Scaffold Enhanced with Immobilized Silver Nanoparticles. *ACS Applied Materials & Interfaces*, **2017**, 9, 9304-9314	9.5	29
145	Nanoparticles Made From Xyloglucan-Block-Polycaprolactone Copolymers: Safety Assessment for Drug Delivery. *Toxicological Sciences*, **2015**, 147, 104-15	4.4	29
144	Shielding effect of Surface ion pairsSon physicochemical and bactericidal properties of N,N,N-trimethyl chitosan salts. *Carbohydrate Research*, **2015**, 402, 252-60	2.9	29
143	Thermo- and pH-sensitive IPN hydrogels based on PNIPAAm and PVA-Ma networks with LCST tailored close to human body temperature. *Materials Science and Engineering C*, **2012**, 32, 1259-1265	8.3	29
142	Synthesis of hollow-structured nano- and microspheres from pectin in a nanodroplet emulsion. *Langmuir*, **2009**, 25, 2473-8	4	29
141	Advanced fibroblast proliferation inhibition for biocompatible coating by electrostatic layer-by-layer assemblies of heparin and chitosan derivatives. *Journal of Colloid and Interface Science*, **2016**, 474, 9-17	9.3	29

140	Analysis of poly(N-isopropylacrylamide) grafted onto the surface of PET films by SI-ATRP technique. *Materials Science and Engineering C*, **2009**, 29, 594-598	8.3	28
139	Polysaccharide-Based Materials Associated with or Coordinated to Gold Nanoparticles: Synthesis and Medical Application. *Current Medicinal Chemistry*, **2017**, 24, 2701-2735	4.3	28
138	Synthesis and controlled curcumin supramolecular complex release from pH-sensitive modified gum-arabic-based hydrogels. *RSC Advances*, **2015**, 5, 94519-94533	3.7	27
137	Maleimide immobilized on a PE surface: preparation, characterization and application as a free-radical photoinitiator. *Langmuir*, **2009**, 25, 873-80	4	27
136	Multiple hydrophilic polymer ultra-thin layers covalently anchored to polyethylene films. *Polymer*, **2008**, 49, 4066-4075	3.9	27
135	Recent Advances in Designing Hydrogels from Chitin and Chitin-Derivatives and their Impact on Environment and Agriculture: A Review. *Revista Virtual De Quimica*, **2017**, 9, 370-386	1.3	27
134	Chitosan/gellan gum ratio content into blends modulates the scaffolding capacity of hydrogels on bone mesenchymal stem cells. *Materials Science and Engineering C*, **2020**, 106, 110258	8.3	27
133	Synthesis, characterization and sorption studies of aromatic compounds by hydrogels of chitosan blended with □cyclodextrin- and PVA-functionalized pectin.. *RSC Advances*, **2018**, 8, 14609-14622	3.7	26
132	Extent of shielding by counterions determines the bactericidal activity of N,N,N-trimethyl chitosan salts. *Carbohydrate Polymers*, **2016**, 137, 418-425	10.3	26
131	PET depolymerisation in supercritical ethanol catalysed by [Bmim][BF4]. *RSC Advances*, **2014**, 4, 20308-20316	3.7	26
130	Temperature and pH effects on the stability and rheological behavior of the aqueous suspensions of smart polymers based on N-isopropylacrylamide, chitosan, and acrylic acid. *Journal of Applied Polymer Science*, **2013**, 129, 334-345	2.9	26
129	Kinetic study of Chondroitin Sulphate release from Chondroitin Sulphate/Chitosan complex hydrogel. *Journal of Molecular Liquids*, **2010**, 156, 28-32	6	24
128	Miscibility of PVC/EVA hydrolysed blends by viscosimetric, microscopic and thermal analysis. *European Polymer Journal*, **1997**, 33, 1651-1658	5.2	24
127	Incorporation of disperse dye in N,N-dimethylacrylamide modified poly(ethylene terephthalate) fibers with supercritical CO2. *Journal of Supercritical Fluids*, **2001**, 19, 177-185	4.2	24
126	Curcumin and silver nanoparticles carried out from polysaccharide-based hydrogels improved the photodynamic properties of curcumin through metal-enhanced singlet oxygen effect. *Materials Science and Engineering C*, **2020**, 112, 110853	8.3	23
125	Effect of stoichiometry and pH on the structure and properties of Chitosan/Chondroitin sulfate complexes. *Colloid and Polymer Science*, **2011**, 289, 1739-1748	2.4	23
124	Adhesion, growth and detachment of cells on modified polystyrene surface. *Cytotechnology*, **2001**, 36, 49-53	2.2	23
123	Polysaccharide-based adsorbents prepared in ionic liquid with high performance for removing Pb(II) from aqueous systems. *Carbohydrate Polymers*, **2019**, 215, 272-279	10.3	22

122	In situ growth of manganese oxide nanosheets over titanium dioxide nanofibers and their performance as active material for supercapacitor. *Journal of Colloid and Interface Science*, **2019**, 555, 373-382	9.3	22
121	Preparation and characterization of hydrophilic, spectroscopic, and kinetic properties of hydrogels based on polyacrylamide and methylcellulose polysaccharide. *Journal of Applied Polymer Science*, **2011**, 120, 3004-3013	2.9	22
120	Polymer-polymer miscibility in PEO/cationic starch and PEO/hydrophobic starch blends. *EXPRESS Polymer Letters*, **2010**, 4, 488-499	3.4	22
119	Phase Behavior of Binary and Ternary Systems Involving Carbon Dioxide, Propane, and Glycidyl Methacrylate at High Pressure. *Journal of Chemical & Engineering Data*, **2006**, 51, 686-690	2.8	22
118	Spectroscopic properties of polycarbonate and poly(methyl methacrylate) blends doped with europium (III) acetylacetonate. *Journal of Luminescence*, **2006**, 117, 61-67	3.8	22
117	Solvent effects on the miscibility of PMMA/PVAc blends: II. Using two-dimensional NMR method, NOESY. *Polymer*, **2000**, 41, 933-945	3.9	22
116	A sensitive electrochemical sensor for Pb2+ ions based on ZnO nanofibers functionalized by L-cysteine. *Journal of Molecular Liquids*, **2020**, 309, 113041	6	22
115	Nanometer- and submicrometer-sized hollow spheres of chondroitin sulfate as a potential formulation strategy for anti-inflammatory encapsulation. *Pharmaceutical Research*, **2009**, 26, 438-44	4.5	21
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113	Synthesis and characterization of ZnO/PET composite using supercritical carbon dioxide impregnation technology. *Composites Part A: Applied Science and Manufacturing*, **2011**, 42, 757-761	8.4	20
112	Birefringent hydrogels based on PAAm and lyotropic liquid crystal: Optical, morphological and hydrophilic characterization. *European Polymer Journal*, **2006**, 42, 2781-2790	5.2	20
111	Chitosan/iota-carrageenan/curcumin-based materials performed by precipitating miscible solutions prepared in ionic liquid. *Journal of Molecular Liquids*, **2019**, 290, 111199	6	19
110	Drug release mechanisms of chemically cross-linked albumin microparticles: effect of the matrix erosion. *Colloids and Surfaces B: Biointerfaces*, **2014**, 122, 404-413	6	19
109	Synthesis and characterization of chitosan-graft-poly(acrylic acid)/nontronite hydrogel composites based on a design of experiments. *Journal of Applied Polymer Science*, **2013**, 128, 3480-3489	2.9	19
108	Synthesis, characterization, and cytotoxicity of TMC-graft-poly(vinyl alcohol) copolymers. *Carbohydrate Research*, **2013**, 381, 153-60	2.9	19
107	Superabsorbent hydrogel composed of covalently crosslinked gum arabic with fast swelling dynamics. *Journal of Applied Polymer Science*, **2008**, 107, 1500-1506	2.9	19
106	Hydroxyapatite nanowhiskers embedded in chondroitin sulfate microspheres as colon targeted drug delivery systems. *Journal of Materials Chemistry B*, **2015**, 3, 6837-6846	7.3	18
105	Hydrogels composite of poly(acrylamide-co-acrylate) and rice husk ash. I. Synthesis and characterization. *Journal of Applied Polymer Science*, **2012**, 123, 879-887	2.9	18

104	Addition of methacryloil groups to poly(vinyl alcohol) in DMSO catalyzed by TEMED: Optimization through response surface methodology. *Polymer Testing*, **2006**, 25, 377-383	4.5	18
103	The effect of methacrylation on the behavior of Gum Arabic as pH-responsive matrix for colon-specific drug delivery. *European Polymer Journal*, **2016**, 78, 326-339	5.2	18
102	Calcium Carbonate Crystallization on a Polyethylene Surface Containing Ultrathin Layers of Hydrophilic Polymers. *Crystal Growth and Design*, **2009**, 9, 3307-3312	3.5	17
101	Polychloroprene degradation by a Photo-Fenton process. *Polymer Degradation and Stability*, **2005**, 87, 425-432	4.7	17
100	First report of electrospun cellulose acetate nanofibers mats with chitin and chitosan nanowhiskers: Fabrication, characterization, and antibacterial activity. *Carbohydrate Polymers*, **2020** , 250, 116954	10.3	16
99	Electrospinning in the preparation of an electrochemical sensor based on carbon nanotubes. *Journal of Molecular Liquids*, **2020**, 298, 112068	6	16
98	Synthesis of Ag-PVA and Ag-PVA/PET-s20 composites by supercritical CO2 method and study of silver nanoparticle growth. *Journal of the Brazilian Chemical Society*, **2008**, 19, 1224-1229	1.5	15
97	Magnetic microspheres composite from poly(ethylene terephthalate) (PET) waste: Synthesis and characterization. *Journal of Cleaner Production*, **2018**, 198, 979-986	10.3	14
96	Polycaprolactone nanoparticles containing encapsulated progesterone prepared using a scCO2 emulsion drying technique. *Materials Letters*, **2014**, 124, 197-200	3.3	14
95	Release of DNA from cryogel PVA-DNA membranes. *EXPRESS Polymer Letters*, **2010**, 4, 480-487	3.4	14
94	Crystallisation and miscibility of poly(ethylene oxide)/poly(vinyl chloride) blends. *Journal of Materials Science*, **2003**, 38, 699-703	4.3	14
93	Oligomer production through glycolysis of poly(ethylene terephthalate): effects of temperature and water content on reaction extent. *Polymer International*, **2016**, 65, 1024-1030	3.3	14
92	Designing nanostructured microspheres with well-defined outlines by mixing carboxyl-functionalized amylose and magnetite via ultrasound. *Chemical Engineering Journal*, **2012**, 189-190, 456-463	14.7	13
91	Sustained release of potassium diclofenac from a pH-responsive hydrogel based on gum arabic conjugates into simulated intestinal fluid. *Journal of Applied Polymer Science*, **2016**, 133, n/a-n/a	2.9	12
90	Solid-state radical grafting reaction of glycidyl methacrylate and poly(4-methyl-1-pentene) in supercritical carbon dioxide: surface morphology and adhesion. *Journal of Colloid and Interface Science*, **2011**, 361, 331-7	9.3	12
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