Blanca Vzquez

List of Publications by Citations

128 papers	2,536 citations	28 h-index	44 g-index
132 ext. papers	2,802 ext. citations	6.4 avg, IF	4.77 L-index

#	Paper	IF	Citations
128	New partially degradable and bioactive acrylic bone cements based on starch blends and ceramic fillers. *Biomaterials*, **2002**, 23, 1883-95	15.6	141
127	Mechanical performance of acrylic bone cements containing different radiopacifying agents. *Biomaterials*, **2002**, 23, 1873-82	15.6	116
126	New starch-based thermoplastic hydrogels for use as bone cements or drug-delivery carriers. *Journal of Materials Science: Materials in Medicine*, **1998**, 9, 825-33	4.5	106
125	Water sorption of flexible networks based on 2-hydroxyethyl methacrylate-triethylenglycol dimethacrylate copolymers. *Polymer*, **1997**, 38, 5977-5982	3.9	104
124	New aspects of the effect of size and size distribution on the setting parameters and mechanical properties of acrylic bone cements. *Biomaterials*, **1996**, 17, 509-16	15.6	99
123	Polymeric Hydrophilic Hydrogels with Flexible Hydrophobic Chains. Control of the Hydration and Interactions with Water Molecules. *Macromolecules*, **1997**, 30, 8440-8446	5.5	78
122	From natural products to polymeric derivatives of "eugenol": a new approach for preparation of dental composites and orthopedic bone cements. *Biomacromolecules*, **2006**, 7, 2751-61	6.9	76
121	Role of amine activators on the curing parameters, properties and toxicity of acrylic bone cements. *Polymer International*, **1998**, 46, 241-250	3.3	60
120	Oxidized dextrins as alternative crosslinking agents for polysaccharides: application to hydrogels of agarose-chitosan. *Acta Biomaterialia*, **2014**, 10, 798-811	10.8	52
119	Application of tertiary amines with reduced toxicity to the curing process of acrylic bone cements. *Journal of Biomedical Materials Research Part B*, **1997**, 34, 129-36		52
118	Intrinsically antibacterial materials based on polymeric derivatives of eugenol for biomedical applications. *Biomacromolecules*, **2008**, 9, 2530-5	6.9	52
117	Optimization of benzoyl peroxide concentration in an experimental bone cement based on poly(methyl methacrylate). *Journal of Materials Science: Materials in Medicine*, **1997**, 8, 455-60	4.5	51
116	Surface modification tailors the characteristics of biomimetic coatings nucleated on starch-based polymers. *Journal of Materials Science: Materials in Medicine*, **1999**, 10, 827-35	4.5	50
115	Elimination of barium sulphate from acrylic bone cements. Use of two iodine-containing monomers. *Biomaterials*, **2003**, 24, 4071-80	15.6	44
114	Radiopaque acrylic cements prepared with a new acrylic derivative of iodo-quinoline. *Biomaterials*, **1999**, 20, 2047-53	15.6	44
113	Injectable self-curing bioactive acrylic-glass composites charged with specific anti-inflammatory/analgesic agent. *Biomaterials*, **2004**, 25, 2381-92	15.6	43
112	Analysis of the leaching and toxicity of new amine activators for the curing of acrylic bone cements and composites. *Biomaterials*, **1997**, 18, 15-20	15.6	39

111	Acrylic bone cements modified with beta-TCP particles encapsulated with poly(ethylene glycol). *Biomaterials*, **2005**, 26, 4309-16	15.6	35
110	Modified acrylic bone cement with high amounts of ethoxytriethyleneglycol methacrylate. *Biomaterials*, **1999**, 20, 453-63	15.6	35
109	Effect of the molecular architecture on the thermosensitive properties of chitosan-g-poly(N-vinylcaprolactam). *Carbohydrate Polymers*, **2015**, 134, 92-101	10.3	34
108	Chitosan-gelatin biopolymers as carrier substrata for limbal epithelial stem cells. *Journal of Materials Science: Materials in Medicine*, **2013**, 24, 2819-29	4.5	34
107	The effect of cross-linking agents on acrylic bone cements containing radiopacifiers. *Biomaterials*, **2001**, 22, 2177-81	15.6	34
106	Amine activators for the □ool□peroxide initiated polymerization of acrylic monomers. *Journal of Polymer Science Part A*, **1996**, 34, 2783-2789	2.5	34
105	Self-assembling polymer systems for advanced treatment of cancer and inflammation. *Progress in Polymer Science*, **2016**, 53, 207-248	29.6	33
104	Hydrogels based on graft copolymerization of HEMA/BMA mixtures onto soluble gelatin: swelling behaviour. *Polymer*, **1995**, 36, 2311-2314	3.9	31
103	Novel Bioactive and Antibacterial Acrylic Bone Cement Nanocomposites Modified with Graphene Oxide and Chitosan. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	30
102	Characterization of new acrylic bone cements prepared with oleic acid derivatives. *Journal of Biomedical Materials Research Part B*, **2002**, 63, 88-97		30
101	Bioadhesive functional hydrogels: Controlled release of catechol species with antioxidant and antiinflammatory behavior. *Materials Science and Engineering C*, **2019**, 105, 110040	8.3	29
100	Effect of crosslinking agents on acrylic bone cements based on poly(methylmethacrylate). *Journal of Biomedical Materials Research Part B*, **1997**, 37, 465-73		27
99	Self-curing acrylic formulations containing PMMA/PCL composites: properties and antibiotic release behavior. *Journal of Biomedical Materials Research Part B*, **2002**, 61, 66-74		26
98	Improvement of the mechanical properties of acrylic bone cements by substitution of the radio-opaque agent. *Journal of Materials Science: Materials in Medicine*, **1999**, 10, 733-7	4.5	26
97	Polymeric drugs based on bioactive glycosides for the treatment of brain tumours. *Biomaterials*, **2009**, 30, 1613-26	15.6	25
96	Foldable antibacterial acrylic intraocular lenses of high refractive index. *Biomacromolecules*, **2009**, 10, 3055-61	6.9	22
95	Comparative study on the properties of acrylic bone cements prepared with either aliphatic or aromatic functionalized methacrylates. *Biomaterials*, **2005**, 26, 4063-72	15.6	22
94	Hydrophilic acrylic biomaterials derived from vitamin E with antioxidant properties. *Journal of Biomedical Materials Research Part B*, **1999**, 45, 184-91		22

93	Injectable acrylic bone cements for vertebroplasty based on a radiopaque hydroxyapatite. Bioactivity and biocompatibility. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2009**, 88, 103-14	3.5	21
92	Eugenol functionalized poly(acrylic acid) derivatives in the formation of glass-ionomer cements. *Dental Materials*, **2008**, 24, 1709-16	5.7	21
91	New fully bio-based PLLA triblock copoly(ester urethane)s as potential candidates for soft tissue engineering. *Polymer Degradation and Stability*, **2016**, 132, 169-180	4.7	20
90	Reactivity of a polymerizable amine activator in the free radical copolymerization with methyl methacrylate and surface properties of copolymers. *Polymer*, **1997**, 38, 4365-4372	3.9	20
89	Application of long chain amine activator in conventional acrylic bone cement. *Journal of Biomedical Materials Research Part B*, **1998**, 43, 131-9		20
88	Analysis of graft copolymers onto starch by carbon-13 NMR spectroscopy. *Macromolecules*, **1992**, 25, 3009-3014	5.5	20
87	Glycerylphytate as an ionic crosslinker for 3D printing of multi-layered scaffolds with improved shape fidelity and biological features. *Biomaterials Science*, **2019**, 8, 506-516	7.4	20
86	A pH-sensitive hydrogel based on poly(ethoxy triethylene glycol monomethacrylate). *Polymer*, **1995** , 36, 3327-3333	3.9	19
85	Synthesis, characterization and properties of polyacrylic systems derived from vitamin E. *Polymer*, **1998**, 39, 4107-4114	3.9	18
84	Water absorption characteristics and cytotoxic and biological evaluation of bone cements formulated with a novel activator. *Journal of Biomedical Materials Research Part B*, **1999**, 48, 719-25		18
83	Synthesis and characterization of graft copolymers of methacrylonitrile/methacrylate mixtures onto amylomaize by the ceric ion method. *Journal of Polymer Science Part A*, **1992**, 30, 1541-1548	2.5	18
82	3D Printing of a Reactive Hydrogel Bio-Ink Using a Static Mixing Tool. *Polymers*, **2020**, 12,	4.5	18
81	Acrylic bone cements incorporating polymeric active components derived from salicylic acid: curing parameters and properties. *Journal of Materials Science: Materials in Medicine*, **1998**, 9, 679-85	4.5	17
80	Hydrogels based on graft copolymerization of 2-hydroxypropyl methacrylate/acrylate mixtures on amylose: swelling behaviour. *Polymer*, **1996**, 37, 1005-1011	3.9	16
79	Development of advanced biantibiotic loaded bone cement spacers for arthroplasty associated infections. *International Journal of Pharmaceutics*, **2017**, 522, 11-20	6.5	15
78	Eugenol derivatives immobilized in auto-polymerizing formulations as an approach to avoid inhibition interferences and improve biofunctionality in dental and orthopedic cements. *Acta Biomaterialia*, **2009**, 5, 1616-25	10.8	15
77	Synthesis of graft copolymers of acrylic monomers on amylose: Effect of reaction time. *European Polymer Journal*, **1992**, 28, 975-979	5.2	15
76	Biocompatibility of alendronate-loaded acrylic cement for vertebroplasty. *European Cells and Materials*, **2010**, 20, 260-73	4.3	15

75	Amphiphilic polymeric nanoparticles encapsulating curcumin: Antioxidant, anti-inflammatory and biocompatibility studies. *Materials Science and Engineering C*, **2021**, 121, 111793	8.3	15
74	Scaffolds based on hydroxypropyl starch: Processing, morphology, characterization, and biological behavior. *Journal of Applied Polymer Science*, **2013**, 127, 1475-1484	2.9	14
73	Relationship between the morphology of PMMA particles and properties of acrylic bone cements. *Journal of Materials Science: Materials in Medicine*, **1996**, 7, 375-379	4.5	14
72	Injectable hydrogel-based drug delivery system for cartilage regeneration. *Materials Science and Engineering C*, **2020**, 110, 110702	8.3	14
71	PHEMA-PLLA semi-interpenetrating polymer networks: A study of their swelling kinetics, mechanical properties and cellular behavior. *European Polymer Journal*, **2016**, 85, 150-163	5.2	13
70	Contribution of bioactive hyaluronic acid and gelatin to regenerative medicine. Methodologies of gels preparation and advanced applications. *European Polymer Journal*, **2017**, 95, 11-26	5.2	13
69	Injectable and self-curing composites of acrylic/bioactive glass and drug systems. A histomorphometric analysis of the behaviour in rabbits. *Biomaterials*, **2006**, 27, 1778-87	15.6	13
68	A study of the graft copolymerization of methacrylic acid onto starch using the H2O2/Fe++ redox system. *Journal of Polymer Science Part A*, **1989**, 27, 595-603	2.5	13
67	Biocompatible and bioadhesive low molecular weight polymers containing long-arm catechol-functionalized methacrylate. *European Polymer Journal*, **2018**, 98, 47-55	5.2	13
66	Amphiphilic self-assembled "polymeric drugs": morphology, properties, and biological behavior of nanoparticles. *Biomacromolecules*, **2012**, 13, 624-35	6.9	12
65	pH-sensitive hydrogels based on non-ionic acrylic copolymers. *Biomaterials*, **1997**, 18, 521-6	15.6	12
64	The preparation of high conversion polymeric systems containing eugenol residues and their rheological characterization. *Journal of Materials Science: Materials in Medicine*, **2008**, 19, 1467-77	4.5	12
63	Acrylic bone cements with bismuth salicylate: Behavior in simulated physiological conditions. *Journal of Biomedical Materials Research - Part A*, **2007**, 80, 321-32	5.4	11
62	Acrylic-phosphate glasses composites as self-curing controlled delivery systems of antibiotics. *Journal of Materials Science: Materials in Medicine*, **2002**, 13, 1251-7	4.5	11
61	Bioactive and Bioadhesive Catechol Conjugated Polymers for Tissue Regeneration. *Polymers*, **2018**, 10,	4.5	11
60	Self-curing controlled release systems for steroids. Application of prednisolone-based polymeric systems to ear diseases. *Biomaterials*, **2005**, 26, 3311-8	15.6	10
59	Microstructural analysis of methacrylonitrile-methyl methacrylate copolymers by carbon-13 NMR spectroscopy. *Macromolecules*, **1991**, 24, 6089-6094	5.5	10
58	Active viscosupplements for osteoarthritis treatment. *Seminars in Arthritis and Rheumatism*, **2019**, 49, 171-183	5.3	10

57	Conformational study on the thermal transition of chitosan-g-poly(N-vinylcaprolactam) in aqueous solution. *Colloid and Polymer Science*, **2016**, 294, 555-563	2.4	9
56	Glycerylphytate compounds with tunable ion affinity and osteogenic properties. *Scientific Reports*, **2019**, 9, 11491	4.9	9
55	Effects of plasma surface treatments of diamond-like carbon and polymeric substrata on the cellular behavior of human fibroblasts. *Journal of Biomaterials Applications*, **2013**, 27, 669-83	2.9	9
54	Combined influence of barium sulfate content and co-monomer concentration on properties of PMMA bone cements for vertebroplasty. *Journal of Biomaterials Science, Polymer Edition*, **2011**, 22, 1563-80	3.5	9
53	A novel acrylic copolymer for a poly(alkenoate) glass-ionomer cement. *Journal of Materials Science: Materials in Medicine*, **2003**, 14, 575-81	4.5	8
52	Graft copolymerization of ethyl acrylate with alkyl methacrylates onto amylose initiated by cerium (IV). Microstructure of graft copolymers with respect to statistical copolymers. *Polymer*, **1994**, 35, 1535-1541	3.9	8
51	Anti-staphylococcal hydrogels based on bacterial cellulose and the antimicrobial biopolyester poly(3-hydroxy-acetylthioalkanoate-co-3-hydroxyalkanoate). *International Journal of Biological Macromolecules*, **2020**, 162, 1869-1879	7.9	8
50	Microfluidics generation of chitosan microgels containing glycerylphytate crosslinker for in situ human mesenchymal stem cells encapsulation. *Materials Science and Engineering C*, **2021**, 120, 111716	8.3	8
49	Modulation of Inflammatory Mediators by Polymeric Nanoparticles Loaded with Anti-Inflammatory Drugs. *Pharmaceutics*, **2021**, 13,	6.4	8
48	Bioactive Sr(II)/Chitosan/Poly(ε-caprolactone) Scaffolds for Craniofacial Tissue Regeneration. In Vitro and In Vivo Behavior. *Polymers*, **2018**, 10,	4.5	7
47	Micro-structured 3D-electrospun scaffolds of biodegradable block copolymers for soft tissue regeneration. *European Polymer Journal*, **2017**, 94, 33-42	5.2	7
46	Bioactive Chitosan Nanoparticles Loaded with Retinyl Palmitate: A Simple Route Using Ionotropic Gelation. *Macromolecular Chemistry and Physics*, **2015**, 216, 1321-1332	2.6	7
45	Clinical and pathological effects of different acrylic intracorneal ring segments in corneal additive surgery. *Acta Biomaterialia*, **2010**, 6, 2572-9	10.8	7
44	Acrylic injectable and self-curing formulations for the local release of bisphosphonates in bone tissue. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2007**, 83, 596-608	3.5	7
43	Water-soluble esters of biosynthetic poly(γ-glutamic acid). *Journal of Applied Polymer Science*, **2001**, 82, 2027-2036	2.9	7
42	Polylactic-co-glycolic acid microspheres added to fixative cements and its role on bone infected architecture. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2019**, 107, 2517-2526	3.5	6
41	The use of smart polymers in medical devices for minimally invasive surgery, diagnosis and other applications **2014**, 359-407		6
40	Amphiphilic polysaccharide nanocarriers with antioxidant properties. *Journal of Bioactive and Compatible Polymers*, **2014**, 29, 589-606	2	6

39	Polymeric systems containing dual biologically active ions. *European Journal of Medicinal Chemistry*, **2011**, 46, 4980-91	6.8	6
38	Comparative methods for the evaluation of protein adsorption. *Macromolecular Bioscience*, **2009**, 9, 661-70	3.9	6
37	Biological response of new activated acrylic bone cements with antiseptic properties. Histomorphometric analysis. *Journal of Materials Science: Materials in Medicine*, **2007**, 18, 933-41	4.5	6
36	Evaluation of Glycerylphytate Crosslinked Semi- and Interpenetrated Polymer Membranes of Hyaluronic Acid and Chitosan for Tissue Engineering. *Polymers*, **2020**, 12,	4.5	6
35	Oregano Essential Oil Micro- and Nanoencapsulation With Bioactive Properties for Biotechnological and Biomedical Applications. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 703684	5.8	6
34	Glycerylphytate crosslinker as a potential osteoinductor of chitosan-based systems for guided bone regeneration. *Carbohydrate Polymers*, **2020**, 241, 116269	10.3	5
33	Polymeric Nanoparticles for Cancer Therapy and Bioimaging. *Nanomedicine and Nanotoxicology*, **2018**, 137-172	0.3	5
32	Mechanical properties of a modified acrylic bone cement with etoxytriethyleneglycol monomethacrylate. *Journal of Materials Science: Materials in Medicine*, **1995**, 6, 793-798	4.5	5
31	Development of Biocomposite Polymeric Systems Loaded with Antibacterial Nanoparticles for the Coating of Polypropylene Biomaterials. *Polymers*, **2020**, 12,	4.5	5
30	Chitosan - Rosmarinic acid conjugates with antioxidant, anti-inflammatory and photoprotective properties. *Carbohydrate Polymers*, **2021**, 273, 118619	10.3	5
29	Amphiphilic Acrylic Nanoparticles Containing the Poloxamer Star Bayfit® 10WF15 as Ophthalmic Drug Carriers. *Polymers*, **2019**, 11,	4.5	4
28	Polymeric drugs based on random copolymers with antimitotic activity. *Biomacromolecules*, **2010**, 11, 2478-86	6.9	4
27	Osseointegration of Antimicrobial Acrylic Bone Cements Modified with Graphene Oxide and Chitosan. *Applied Sciences (Switzerland)*, **2020**, 10, 6528	2.6	4
26	Experimental study of the application of a new bone cement loaded with broad spectrum antibiotics for the treatment of bone infection. *Revista Española De Cirugía Ortopédica Y Traumatología*, **2019**, 63, 95-103	0.4	4
25	Experimental study of the application of a new bone cement loaded with broad spectrum antibiotics for the treatment of bone infection. *Revista Española De Cirugía Ortopédica Y Traumatología*, **2019**, 63, 95-103	0.4	3
24	Random co-polymers based on the poloxamer Bayfit® 10WF15 for biomedical applications. *Journal of Biomaterials Science, Polymer Edition*, **2011**, 22, 1895-916	3.5	3
23	Modifications of bone cements **2008**, 332-357		3
22	Poly(methylmethacrylate) bone cement: chemical composition and chemistry **2008**, 183-205		3

21	In Vitro and In Vivo Behaviour of Bioactive Glass Composites Bearing a NSAID. *Key Engineering Materials*, **2003**, 254-256, 177-180	0.4	3
20	Surface Modification of Calcium Hydroxyfluor Carbonate Apatites by Bisphosphonates. *Key Engineering Materials*, **2005**, 284-286, 357-360	0.4	3
19	Hydrophilic polymers derived from vitamin E. *Journal of Biomaterials Applications*, **2000**, 15, 118-39	2.9	3
18	Microstructure of copolymers of methacrylonitrile/n-alkyl methacrylate mixtures grafted onto amylomaize by carbon-13 NMR spectroscopy. *Macromolecules*, **1993**, 26, 4298-4303	5.5	3
17	Synthesis of graft copolymers of acrylic monomers onto amylose. II. Study of the ceric ion behavior. *Journal of Applied Polymer Science*, **1992**, 45, 981-986	2.9	3
16	A study on partially biodegradable microparticles as carriers of active glycolipids. *Acta Biomaterialia* , **2010**, 6, 1360-9	10.8	2
15	Bulk copolymerization of methacrylonitrile with n-alkyl methacrylates: rate of copolymerization and reactivity ratios. *Polymer*, **1992**, 33, 1999-2002	3.9	2
14	Hydrophilic Polymers Derived from Vitamin E. *Journal of Biomaterials Applications*, **2000**, 14, 367-388	2.9	2
13	Characterization of Novel Synthetic Polyphenols: Validation of Antioxidant and Vasculoprotective Activities. *Antioxidants*, **2020**, 9,	7.1	2
12	Development of bioresorbable bilayered systems for application as affordable wound dressings. *Journal of Bioactive and Compatible Polymers*, **2016**, 31, 624-647	2	2
11	Incorporation of 2nd and 3rd Generation Bisphosphonates on Hydroxyfluorapatite. *Key Engineering Materials*, **2006**, 309-311, 899-902	0.4	1
10	Effect of the length of n-alkyl side groups on the microstructure and stereochemistry of methacrylonitrile-alkyl methacrylate copolymers synthesized by free radical polymerization. *Polymer*, **1993**, 34, 1755-1760	3.9	1
9	Development of bioactive catechol functionalized nanoparticles applicable for 3D bioprinting. *Materials Science and Engineering C*, **2021**, 131, 112515	8.3	1
8	Vitamin B9 derivatives as carriers of bioactive cations for musculoskeletal regeneration applications: Synthesis, characterization and biological evaluation. *European Journal of Medicinal Chemistry*, **2021**, 212, 113152	6.8	0
7	DEAE-chitosan nanoparticles as a pneumococcus-biomimetic material for the development of antipneumococcal therapeutics. *Carbohydrate Polymers*, **2021**, 273, 118605	10.3	0
6	Self-Curing Systems for Regenerative Medicine **2015**, 207-233		
5	Non-ionizable Polyacrylic Hydrogels Sensitive to pH for Biomedical Applications. *Polymer International*, **1997**, 43, 182-186	3.3	
4	Preparation of Targeting Vehicles for The Delivery of N-Bisphosphonates. *Key Engineering Materials* , **2007**, 330-332, 1041-1044	0.4	

List of Publications

3 Modulated Surface Energy Biomaterials: Preparation and Applications4815-4846

2 Resorbable Polymeric Delivery Systems6973-6985

1 Preparation and Applications of Modulated Surface Energy Biomaterials **2013**, 495-538