Marilo Gurruchaga

List of Publications by Year
in descending order

76	1,565	304743	395702
papers	citations	22 h-index	33 g-index

76	76	76	1413
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	New aspects of the effect of size and size distribution on the setting parameters and mechanical properties of acrylic bone cements. Biomaterials, 1996, 17, 509-516.	11.4	108
2	Application of tertiary amines with reduced toxicity to the curing process of acrylic bone cements. , 1997, 34, 129-136.		55
3	Synthesis and characterization of silica-chitosan hybrid materials as antibacterial coatings for titanium implants. Carbohydrate Polymers, 2019, 203, 331-341.	10.2	54
4	Study of the degradation of hybrid solâ€“gel coatings in aqueous medium. Progress in Organic Coatings, 2014, 77, 1799-1806.	3.9	53
5	Elimination of barium sulphate from acrylic bone cements. Use of two iodine-containing monomers. Biomaterials, 2003, 24, 4071-4080.	11.4	45
6	Proteome analysis of human serum proteins adsorbed onto different titanium surfaces used in dental implants. Biofouling, 2017, 33, 98-111.	2.2	45
7	Graft polymerization of acrylic monomers onto starch fractions. I. Effect of reaction time on grafting methyl methacrylate onto amylose. Journal of Polymer Science: Polymer Chemistry Edition, 1983, 21, 2573-2580.	0.8	41
8	Preparation of acrylic bone cements for vertebroplasty with bismuth salicylate as radiopaque agent. Biomaterials, 2006, 27, 100-107.	11.4	40
9	Injectable acrylic bone cements for vertebroplasty based on a radiopaque hydroxyapatite. Formulation and rheological behaviour. Journal of Materials Science: Materials in Medicine, 2009, 20, 89-97.	3.6	39
10	Influence of the modification of P/L ratio on a new formulation of acrylic bone cement. Biomaterials, 1999, 20, 465-474.	11.4	37
11	Physical blends of starch graft copolymers as matrices for colon targeting drug delivery systems. Carbohydrate Polymers, 2009, 76, 593-601.	10.2	37
12	The influence of drying method on the physical properties of some graft copolymers for drug delivery systems. Carbohydrate Polymers, 1997, 34, 83-89.	10.2	36
13	Proteomic analysis of silica hybrid sol-gel coatings: a potential tool for predicting the biocompatibility of implants in vivo. Biofouling, 2017, 33, 676-689.	2.2	36
14	Hydrogels based on graft copolymerization of HEMA/BMA mixtures onto soluble gelatin: swelling behaviour. Polymer, 1995, 36, 2311-2314.	3.8	35
15	Modified acrylic bone cement with high amounts of ethoxytriethyleneglycol methacrylate. Biomaterials, 1999, 20, 453-463.	11.4	35
16	Control of the degradation of silica sol-gel hybrid coatings for metal implants prepared by the triple combination of alkoxysilanes. Journal of Non-Crystalline Solids, 2016, 453, 66-73.	3.1	31
17	New injectable and radiopaque antibiotic loaded acrylic bone cements. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 87B, 312-320.	3.4	30
18	Influence of powder particle size distribution on complex viscosity and other properties of acrylic bone cement for vertebroplasty and kyphoplasty. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2006, 77B, 98-103.	3.4	29

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19	Biological characterization of a new silicon based coating developed for dental implants. Journal of Materials Science: Materials in Medicine, 2016, 27, 80.	3.6	27
20	Bioactive potential of silica coatings and its effect on the adhesion of proteins to titanium implants. Colloids and Surfaces B: Biointerfaces, 2018, 162, 316-325.	5.0	25
21	Synthesis of Hydroxypropyl Methacrylate/Polysaccharide Graft Copolymers as Matrices for Controlled Release Tablets. Drug Development and Industrial Pharmacy, 2002, 28, 1101-1115.	2.0	24
22	The effect of strontium incorporation into sol-gel biomaterials on their protein adsorption and cell interactions. Colloids and Surfaces B: Biointerfaces, 2019, 174, 9-16.	5.0	24
23	Ethyl methacrylate grafted on two starches as polymeric matrices for drug delivery. Journal of Applied Polymer Science, 2005, 96, 523-536.	2.6	23
24	Injectable acrylic bone cements for vertebroplasty based on a radiopaque hydroxyapatite. Bioactivity and biocompatibility. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 88B, 103-114.	3.4	22
25	Development of hybrid solâ€“gel coatings for the improvement of metallic biomaterials performance. Progress in Organic Coatings, 2016, 96, 42-51.	3.9	22
26	Osseointegration mechanisms: a proteomic approach. Journal of Biological Inorganic Chemistry, 2018, 23, 459-470.	2.6	22
27	Analysis of graft copolymers onto starch by carbon-13 NMR spectroscopy. Macromolecules, 1992, 25, 3009-3014.	4.8	21
28	A radiopaque polymeric matrix for acrylic bone cements. , 2003, 64B, 44-55.		21
29	Graft copolymerization of hydroxylic methacrylates and ethyl acrylate onto amylopectin. Polymer, 1992, 33, 2860-2862.	3.8	20
30	Characterization of new acrylic bone cement based on methyl methacrylate/1-hydroxypropyl methacrylate monomer. Journal of Biomedical Materials Research Part B, 1999, 48, 447-457.	3.1	20
31	Hydrophilic amylose-based graft copolymers for controlled protein release. Carbohydrate Polymers, 2008, 74, 31-40.	10.2	20
32	Preparation and characterization of injectable PMMAâ€strontiumâ€substituted bioactive glass bone cement composites. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1245-1257.	3.4	20
33	Complement proteins regulating macrophage polarisation on biomaterials. Colloids and Surfaces B: Biointerfaces, 2019, 181, 125-133.	5.0	20
34	Hydrogels based on graft copolymerization of 2-hydroxypropyl methacrylate/acrylate mixtures on amylose: swelling behaviour. Polymer, 1996, 37, 1005-1011.	3.8	19
35	Bioactive zinc-doped sol-gel coating modulates protein adsorption patterns and in vitro cell responses. Materials Science and Engineering C, 2021, 121, 111839.	7.3	19
36	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.	2.3	18

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37	Scaffolds based on hydroxypropyl starch: Processing, morphology, characterization, and biological behavior. Journal of Applied Polymer Science, 2013, 127, 1475-1484.	2.6	18
38	In vitro evaluation of sustained-release matrix tablets prepared with new modified polymeric carbohydrates. International Journal of Pharmaceutics, 1996, 136, 107-115.	5.2	17
39	Enhancement of plasma protein adsorption and osteogenesis of hMSCs by functionalized siloxane coatings for titanium implants. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1138-1147.	3.4	17
40	Enzymatic and anaerobic degradation of amylose based acrylic copolymers, for use as matrices for drug release. Polymer Degradation and Stability, 2007, 92, 658-666.	5.8	16
41	Influence of calcium ion-modified implant surfaces in protein adsorption and implant integration. International Journal of Implant Dentistry, 2021, 7, 32.	2.7	16
42	An approach to the knowledge of the graft polymerization of acrylic monomers onto polysaccharides using Ce(IV) as initiator. Journal of Polymer Science, Part C: Polymer Letters, 1989, 27, 149-152.	0.7	15
43	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.	2.3	15
44	Synthesis of graft copolymers of acrylic monomers on amylose: Effect of reaction time. European Polymer Journal, 1992, 28, 975-979.	5.4	15
45	Relationship between the morphology of PMMA particles and properties of acrylic bone cements. Journal of Materials Science: Materials in Medicine, 1996, 7, 375-379.	3.6	15
46	Graft polymerization of acrylic monomers onto starch fractions. IV. Effect of reaction time on the grafting of butyl acrylate onto amylose. Journal of Polymer Science Part A, 1987, 25, 719-725.	2.3	14
47	13C n.m.r. study of the graft copolymerization of a mixture of methyl methacrylate with ethyl acrylate on amylose. Polymer, 1993, 34, 512-517.	3.8	14
48	Characterization of serum proteins attached to distinct solâ€“gel hybrid surfaces. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1477-1485.	3.4	14
49	Protein adsorption/desorption dynamics on Ca-enriched titanium surfaces: biological implications. Journal of Biological Inorganic Chemistry, 2021, 26, 715-726.	2.6	13
50	Graft polymerization of acrylic monomers onto starch fractions. II. Effect of reaction time on grafting of methyl methacrylate onto amylopectin. Journal of Polymer Science, Polymer Letters Edition, 1984, 22, 21-24.	0.4	12
51	Stereoregularity of various polyacrylates obtained from graft copolymers onto starch. Polymer, 1993, 34, 1780-1785.	3.8	12
52	Graft copolymerization of different mixtures of acrylic monomers on amylopectin. Swelling behavior. Journal of Applied Polymer Science, 1994, 54, 577-584.	2.6	12
53	Contribution to the study of new graft copolymer matrices for drug delivery systems. Technological study. International Journal of Pharmaceutics, 1997, 146, 71-79.	5.2	12
54	pH-Sensitive hydrogels based on non-ionic acrylic copolymers. Biomaterials, 1997, 18, 521-526.	11.4	12

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55	Propagation of fatigue cracks in acrylic bone cements containing different radiopaque agents. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2004, 218, 167-172.	1.8	11
56	Acrylic bone cements with bismuth salicylate: Behavior in simulated physiological conditions. Journal of Biomedical Materials Research - Part A, 2007, 80A, 321-332.	4.0	11
57	Drug release from microstructured grafted starch monolithic tablets. Starch/Staerke, 2011, 63, 808-819.	2.1	10
58	The design and characterisation of solâ€“gel coatings for the controlled-release of active molecules. Journal of Sol-Gel Science and Technology, 2012, 64, 442-451.	2.4	10
59	Determination of the tacticity of polymethacrylates obtained from graft copolymers. Polymer, 1992, 33, 3089-3094.	3.8	9
60	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.	3.8	9
61	A single coating with antibacterial properties for prevention of medical device-associated infections. European Polymer Journal, 2019, 113, 289-296.	5.4	9
62	Synthetic PMMA-Grafted Polysaccharides as Hydrophilic Matrix for Controlled-Release Forms. Drug Development and Industrial Pharmacy, 1999, 25, 1249-1257.	2.0	8
63	Drug release from a new family of graft copolymers of methyl methacrylate. I.. International Journal of Pharmaceutics, 1997, 149, 233-240.	5.2	7
64	Mechanical properties of a modified acrylic bone cement with etoxytriethyleneglycol monomethacrylate. Journal of Materials Science: Materials in Medicine, 1995, 6, 793-798.	3.6	6
65	Wear Behaviour of the Pair Tiâ€“6Alâ€“4Vâ€“UHMWPE of Acrylic Bone Cements Containing Different Radiopaque Agents. Journal of Biomaterials Applications, 2004, 18, 305-319.	2.4	6
66	Synthesis of hybrid solâ€“gel materials and their biological evaluation with human mesenchymal stem cells. Journal of Materials Science: Materials in Medicine, 2013, 24, 1491-1499.	3.6	6
67	Design of nanostructured siloxane-gelatin coatings: Immobilization strategies and dissolution properties. Journal of Non-Crystalline Solids, 2018, 481, 368-374.	3.1	5
68	Silica-gelatin hybrid sol-gel coatings: A proteomic study with biocompatibility implications. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 1769-1779.	2.7	5
69	Study of the ceric ion behavior on the initiation of butyl acrylate polymerization onto amylose. Journal of Polymer Science Part A, 1987, 25, 1309-1314.	2.3	4
70	Study of the acid hydrolysis of the starch graft copolymers with hydroxylic methacrylates. Journal of Applied Polymer Science, 1993, 47, 1003-1011.	2.6	4
71	Synthesis of graft copolymers of hydrophobic and hydrophilic methacrylates onto amylopectin. Polymer, 1992, 33, 3274-3277.	3.8	3
72	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.	2.6	3

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73	Microstructure of copolymers of methacrylonitrile/n-alkyl methacrylate mixtures grafted onto amylomaize by carbon-13 NMR spectroscopy. Macromolecules, 1993, 26, 4298-4303.	4.8	3
74	The Influence of Crosslinking Amyloseâ€Methacrylic Acid Graft Copolymers on the Release of BSA. Macromolecular Symposia, 2007, 253, 82-87.	0.7	2
75	Non-ionizable Polyacrylic Hydrogels Sensitive to pH for Biomedical Applications. Polymer International, 1997, 43, 182-186.	3.1	1
76	Synthesis and rheological characterization of graft copolymers of butyl and hydroxyethyl methacrylates on starches. Journal of Applied Polymer Science, 2008, 108, 4029-4037.	2.6	1