Marilo Gurruchaga

List of Publications by Year
in descending order

76 papers	1,565 citations	346980 22 h-index	445137 33 g-index
76 all docs	76 docs citations	76 times ranked	1542 citing authors

#	Article	IF	Citations
1	Bioactive zinc-doped sol-gel coating modulates protein adsorption patterns and in vitro cell responses. Materials Science and Engineering C, 2021, 121, 111839.	3.8	19
2	Influence of calcium ion-modified implant surfaces in protein adsorption and implant integration. International Journal of Implant Dentistry, 2021, 7, 32.	1.1	16
3	Protein adsorption/desorption dynamics on Ca-enriched titanium surfaces: biological implications. Journal of Biological Inorganic Chemistry, 2021, 26, 715-726.	1.1	13
4	A single coating with antibacterial properties for prevention of medical device-associated infections. European Polymer Journal, 2019, 113, 289-296.	2.6	9
5	Complement proteins regulating macrophage polarisation on biomaterials. Colloids and Surfaces B: Biointerfaces, 2019, 181, 125-133.	2.5	20
6	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.	2.5	24
7	Synthesis and characterization of silica-chitosan hybrid materials as antibacterial coatings for titanium implants. Carbohydrate Polymers, 2019, 203, 331-341.	5.1	54
8	Osseointegration mechanisms: a proteomic approach. Journal of Biological Inorganic Chemistry, 2018, 23, 459-470.	1.1	22
9	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.	1.6	20
10	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.	1.6	17
11	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.	2.5	25
12	Design of nanostructured siloxane-gelatin coatings: Immobilization strategies and dissolution properties. Journal of Non-Crystalline Solids, 2018, 481, 368-374.	1.5	5
13	Characterization of serum proteins attached to distinct solâ€“gel hybrid surfaces. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1477-1485.	1.6	14
14	Silica-gelatin hybrid sol-gel coatings: A proteomic study with biocompatibility implications. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 1769-1779.	1.3	5
15	Proteome analysis of human serum proteins adsorbed onto different titanium surfaces used in dental implants. Biofouling, 2017, 33, 98-111.	0.8	45
16	Proteomic analysis of silica hybrid sol-gel coatings: a potential tool for predicting the biocompatibility of implants <i>in vivo</i>. Biofouling, 2017, 33, 676-689.	0.8	36
17	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.	1.5	31
18	Development of hybrid solâ€“gel coatings for the improvement of metallic biomaterials performance. Progress in Organic Coatings, 2016, 96, 42-51.	1.9	22

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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.	1.7	27
20	Study of the degradation of hybrid solâ€“gel coatings in aqueous medium. Progress in Organic Coatings, 2014, 77, 1799-1806.	1.9	53
21	Scaffolds based on hydroxypropyl starch: Processing, morphology, characterization, and biological behavior. Journal of Applied Polymer Science, 2013, 127, 1475-1484.	1.3	18
22	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.	1.7	6
23	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.	1.1	10
24	Drug release from microstructured grafted starch monolithic tablets. Starch/Staerke, 2011, 63, 808-819.	1.1	10
25	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.	1.6	22
26	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.	1.7	39
27	Physical blends of starch graft copolymers as matrices for colon targeting drug delivery systems. Carbohydrate Polymers, 2009, 76, 593-601.	5.1	37
28	New injectable and radiopaque antibiotic loaded acrylic bone cements. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 87B, 312-320.	1.6	30
29	Synthesis and rheological characterization of graft copolymers of butyl and hydroxyethyl methacrylates on starches. Journal of Applied Polymer Science, 2008, 108, 4029-4037.	1.3	1
30	Hydrophilic amylose-based graft copolymers for controlled protein release. Carbohydrate Polymers, 2008, 74, 31-40.	5.1	20
31	The Influence of Crosslinking Amyloseâ€Methacrylic Acid Graft Copolymers on the Release of BSA. Macromolecular Symposia, 2007, 253, 82-87.	0.4	2
32	Acrylic bone cements with bismuth salicylate: Behavior in simulated physiological conditions. Journal of Biomedical Materials Research - Part A, 2007, 80A, 321-332.	2.1	11
33	Enzymatic and anaerobic degradation of amylose based acrylic copolymers, for use as matrices for drug release. Polymer Degradation and Stability, 2007, 92, 658-666.	2.7	16
34	Preparation of acrylic bone cements for vertebroplasty with bismuth salicylate as radiopaque agent. Biomaterials, 2006, 27, 100-107.	5.7	40
35	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.	1.6	29
36	Ethyl methacrylate grafted on two starches as polymeric matrices for drug delivery. Journal of Applied Polymer Science, 2005, 96, 523-536.	1.3	23

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37	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.	1.2	6
38	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.	1.0	11
39	A radiopaque polymeric matrix for acrylic bone cements. , 2003, 64B, 44-55.		21
40	Elimination of barium sulphate from acrylic bone cements. Use of two iodine-containing monomers. Biomaterials, 2003, 24, 4071-4080.	5.7	45
41	Synthesis of Hydroxypropyl Methacrylate/Polysaccharide Graft Copolymers as Matrices for Controlled Release Tablets. Drug Development and Industrial Pharmacy, 2002, 28, 1101-1115.	0.9	24
42	Synthetic PMMA-Grafted Polysaccharides as Hydrophilic Matrix for Controlled-Release Forms. Drug Development and Industrial Pharmacy, 1999, 25, 1249-1257.	0.9	8
43	Modified acrylic bone cement with high amounts of ethoxytriethyleneglycol methacrylate. Biomaterials, 1999, 20, 453-463.	5.7	35
44	Influence of the modification of P/L ratio on a new formulation of acrylic bone cement. Biomaterials, 1999, 20, 465-474.	5.7	37
45	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.	3.0	20
46	Contribution to the study of new graft copolymer matrices for drug delivery systems. Technological study. International Journal of Pharmaceutics, 1997, 146, 71-79.	2.6	12
47	Drug release from a new family of graft copolymers of methyl methacrylate. I.. International Journal of Pharmaceutics, 1997, 149, 233-240.	2.6	7
48	pH-Sensitive hydrogels based on non-ionic acrylic copolymers. Biomaterials, 1997, 18, 521-526.	5.7	12
49	The influence of drying method on the physical properties of some graft copolymers for drug delivery systems. Carbohydrate Polymers, 1997, 34, 83-89.	5.1	36
50	Non-ionizable Polyacrylic Hydrogels Sensitive to pH for Biomedical Applications. Polymer International, 1997, 43, 182-186.	1.6	1
51	Application of tertiary amines with reduced toxicity to the curing process of acrylic bone cements. , 1997, 34, 129-136.		55
52	In vitro evaluation of sustained-release matrix tablets prepared with new modified polymeric carbohydrates. International Journal of Pharmaceutics, 1996, 136, 107-115.	2.6	17
53	Hydrogels based on graft copolymerization of 2-hydroxypropyl methacrylate/acrylate mixtures on amylose: swelling behaviour. Polymer, 1996, 37, 1005-1011.	1.8	19
54	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.	5.7	108

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55	Relationship between the morphology of PMMA particles and properties of acrylic bone cements. Journal of Materials Science: Materials in Medicine, 1996, 7, 375-379.	1.7	15
56	Mechanical properties of a modified acrylic bone cement with etoxytriethyleneglycol monomethacrylate. Journal of Materials Science: Materials in Medicine, 1995, 6, 793-798.	1.7	6
57	Hydrogels based on graft copolymerization of HEMA/BMA mixtures onto soluble gelatin: swelling behaviour. Polymer, 1995, 36, 2311-2314.	1.8	35
58	Graft copolymerization of different mixtures of acrylic monomers on amylopectin. Swelling behavior. Journal of Applied Polymer Science, 1994, 54, 577-584.	1.3	12
59	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.	1.8	9
60	Study of the acid hydrolysis of the starch graft copolymers with hydroxylic methacrylates. Journal of Applied Polymer Science, 1993, 47, 1003-1011.	1.3	4
61	Stereoregularity of various polyacrylates obtained from graft copolymers onto starch. Polymer, 1993, 34, 1780-1785.	1.8	12
62	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.	1.8	14
63	Microstructure of copolymers of methacrylonitrile/n-alkyl methacrylate mixtures grafted onto amylomaize by carbon-13 NMR spectroscopy. Macromolecules, 1993, 26, 4298-4303.	2.2	3
64	Analysis of graft copolymers onto starch by carbon-13 NMR spectroscopy. Macromolecules, 1992, 25, 3009-3014.	2.2	21
65	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
66	Determination of the tacticity of polymethacrylates obtained from graft copolymers. Polymer, 1992, 33, 3089-3094.	1.8	9
67	Synthesis of graft copolymers of hydrophobic and hydrophilic methacrylates onto amylopectin. Polymer, 1992, 33, 3274-3277.	1.8	3
68	Graft copolymerization of hydroxylic methacrylates and ethyl acrylate onto amylopectin. Polymer, 1992, 33, 2860-2862.	1.8	20
69	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.	1.3	3
70	Synthesis of graft copolymers of acrylic monomers on amylose: Effect of reaction time. European Polymer Journal, 1992, 28, 975-979.	2.6	15
71	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
72	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	15

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73	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.	2.5	14
74	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.	2.5	4
75	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
76	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