

Maria Cristina Tanzi

List of Publications by Citations

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113
papers

3,803
citations

35
h-index

57
g-index

126
ext. papers

4,158
ext. citations

4.9
avg, IF

5.22
L-index

#	Paper	IF	Citations
113	Advances in biomedical applications of pectin gels. <i>International Journal of Biological Macromolecules</i> , 2012 , 51, 681-9	7.9	334
112	Pectin-based injectable biomaterials for bone tissue engineering. <i>Biomacromolecules</i> , 2011 , 12, 568-77	6.9	174
111	Cytotoxicity of some catalysts commonly used in the synthesis of copolymers for biomedical use. <i>Journal of Materials Science: Materials in Medicine</i> , 1994 , 5, 393-396	4.5	158
110	Compliant electrospun silk fibroin tubes for small vessel bypass grafting. <i>Acta Biomaterialia</i> , 2010 , 6, 4019-26	10.8	135
109	Chemical stability of polyether urethanes versus polycarbonate urethanes. <i>Journal of Biomedical Materials Research Part B</i> , 1997 , 36, 550-9		123
108	Small diameter electrospun silk fibroin vascular grafts: Mechanical properties, in vitro biodegradability, and in vivo biocompatibility. <i>Materials Science and Engineering C</i> , 2015 , 54, 101-11	8.3	107
107	Microspheres leaching for scaffold porosity control. <i>Journal of Materials Science: Materials in Medicine</i> , 2005 , 16, 1093-7	4.5	103
106	Injectable pectin hydrogels produced by internal gelation: pH dependence of gelling and rheological properties. <i>Carbohydrate Polymers</i> , 2014 , 103, 339-47	10.3	93
105	Antibacterial activity of zinc modified titanium oxide surface. <i>International Journal of Artificial Organs</i> , 2006 , 29, 434-42	1.9	91
104	Biodegradable microgrooved polymeric surfaces obtained by photolithography for skeletal muscle cell orientation and myotube development. <i>Acta Biomaterialia</i> , 2010 , 6, 1948-57	10.8	83
103	Vascular Tissue Engineering: Recent Advances in Small Diameter Blood Vessel Regeneration. <i>ISRN Vascular Medicine</i> , 2014 , 2014, 1-27		79
102	Bioactive technologies for hemocompatibility. <i>Expert Review of Medical Devices</i> , 2005 , 2, 473-92	3.5	78
101	Adipose tissue engineering: state of the art, recent advances and innovative approaches. <i>Expert Review of Medical Devices</i> , 2009 , 6, 533-51	3.5	74
100	Skin-derived stem cells transplanted into resorbable guides provide functional nerve regeneration after sciatic nerve resection. <i>Glia</i> , 2007 , 55, 425-38	9	73
99	Biofunctional chemically modified pectin for cell delivery. <i>Soft Matter</i> , 2012 , 8, 4731	3.6	63
98	Synthesis and pharmacological evaluation of poly(oxyethylene) derivatives of 4-isobutylphenyl-2-propionic acid (ibuprofen). <i>Journal of Medicinal Chemistry</i> , 1981 , 24, 622-5	8.3	62
97	Electrospun Silk Fibroin Mats for Tissue Engineering. <i>Engineering in Life Sciences</i> , 2008 , 8, 219-225	3.4	59

96	Polyurethane foam/nano hydroxyapatite composite as a suitable scaffold for bone tissue regeneration. <i>Materials Science and Engineering C</i> , 2018 , 82, 130-140	8.3	59
95	Collagen-reinforced electrospun silk fibroin tubular construct as small calibre vascular graft. <i>Macromolecular Bioscience</i> , 2012 , 12, 1566-74	5.5	57
94	Design, synthesis and properties of polyurethane hydrogels for tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2003 , 14, 683-6	4.5	55
93	Shape memory polymer foams for cerebral aneurysm reparation: effects of plasma sterilization on physical properties and cytocompatibility. <i>Acta Biomaterialia</i> , 2009 , 5, 1508-18	10.8	54
92	Silk fibroin-polyurethane scaffolds for tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2001 , 12, 849-53	4.5	53
91	Ability of polyurethane foams to support cell proliferation and the differentiation of MSCs into osteoblasts. <i>Acta Biomaterialia</i> , 2009 , 5, 1126-36	10.8	51
90	Calcified matrix production by SAOS-2 cells inside a polyurethane porous scaffold, using a perfusion bioreactor. <i>Tissue Engineering</i> , 2005 , 11, 685-700		51
89	Enhanced wear performance of highly crosslinked UHMWPE for artificial joints. <i>Journal of Biomedical Materials Research Part B</i> , 2000 , 50, 381-7		49
88	Synergistic effects of oxidative environments and mechanical stress on in vitro stability of polyetherurethanes and polycarbonateurethanes. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 45, 62-74		48
87	In vitro stability of polyether and polycarbonate urethanes. <i>Journal of Biomaterials Applications</i> , 2000 , 14, 325-48	2.9	47
86	Polyurethane foam scaffold as in vitro model for breast cancer bone metastasis. <i>Acta Biomaterialia</i> , 2017 , 63, 306-316	10.8	44
85	Polysaccharides derived from tragacanth as biocompatible polymers and Gels. <i>Journal of Applied Polymer Science</i> , 2013 , 129, 2092-2102	2.9	43
84	Nano/micro hybrid scaffold of PCL or P3HB nanofibers combined with silk fibroin for tendon and ligament tissue engineering. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2015 , 13, e156-68	1.8	42
83	Succinic half-esters of poly(ethylene glycol)s and their benzotriazole and imidazole derivatives as oligomeric drug-binding matrices. <i>Die Makromolekulare Chemie</i> , 1981 , 182, 2183-2192		42
82	Microcontact printing of fibronectin on a biodegradable polymeric surface for skeletal muscle cell orientation. <i>International Journal of Artificial Organs</i> , 2010 , 33, 535-43	1.9	41
81	In vitro interaction of human fibroblasts and platelets with a shape-memory polyurethane. <i>Journal of Biomedical Materials Research - Part A</i> , 2005 , 73, 1-11	5.4	41
80	Structural properties of polysaccharide-based microcapsules for soft tissue regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 365-75	4.5	39
79	Fractionation techniques in a hydro-organic environment. II. Acryloyl-morpholine polymers as a matrix for electrophoresis in hydro-organic solvents. <i>Analytical Biochemistry</i> , 1984 , 137, 420-8	3.1	37

78	Shape memory polymer cellular solid design for medical applications. <i>Smart Materials and Structures</i> , 2011 , 20, 035004	3-4	35
77	Electrospun silk fibroin-gelatin composite tubular matrices as scaffolds for small diameter blood vessel regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , 2017 , 28, 80	4-5	34
76	Micro- and nano-hydroxyapatite as active reinforcement for soft biocomposites. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 199-209	7-9	34
75	Sterilization treatments on polysaccharides: Effects and side effects on pectin. <i>Food Hydrocolloids</i> , 2013 , 31, 74-84	10.6	32
74	Synthesis and exchange reactions of biodegradable drug-binding matrices. <i>Die Makromolekulare Chemie</i> , 1979 , 180, 375-382		32
73	In vitro study on silk fibroin textile structure for anterior cruciate ligament regeneration. <i>Materials Science and Engineering C</i> , 2013 , 33, 3601-8	8.3	31
72	In vivo regeneration of elastic lamina on fibroin biodegradable vascular scaffold. <i>International Journal of Artificial Organs</i> , 2013 , 36, 166-74	1.9	30
71	Poly(ethylene glycol) and hydroxy functionalized alkane phosphate mixed self-assembled monolayers to control nonspecific adsorption of proteins on titanium oxide surfaces. <i>Langmuir</i> , 2010 , 26, 6529-34	4	29
70	New perspectives in cell delivery systems for tissue regeneration: natural-derived injectable hydrogels. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012 , 10, 67-81	1.8	29
69	Novel class of collector in electrospinning device for the fabrication of 3D nanofibrous structure for large defect load-bearing tissue engineering application. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 1535-1548	5.4	28
68	In vitro Stability of Polyether and Polycarbonate Urethanes. <i>Journal of Biomaterials Applications</i> , 2000 , 14, 325-348	2.9	28
67	Enzymatic cross-linking of human recombinant elastin (HELP) as biomimetic approach in vascular tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 2641-50	4-5	27
66	Chemico-physical modifications induced by plasma and ozone sterilizations on shape memory polyurethane foams. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 2067-78	4-5	27
65	Heparin adsorbing capacities at physiological pH of three poly(amido-amine) resins, and of poly(amido-amine)-surface-grafted glass microspheres. <i>Biomaterials</i> , 1983 , 4, 218-21	15.6	27
64	Ability of polyurethane foams to support placenta-derived cell adhesion and osteogenic differentiation: preliminary results. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 1005-11	4-5	26
63	Macromolecular drugs I: long-lasting antilipolytic activity of nicotinic acid bound to a polymer. <i>Pharmacological Research Communications</i> , 1976 , 8, 379-86		25
62	Preparation and characterization of shape memory polymer scaffolds via solvent casting/particulate leaching. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012 , 10, 119-26	1.8	21
61	Physical characterization of acrylic bone cement cured with new accelerator systems. <i>Clinical Materials</i> , 1991 , 8, 131-6		21

60	Reactive hydroxyapatite fillers for pectin biocomposites. <i>Materials Science and Engineering C</i> , 2014 , 45, 154-61	8.3	20
59	Pectins from Aloe Vera: Extraction and production of gels for regenerative medicine. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	20
58	Mineral phase deposition on pectin microspheres. <i>Materials Science and Engineering C</i> , 2010 , 30, 491-496	8.3	20
57	Linear poly(ethylene oxide)-based polyurethane hydrogels: polyurethane-ureas and polyurethane-amides. <i>Journal of Materials Science: Materials in Medicine</i> , 1999 , 10, 635-9	4.5	19
56	Grafting reactions and heparin adsorption of poly(amidoamine)-grafted poly(urethane amide)s. <i>Biomaterials</i> , 1992 , 13, 425-31	15.6	19
55	Exploiting novel sterilization techniques for porous polyurethane scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 182	4.5	18
54	Chemically crosslinked gelatin hydrogels as scaffolding materials for adipose tissue engineering. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47104	2.9	18
53	Adipose-derived stem cells could sense the nano-scale cues as myogenic-differentiating factors. <i>Journal of Materials Science: Materials in Medicine</i> , 2013 , 24, 2439-47	4.5	17
52	Structure and properties of polycaprolactone/ibuprofen rods prepared by melt extrusion for implantable drug delivery. <i>Polymer Bulletin</i> , 2017 , 74, 4973-4987	2.4	17
51	Comparative physical tests on segmented polyurethanes for cardiovascular applications. <i>Clinical Materials</i> , 1991 , 8, 57-64		17
50	Macroinorganics IV: Thermodynamic functions relative to the protonation of a poly(amido-amine) with repeating unit containing 3 amino groups. <i>Polymer</i> , 1979 , 20, 1298-1300	3.9	15
49	Programmed cell delivery from biodegradable microcapsules for tissue repair. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2015 , 26, 1002-12	3.5	14
48	Effects of the magnetic resonance field on breast tissue expanders. <i>Aesthetic Plastic Surgery</i> , 2012 , 36, 901-7	2	14
47	In vitro interactions of biomedical polyurethanes with macrophages and bacterial cells. <i>Journal of Biomaterials Applications</i> , 2002 , 16, 191-214	2.9	14
46	Assessment of scaffold porosity: the new route of micro-CT. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2011 , 9, 165-75		13
45	Amides from N-phenylpiperazine as low-toxicity activators in radical polymerizations. <i>Polymer</i> , 1990 , 31, 1735-1738	3.9	13
44	Electrospun silk fibroin tubular matrixes for small vessel bypass grafting. <i>Materials Technology</i> , 2009 , 24, 52-57	2.1	12
43	Bioabsorbable scaffold for in situ bone regeneration. <i>Biomedicine and Pharmacotherapy</i> , 2006 , 60, 386-92	7.5	12

42	Heparinizable segmented polyurethanes containing poly-amidoamine blocks. <i>Journal of Biomedical Materials Research Part B</i> , 1989 , 23, 863-81		12
41	Synthesis and characterization of poly(amido-amine)s belonging to two different homologous series. <i>Biomaterials</i> , 1984 , 5, 357-61	15.6	12
40	Synthesis and characterization of piperazine-derived poly(amido-amine)s with different distributions of amido- and amino-groups along the macromolecular chain. <i>Polymer</i> , 1984 , 25, 863-868	3.9	12
39	Heparinizable graft copolymers from chlorosulphonated polyethylene with poly(amido-amine) segments. <i>Biomaterials</i> , 1985 , 6, 273-6	15.6	12
38	Macro inorganics V. Basicity and complexing ability of a new class of poly(amido-amines) with tertiary amino groups present both in the main chain and as side substituent. <i>Inorganica Chimica Acta</i> , 1980 , 41, 25-29	2.7	12
37	Comparative biological tests on segmented polyurethanes for cardio-vascular applications. <i>Clinical Materials</i> , 1993 , 12, 17-23		11
36	Synthesis and exchange reactions of some polymeric benzotriazolides. <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 1978 , 16, 1435-1441		11
35	New heparinizable modified poly(carbonate urethane) surfaces diminishing bacterial colonization. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 2109-15	4.5	10
34	Polyurethane-coated, self-expandable biliary stent: an experimental study. <i>Academic Radiology</i> , 1995 , 2, 1078-81	4.3	10
33	Polymers and copolymers of N-acryloyl-N'-phenyl-piperazine. <i>Polymer</i> , 1990 , 31, 1577-1580	3.9	10
32	Polysaccharide-based hydrogels with tunable composition as 3D cell culture systems. <i>International Journal of Artificial Organs</i> , 2018 , 41, 213-222	1.9	10
31	Manufacturing Technologies 2019 , 137-196		9
30	Activated derivatives of succinic and glutaric half-esters of polypropylene glycols, and their exchange reactions with hydroxy- and amino-compounds. <i>Polymer</i> , 1982 , 23, 1689-1692	3.9	9
29	Trends in biomedical engineering: focus on Smart Bio-Materials and Drug Delivery. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2011 , 9, 87-97		8
28	Novel poly(urethane-aminoamides): an in vitro study of the interaction with heparin. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2000 , 11, 353-65	3.5	8
27	In vivo study of polyurethane-coated Gianturco-Rosch biliary Z-stents. <i>CardioVascular and Interventional Radiology</i> , 1999 , 22, 510-4	2.7	8
26	In vitro cell delivery by gelatin microspheres prepared in water-in-oil emulsion. <i>Journal of Materials Science: Materials in Medicine</i> , 2020 , 31, 26	4.5	7
25	Different Processing Methods to Obtain Porous Structure in Shape Memory Polymers. <i>Materials Science Forum</i> , 2007 , 539-543, 663-668	0.4	6

24	Synthesis of tertiary poly(amido-amine)s with amido- and amino-groups randomly arranged along the macromolecular chain. <i>Polymer</i> , 1982 , 23, 1233-1236	3.9	6
23	Cytocompatibility of polyurethane foams as biointegrable matrices for the preparation of scaffolds for bone reconstruction. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2003 , 1, 58-66		6
22	Poly(ethylene glycol) and hydroxy functionalized alkane phosphate self-assembled monolayers reduce bacterial adhesion and support osteoblast proliferation. <i>International Journal of Artificial Organs</i> , 2011 , 34, 898-907	1.9	5
21	Copolymerization and activation of peroxide decomposition with acrylic derivatives of tertiary aromatic amines. <i>Polymer</i> , 1994 , 35, 3285-3289	3.9	5
20	Poly-paper: a sustainable material for packaging, based on recycled paper and recyclable with paper. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2016 , 14, e490-e495	1.8	5
19	Characterization of thermal properties and crystallinity of polymer biomaterials 2017 , 123-146		4
18	Polyurethane-maleamides for cardiovascular applications: synthesis and properties. <i>Journal of Materials Science: Materials in Medicine</i> , 1999 , 10, 711-4	4.5	4
17	Biomimetic hybrid scaffolds for osteo-chondral tissue repair: Design and osteogenic differentiation of human placenta-derived cells (hPDC). <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 1753-6	0.9	3
16	N-acryloyl-N'-phenylpiperazine as curing activator of unsaturated resins. <i>Journal of Applied Polymer Science</i> , 1991 , 42, 1371-1376	2.9	3
15	Genotoxicity of N-acryloyl-N'-phenylpiperazine, a redox activator for acrylic resin polymerization. <i>Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1992 , 282, 99-105		3
14	Polymeric hydrazides by reaction of hydrazine with polymeric benzotriazolides. <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 1979 , 17, 277-279		3
13	New Polymeric and Oligomeric Matrices as Drug Carriers 1983 , 77-95		3
12	Techniques of Analysis 2019 , 393-469		2
11	Ibuprofen-loaded PCL meshes manufactured using rapid tooling for ocular orbital repair. <i>Polymer Testing</i> , 2017 , 62, 33-40	4.5	2
10	Cytocompatibility of two segmented biomedical polyurethanes. <i>Journal of Materials Science: Materials in Medicine</i> , 1994 , 5, 705-710	4.5	2
9	N-phenyl piperazine-polyester derivative as curing activator of unsaturated resins. <i>Journal of Applied Polymer Science</i> , 1986 , 31, 1083-1091	2.9	2
8	Heparinizable Segmented Polyurethanes for Cardio-Vascular Applications 1986 , 91-99		2
7	Bio-Instructive Scaffolds for Muscle Regeneration: NonCrosslinked Polymers 2017 , 161-186		1

- 6 Advanced Polyurethanes for Blood Contacting Applications Containing Pime as Smart□
Heparin-Adsorbing Moieties **2004**, 51-66 1
- 5 Advanced Applications **2019**, 471-545
- 4 Characterization of 2D polymeric biomaterial structures or surfaces **2017**, 3-19
- 3 Protein Immobilization onto Newly Developed Polyurethane-Maleamides for Endothelial Cell
Growth **2001**, 235-242
- 2 Development of bioabsorbable PCL/ibuprofen mesh for maxillofacial repair using prototype
injection mold **2013**, 355-359
- 1 Fabrication of chemically cross-linked porous gelatin matrices. *Journal of Applied Biomaterials and
Biomechanics*, **2009**, 7, 194-9