Paola Petrini

List of Publications by Citations

60 papers	1,978 citations	23 h-index	43 g-index
68 ext. papers	2,251 ext. citations	5 avg, IF	4.64 L-index

#	Paper	IF	Citations
60	Advances in biomedical applications of pectin gels. *International Journal of Biological Macromolecules*, **2012**, 51, 681-9	7.9	334
59	Pectin-based injectable biomaterials for bone tissue engineering. *Biomacromolecules*, **2011**, 12, 568-77	6.9	174
58	Chemical stability of polyether urethanes versus polycarbonate urethanes. *Journal of Biomedical Materials Research Part B*, **1997**, 36, 550-9		123
57	Silk fibroin/poly(carbonate)-urethane as a substrate for cell growth: in vitro interactions with human cells. *Biomaterials*, **2003**, 24, 789-99	15.6	118
56	Injectable pectin hydrogels produced by internal gelation: pH dependence of gelling and rheological properties. *Carbohydrate Polymers*, **2014**, 103, 339-47	10.3	93
55	Antibacterial activity of zinc modified titanium oxide surface. *International Journal of Artificial Organs*, **2006**, 29, 434-42	1.9	91
54	Biofunctional chemically modified pectin for cell delivery. *Soft Matter*, **2012**, 8, 4731	3.6	63
53	Biofunctionalized pectin hydrogels as 3D cellular microenvironments. *Journal of Materials Chemistry B*, **2015**, 3, 2096-2108	7.3	58
52	Silk fibroin-coated three-dimensional polyurethane scaffolds for tissue engineering: interactions with normal human fibroblasts. *Tissue Engineering*, **2003**, 9, 1113-21		57
51	Design, synthesis and properties of polyurethane hydrogels for tissue engineering. *Journal of Materials Science: Materials in Medicine*, **2003**, 14, 683-6	4.5	55
50	Silk fibroin-polyurethane scaffolds for tissue engineering. *Journal of Materials Science: Materials in Medicine*, **2001**, 12, 849-53	4.5	53
49	Synergistic effects of oxidative environments and mechanical stress on in vitro stability of polyetherurethanes and polycarbonateurethanes. *Journal of Biomedical Materials Research Part B*, **1999**, 45, 62-74		48
48	In vitro stability of polyether and polycarbonate urethanes. *Journal of Biomaterials Applications*, **2000**, 14, 325-48	2.9	47
47	Polysaccharides derived from tragacanth as biocompatible polymers and Gels. *Journal of Applied Polymer Science*, **2013**, 129, 2092-2102	2.9	43
46	In vitro interaction of human fibroblasts and platelets with a shape-memory polyurethane. *Journal of Biomedical Materials Research - Part A*, **2005**, 73, 1-11	5.4	41
45	Structural properties of polysaccharide-based microcapsules for soft tissue regeneration. *Journal of Materials Science: Materials in Medicine*, **2010**, 21, 365-75	4.5	39
44	Micro- and nano-hydroxyapatite as active reinforcement for soft biocomposites. *International Journal of Biological Macromolecules*, **2015**, 72, 199-209	7.9	34

43	Sterilization treatments on polysaccharides: Effects and side effects on pectin. *Food Hydrocolloids*, **2013**, 31, 74-84	10.6	32
42	Pain assessment in animal models: do we need further studies?. *Journal of Pain Research*, **2014**, 7, 227-36	2.9	30
41	Poly(ethylene glycol) and hydroxy functionalized alkane phosphate mixed self-assembled monolayers to control nonspecific adsorption of proteins on titanium oxide surfaces. *Langmuir*, **2010**, 26, 6529-34	4	29
40	New perspectives in cell delivery systems for tissue regeneration: natural-derived injectable hydrogels. *Journal of Applied Biomaterials and Functional Materials*, **2012**, 10, 67-81	1.8	29
39	In vitro Stability of Polyether and Polycarbonate Urethanes. *Journal of Biomaterials Applications*, **2000**, 14, 325-348	2.9	28
38	Enzymatic cross-linking of human recombinant elastin (HELP) as biomimetic approach in vascular tissue engineering. *Journal of Materials Science: Materials in Medicine*, **2011**, 22, 2641-50	4.5	27
37	Reactive hydroxyapatite fillers for pectin biocomposites. *Materials Science and Engineering C*, **2014**, 45, 154-61	8.3	20
36	Pectins from Aloe Vera: Extraction and production of gels for regenerative medicine. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	20
35	Mineral phase deposition on pectin microspheres. *Materials Science and Engineering C*, **2010**, 30, 491-496	8.3	20
34	Linear poly(ethylene oxide)-based polyurethane hydrogels: polyurethane-ureas and polyurethane-amides. *Journal of Materials Science: Materials in Medicine*, **1999**, 10, 635-9	4.5	19
33	Encapsulated functionalized stereocomplex PLA particles: An effective system to support mucolytic enzymes. *Colloids and Surfaces B: Biointerfaces*, **2019**, 179, 190-198	6	15
32	Treatment of Biofilm Communities: An Update on New Tools from the Nanosized World. *Applied Sciences (Switzerland)*, **2018**, 8, 845	2.6	15
31	From micro- to nanostructured implantable device for local anesthetic delivery. *International Journal of Nanomedicine*, **2016**, 11, 2695-709	7.3	15
30	Nanostructured polysaccharidic microcapsules for intracellular release of cisplatin. *International Journal of Biological Macromolecules*, **2017**, 99, 187-195	7.9	14
29	Engineering biological gradients. *Journal of Applied Biomaterials and Functional Materials*, **2019**, 17, 2280800019829023	2.8	14
28	External and internal gelation of pectin solutions: microscopic dynamics versus macroscopic rheology. *Journal of Physics Condensed Matter*, **2014**, 26, 464106	1.8	14
27	In vitro interactions of biomedical polyurethanes with macrophages and bacterial cells. *Journal of Biomaterials Applications*, **2002**, 16, 191-214	2.9	14
26	Disassembling the complexity of mucus barriers to develop a fast screening tool for early drug discovery. *Journal of Materials Chemistry B*, **2019**, 7, 4940-4952	7.3	13

25	Fabrication and Characterization of Chitosan and Pectin Nanostructured Multilayers. *Macromolecular Chemistry and Physics*, **2015**, 216, 1067-1075	2.6	12
24	Stereocomplex poly(lactic acid) nanocoated chitosan microparticles for the sustained release of hydrophilic drugs. *Materials Science and Engineering C*, **2017**, 76, 1129-1135	8.3	11
23	Towards bioinspired models of intestinal mucus.. *RSC Advances*, **2019**, 9, 15887-15899	3.7	11
22	Mucin binding to therapeutic molecules: The case of antimicrobial agents used in cystic fibrosis. *International Journal of Pharmaceutics*, **2019**, 564, 136-144	6.5	10
21	Polysaccharide-based hydrogels with tunable composition as 3D cell culture systems. *International Journal of Artificial Organs*, **2018**, 41, 213-222	1.9	10
20	Cross-linked poly(acrylic acids) microgels and agarose as semi-interpenetrating networks for resveratrol release. *Journal of Materials Science: Materials in Medicine*, **2015**, 26, 5328	4.5	9
19	Trends in biomedical engineering: focus on Smart Bio-Materials and Drug Delivery. *Journal of Applied Biomaterials and Biomechanics*, **2011**, 9, 87-97		8
18	Trends in biomedical engineering: focus on Regenerative Medicine. *Journal of Applied Biomaterials and Biomechanics*, **2011**, 9, 73-86		8
17	Novel poly(urethane-aminoamides): an in vitro study of the interaction with heparin. *Journal of Biomaterials Science, Polymer Edition*, **2000**, 11, 353-65	3.5	8
16	Technological tools and strategies for culturing human gut microbiota in engineered in vitro models. *Biotechnology and Bioengineering*, **2021**, 118, 2886-2905	4.9	7
15	Immunological and Differentiation Properties of Amniotic Cells Are Retained After Immobilization in Pectin Gel. *Cell Transplantation*, **2018**, 27, 70-76	4	6
14	Hydrothermal synthesis of pectin derived nanoporous carbon material. *Materials Letters*, **2016**, 171, 212-215	3.5	6
13	Poly(ethylene glycol) and hydroxy functionalized alkane phosphate self-assembled monolayers reduce bacterial adhesion and support osteoblast proliferation. *International Journal of Artificial Organs*, **2011**, 34, 898-907	1.9	5
12	Polyurethane-maleamides for cardiovascular applications: synthesis and properties. *Journal of Materials Science: Materials in Medicine*, **1999**, 10, 711-4	4.5	4
11	Design of Multifunctional Polysaccharides for Biomedical Applications: A Critical Review. *Current Organic Chemistry*, **2018**, 22, 1222-1236	1.7	4
10	Shear-resistant hydrogels to control permeability of porous tubular scaffolds in vascular tissue engineering. *Materials Science and Engineering C*, **2019**, 105, 110035	8.3	3
9	From tissue engineering to engineering tissues: the role and application of models. *Biomaterials Science*, **2021**, 9, 70-83	7.4	3
8	Cystic Fibrosis Mucus Model to Design More Efficient Drug Therapies.. *Molecular Pharmaceutics*, **2021**,	5.6	3

7	3D-Reactive printing of engineered alginate inks. *Soft Matter*, **2021**, 17, 8105-8117	3.6	2
6	Mucosomes: Intrinsically Mucoadhesive Glycosylated Mucin Nanoparticles as Multi-Drug Delivery Platform. *Advanced Healthcare Materials*,2200340	10.1	2
5	Engineered modular microphysiological models of the human airway clearance phenomena. *Biotechnology and Bioengineering*, **2021**, 118, 3898-3913	4.9	1
4	The Open Challenge of Modeling Complex and Multi-Microbial Communities in Three-Dimensional Niches. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 539319	5.8	0
3	Correction: Biofunctionalized pectin hydrogels as 3D cellular microenvironments. *Journal of Materials Chemistry B*, **2015**, 3, 8422	7.3	0
2	Protein Immobilization onto Newly Developed Polyurethane-Maleamides for Endothelial Cell Growth **2001**, 235-242		
1	Fabrication of chemically cross-linked porous gelatin matrices. *Journal of Applied Biomaterials and Biomechanics*, **2009**, 7, 194-9		