

# Paola Petrini

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Technological tools and strategies for culturing human gut microbiota in engineered in vitro models. <i>Biotechnology and Bioengineering</i> , <b>2021</b> , 118, 2886-2905	4.9	7
59	Engineered modular microphysiological models of the human airway clearance phenomena. <i>Biotechnology and Bioengineering</i> , <b>2021</b> , 118, 3898-3913	4.9	1
58	From tissue engineering to engineering tissues: the role and application of models. <i>Biomaterials Science</i> , <b>2021</b> , 9, 70-83	7.4	3
57	3D-Reactive printing of engineered alginate inks. <i>Soft Matter</i> , <b>2021</b> , 17, 8105-8117	3.6	2
56	Cystic Fibrosis Mucus Model to Design More Efficient Drug Therapies.. <i>Molecular Pharmaceutics</i> , <b>2021</b> ,	5.6	3
55	The Open Challenge of Modeling Complex and Multi-Microbial Communities in Three-Dimensional Niches. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 539319	5.8	0
54	Towards bioinspired models of intestinal mucus.. <i>RSC Advances</i> , <b>2019</b> , 9, 15887-15899	3.7	11
53	Mucin binding to therapeutic molecules: The case of antimicrobial agents used in cystic fibrosis. <i>International Journal of Pharmaceutics</i> , <b>2019</b> , 564, 136-144	6.5	10
52	Engineering biological gradients. <i>Journal of Applied Biomaterials and Functional Materials</i> , <b>2019</b> , 17, 228088001922902	6.8	14
51	Encapsulated functionalized stereocomplex PLA particles: An effective system to support mucolytic enzymes. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 179, 190-198	6	15
50	Shear-resistant hydrogels to control permeability of porous tubular scaffolds in vascular tissue engineering. <i>Materials Science and Engineering C</i> , <b>2019</b> , 105, 110035	8.3	3
49	Disassembling the complexity of mucus barriers to develop a fast screening tool for early drug discovery. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 4940-4952	7.3	13
48	Immunological and Differentiation Properties of Amniotic Cells Are Retained After Immobilization in Pectin Gel. <i>Cell Transplantation</i> , <b>2018</b> , 27, 70-76	4	6
47	Treatment of Biofilm Communities: An Update on New Tools from the Nanosized World. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 845	2.6	15
46	Design of Multifunctional Polysaccharides for Biomedical Applications: A Critical Review. <i>Current Organic Chemistry</i> , <b>2018</b> , 22, 1222-1236	1.7	4
45	Polysaccharide-based hydrogels with tunable composition as 3D cell culture systems. <i>International Journal of Artificial Organs</i> , <b>2018</b> , 41, 213-222	1.9	10
44	Nanostructured polysaccharidic microcapsules for intracellular release of cisplatin. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 99, 187-195	7.9	14

43	Stereocomplex poly(lactic acid) nanocoated chitosan microparticles for the sustained release of hydrophilic drugs. <i>Materials Science and Engineering C</i> , <b>2017</b> , 76, 1129-1135	8.3	11
42	Hydrothermal synthesis of pectin derived nanoporous carbon material. <i>Materials Letters</i> , <b>2016</b> , 171, 212-215	3.5	6
41	From micro- to nanostructured implantable device for local anesthetic delivery. <i>International Journal of Nanomedicine</i> , <b>2016</b> , 11, 2695-709	7.3	15
40	Cross-linked poly(acrylic acids) microgels and agarose as semi-interpenetrating networks for resveratrol release. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2015</b> , 26, 5328	4.5	9
39	Micro- and nano-hydroxyapatite as active reinforcement for soft biocomposites. <i>International Journal of Biological Macromolecules</i> , <b>2015</b> , 72, 199-209	7.9	34
38	Fabrication and Characterization of Chitosan and Pectin Nanostructured Multilayers. <i>Macromolecular Chemistry and Physics</i> , <b>2015</b> , 216, 1067-1075	2.6	12
37	Correction: Biofunctionalized pectin hydrogels as 3D cellular microenvironments. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 8422	7.3	0
36	Biofunctionalized pectin hydrogels as 3D cellular microenvironments. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 2096-2108	7.3	58
35	Reactive hydroxyapatite fillers for pectin biocomposites. <i>Materials Science and Engineering C</i> , <b>2014</b> , 45, 154-61	8.3	20
34	Pain assessment in animal models: do we need further studies?. <i>Journal of Pain Research</i> , <b>2014</b> , 7, 227-36	6.9	30
33	External and internal gelation of pectin solutions: microscopic dynamics versus macroscopic rheology. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 464106	1.8	14
32	Pectins from Aloe Vera: Extraction and production of gels for regenerative medicine. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	20
31	Injectable pectin hydrogels produced by internal gelation: pH dependence of gelling and rheological properties. <i>Carbohydrate Polymers</i> , <b>2014</b> , 103, 339-47	10.3	93
30	Polysaccharides derived from tragacanth as biocompatible polymers and Gels. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 129, 2092-2102	2.9	43
29	Sterilization treatments on polysaccharides: Effects and side effects on pectin. <i>Food Hydrocolloids</i> , <b>2013</b> , 31, 74-84	10.6	32
28	Biofunctional chemically modified pectin for cell delivery. <i>Soft Matter</i> , <b>2012</b> , 8, 4731	3.6	63
27	Advances in biomedical applications of pectin gels. <i>International Journal of Biological Macromolecules</i> , <b>2012</b> , 51, 681-9	7.9	334
26	New perspectives in cell delivery systems for tissue regeneration: natural-derived injectable hydrogels. <i>Journal of Applied Biomaterials and Functional Materials</i> , <b>2012</b> , 10, 67-81	1.8	29

25	Pectin-based injectable biomaterials for bone tissue engineering. <i>Biomacromolecules</i> , <b>2011</b> , 12, 568-77	6.9	174
24	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> , <b>2011</b> , 34, 898-907	1.9	5
23	Enzymatic cross-linking of human recombinant elastin (HELP) as biomimetic approach in vascular tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2011</b> , 22, 2641-50	4.5	27
22	Trends in biomedical engineering: focus on Smart Bio-Materials and Drug Delivery. <i>Journal of Applied Biomaterials and Biomechanics</i> , <b>2011</b> , 9, 87-97		8
21	Trends in biomedical engineering: focus on Regenerative Medicine. <i>Journal of Applied Biomaterials and Biomechanics</i> , <b>2011</b> , 9, 73-86		8
20	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> , <b>2010</b> , 26, 6529-34	4	29
19	Structural properties of polysaccharide-based microcapsules for soft tissue regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2010</b> , 21, 365-75	4.5	39
18	Mineral phase deposition on pectin microspheres. <i>Materials Science and Engineering C</i> , <b>2010</b> , 30, 491-496	6.3	20
17	Fabrication of chemically cross-linked porous gelatin matrices. <i>Journal of Applied Biomaterials and Biomechanics</i> , <b>2009</b> , 7, 194-9		
16	Antibacterial activity of zinc modified titanium oxide surface. <i>International Journal of Artificial Organs</i> , <b>2006</b> , 29, 434-42	1.9	91
15	In vitro interaction of human fibroblasts and platelets with a shape-memory polyurethane. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2005</b> , 73, 1-11	5.4	41
14	Design, synthesis and properties of polyurethane hydrogels for tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2003</b> , 14, 683-6	4.5	55
13	Silk fibroin/poly(carbonate)-urethane as a substrate for cell growth: in vitro interactions with human cells. <i>Biomaterials</i> , <b>2003</b> , 24, 789-99	15.6	118
12	Silk fibroin-coated three-dimensional polyurethane scaffolds for tissue engineering: interactions with normal human fibroblasts. <i>Tissue Engineering</i> , <b>2003</b> , 9, 1113-21		57
11	In vitro interactions of biomedical polyurethanes with macrophages and bacterial cells. <i>Journal of Biomaterials Applications</i> , <b>2002</b> , 16, 191-214	2.9	14
10	Protein Immobilization onto Newly Developed Polyurethane-Maleamides for Endothelial Cell Growth <b>2001</b> , 235-242		
9	Silk fibroin-polyurethane scaffolds for tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2001</b> , 12, 849-53	4.5	53
8	Novel poly(urethane-aminoamides): an in vitro study of the interaction with heparin. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2000</b> , 11, 353-65	3.5	8

7	In vitro stability of polyether and polycarbonate urethanes. <i>Journal of Biomaterials Applications</i> , <b>2000</b> , 14, 325-48	2.9	47
6	In vitro Stability of Polyether and Polycarbonate Urethanes. <i>Journal of Biomaterials Applications</i> , <b>2000</b> , 14, 325-348	2.9	28
5	Linear poly(ethylene oxide)-based polyurethane hydrogels: polyurethane-ureas and polyurethane-amides. <i>Journal of Materials Science: Materials in Medicine</i> , <b>1999</b> , 10, 635-9	4.5	19
4	Polyurethane-maleamides for cardiovascular applications: synthesis and properties. <i>Journal of Materials Science: Materials in Medicine</i> , <b>1999</b> , 10, 711-4	4.5	4
3	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> , <b>1999</b> , 45, 62-74		48
2	Chemical stability of polyether urethanes versus polycarbonate urethanes. <i>Journal of Biomedical Materials Research Part B</i> , <b>1997</b> , 36, 550-9		123
1	Mucosomes: Intrinsically Mucoadhesive Glycosylated Mucin Nanoparticles as Multi-Drug Delivery Platform. <i>Advanced Healthcare Materials</i> , 2200340	10.1	2