Matteo Santin

List of Publications by Year
in descending order

48 papers	1,827 citations	331670 21 h-index	265206 42 g-index
59 all docs	59 docs citations	59 times ranked	2665 citing authors

#	Article	IF	Citations
1	In vitro evaluation of the inflammatory potential of the silk fibroin. Journal of Biomedical Materials Research Part B, 1999, 46, 382-389.	3.1	395
2	Chitosan-mediated stimulation of macrophage function. Biomaterials, 1994, 15, 1215-1220.	11.4	369
3	The Soybean Isoflavone Genistein Induces Differentiation of MG63 Human Osteosarcoma Osteoblasts. Journal of Nutrition, 2006, 136, 1166-1170.	2.9	80
4	A New Class of Bioactive and Biodegradable Soybean-Based Bone Fillers. Biomacromolecules, 2007, 8, 2706-2711.	5.4	76
5	Soybean-based biomaterials: preparation, properties and tissue regeneration potential. Expert Review of Medical Devices, 2008, 5, 349-358.	2.8	61
6	Effect of the urine conditioning film on ureteral stent encrustation and characterization of its protein composition. Biomaterials, 1999, 20, 1245-1251.	11.4	49
7	Bone regeneration potential of a soybean-based filler: experimental study in a rabbit cancellous bone defects. Journal of Materials Science: Materials in Medicine, 2010, 21, 615-626.	3.6	48
8	A Novel Antibacterial Modification Treatment of Titanium Capable to Improve Osseointegration. International Journal of Artificial Organs, 2012, 35, 864-875.	1.4	48
9	Role of Phosphatidyl-Serine in Bone Repair and Its Technological Exploitation. Molecules, 2009, 14, 5367-5381.	3.8	47
10	Self-hardening calcium deficient hydroxyapatite/gelatine foams for bone regeneration. Journal of Materials Science: Materials in Medicine, 2010, 21, 863-869.	3.6	45
11	In vitro assessment of the osteointegrative potential of a novel multiphase anodic spark deposition coating for orthopaedic and dental implants. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2005, 73B, 392-399.	3.4	41
12	A degradable soybean-based biomaterial used effectively as a bone filler <i>in vivo</i> in a rabbit. Biomedical Materials (Bristol), 2010, 5, 015008.	3.3	40
13	In vivo biofunctional evaluation of hydrogels for disc regeneration. European Spine Journal, 2014, 23, 19-26.	2.2	39
14	In vivo performance of novel soybean/gelatin-based bioactive and injectable hydroxyapatite foams. Acta Biomaterialia, 2015, 12, 242-249.	8.3	39
15	Fibrinogen adsorption and platelet adhesion to metal and carbon coatings. Thrombosis and Haemostasis, 2004, 92, 1032-1039.	3.4	38
16	In vitro host response assessment of biomaterials for cardiovascular stent manufacture. Journal of Materials Science: Materials in Medicine, 2004, 15, 473-477.	3.6	38
17	Dendrimeric Poly(Epsilon-Lysine) Delivery Systems for the Enhanced Permeability of Flurbiprofen across the Blood-Brain Barrier in Alzheimerâ€™s Disease. International Journal of Molecular Sciences, 2018, 19, 3224.	4.1	34
18	Effect of PMMA cement radical polymerisation on the inflammatory response. Journal of Materials Science: Materials in Medicine, 2004, 15, 1175-1180.	3.6	25

#	Article	IF	Citations
19	Novel Superparamagnetic Microdevices Based on Magnetized PLGA/PLA Microparticles Obtained by Supercritical Fluid Emulsion and Coating by Carboxybetaine-Functionalized Chitosan Allowing the Tuneable Release of Therapeutics. Journal of Pharmaceutical Sciences, 2017, 106, 2097-2105.	3.3	25
20	Effects of phosphatidylserine coatings on titanium on inflammatory cells and cell-induced mineralisation in vitro. Biomaterials, 2005, 26, 7572-7578.	11.4	24
21	Calcium-binding phospholipids as a coating material for implant osteointegration. Journal of the Royal Society Interface, 2006, 3, 277-281.	3.4	23
22	Synthesis and Characterization of Soybean-Based Hydrogels with an Intrinsic Activity on Cell Differentiation. Tissue Engineering - Part A, 2012, 18, 1932-1939.	3.1	20
23	Antiâ€angiogenic potential of VEGF blocker dendron loaded on to gellan gum hydrogels for tissue engineering applications. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e669-e678.	2.7	19
24	Synthesis, Characterisation and in vitro Antiâ€Angiogenic Potential of Dendron VEGF Blockers. Macromolecular Bioscience, 2011, 11, 1761-1765.	4.1	18
25	Interfacial biology of in-stent restenosis. Expert Review of Medical Devices, 2005, 2, 429-443.	2.8	17
26	Biomimetic coating with phosphoserineâ€tethered poly(epsilonâ€lysine) dendrons on titanium surfaces enhances Wnt and osteoblastic differentiation. Clinical Oral Implants Research, 2014, 25, e133-9.	4.5	16
27	Rapid and efficient magnetization of mesenchymal stem cells by dendrimer-functionalized magnetic nanoparticles. Nanomedicine, 2016, 11, 1519-1534.	3.3	15
28	Substrate-induced phenotypic switches of human smooth muscle cells: an<i>in vitro</i>study of in-stent restenosis activation pathways. Journal of the Royal Society Interface, 2011, 8, 641-649.	3.4	13
29	Complexation of Injectable Biphasic Calcium Phosphate with Phosphoserine-Presenting Dendrons with Enhanced Osteoregenerative Properties. ACS Applied Materials & Interfaces, 2020, 12, 37873-37884.	8.0	13
30	Carboxybetaine-modified succinylated chitosan-based beads encourage pancreatic Î²-cells (Min-6) to form islet-like spheroids under in vitro conditions. Journal of Materials Science: Materials in Medicine, 2018, 29, 15.	3.6	10
31	Designing and Characterization of a Novel Delivery System for Improved Cellular Uptake by Brain Using Dendronised Apo-E-Derived Peptide. Frontiers in Bioengineering and Biotechnology, 2019, 7, 49.	4.1	9
32	A Peptide-Based Nanocarrier for an Enhanced Delivery and Targeting of Flurbiprofen into the Brain for the Treatment of Alzheimerâ€™s Disease: An In Vitro Study. Nanomaterials, 2020, 10, 1590.	4.1	9
33	Pre-clinical evaluation of soybean-based wound dressings and dermal substitute formulations in pig healing and non-healing in vivo models. Burns and Trauma, 2014, 2, 187.	0.7	8
34	Vascular Endothelial Growth Factor Sequestration Enhances In Vivo Cartilage Formation. International Journal of Molecular Sciences, 2017, 18, 2478.	4.1	8
35	A multistep in vitro hemocompatibility testing protocol recapitulating the foreign body reaction to nanocarriers. Drug Delivery and Translational Research, 2022, 12, 2089-2100.	5.8	8
36	Stent material surface and glucose activate mononuclear cells of control, type 1 and type 2 diabetes subjects. Journal of Biomedical Materials Research - Part A, 2007, 83A, 52-57.	4.0	7

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37	New Aî²(1â€"42) ligands from anti-amyloid antibodies: Design, synthesis, and structural interaction. European Journal of Medicinal Chemistry, 2022, 237, 114400.	5.5	7
38	Osseointegration of titanium implants functionalised with phosphoserine-tethered poly(epsilon-lysine) dendrons: a comparative study with traditional surface treatments in sheep. Journal of Materials Science: Materials in Medicine, 2015, 26, 87.	3.6	6
39	Hyperbranched poly(Ïµ-lysine) substrate presenting the laminin sequence YIGSR induces the formation of spheroids in adult bone marrow stem cells. PLoS ONE, 2017, 12, e0187182.	2.5	6
40	Assessment of Cytocompatibility and Anti-Inflammatory (Inter)Actions of Genipin-Crosslinked Chitosan Powders. Biology, 2020, 9, 159.	2.8	4
41	Direct comparison of the short-term clinical performance of Z Guidant and Taxus stents. International Journal of Cardiology, 2010, 145, e83-e85.	1.7	3
42	Gadolinium Tagged Osteoprotegerin-Mimicking Peptide: A Novel Magnetic Resonance Imaging Biospecific Contrast Agent for the Inhibition of Osteoclastogenesis and Osteoclast Activity. Nanomaterials, 2018, 8, 399.	4.1	3
43	A comparative in vitro study of the effect of biospecific integrin recognition processes and substrate nanostructure on stem cell 3D spheroid formation. Journal of Materials Science: Materials in Medicine, 2020, 31, 37.	3.6	3
44	Development of scaffold-free vascularized pancreatic beta-islets in vitro models by the anchoring of cell lines to a bioligand-functionalized gelatine substrate. Journal of Materials Science: Materials in Medicine, 2022, 33, 37.	3.6	3
45	A Substrate-Mimicking Basement Membrane Drives the Organization of Human Mesenchymal Stromal Cells and Endothelial Cells Into Perivascular Niche-Like Structures. Frontiers in Cell and Developmental Biology, 2021, 9, 701842.	3.7	2
46	Soybean-based biomaterial granules induce biomineralization in MG-63 human osteosarcoma osteoblast-like cells through ultrastructural changes and phagocytic activity. Journal of Materials Science: Materials in Medicine, 2015, 26, 122.	3.6	1
47	Conclusions: Towards High-Performance and Industrially Sustainable Tissue Engineering Products. , 2009, , 1-27.		0
48	Poly(epsilon-lysine) dendrons and nucleic acids complexes for non-viral delivery of bacteriophage DNA into bacterial cells. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, 0, , 239779142211022.	0.6	0