Silvia Panzavolta

List of Publications by Year
in descending order

44 papers	1,895 citations	257450 24 h-index	254184 43 g-index
44 all docs	44 docs citations	44 times ranked	2879 citing authors

#	Article	IF	Citations
1	Electrospun gelatin nanofibers: Optimization of genipin cross-linking to preserve fiber morphology after exposure to water. Acta Biomaterialia, 2011, 7, 1702-1709.	8.3	217
2	Nanocrystalline hydroxyapatite coatings on titanium: a new fast biomimetic method. Biomaterials, 2005, 26, 4085-4089.	11.4	192
3	Nanocrystals of magnesium and fluoride substituted hydroxyapatite. Journal of Inorganic Biochemistry, 1998, 72, 29-35.	3.5	170
4	Biomimetic Growth of Hydroxyapatite on Gelatin Films Doped with Sodium Polyacrylate. Biomacromolecules, 2000, 1, 752-756.	5.4	99
5	Twisted Plywood Pattern of Collagen Fibrils in Teleost Scales: An X-ray Diffraction Investigation. Journal of Structural Biology, 2001, 136, 137-143.	2.8	96
6	Hydroxyapatite/polyacrylic acid nanocrystals. Journal of Materials Chemistry, 1999, 9, 779-782.	6.7	83
7	Structural differences between â€œdarkâ€• and â€œbrightâ€• isolated human osteonic lamellae. Journal of Structural Biology, 2003, 141, 22-33.	2.8	81
8	Structural reinforcement and failure analysis in composite nanofibers of graphene oxide and gelatin. Carbon, 2014, 78, 566-577.	10.3	81
9	Co-electrospun gelatin-poly(l-lactic acid) scaffolds: Modulation of mechanical properties and chondrocyte response as a function of composition. Materials Science and Engineering C, 2014, 36, 130-138.	7.3	71
10	Setting Mechanism of a Biomimetic Bone Cement. Chemistry of Materials, 2004, 16, 3740-3745.	6.7	57
11	Role of pH on stability and mechanical properties of gelatin films. Journal of Bioactive and Compatible Polymers, 2012, 27, 67-77.	2.1	54
12	Effect of sterilization and crosslinking on gelatin films. Journal of Materials Science: Materials in Medicine, 2015, 26, 69.	3.6	51
13	Synthesis and hydrolysis of octacalcium phosphate: effect of sodium polyacrylate. Journal of Inorganic Biochemistry, 1999, 75, 145-151.	3.5	48
14	3D interconnected porous biomimetic scaffolds: <i>In vitro</i> cell response. Journal of Biomedical Materials Research - Part A, 2013, 101, 3560-3570.	4.0	44
15	Atmospheric Pressure Non-Equilibrium Plasma as a Green Tool to Crosslink Gelatin Nanofibers. Scientific Reports, 2016, 6, 38542.	3.3	43
16	Functional properties of chitosan films modified by snail mucus extract. International Journal of Biological Macromolecules, 2020, 143, 126-135.	7.5	37
17	Multiâ€Layered Scaffolds for Osteochondral Tissue Engineering: In Vitro Response of Coâ€Cultured Human Mesenchymal Stem Cells. Macromolecular Bioscience, 2015, 15, 1535-1545.	4.1	36
18	Strontiumâ€Substituted Hydroxyapatiteâ€Gelatin Biomimetic Scaffolds Modulate Bone Cell Response. Macromolecular Bioscience, 2018, 18, e1800096.	4.1	36

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19	Cellulose derivatives-snail slime films: New disposable eco-friendly materials for food packaging. Food Hydrocolloids, 2021, 111, 106247.	10.7	36
20	Effect of sodium polyacrylate on the hydrolysis of octacalcium phosphate. Journal of Inorganic Biochemistry, 2000, 78, 227-233.	3.5	34
21	Hollow-fiber flow field-flow fractionation and multi-angle light scattering investigation of the size, shape and metal-release of silver nanoparticles in aqueous medium for nano-risk assessment. Journal of Pharmaceutical and Biomedical Analysis, 2015, 106, 92-99.	2.8	34
22	Non-equilibrium atmospheric pressure plasma as innovative method to crosslink and enhance mucoadhesion of econazole-loaded gelatin films for buccal drug delivery. Colloids and Surfaces B: Biointerfaces, 2018, 163, 73-82.	5.0	31
23	Highly Porous Gelatin Reinforced 3D Scaffolds for Articular Cartilage Regeneration. Macromolecular Bioscience, 2015, 15, 941-952.	4.1	28
24	Modulation of Alendronate release from a calcium phosphate bone cement: An in vitro osteoblast-osteoclast co-culture study. International Journal of Pharmaceutics, 2019, 554, 245-255.	5.2	28
25	Electrospinning of Fish Gelatin Solution Containing Citric Acid: An Environmentally Friendly Approach to Prepare Crosslinked Gelatin Fibers. Materials, 2019, 12, 2808.	2.9	26
26	Spray-congealed solid lipid microparticles as a new tool for the controlled release of bisphosphonates from a calcium phosphate bone cement. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 122, 6-16.	4.3	17
27	Development and in vitro evaluation of mucoadhesive gelatin films for the vaginal delivery of econazole. International Journal of Pharmaceutics, 2020, 591, 119979.	5.2	16
28	Montmorillonite reinforced type A gelatin nanocomposites. Journal of Applied Polymer Science, 2014, 131, .	2.6	15
29	Optimization of a biomimetic bone cement: Role of DCPD. Journal of Inorganic Biochemistry, 2011, 105, 1060-1065.	3.5	14
30	Osteoinductivity of nanostructured hydroxyapatiteâ€functionalized gelatin modulated by human and endogenous mesenchymal stromal cells. Journal of Biomedical Materials Research - Part A, 2018, 106, 914-923.	4.0	13
31	A new simplified calcifying solution to synthesize calcium phosphate coatings. Surface and Coatings Technology, 2013, 232, 13-21.	4.8	12
32	A radiopaque calcium phosphate bone cement with long-lasting antibacterial effect: From paste to injectable formulation. Ceramics International, 2020, 46, 10048-10057.	4.8	12
33	Novel drug-loaded film forming patch based on gelatin and snail slime. International Journal of Pharmaceutics, 2021, 598, 120408.	5.2	12
34	An innovative co-axial system to electrospin <i>in situ</i> crosslinked gelatin nanofibers. Biomedical Materials (Bristol), 2016, 11, 025007.	3.3	11
35	Synthesis Monitoring, Characterization and Cleanup of Ag-Polydopamine Nanoparticles Used as Antibacterial Agents with Field-Flow Fractionation. Antibiotics, 2022, 11, 358.	3.7	11
36	A Modular Composite Device of Poly(Ethylene Oxide)/Poly(Butylene Terephthalate) (PEOT/PBT) Nanofibers and Gelatin as a Dual Drug Delivery System for Local Therapy of Soft Tissue Tumors. International Journal of Molecular Sciences, 2022, 23, 3239.	4.1	11

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37	Fiber reinforcement of a biomimetic bone cement. Journal of Materials Science: Materials in Medicine, 2012, 23, 1363-1370.	3.6	10
38	Gelatin Porous Scaffolds as Delivery Systems of Calcium Alendronate. Macromolecular Bioscience, 2017, 17, 1600272.	4.1	9
39	Fast Coprecipitation of Calcium Phosphate Nanoparticles inside Gelatin Nanofibers by Tricoaxial Electrospinning. Journal of Nanomaterials, 2016, 2016, 1-7.	2.7	7
40	Self-assembling of fibers inside an injectable calcium phosphate bone cement: a feasibility study. Materials Today Chemistry, 2022, 24, 100991.	3.5	6
41	Cylindrical Layered Bone Scaffolds with Anisotropic Mechanical Properties as Potential Drug Delivery Systems. Molecules, 2019, 24, 1931.	3.8	3
42	In Vivo and In Vitro Response to a Gelatin/Î±-Tricalcium Phosphate Bone Cement. Key Engineering Materials, 2008, 361-363, 1001-1004.	0.4	2
43	Antiosteoporotic Nanohydroxyapatite Zoledronate Scaffold Seeded with Bone Marrow Mesenchymal Stromal Cells for Bone Regeneration: A 3D In Vitro Model. International Journal of Molecular Sciences, 2022, 23, 5988.	4.1	1
44	Fast Deposition of Nanocrystalline Hydroxyapatite into Additive Manufactured Titanium Porous Structures. Key Engineering Materials, 2011, 493-494, 458-461.	0.4	0