

Alessandro Sannino

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1897054/alessandro-sannino-publications-by-citations.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

98
papers

3,459
citations

32
h-index

57
g-index

105
ext. papers

4,120
ext. citations

4.7
avg, IF

5.44
L-index

#	Paper	IF	Citations
98	Biodegradable Cellulose-based Hydrogels: Design and Applications. <i>Materials</i> , 2009 , 2, 353-373	3.5	527
97	Novel superabsorbent cellulose-based hydrogels crosslinked with citric acid. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 2453-2460	2.9	293
96	Polymeric hydrogels for burn wound care: Advanced skin wound dressings and regenerative templates. <i>Burns and Trauma</i> , 2014 , 2, 153-61		175
95	Metal-Based Antibacterial Substrates for Biomedical Applications. <i>Biomacromolecules</i> , 2015 , 16, 1873-856.9		117
94	Highly loaded hydroxyapatite microsphere/ PLA porous scaffolds obtained by fused deposition modelling. <i>Ceramics International</i> , 2019 , 45, 2803-2810	5.1	109
93	Fabricating tubular scaffolds with a radial pore size gradient by a spinning technique. <i>Biomaterials</i> , 2006 , 27, 866-74	15.6	107
92	Biodegradable Superabsorbent Hydrogel Increases Water Retention Properties of Growing Media and Plant Growth. <i>Agriculture and Agricultural Science Procedia</i> , 2015 , 4, 451-458		98
91	Collagen-based matrices with axially oriented pores. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 85, 757-67	5.4	98
90	Environmentally sustainable production of cellulose-based superabsorbent hydrogels. <i>Green Chemistry</i> , 2006 , 8, 439	10	81
89	Wollastonite/hydroxyapatite scaffolds with improved mechanical, bioactive and biodegradable properties for bone tissue engineering. <i>Ceramics International</i> , 2013 , 39, 619-627	5.1	75
88	Development and characterization of UV curable epoxy/hydroxyapatite suspensions for stereolithography applied to bone tissue engineering. <i>Ceramics International</i> , 2014 , 40, 15455-15462	5.1	65
87	Genipin-cross-linked chitosan-based hydrogels: Reaction kinetics and structure-related characteristics. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	63
86	Photo-crosslinked poly(ethylene glycol) diacrylate (PEGDA) hydrogels from low molecular weight prepolymer: Swelling and permeation studies. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	58
85	Experimental Assessment of the Use of a Novel Superabsorbent polymer (SAP) for the Optimization of Water Consumption in Agricultural Irrigation Process. <i>Water (Switzerland)</i> , 2014 , 6, 2056-2069		58
84	Ultrasonic monitoring of the network formation in superabsorbent cellulose based hydrogels. <i>Polymer</i> , 2005 , 46, 1796-1803	3.9	57
83	The feasibility of printing polylactic acid/hydroxyapatite composites using a low-cost fused deposition modeling 3D printer. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	54
82	Metal nanoantimicrobials for textile applications. <i>Nanotechnology Reviews</i> , 2013 , 2, 307-331	6.3	52

81	Marine collagen and its derivatives: Versatile and sustainable bio-resources for healthcare. <i>Materials Science and Engineering C</i> , 2020 , 113, 110963	8.3	51
80	Scaffolds for bone regeneration made of hydroxyapatite microspheres in a collagen matrix. <i>Materials Science and Engineering C</i> , 2016 , 63, 499-505	8.3	50
79	Assessment of collagen crosslinking and denaturation for the design of regenerative scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 186-94	5.4	45
78	3D printing of hydroxyapatite polymer-based composites for bone tissue engineering. <i>Journal of Polymer Engineering</i> , 2017 , 37, 741-746	1.4	42
77	High-Performance Hydroxyapatite Scaffolds for Bone Tissue Engineering Applications. <i>International Journal of Applied Ceramic Technology</i> , 2012 , 9, 507-516	2	42
76	13C Solid-State NMR Determination of Cross-Linking Degree in Superabsorbing Cellulose-Based Networks. <i>Macromolecules</i> , 2000 , 33, 430-437	5.5	41
75	Collagen scaffold for cartilage tissue engineering: the benefit of fibrin glue and the proper culture time in an infant cartilage model. <i>Tissue Engineering - Part A</i> , 2014 , 20, 1113-26	3.9	40
74	Response of intestinal cells and macrophages to an orally administered cellulose-PEG based polymer as a potential treatment for intractable edemas. <i>Biomaterials</i> , 2005 , 26, 4101-10	15.6	39
73	Gelatin/nano-hydroxyapatite hydrogel scaffold prepared by sol-gel technology as filler to repair bone defects. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 2007-2019	5.4	38
72	Biocompatible Collagen Paramagnetic Scaffold for Controlled Drug Release. <i>Biomacromolecules</i> , 2015 , 16, 2599-608	6.9	37
71	One-step solvent-free process for the fabrication of high loaded PLA/HA composite filament for 3D printing. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 134, 575-582	4.1	36
70	Efficacy of silver coated surgical sutures on bacterial contamination, cellular response and wound healing. <i>Materials Science and Engineering C</i> , 2016 , 69, 884-93	8.3	36
69	Influence of Nanofiber Orientation on Morphological and Mechanical Properties of Electrospun Chitosan Mats. <i>Journal of Healthcare Engineering</i> , 2018 , 2018, 3651480	3.7	36
68	Proliferation and osteoblastic differentiation of hMSCs on cellulose-based hydrogels. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012 , 10, 302-7	1.8	33
67	Hydrogel based tissue mimicking phantom for in-vitro ultrasound contrast agents studies. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008 , 87, 338-45	3.5	33
66	Peripheral nerve morphogenesis induced by scaffold micropatterning. <i>Biomaterials</i> , 2014 , 35, 4035-4045	15.6	31
65	Sterilization of collagen scaffolds designed for peripheral nerve regeneration: Effect on microstructure, degradation and cellular colonization. <i>Materials Science and Engineering C</i> , 2017 , 71, 335-344	8.3	31
64	Development and characterization of cellulose-based hydrogels for use as dietary bulking agents. <i>Journal of Applied Polymer Science</i> , 2010 , 115, 1438-1444	2.9	31

63	Preparation and characterization of cellulose-based foams via microwave curing. <i>Interface Focus</i> , 2014 , 4, 20130053	3.9	28
62	Full experimental modelling of a liver tissue mimicking phantom for medical ultrasound studies employing different hydrogels. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 983-9	4.5	28
61	Enhanced electrical conductivity of collagen films through long-range aligned iron oxide nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2017 , 501, 185-191	9.3	27
60	An insight on type I collagen from horse tendon for the manufacture of implantable devices. <i>International Journal of Biological Macromolecules</i> , 2020 , 154, 291-306	7.9	26
59	Cellulose-based porous scaffold for bone tissue engineering applications: Assessment of hMSC proliferation and differentiation. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 726-733	5.4	26
58	Fabrication and Pilot In Vivo Study of a Collagen-BDDGE-Elastin Core-Shell Scaffold for Tendon Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016 , 4, 52	5.8	24
57	Potential of Electrospun Poly(3-hydroxybutyrate)/Collagen Blends for Tissue Engineering Applications. <i>Journal of Healthcare Engineering</i> , 2018 , 2018, 6573947	3.7	24
56	Evaluation of the degree of cross-linking of cellulose-based superabsorbent hydrogels: a comparison between different techniques. <i>Macromolecular Symposia</i> , 2003 , 200, 199-208	0.8	23
55	Photo-assisted green synthesis of silver doped silk fibroin/carboxymethyl cellulose nanocomposite hydrogels for biomedical applications. <i>Materials Science and Engineering C</i> , 2020 , 107, 110219	8.3	23
54	Osteoinductive and anti-inflammatory properties of chitosan-based scaffolds for bone regeneration. <i>Materials Science and Engineering C</i> , 2019 , 105, 110046	8.3	22
53	Biomimetic gradient scaffold of collagen-hydroxyapatite for osteochondral regeneration.. <i>Journal of Tissue Engineering</i> , 2020 , 11, 2041731419896068	7.5	21
52	The biomaterialist's task: scaffold biomaterials and fabrication technologies. <i>Joints</i> , 2013 , 01, 130-137	1.1	21
51	In Vitro Assessment of the Antibacterial Potential of Silver Nano-Coatings on Cotton Gauzes for Prevention of Wound Infections. <i>Materials</i> , 2016 , 9,	3.5	21
50	Sub- and Supramolecular X-Ray Characterization of Engineered Tissues from Equine Tendon, Bovine Dermis, and Fish Skin Type-I Collagen. <i>Macromolecular Bioscience</i> , 2020 , 20, e2000017	5.5	20
49	Biodegradable poly(lactic acid)/cellulose-based superabsorbent hydrogel composite material as water and fertilizer reservoir in agricultural applications. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47546	2.9	20
48	Antibacterial and antifungal dressings obtained by photochemical deposition of silver nanoparticles. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	19
47	Mimicking the Hierarchical Organization of Natural Collagen: Toward the Development of Ideal Scaffolding Material for Tissue Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 644595	5.8	19
46	Bioactive chitosan-based scaffolds with improved properties induced by dextran-grafted nano-maghemite and l-arginine amino acid. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 1244-1252	5.4	18

45	Osteochondral repair by a novel interconnecting collagen-hydroxyapatite substitute: a large-animal study. <i>Tissue Engineering - Part A</i> , 2015 , 21, 704-15	3.9	18
44	Investigations of Processing-Induced Structural Changes in Horse Type-I Collagen at Sub and Supramolecular Levels. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 203	5.8	13
43	An Overview of the Use of Equine Collagen as Emerging Material for Biomedical Applications. <i>Journal of Functional Biomaterials</i> , 2020 , 11,	4.8	13
42	Fast synthesis of poly(ethylene glycol) diacrylate cryogels via UV irradiation. <i>Materials Letters</i> , 2018 , 218, 305-308	3.3	13
41	Spectroscopic Characterization and Nanosafety of Ag-Modified Antibacterial Leather and Leatherette. <i>Nanomaterials</i> , 2017 , 7,	5.4	13
40	A novel composite type I collagen scaffold with micropatterned porosity regulates the entrance of phagocytes in a severe model of spinal cord injury. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 1040-1053	3.5	12
39	Design and characterization of microcapsules-integrated collagen matrixes as multifunctional three-dimensional scaffolds for soft tissue engineering. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 62, 209-221	4.1	12
38	Development of hybrid cotton/hydrogel yarns with improved absorption properties for biomedical applications. <i>Materials Science and Engineering C</i> , 2016 , 63, 563-9	8.3	12
37	Chitosan scaffolds for cartilage regeneration: influence of different ionic crosslinkers on biomaterial properties. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2019 , 68, 936-945	3	12
36	Simplified preparation and characterization of magnetic hydroxyapatite-based nanocomposites. <i>Materials Science and Engineering C</i> , 2017 , 76, 1166-1174	8.3	11
35	Development of semi- and grafted interpenetrating polymer networks based on poly(ethylene glycol) diacrylate and collagen. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2014 , 12, 183-92 ^{1.8}		11
34	Embryonic stem cell extracts improve wound healing in diabetic mice. <i>Acta Diabetologica</i> , 2020 , 57, 883-890	9	9
33	Mechanical stability of highly porous hydroxyapatite scaffolds during different stages of in vitro studies. <i>Materials Letters</i> , 2016 , 185, 239-242	3.3	9
32	Encapsulation of <i>Lactobacillus kefir</i> in alginate microbeads using a double novel aerosol technique. <i>Materials Science and Engineering C</i> , 2017 , 77, 548-555	8.3	7
31	Effect of inorganic and organic bioactive signals decoration on the biological performance of chitosan scaffolds for bone tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2018 , 29, 62	4.5	7
30	Novel PHB/Olive mill wastewater residue composite based film: Thermal, mechanical and degradation properties. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 6001-6007	6.8	7
29	Biomechanical evaluation of hMSCs-based engineered cartilage for chondral tissue regeneration. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 86, 294-304	4.1	7
28	Proteomic expression profile of injured rat peripheral nerves revealed biological networks and processes associated with nerve regeneration. <i>Journal of Cellular Physiology</i> , 2018 , 233, 6207-6223	7	6

27	Poly(lactide-co-glycolide) nanoparticles embedded in a micropatterned collagen scaffold for neuronal tissue regeneration. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2017 , 66, 359-368	3	6
26	Analysis of the Physico-Chemical, Mechanical and Biological Properties of Crosslinked Type-I Collagen from Horse Tendon: Towards the Development of Ideal Scaffolding Material for Urethral Regeneration.. <i>Materials</i> , 2021 , 14,	3.5	6
25	The biomaterialist's task: scaffold biomaterials and fabrication technologies. <i>Joints</i> , 2013 , 1, 130-7	1.1	6
24	Exploring the effects of the crosslink density on the physicochemical properties of collagen-based scaffolds. <i>Polymer Testing</i> , 2021 , 93, 106966	4.5	6
23	Development and biological validation of a cyclic stretch culture system for the ex vivo engineering of tendons. <i>International Journal of Artificial Organs</i> , 2018 , 41, 400-412	1.9	6
22	Determination of absorption and structural properties of cellulose-based hydrogel via ultrasonic pulse-echo time-of-flight approach. <i>Cellulose</i> , 2018 , 25, 4331-4343	5.5	5
21	Assessment of physico-chemical and biological properties of sericin-collagen substrates for PNS regeneration. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2021 , 70, 403-413	3	5
20	Development of antibacterial silver treatments on HDPE nets for agriculture. <i>Journal of Applied Polymer Science</i> , 2014 , 132, n/a-n/a	2.9	4
19	Evaluation of in Vivo Response of Three Biphasic Scaffolds for Osteochondral Tissue Regeneration in a Sheep Model. <i>Veterinary Sciences</i> , 2019 , 6,	2.4	4
18	Antibacterial silver treatments on polymeric membranes for fouling control and disinfection in water filtration. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	3
17	Investigating the Structure-Related Properties of Cellulose-Based Superabsorbent Hydrogels 2019 ,		3
16	Preparation and Characterization of Collagen/Hydroxyapatite Microsphere Composite Scaffold for Bone Regeneration. <i>Key Engineering Materials</i> , 2013 , 587, 239-244	0.4	3
15	Microwave-induced porosity and bioactivation of chitosan-PEGDA scaffolds: morphology, mechanical properties and osteogenic differentiation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 86-98	4.4	3
14	Development of a Novel Hybrid Porous Scaffold for Bone Tissue Engineering: Forsterite Nanopowder Reinforced Chitosan. <i>Key Engineering Materials</i> , 2013 , 587, 249-254	0.4	3
13	Acrylic-based hydrogel phantom for in vitro ultrasound contrast agent characterization. <i>Virtual and Physical Prototyping</i> , 2007 , 2, 191-196	10.1	3
12	Influence of the Precipitation Temperature on Properties of Nanohydroxyapatite Powder for the Fabrication of Highly Porous Bone Scaffolds. <i>Key Engineering Materials</i> , 2013 , 587, 27-32	0.4	2
11	Development and Mechanical Characterization of a Collagen/Hydroxyapatite Bilayered Scaffold for Osteochondral Defect Replacement. <i>Key Engineering Materials</i> , 2011 , 493-494, 890-895	0.4	2
10	Evidence of Modular Responsiveness of Osteoblast-Like Cells Exposed to Hydroxyapatite-Containing Magnetic Nanostructures. <i>Biology</i> , 2020 , 9,	4.9	2

9	Progress and Perspectives in the Management of Wound Infections 2016 ,		1
8	Semi-interpenetrating polymer network cryogels based on poly(ethylene glycol) diacrylate and collagen as potential off-the-shelf platforms for cancer cell research. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021 , 109, 1313-1326	3.5	1
7	WAXS and SAXS Investigation of Collagen-Rich Diet Effect on Multiscale Arrangement of Type I Collagen in Tilapia Skin Fed in Aquaponics Plant. <i>Crystals</i> , 2022 , 12, 700	2.3	1
6	Nonconventional Routes to Silver Nanoantimicrobials 2015 , 87-105		0
5	Recent advances in therapies utilizing superabsorbent hydrogel technology for weight management: A review. <i>Obesity Science and Practice</i> ,	2.6	0
4	Biomimetic cellulose-based superabsorbent hydrogels for treating obesity. <i>Scientific Reports</i> , 2021 , 11, 21394	4.9	0
3	Design of Antibody-Functionalized Polymeric Membranes for the Immunoisolation of Pancreatic Islets. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6056	2.6	0
2	Regenerative Medicine as an Industry 2014 , 969-976		
1	Mechanical Performance and In Vitro Studies of Hydroxyapatite/Wollastonite Scaffold for Bone Tissue Engineering. <i>Key Engineering Materials</i> , 2011 , 493-494, 855-860	0.4	