

Alessandro Sannino

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.

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	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
97	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
96	Biomimetic cellulose-based superabsorbent hydrogels for treating obesity. <i>Scientific Reports</i> , 2021 , 11, 21394	4.9	0
95	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
94	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
93	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
92	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
91	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
90	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
89	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
88	Biomimetic gradient scaffold of collagen-hydroxyapatite for osteochondral regeneration.. <i>Journal of Tissue Engineering</i> , 2020 , 11, 2041731419896068	7.5	21
87	Embryonic stem cell extracts improve wound healing in diabetic mice. <i>Acta Diabetologica</i> , 2020 , 57, 883-890	3.9	9
86	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
85	Design of Antibody-Functionalized Polymeric Membranes for the Immunoisolation of Pancreatic Islets. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6056	2.6	0
84	Evidence of Modular Responsiveness of Osteoblast-Like Cells Exposed to Hydroxyapatite-Containing Magnetic Nanostructures. <i>Biology</i> , 2020 , 9,	4.9	2
83	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
82	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

81	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
80	Highly loaded hydroxyapatite microsphere/ PLA porous scaffolds obtained by fused deposition modelling. <i>Ceramics International</i> , 2019 , 45, 2803-2810	5.1	109
79	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
78	Investigating the Structure-Related Properties of Cellulose-Based Superabsorbent Hydrogels 2019 ,		3
77	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
76	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
75	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
74	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
73	Fast synthesis of poly(ethylene glycol) diacrylate cryogels via UV irradiation. <i>Materials Letters</i> , 2018 , 218, 305-308	3.3	13
72	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
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	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
69	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
68	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
67	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
66	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
65	Potential of Electrospun Poly(3-hydroxybutyrate)/Collagen Blends for Tissue Engineering Applications. <i>Journal of Healthcare Engineering</i> , 2018 , 2018, 6573947	3.7	24
64	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

63	3D printing of hydroxyapatite polymer-based composites for bone tissue engineering. <i>Journal of Polymer Engineering</i> , 2017 , 37, 741-746	1.4	42
62	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
61	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
60	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
59	Simplified preparation and characterization of magnetic hydroxyapatite-based nanocomposites. <i>Materials Science and Engineering C</i> , 2017 , 76, 1166-1174	8.3	11
58	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
57	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
56	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
55	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
54	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
53	Spectroscopic Characterization and Nanosafety of Ag-Modified Antibacterial Leather and Leatherette. <i>Nanomaterials</i> , 2017 , 7,	5.4	13
52	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
51	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
50	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
49	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
48	Progress and Perspectives in the Management of Wound Infections 2016 ,		1
47	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
46	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

45	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
44	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
43	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
42	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
41	Metal-Based Antibacterial Substrates for Biomedical Applications. <i>Biomacromolecules</i> , 2015 , 16, 1873-856.9		117
40	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
39	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
38	Biocompatible Collagen Paramagnetic Scaffold for Controlled Drug Release. <i>Biomacromolecules</i> , 2015 , 16, 2599-608	6.9	37
37	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
36	Nonconventional Routes to Silver Nanoantimicrobials 2015 , 87-105		0
35	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
34	Peripheral nerve morphogenesis induced by scaffold micropatterning. <i>Biomaterials</i> , 2014 , 35, 4035-4045.5.6	5.6	31
33	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
32	Polymeric hydrogels for burn wound care: Advanced skin wound dressings and regenerative templates. <i>Burns and Trauma</i> , 2014 , 2, 153-61		175
31	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 ³ 2069		58
30	Regenerative Medicine as an Industry 2014 , 969-976		
29	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
28	Preparation and characterization of cellulose-based foams via microwave curing. <i>Interface Focus</i> , 2014 , 4, 20130053	3.9	28

27	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
26	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}	1.8	11
25	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
24	Preparation and Characterization of Collagen/Hydroxyapatite Microsphere Composite Scaffold for Bone Regeneration. <i>Key Engineering Materials</i> , 2013 , 587, 239-244	0.4	3
23	Metal nanoantimicrobials for textile applications. <i>Nanotechnology Reviews</i> , 2013 , 2, 307-331	6.3	52
22	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
21	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
20	The biomaterialist's task: scaffold biomaterials and fabrication technologies. <i>Joints</i> , 2013 , 01, 130-137	1.1	21
19	The biomaterialist's task: scaffold biomaterials and fabrication technologies. <i>Joints</i> , 2013 , 1, 130-7	1.1	6
18	High-Performance Hydroxyapatite Scaffolds for Bone Tissue Engineering Applications. <i>International Journal of Applied Ceramic Technology</i> , 2012 , 9, 507-516	2	42
17	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
16	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
15	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	
14	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
13	Biodegradable Cellulose-based Hydrogels: Design and Applications. <i>Materials</i> , 2009 , 2, 353-373	3.5	527
12	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
11	Collagen-based matrices with axially oriented pores. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 85, 757-67	5.4	98
10	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

9	Novel superabsorbent cellulose-based hydrogels crosslinked with citric acid. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 2453-2460	2.9	293
8	Acrylic-based hydrogel phantom for in vitro ultrasound contrast agent characterization. <i>Virtual and Physical Prototyping</i> , 2007 , 2, 191-196	10.1	3
7	Environmentally sustainable production of cellulose-based superabsorbent hydrogels. <i>Green Chemistry</i> , 2006 , 8, 439	10	81
6	Fabricating tubular scaffolds with a radial pore size gradient by a spinning technique. <i>Biomaterials</i> , 2006 , 27, 866-74	15.6	107
5	Ultrasonic monitoring of the network formation in superabsorbent cellulose based hydrogels. <i>Polymer</i> , 2005 , 46, 1796-1803	3.9	57
4	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
3	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
2	¹³ C Solid-State NMR Determination of Cross-Linking Degree in Superabsorbing Cellulose-Based Networks. <i>Macromolecules</i> , 2000 , 33, 430-437	5.5	41
1	Recent advances in therapies utilizing superabsorbent hydrogel technology for weight management: A review. <i>Obesity Science and Practice</i> ,	2.6	0