

Jelena Rnjak-Kovacina

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/536642/jelena-rnjak-kovacina-publications-by-year.pdf>

Version: 2024-04-26

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.

62

papers

3,272

citations

28

h-index

57

g-index

64

ext. papers

3,878

ext. citations

9.8

avg, IF

5.54

L-index

#	Paper	IF	Citations
62	Effect of plasma ion immersion implantation on physiochemical and biological properties of silk towards creating a versatile biomaterial platform. <i>Materials Today Advances</i> , 2022 , 13, 100212	7.4	6
61	Bone tissue engineering using 3D silk scaffolds and human dental pulp stromal cells epigenetic reprogrammed with the selective histone deacetylase inhibitor MI192.. <i>Cell and Tissue Research</i> , 2022 , 1	4.2	2
60	Development and Characterization of Gelatin-Norbornene Bioink to Understand the Interplay between Physical Architecture and Micro-Capillary Formation in Biofabricated Vascularized Constructs. <i>Advanced Healthcare Materials</i> , 2021 , e2101873	10.1	4
59	Effect of Recombinant Human Perlecan Domain V Tethering Method on Protein Orientation and Blood Contacting Activity on Polyvinyl Chloride. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100388	10.1	1
58	Impact of Sterilization on a Conjugated Polymer-Based Bioelectronic Patch. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 2541-2552	4.3	1
57	Silk Fibroin Scaffold Architecture Regulates Inflammatory Responses and Engraftment of Bone Marrow-Mononuclear Cells. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100615	10.1	4
56	3D bioprinting of dual-crosslinked nanocellulose hydrogels for tissue engineering applications. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 6163-6175	7.3	11
55	Ice Templating Soft Matter: Fundamental Principles and Fabrication Approaches to Tailor Pore Structure and Morphology and Their Biomedical Applications. <i>Advanced Materials</i> , 2021 , 33, e2100091	24	20
54	Towards engineering heart tissues from bioprinted cardiac spheroids. <i>Biofabrication</i> , 2021 , 13,	10.5	9
53	Strategies for inclusion of growth factors into 3D printed bone grafts. <i>Essays in Biochemistry</i> , 2021 , 65, 569-585	7.6	2
52	Bioengineering silk into blood vessels. <i>Biochemical Society Transactions</i> , 2021 , 49, 2271-2286	5.1	0
51	Biomimetic silk biomaterials: Perlecan-functionalized silk fibroin for use in blood-contacting devices. <i>Acta Biomaterialia</i> , 2021 , 132, 162-175	10.8	5
50	A Biomimetic Approach toward Enhancing Angiogenesis: Recombinantly Expressed Domain V of Human Perlecan Is a Bioactive Molecule That Promotes Angiogenesis and Vascularization of Implanted Biomaterials. <i>Advanced Science</i> , 2020 , 7, 2000900	13.6	9
49	A One Step Procedure toward Conductive Suspensions of Liposome-Polyaniline Complexes. <i>Macromolecular Bioscience</i> , 2020 , 20, e2000103	5.5	1
48	Microchannels Are an Architectural Cue That Promotes Integration and Vascularization of Silk Biomaterials in Vivo. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 1476-1486	5.5	17
47	Rapid Photocrosslinking of Silk Hydrogels with High Cell Density and Enhanced Shape Fidelity. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901667	10.1	45
46	Silk fibroin photo-lyogels containing microchannels as a biomaterial platform for tissue engineering. <i>Biomaterials Science</i> , 2020 , 8, 7093-7105	7.4	6

45	Visible light mediated PVA-tyramine hydrogels for covalent incorporation and tailorable release of functional growth factors. <i>Biomaterials Science</i> , 2020 , 8, 5005-5019	7.4	8
44	3D Bioprinting of Cardiovascular Tissues for In Vivo and In Vitro Applications Using Hybrid Hydrogels Containing Silk Fibroin: State of the Art and Challenges. <i>Current Tissue Microenvironment Reports</i> , 2020 , 1, 261-276	1.1	2
43	Dry Surface Treatments of Silk Biomaterials and Their Utility in Biomedical Applications. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 5431-5452	5.5	9
42	Microchannels in Development, Survival, and Vascularisation of Tissue Analogues for Regenerative Medicine. <i>Trends in Biotechnology</i> , 2019 , 37, 1189-1201	15.1	38
41	Vascular Pedicle and Microchannels: Simple Methods Toward Effective In Vivo Vascularization of 3D Scaffolds. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1901106	10.1	10
40	Altered processing enhances the efficacy of small-diameter silk fibroin vascular grafts. <i>Scientific Reports</i> , 2019 , 9, 17461	4.9	21
39	The Biomedical Use of Silk: Past, Present, Future. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1800465	10.1	299
38	The multifaceted roles of perlecan in fibrosis. <i>Matrix Biology</i> , 2018 , 68-69, 150-166	11.4	21
37	Integration of induced pluripotent stem cell-derived endothelial cells with polycaprolactone/gelatin-based electrospun scaffolds for enhanced therapeutic angiogenesis. <i>Stem Cell Research and Therapy</i> , 2018 , 9, 70	8.3	36
36	Rapid Endothelialization of Off-the-Shelf Small Diameter Silk Vascular Grafts. <i>JACC Basic To Translational Science</i> , 2018 , 3, 38-53	8.7	34
35	Plasma Ion Implantation of Silk Biomaterials Enabling Direct Covalent Immobilization of Bioactive Agents for Enhanced Cellular Responses. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17605-17616	9.5	21
34	Glycosaminoglycan and Proteoglycan-Based Biomaterials: Current Trends and Future Perspectives. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1701042	10.1	39
33	2.18 Elastin Biopolymers ? 2017 , 412-437		
32	Recombinant Domain V of Human Perlecan Is a Bioactive Vascular Proteoglycan. <i>Biotechnology Journal</i> , 2017 , 12, 1700196	5.6	11
31	Silk biomaterials functionalized with recombinant domain V of human perlecan modulate endothelial cell and platelet interactions for vascular applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 148, 130-138	6	21
30	Degradation of silk films in multipocket corneal stromal rabbit models. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2016 , 14, e266-76	1.8	13
29	Bioengineering Proteoglycan-based Matrices For Blood Contacting Applications. <i>FASEB Journal</i> , 2016 , 30, 622.2	0.9	
28	In situ formation of poly(vinyl alcohol)-heparin hydrogels for mild encapsulation and prolonged release of basic fibroblast growth factor and vascular endothelial growth factor. <i>Journal of Tissue Engineering</i> , 2016 , 7, 2041731416677132	7.5	23

27	Bioengineered human heparin with anticoagulant activity. <i>Metabolic Engineering</i> , 2016 , 38, 105-114	9.7	15
26	Lyophilized Silk Sponges: A Versatile Biomaterial Platform for Soft Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 260-270	5.5	120
25	Vascularization of hollow channel-modified porous silk scaffolds with endothelial cells for tissue regeneration. <i>Biomaterials</i> , 2015 , 56, 68-77	15.6	107
24	Robust bioengineered 3D functional human intestinal epithelium. <i>Scientific Reports</i> , 2015 , 5, 13708	4.9	103
23	The effect of sterilization on silk fibroin biomaterial properties. <i>Macromolecular Bioscience</i> , 2015 , 15, 861-74	5.5	45
22	Current serological possibilities for the diagnosis of arthritis with special focus on proteins and proteoglycans from the extracellular matrix. <i>Expert Review of Molecular Diagnostics</i> , 2015 , 15, 77-95	3.8	4
21	Corneal tissue engineering: recent advances and future perspectives. <i>Tissue Engineering - Part B: Reviews</i> , 2015 , 21, 278-87	7.9	112
20	Highly tunable elastomeric silk biomaterials. <i>Advanced Functional Materials</i> , 2014 , 24, 4615-4624	15.6	265
19	Biocompatibility of silk-tropoelastin protein polymers. <i>Biomaterials</i> , 2014 , 35, 5138-47	15.6	50
18	Tropoelastin: a versatile, bioactive assembly module. <i>Acta Biomaterialia</i> , 2014 , 10, 1532-41	10.8	96
17	Silk as a bioadhesive sacrificial binder in the fabrication of hydroxyapatite load bearing scaffolds. <i>Biomaterials</i> , 2014 , 35, 6941-53	15.6	46
16	Arrayed Hollow Channels in Silk-based Scaffolds Provide Functional Outcomes for Engineering Critically-sized Tissue Constructs. <i>Advanced Functional Materials</i> , 2014 , 24, 2188-2196	15.6	63
15	Corneal stromal bioequivalents secreted on patterned silk substrates. <i>Biomaterials</i> , 2014 , 35, 3744-55	15.6	86
14	Tropoelastin modulates TGF- β -induced expression of VEGF and CTGF in airway smooth muscle cells. <i>Matrix Biology</i> , 2013 , 32, 407-13	11.4	12
13	pH-dependent anticancer drug release from silk nanoparticles. <i>Advanced Healthcare Materials</i> , 2013 , 2, 1606-11	10.1	156
12	Multifunctional silk-tropoelastin biomaterial systems. <i>Israel Journal of Chemistry</i> , 2013 , 53, 777-786	3.4	12
11	Accelerated In Vitro Degradation of Optically Clear Low -Sheet Silk Films by Enzyme-Mediated Pretreatment. <i>Translational Vision Science and Technology</i> , 2013 , 2, 2	3.3	34
10	The Role of Elastin in Wound Healing and Dermal Substitute Design 2013 , 57-66		5

9	A silk-based scaffold platform with tunable architecture for engineering critically-sized tissue constructs. <i>Biomaterials</i> , 2012 , 33, 9214-24	15.6	101
8	Electrospun synthetic human elastin:collagen composite scaffolds for dermal tissue engineering. <i>Acta Biomaterialia</i> , 2012 , 8, 3714-22	10.8	120
7	Severe burn injuries and the role of elastin in the design of dermal substitutes. <i>Tissue Engineering - Part B: Reviews</i> , 2011 , 17, 81-91	7.9	70
6	Tailoring the porosity and pore size of electrospun synthetic human elastin scaffolds for dermal tissue engineering. <i>Biomaterials</i> , 2011 , 32, 6729-36	15.6	227
5	Increasing the pore size of electrospun scaffolds. <i>Tissue Engineering - Part B: Reviews</i> , 2011 , 17, 365-72	7.9	182
4	Elastin-based materials. <i>Chemical Society Reviews</i> , 2010 , 39, 3371-9	58.5	177
3	Biomaterials derived from silk-tropoelastin protein systems. <i>Biomaterials</i> , 2010 , 31, 8121-31	15.6	130
2	Synthetic human elastin microfibers: stable cross-linked tropoelastin and cell interactive constructs for tissue engineering applications. <i>Acta Biomaterialia</i> , 2010 , 6, 354-9	10.8	101
1	Primary human dermal fibroblast interactions with open weave three-dimensional scaffolds prepared from synthetic human elastin. <i>Biomaterials</i> , 2009 , 30, 6469-77	15.6	83