

# Stefan Jockenhoevel

## List of Publications by Citations

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133  
papers

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h-index

55  
g-index

146  
ext. papers

4,008  
ext. citations

4.5  
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5.06  
L-index

#	Paper	IF	Citations
133	Fibrin gel as a three dimensional matrix in cardiovascular tissue engineering. <i>European Journal of Cardio-thoracic Surgery</i> , <b>2000</b> , 17, 587-91	3	337
132	Fibrin gel -- advantages of a new scaffold in cardiovascular tissue engineering. <i>European Journal of Cardio-thoracic Surgery</i> , <b>2001</b> , 19, 424-30	3	273
131	Laser printing of three-dimensional multicellular arrays for studies of cell-cell and cell-environment interactions. <i>Tissue Engineering - Part C: Methods</i> , <b>2011</b> , 17, 973-82	2.9	172
130	In vivo remodeling and structural characterization of fibrin-based tissue-engineered heart valves in the adult sheep model. <i>Tissue Engineering - Part A</i> , <b>2009</b> , 15, 2965-76	3.9	129
129	The in vitro development of autologous fibrin-based tissue-engineered heart valves through optimised dynamic conditioning. <i>Biomaterials</i> , <b>2007</b> , 28, 3388-97	15.6	129
128	Fibrin-poly lactide-based tissue-engineered vascular graft in the arterial circulation. <i>Biomaterials</i> , <b>2010</b> , 31, 4731-9	15.6	110
127	A collagen-glycosaminoglycan co-culture model for heart valve tissue engineering applications. <i>Biomaterials</i> , <b>2006</b> , 27, 2233-46	15.6	110
126	Donor age of human platelet lysate affects proliferation and differentiation of mesenchymal stem cells. <i>PLoS ONE</i> , <b>2012</b> , 7, e37839	3.7	105
125	GelMA-collagen blends enable drop-on-demand 3D printability and promote angiogenesis. <i>Biofabrication</i> , <b>2017</b> , 9, 045002	10.5	96
124	Tissue-engineered small-caliber vascular graft based on a novel biodegradable composite fibrin-poly lactide scaffold. <i>Tissue Engineering - Part A</i> , <b>2009</b> , 15, 1909-18	3.9	90
123	Neutrophil-derived cathelicidin protects from neointimal hyperplasia. <i>Science Translational Medicine</i> , <b>2011</b> , 3, 103ra98	17.5	81
122	Three-Dimensional Printing and Angiogenesis: Tailored Agarose-Type I Collagen Blends Comprise Three-Dimensional Printability and Angiogenesis Potential for Tissue-Engineered Substitutes. <i>Tissue Engineering - Part C: Methods</i> , <b>2017</b> , 23, 604-615	2.9	71
121	Elastic materials for tissue engineering applications: Natural, synthetic, and hybrid polymers. <i>Acta Biomaterialia</i> , <b>2018</b> , 79, 60-82	10.8	70
120	Cardiovascular tissue engineering: a new laminar flow chamber for in vitro improvement of mechanical tissue properties. <i>ASAIO Journal</i> , <b>2002</b> , 48, 8-11	3.6	66
119	Tranexamic acid--an alternative to aprotinin in fibrin-based cardiovascular tissue engineering. <i>Tissue Engineering - Part A</i> , <b>2009</b> , 15, 3645-53	3.9	59
118	USPIO-labeled textile materials for non-invasive MR imaging of tissue-engineered vascular grafts. <i>Biomaterials</i> , <b>2015</b> , 39, 155-63	15.6	56
117	Freeze-Drying as a Novel Biofabrication Method for Achieving a Controlled Microarchitecture within Large, Complex Natural Biomaterial Scaffolds. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1700598	10.1	55

116	Hypertensive pulmonary vascular disease in adults with secundum or sinus venosus atrial septal defect. <i>Annals of Thoracic Surgery</i> , <b>2006</b> , 81, 207-13	2.7	55
115	Elastin-like recombinamer-covered stents: Towards a fully biocompatible and non-thrombogenic device for cardiovascular diseases. <i>Acta Biomaterialia</i> , <b>2015</b> , 12, 146-155	10.8	51
114	Tissue-engineered fibrin-based heart valve with a tubular leaflet design. <i>Tissue Engineering - Part C: Methods</i> , <b>2014</b> , 20, 265-75	2.9	45
113	Fabrication of fibrin scaffolds with controlled microscale architecture by a two-photon polymerization-micromolding technique. <i>Biofabrication</i> , <b>2012</b> , 4, 015001	10.5	44
112	Fibrin-based tissue engineering: comparison of different methods of autologous fibrinogen isolation. <i>Tissue Engineering - Part C: Methods</i> , <b>2013</b> , 19, 216-26	2.9	44
111	Scaffold precoating with human autologous extracellular matrix for improved cell attachment in cardiovascular tissue engineering. <i>ASAIO Journal</i> , <b>2000</b> , 46, 730-3	3.6	42
110	Nondestructive method to evaluate the collagen content of fibrin-based tissue engineered structures via ultrasound. <i>Tissue Engineering - Part C: Methods</i> , <b>2011</b> , 17, 1021-6	2.9	40
109	Tissue-Engineered Fibrin-Based Heart Valve with Bio-Inspired Textile Reinforcement. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 2113-21	10.1	39
108	Development of a composite degradable/nondegradable tissue-engineered vascular graft. <i>Artificial Organs</i> , <b>2008</b> , 32, 800-9	2.6	39
107	Incorporation of fibrin into a collagen-glycosaminoglycan matrix results in a scaffold with improved mechanical properties and enhanced capacity to resist cell-mediated contraction. <i>Acta Biomaterialia</i> , <b>2015</b> , 26, 205-14	10.8	38
106	Tissue-engineered heart valve with a tubular leaflet design for minimally invasive transcatheter implantation. <i>Tissue Engineering - Part C: Methods</i> , <b>2015</b> , 21, 530-40	2.9	38
105	Electro-spun Membranes as Scaffolds for Human Corneal Endothelial Cells. <i>Current Eye Research</i> , <b>2018</b> , 43, 1-11	2.9	38
104	Coating of conductive yarns for electro-textile applications. <i>Journal of the Textile Institute</i> , <b>2013</b> , 104, 270-277	1.5	35
103	Small Caliber Compliant Vascular Grafts Based on Elastin-Like Recombinamers for Tissue Engineering. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2019</b> , 7, 340	5.8	35
102	Multiple-Step Injection Molding for Fibrin-Based Tissue-Engineered Heart Valves. <i>Tissue Engineering - Part C: Methods</i> , <b>2015</b> , 21, 832-40	2.9	33
101	Fibronectin coating of oxygenator membranes enhances endothelial cell attachment. <i>BioMedical Engineering OnLine</i> , <b>2013</b> , 12, 7	4.1	27
100	FMN-coated fluorescent USPIO for cell labeling and non-invasive MR imaging in tissue engineering. <i>Theranostics</i> , <b>2014</b> , 4, 1002-13	12.1	25
99	Biofunctionalized microfiber-assisted formation of intrinsic three-dimensional capillary-like structures. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 1858-69	3.9	24

98	Bacterial adherence to graft tissues in static and flow conditions. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2018</b> , 155, 325-332.e4	1.5	23
97	Influence of 4% icodextrin solution on peritoneal tissue response and adhesion formation. <i>BMC Surgery</i> , <b>2013</b> , 13, 34	2.3	22
96	Biocompatibility and biomechanical analysis of elastic TPU threads as new suture material. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2017</b> , 105, 99-106	3.5	21
95	The effects of constant flow bioreactor cultivation and keratinocyte seeding densities on prevascularized organotypic skin grafts based on a fibrin scaffold. <i>Tissue Engineering - Part A</i> , <b>2015</b> , 21, 343-52	3.9	21
94	Autologous valve replacement-CD133+ stem cell-plus-fibrin composite-based sprayed cell seeding for intraoperative heart valve tissue engineering. <i>Tissue Engineering - Part C: Methods</i> , <b>2011</b> , 17, 299-309 <sup>2.9</sup>		21
93	Fabrication of highly porous scaffolds for tissue engineering based on star-shaped functional poly(Ecaprolactone). <i>Biotechnology and Bioengineering</i> , <b>2011</b> , 108, 694-703	4.9	21
92	The BioStent: novel concept for a viable stent structure. <i>Tissue Engineering - Part A</i> , <b>2012</b> , 18, 1818-26	3.9	20
91	Characterisation of cell-substrate interactions between Schwann cells and three-dimensional fibrin hydrogels containing orientated nanofibre topographical cues. <i>European Journal of Neuroscience</i> , <b>2016</b> , 43, 376-87	3.5	20
90	Effect of Intensified Decellularization of Equine Carotid Arteries on Scaffold Biomechanics and Cytotoxicity. <i>Annals of Biomedical Engineering</i> , <b>2015</b> , 43, 2630-41	4.7	19
89	Fibrin gel as alternative scaffold for respiratory tissue engineering. <i>Annals of Biomedical Engineering</i> , <b>2012</b> , 40, 679-87	4.7	19
88	Influence of platelet-derived growth factor-AB on tissue development in autologous platelet-rich plasma gels. <i>Tissue Engineering - Part A</i> , <b>2011</b> , 17, 1891-9	3.9	19
87	Macroporous click-elastin-like hydrogels for tissue engineering applications. <i>Materials Science and Engineering C</i> , <b>2018</b> , 88, 140-147	8.3	18
86	Co-Culture of Human Endothelial Cells and Foreskin Fibroblasts on 3D Silk-Fibrin Scaffolds Supports Vascularization. <i>Macromolecular Bioscience</i> , <b>2015</b> , 15, 1433-46	5.5	18
85	VascuTrainer: A Mobile and Disposable Bioreactor System for the Conditioning of Tissue-Engineered Vascular Grafts. <i>Annals of Biomedical Engineering</i> , <b>2018</b> , 46, 616-626	4.7	16
84	TexMi: development of tissue-engineered textile-reinforced mitral valve prosthesis. <i>Tissue Engineering - Part C: Methods</i> , <b>2014</b> , 20, 741-8	2.9	16
83	Pulsatile perfusion bioreactor system for durability testing and compliance estimation of tissue engineered vascular grafts. <i>Annals of Biomedical Engineering</i> , <b>2013</b> , 41, 1979-89	4.7	16
82	MR and PET-CT monitoring of tissue-engineered vascular grafts in the ovine carotid artery. <i>Biomaterials</i> , <b>2019</b> , 216, 119228	15.6	15
81	Macrophages significantly enhance wound healing in a vascularized skin model. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2019</b> , 107, 1340-1350	5.4	15

80	Spraying Respiratory Epithelial Cells to Coat Tissue-Engineered Constructs. <i>BioResearch Open Access</i> , <b>2015</b> , 4, 278-87	2.4	15
79	3D non-woven polyvinylidene fluoride scaffolds: fibre cross section and texturizing patterns have impact on growth of mesenchymal stromal cells. <i>PLoS ONE</i> , <b>2014</b> , 9, e94353	3.7	15
78	Bioengineered vascular constructs as living models for in vitro cardiovascular research. <i>Drug Discovery Today</i> , <b>2016</b> , 21, 1446-1455	8.8	15
77	Hybrid elastin-like recombinamer-fibrin gels: physical characterization and in vitro evaluation for cardiovascular tissue engineering applications. <i>Biomaterials Science</i> , <b>2016</b> , 4, 1361-70	7.4	14
76	Extracellular Vesicles-Loaded Fibrin Gel Supports Rapid Neovascularization for Dental Pulp Regeneration. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	13
75	Targeting In-Stent-Stenosis with RGD- and CXCL1-Coated Mini-Stents in Mice. <i>PLoS ONE</i> , <b>2016</b> , 11, e0155829	5.7	13
74	Multi-scale modelling of textile reinforced artificial tubular aortic heart valves. <i>Meccanica</i> , <b>2017</b> , 52, 677-693	6.9	12
73	Flexible Endoscopic Spray Application of Respiratory Epithelial Cells as Platform Technology to Apply Cells in Tubular Organs. <i>Tissue Engineering - Part C: Methods</i> , <b>2016</b> , 22, 322-31	2.9	12
72	Development of a Polymer-Based Biodegradable Neurovascular Stent Prototype: A Preliminary In Vitro and In Vivo Study. <i>Macromolecular Bioscience</i> , <b>2018</b> , 18, e1700292	5.5	12
71	Fluorinated polyurethane scaffolds for F magnetic resonance imaging. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 2669-2671	9.6	11
70	Spray- and laser-assisted biomaterial processing for fast and efficient autologous cell-plus-matrix tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2015</b> , 9, E177-90	4.4	11
69	PulmoStent: In Vitro to In Vivo Evaluation of a Tissue Engineered Endobronchial Stent. <i>Annals of Biomedical Engineering</i> , <b>2017</b> , 45, 873-883	4.7	11
68	Towards a Biohybrid Lung: Endothelial Cells Promote Oxygen Transfer through Gas Permeable Membranes. <i>BioMed Research International</i> , <b>2017</b> , 2017, 5258196	3	11
67	Cellulose aerogel micro fibers for drug delivery applications. <i>Materials Science and Engineering C</i> , <b>2021</b> , 127, 112196	8.3	11
66	Electro-spun PLA-PEG-yarns for tissue engineering applications. <i>Biomedizinische Technik</i> , <b>2018</b> , 63, 231-243	4.3	10
65	Fluid-structure interaction simulation of artificial textile reinforced aortic heart valve: Validation with an in-vitro test. <i>Journal of Biomechanics</i> , <b>2018</b> , 78, 52-69	2.9	10
64	Bioartificial fabrication of regenerating blood vessel substitutes: requirements and current strategies. <i>Biomedizinische Technik</i> , <b>2014</b> , 59, 185-95	1.3	10
63	Synthesis and characterization of biodegradable polyester/polyether resins via Michael-type addition. <i>Polymer Chemistry</i> , <b>2011</b> , 2, 2273	4.9	10

62	Influence of Different Cell Types and Sources on Pre-Vascularisation in Fibrin and Agarose-Collagen Gels. <i>Organogenesis</i> , <b>2020</b> , 16, 14-26	1.7	10
61	Combination of vascularization and cilia formation for three-dimensional airway tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2019</b> , 107, 2053-2062	5.4	9
60	Fabrication and characterization of gefitinib-releasing polyurethane foam as a coating for drug-eluting stent in the treatment of bronchotracheal cancer. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 548, 803-811	6.5	9
59	ENDOXY - Development of a Biomimetic Oxygenator-Test-Device. <i>PLoS ONE</i> , <b>2015</b> , 10, e0142961	3.7	9
58	Gefitinib/ gefitinib microspheres loaded polyurethane constructs as drug-eluting stent coating. <i>European Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 103, 94-103	5.1	8
57	Choosing the Right Differentiation Medium to Develop Mucociliary Phenotype of Primary Nasal Epithelial Cells In Vitro. <i>Scientific Reports</i> , <b>2020</b> , 10, 6963	4.9	8
56	Selection and fabrication of a non-woven polycarbonate urethane cover for a tissue engineered airway stent. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 514, 255-262	6.5	8
55	EndOxy: Dynamic Long-Term Evaluation of Endothelialized Gas Exchange Membranes for a Biohybrid Lung. <i>Annals of Biomedical Engineering</i> , <b>2020</b> , 48, 747-756	4.7	8
54	Bio-Based Covered Stents: The Potential of Biologically Derived Membranes. <i>Tissue Engineering - Part B: Reviews</i> , <b>2019</b> , 25, 135-151	7.9	8
53	Comparison of computational modelling techniques for braided stent analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2019</b> , 22, 1334-1344	2.1	7
52	Ultrasound for In Vitro, Noninvasive Real-Time Monitoring and Evaluation of Tissue-Engineered Heart Valves. <i>Tissue Engineering - Part C: Methods</i> , <b>2016</b> , 22, 974-981	2.9	7
51	Intramyocardial angiogenetic stem cells and epicardial erythropoietin save the acute ischemic heart. <i>DMM Disease Models and Mechanisms</i> , <b>2018</b> , 11,	4.1	7
50	Effect of reinforcement volume fraction and orientation on a hybrid tissue engineered aortic heart valve with a tubular leaflet design. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , <b>2015</b> , 2,	2.7	7
49	Optical Fibers <b>2015</b> , 79-108		6
48	Nondestructive monitoring of tissue-engineered constructs. <i>Biomedizinische Technik</i> , <b>2014</b> , 59, 165-75	1.3	6
47	Reversible contacting of smart textiles with adhesive bonded magnets <b>2013</b> ,		6
46	Fibrin- and collagen-based matrices attenuate inflammatory and procoagulant responses in human endothelial cell cultures exposed to Staphylococcus aureus. <i>Tissue Engineering - Part A</i> , <b>2012</b> , 18, 147-56	3.9	6
45	Improved biocompatibility of profiled sutures through lower macrophages adhesion. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2019</b> , 107, 1772-1778	3.5	6

44	A bench-top molding method for the production of cell-laden fibrin micro-fibers with longitudinal topography. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2020</b> , 108, 1198-1212	3.5	6
43	Differentiation of respiratory epithelium in a 3-dimensional co-culture with fibroblasts embedded in fibrin gel. <i>Multidisciplinary Respiratory Medicine</i> , <b>2015</b> , 11, 6	3	5
42	Tissue engineering: selecting the optimal fixative for immunohistochemistry. <i>Tissue Engineering - Part C: Methods</i> , <b>2012</b> , 18, 976-83	2.9	5
41	Drug-Eluting Medical Textiles: From Fiber Production and Textile Fabrication to Drug Loading and Delivery. <i>Macromolecular Bioscience</i> , <b>2021</b> , 21, e2100021	5.5	5
40	EndOxy: Mid-term stability and shear stress resistance of endothelial cells on PDMS gas exchange membranes. <i>Artificial Organs</i> , <b>2020</b> , 44, E419-E433	2.6	5
39	Evaluating the interaction of a tracheobronchial stent in an ovine in-vivo model. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2018</b> , 17, 499-516	3.8	5
38	Fabrication of blood-derived elastogenic vascular grafts using electrospun fibrinogen and polycaprolactone composite scaffolds for paediatric applications. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2020</b> , 14, 1281-1295	4.4	4
37	Combining Catalyst-Free Click Chemistry with Coaxial Electrospinning to Obtain Long-Term, Water-Stable, Bioactive Elastin-Like Fibers for Tissue Engineering Applications. <i>Macromolecular Bioscience</i> , <b>2018</b> , 18, e1800147	5.5	4
36	An ovine in vivo framework for tracheobronchial stent analysis. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2017</b> , 16, 1535-1553	3.8	3
35	Harnessing topographical & biochemical cues to enhance elastogenesis by paediatric cells for cardiovascular tissue engineering applications. <i>Biochemical and Biophysical Research Communications</i> , <b>2019</b> , 512, 156-162	3.4	3
34	Formation of cyclic structures in the cationic ring-opening polymerization of 1,3-dioxolane.. <i>RSC Advances</i> , <b>2020</b> , 10, 9623-9632	3.7	3
33	Artificial Textile Reinforced Tubular Aortic Heart Valves Multi-scale Modelling and Experimental Validation. <i>Lecture Notes in Applied and Computational Mechanics</i> , <b>2018</b> , 185-215	0.3	3
32	Mechanical properties of tissue-engineered vascular grafts: response to letter to the editor. <i>Artificial Organs</i> , <b>2009</b> , 33, 194-6	2.6	3
31	Warp-Knitted Spacer Fabrics: A Versatile Platform to Generate Fiber-Reinforced Hydrogels for 3D Tissue Engineering. <i>Materials</i> , <b>2020</b> , 13,	3.5	3
30	Effect of Cellulose Characteristics on the Properties of the Wet-Spun Aerogel Fibers. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 1525	2.6	3
29	Microvascular anastomosis techniques using the medical adhesive VIVO and expandable micro-stents in a rat carotid artery model. <i>Annals of Anatomy</i> , <b>2021</b> , 238, 151782	2.9	3
28	Bioactive tri-component nanofibers from cellulose acetate/lignin//N-vanillidene-phenylthiazole copper-(II) complex for potential diaper dermatitis control.. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> ,	7.9	3
27	Towards a Biohybrid Lung Assist Device: -Acetylcysteine Reduces Oxygen Toxicity and Changes Endothelial Cells Morphology. <i>Cellular and Molecular Bioengineering</i> , <b>2017</b> , 10, 153-161	3.9	2

26	In Vitro Quantification of Luminal Denudation After Crimping and Balloon Dilatation of Endothelialized Covered Stents. <i>CardioVascular and Interventional Radiology</i> , <b>2017</b> , 40, 1229-1236	2.7	2
25	Editorial BioNanomaterials Drive Innovation in Clinical Research. <i>BioNanoMaterials</i> , <b>2013</b> , 14, 1-2		2
24	Advances in Engineering Venous Valves: The Pursuit of a Definite Solution for Chronic Venous Disease. <i>Tissue Engineering - Part B: Reviews</i> , <b>2021</b> , 27, 253-265	7.9	2
23	Development of in vitro endothelialized drug-eluting stent using human peripheral blood-derived endothelial progenitor cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2020</b> , 14, 1415-1427	4.4	2
22	Patient-Specific 3-Dimensional Model of Smooth Muscle Cell and Extracellular Matrix Dysfunction for the Study of Aortic Aneurysms. <i>Journal of Endovascular Therapy</i> , <b>2021</b> , 28, 604-613	2.5	2
21	Degradation resistance of PVDF mesh in vivo in comparison to PP mesh. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2021</b> , 119, 104490	4.1	2
20	Umbilical cord as human cell source for mitral valve tissue engineering - venous vs. arterial cells. <i>Biomedizinische Technik</i> , <b>2017</b> , 62, 457-466	1.3	1
19	Comparison of Covered Laser-cut and Braided Respiratory Stents: From Bench to Pre-Clinical Testing. <i>Annals of Biomedical Engineering</i> , <b>2019</b> , 47, 1738-1747	4.7	1
18	Endoxy Development and cultivation of textile-based gas membrane assemblies for endothelialized oxygenators. <i>BioNanoMaterials</i> , <b>2015</b> , 16,		1
17	Elastic filaments from thermoplastic polyurethanes for application in highly elastic mesh implants. <i>BioNanoMaterials</i> , <b>2014</b> , 15,		1
16	HYBRID BIOMATERIALS FOR ENGINEERING VASCULAR TISSUES <b>2010</b> , 373-387		1
15	Poster session 13: Organ and patient support systems I. <i>Biomedizinische Technik</i> , <b>2017</b> , 62,	1.3	1
14	Endoscopic atomization of mesenchymal stromal cells: in vitro study for local cell therapy of the lungs. <i>Cytotherapy</i> , <b>2021</b> , 23, 293-300	4.8	1
13	Bioengineered percutaneous heart valves for transcatheter aortic valve replacement: a comparative evaluation of decellularised bovine and porcine pericardia. <i>Materials Science and Engineering C</i> , <b>2021</b> , 123, 111936	8.3	1
12	An In Vitro Model of a Parallel-Plate Perfusion System to Study Bacterial Adherence to Graft Tissues. <i>Journal of Visualized Experiments</i> , <b>2019</b> ,	1.6	1
11	Cross-section modified and highly elastic sutures reduce tissue incision and show comparable biocompatibility: in-vitro and in-vivo evaluation of novel thermoplastic urethane surgical threads. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2021</b> , 109, 693-702	3.5	1
10	EXPERIMENTAL INVESTIGATION OF ENDOSCOPIC CELL SPRAY. <i>Atomization and Sprays</i> , <b>2017</b> , 27, 847-858	5.8	0
9	Biodegradation and Immunological Parameters of Polyurethane-based Tissue Adhesive in Arterial Microvascular Anastomoses - a Long-term in Vivo Study.. <i>Macromolecular Bioscience</i> , <b>2022</b> , e2100451	5.5	0

8	Establishment of a Pre-vascularized 3D Lung Cancer Model in Fibrin Gel-Influence of Hypoxia and Cancer-Specific Therapeutics. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 761846	5.8	o
7	FRESH bioprinting technology for tissue engineering - the influence of printing process and bioink composition on cell behavior and vascularization. <i>Journal of Applied Biomaterials and Functional Materials</i> , <b>2021</b> , 19, 22808000211028808	1.8	o
6	The Use of Fibrin as an Autologous Scaffold Material for Cardiovascular Tissue Engineering Applications: From In Vitro to In Vivo Evaluation. <i>IFMBE Proceedings</i> , <b>2009</b> , 2186-2189	0.2	
5	Design and Construction of a System for the Application of Variable Pressure to Tissue Engineered Blood Vessels. <i>IFMBE Proceedings</i> , <b>2009</b> , 2205-2208	0.2	
4	Ovine carotid artery-derived cells as an optimized supportive cell layer in 2-D capillary network assays. <i>PLoS ONE</i> , <b>2014</b> , 9, e91664	3.7	
3	The face towards nature. <i>Biomedizinische Technik</i> , <b>2016</b> , 61, 251-2	1.3	
2	Novel Elastic Threads for Intestinal Anastomoses: Feasibility and Mechanical Evaluation in a Porcine and Rabbit Model. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23, 5389	6.3	
1	Silk Fibroin as Adjuvant in the Fabrication of Mechanically Stable Fibrin Biocomposites. <i>Polymers</i> , <b>2022</b> , 14, 2251	4.5	