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3D-Printed Sugar-Based Stents Facilitating Vascular Anastomosis

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#	Paper	IF	Citations
24	Heparin coating on 3D printed poly (l-lactic acid) biodegradable cardiovascular stent via mild surface modification approach for coronary artery implantation. <i>Chemical Engineering Journal</i> , 2019 , 378, 122116	14.7	42
23	Controlled NO-Release from 3D-Printed Small-Diameter Vascular Grafts Prevents Platelet Activation and Bacterial Infectivity. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 2284-2296	5.5	20
22	Additive Manufacturing of Precision Biomaterials. <i>Advanced Materials</i> , 2020 , 32, e1901994	24	62
21	Printing of Adhesive Hydrogel Scaffolds for the Treatment of Skeletal Muscle Injuries.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 1568-1579	4.1	50
20	Miniaturization of Artificial Lungs toward Portability. <i>Advanced Materials Technologies</i> , 2020 , 5, 20001366.8		2
19	Mechanical strength and hydrostatic testing of VIVO adhesive in sutureless microsurgical anastomoses: an ex vivo study. <i>Scientific Reports</i> , 2021 , 11, 13598	4.9	4
18	Three-Dimensional Printing Using a Maize Protein: Zein-Based Inks in Biomedical Applications. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 3964-3979	5.5	3
17	Extrusion-based 3D (Bio)Printed Tissue Engineering Scaffolds: Process-Structure-Quality Relationships. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 4694-4717	5.5	1
16	Biofabrication of natural hydrogels for cardiac, neural, and bone Tissue engineering Applications. <i>Bioactive Materials</i> , 2021 , 6, 3904-3923	16.7	29
15	A Wirelessly Controlled Smart Bandage with 3D-Printed Miniaturized Needle Arrays. <i>Advanced Functional Materials</i> , 2020 , 30, 1905544	15.6	52
14	Continuous Based Direct Ink Write for Tubular Cardiovascular Medical Devices. <i>Polymers</i> , 2020 , 13,	4.5	2
13	3D printing advances in the development of stents. <i>International Journal of Pharmaceutics</i> , 2021 , 609, 121153	6.5	3
12	Closed removable thread vascular anastomosis stent (Lasheen Vascular Stent). <i>Journal of Surgery and Surgical Research</i> , 2019 , 5, 071-073	0.2	
11	Biofabrication using maize protein: 3D printing using zein formulations.		1
10	In vivo performance of electrospun tubular hyaluronic acid/collagen nanofibrous scaffolds for vascular reconstruction in the rabbit model. <i>Journal of Nanobiotechnology</i> , 2021 , 19, 349	9.4	2
9	Biodegradation and Immunological Parameters of Polyurethane-based Tissue Adhesive in Arterial Microvascular Anastomoses - a Long-term in Vivo Study.. <i>Macromolecular Bioscience</i> , 2022 , e2100451	5.5	0
8	Colloidal multiscale porous adhesive (bio)inks facilitate scaffold integration.. <i>Applied Physics Reviews</i> , 2021 , 8, 041415	17.3	4

7	Effect of heparin drug loading on biodegradable polycaprolactone/iron pentacarbonyl powder blend stents fabricated by solvent cast 3D printing. <i>Rapid Prototyping Journal</i> , 2022 , ahead-of-print,	3.8	0
6	Three-Dimensional Printing Self-Healing Dynamic/Photocrosslinking Gelatin-Hyaluronic Acid Double-Network Hydrogel for Tissue Engineering.. <i>ACS Omega</i> , 2022 , 7, 12076-12088	3.9	3
5	Comparison of 3D Printout Quality from FDM and MSLA Technology in Unit Production. <i>Symmetry</i> , 2022 , 14, 910	2.7	0
4	Texture Modification of 3D-Printed Maltitol Candy by Changing Internal Design. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 4189	2.6	1
3	4D Printing Applications in the Development of Smart Cardiovascular Implants. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10,	5.8	1
2	Improving the 3D Printability of Sugar Glass to Engineer Sacrificial Vascular Templates. <i>3D Printing and Additive Manufacturing</i> ,	4	
1	Material Aspects of Additively Manufactured Medical Devices. 2022 , 1-14		