

Kan Wang

List of Publications by Year in descending order

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30
papers

987
citations

567281

15
h-index

552781

26
g-index

32
all docs

32
docs citations

32
times ranked

1361
citing authors

#	ARTICLE	IF	CITATIONS
1	Commercial Autologous Cell Therapy: The Value of Real-Time Patient and Therapy Data. <i>Current Opinion in Biomedical Engineering</i> , 2022, , 100389.	3.4	0
2	Active Image Synthesis for Efficient Labeling. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021, 43, 3770-3781.	13.9	7
3	Using Wet Electrospun PCL/Gelatin/CNT Yarns to Fabricate Textile-Based Scaffolds for Vascular Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 2627-2637.	5.2	28
4	Application of textile technology in tissue engineering: A review. <i>Acta Biomaterialia</i> , 2021, 128, 60-76.	8.3	35
5	Textile-based sandwich scaffold using wet electrospun yarns for skin tissue engineering. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 119, 104499.	3.1	10
6	Current Status and Opportunities in Adaptive Data Analysis for Therapeutic Cell Manufacturing. <i>Current Opinion in Biomedical Engineering</i> , 2021, 20, 100351.	3.4	1
7	Quantitative Investigation of the Process Parameters of Electrohydrodynamic Direct-Writing and Their Effects on Fiber Surface Roughness and Cell Adhesion. <i>Polymers</i> , 2020, 12, 2475.	4.5	14
8	Rapid Fabrication of Ready-to-Use Gelatin Scaffolds with Prevascular Networks Using Alginate Hollow Fibers as Sacrificial Templates. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2297-2311.	5.2	17
9	Direct-write and sacrifice-based techniques for vasculatures. <i>Materials Science and Engineering C</i> , 2019, 104, 109936.	7.3	12
10	A multiscale simulation framework for the manufacturing facility and supply chain of autologous cell therapies. <i>Cytotherapy</i> , 2019, 21, 1081-1093.	0.7	21
11	An efficient statistical approach to design 3D-printed metamaterials for mimicking mechanical properties of soft biological tissues. <i>Additive Manufacturing</i> , 2018, 24, 341-352.	3.0	14
12	Prediction of paravalvular leak post transcatheter aortic valve replacement using a convolutional neural network. , 2018, , .		4
13	Generative Invertible Networks (GIN): Pathophysiology-Interpretable Feature Mapping and Virtual Patient Generation. <i>Lecture Notes in Computer Science</i> , 2018, , 537-545.	1.3	8
14	Calibration and adjustment of mechanical property prediction model for poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (alcohol) Manufacturing Technology, 2017, 88, 1889-1901.	3.0	2
15	Quality Modeling of Printed Electronics in Aerosol Jet Printing Based on Microscopic Images. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2017, 139, .	2.2	28
16	CNT Enabled Co-braided Smart Fabrics: A New Route for Non-invasive, Highly Sensitive & Large-area Monitoring of Composites. <i>Scientific Reports</i> , 2017, 7, 44056.	3.3	28
17	Generalized Wavelet Shrinkage of Inline Raman Spectroscopy for Quality Monitoring of Continuous Manufacturing of Carbon Nanotube Buckypaper. <i>IEEE Transactions on Automation Science and Engineering</i> , 2017, 14, 196-207.	5.2	15
18	A Review on the 3D Printing of Functional Structures for Medical Phantoms and Regenerated Tissue and Organ Applications. <i>Engineering</i> , 2017, 3, 653-662.	6.7	89

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19	Quantitative Prediction of Paravalvular Leak in Transcatheter Aortic Valve Replacement Based on Tissue-Mimicking 3D Printing. <i>JACC: Cardiovascular Imaging</i> , 2017, 10, 719-731.	5.3	102
20	An integrated holistic model of a complex process. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 89, 1137-1147.	3.0	1
21	Hinokitiol-Loaded Mesoporous Calcium Silicate Nanoparticles Induce Apoptotic Cell Death through Regulation of the Function of MDR1 in Lung Adenocarcinoma Cells. <i>Materials</i> , 2016, 9, 306.	2.9	16
22	Conductive-on-demand: Tailorable polyimide/carbon nanotube nanocomposite thin film by dual-material aerosol jet printing. <i>Carbon</i> , 2016, 98, 397-403.	10.3	46
23	Low-Loss 3-D Multilayer Transmission Lines and Interconnects Fabricated by Additive Manufacturing Technologies. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016, 64, 3208-3216.	4.6	79
24	Dual-material 3D printed metamaterials with tunable mechanical properties for patient-specific tissue-mimicking phantoms. <i>Additive Manufacturing</i> , 2016, 12, 31-37.	3.0	71
25	Preparation of the fast setting and degrading Ca-Si-Mg cement with both odontogenesis and angiogenesis differentiation of human periodontal ligament cells. <i>Materials Science and Engineering C</i> , 2016, 60, 374-383.	7.3	44
26	Controlling the mechanical behavior of dual-material 3D printed meta-materials for patient-specific tissue-mimicking phantoms. <i>Materials and Design</i> , 2016, 90, 704-712.	7.0	58
27	Modulus prediction of buckypaper based on multi-fidelity analysis involving latent variables. <i>IIE Transactions</i> , 2015, 47, 141-152.	2.1	16
28	Designable dual-material auxetic metamaterials using three-dimensional printing. <i>Materials & Design</i> , 2015, 67, 159-164.	5.1	188
29	Aerosol jet printing for 3-D multilayer passive microwave circuitry. , 2014, , .		25
30	A calibration-free method for biosensing in cell manufacturing. <i>IIE Transactions</i> , 0, , 1-39.	2.4	3