Bin Duan

List of Publications by Year in descending order

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Version: 2024-02-01

87888 95266 4,899 81 38 68 citations h-index g-index papers 87 87 87 6238 citing authors all docs docs citations times ranked

#	Article	IF	CITATIONS
1	Electrospun conductive nanofiber yarns for accelerating mesenchymal stem cells differentiation and maturation into Schwann cell-like cells under a combination of electrical stimulation and chemical induction. Acta Biomaterialia, 2022, 139, 91-104.	8.3	56
2	Controllable fabrication of alginate/poly-L-ornithine polyelectrolyte complex hydrogel networks as therapeutic drug and cell carriers. Acta Biomaterialia, 2022, 138, 182-192.	8.3	17
3	Regulation of Schwann Cell and DRG Neurite Behaviors within Decellularized Peripheral Nerve Matrix. ACS Applied Materials & Samp; Interfaces, 2022, 14, 8693-8704.	8.0	15
4	Triâ€Layered and Gelâ€Like Nanofibrous Scaffolds with Anisotropic Features for Engineering Heart Valve Leaflets. Advanced Healthcare Materials, 2022, 11, e2200053.	7.6	19
5	Exosomes derived from differentiated human ADMSC with the Schwann cell phenotype modulate peripheral nerve-related cellular functions. Bioactive Materials, 2022, 14, 61-75.	15.6	26
6	Dynamic hyaluronic acid hydrogel with covalent linked gelatin as an anti-oxidative bioink for cartilage tissue engineering. Biofabrication, 2022, 14, 014107.	7.1	46
7	State-of-the-art review of advanced electrospun nanofiber yarn-based textiles for biomedical applications. Applied Materials Today, 2022, 27, 101473.	4.3	66
8	Hydrogen Peroxide Scavenging Restores N-Type Calcium Channels in Cardiac Vagal Postganglionic Neurons and Mitigates Myocardial Infarction-Evoked Ventricular Arrhythmias in Type 2 Diabetes Mellitus. Frontiers in Cardiovascular Medicine, 2022, 9, 871852.	2.4	0
9	3D bioprinted white adipose model for in vitro study of cancer-associated cachexia induced adipose tissue remodeling. Biofabrication, 2022, 14, 034106.	7.1	9
10	3D bioprinting of multilayered scaffolds with spatially differentiated ADMSCs for rotator cuff tendon-to-bone interface regeneration. Applied Materials Today, 2022, 27, 101510.	4.3	13
11	Review of advances in electrospinning-based strategies for spinal cord regeneration. Materials Today Chemistry, 2022, 24, 100944.	3.5	36
12	Tannic acid-inspired, self-healing, and dual stimuli responsive dynamic hydrogel with potent antibacterial and anti-oxidative properties. Journal of Materials Chemistry B, 2021, 9, 7182-7195.	5.8	65
13	Largeâ€scale synthesis of compressible and reâ€expandable threeâ€dimensional nanofiber matrices. Nano Select, 2021, 2, 1566-1579.	3.7	7
14	Macrophage depletion in stellate ganglia alleviates cardiac sympathetic overactivation and ventricular arrhythmogenesis by attenuating neuroinflammation in heart failure. Basic Research in Cardiology, 2021, 116, 28.	5.9	26
15	Design and Evaluation of an In Vitro Mild Traumatic Brain Injury Modeling System Using 3D Printed Mini Impact Device on the 3D Cultured Human iPSC Derived Neural Progenitor Cells. Advanced Healthcare Materials, 2021, 10, e2100180.	7.6	13
16	The Prospect of Nanoparticle Systems for Modulating Immune Cell Polarization During Central Nervous System Infection. Frontiers in Immunology, 2021, 12, 670931.	4.8	3
17	Electrostatic Flocking of Insulative and Biodegradable Polymer Microfibers for Biomedical Applications. Advanced Healthcare Materials, 2021, 10, e2100766.	7.6	14
18	Tendon-bioinspired wavy nanofibrous scaffolds provide tunable anisotropy and promote tenogenesis for tendon tissue engineering. Materials Science and Engineering C, 2021, 126, 112181.	7.3	26

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19	Injectable, antioxidative, and neurotrophic factor-deliverable hydrogel for peripheral nerve regeneration and neuropathic pain relief. Applied Materials Today, 2021, 24, 101090.	4.3	17
20	Combining electrospinning with hot drawing process to fabricate high performance poly (L-lactic) Tj ETQq0 0 0 0	rgBT_{Over	lock 10 Tf 50
21	Anisotropic scaffolds for peripheral nerve and spinal cord regeneration. Bioactive Materials, 2021, 6, 4141-4160.	15.6	71
22	3D Printed Hydrogels with Aligned Microchannels to Guide Neural Stem Cell Migration. ACS Biomaterials Science and Engineering, 2021, 7, 690-700.	5.2	30
23	The effects of maturation and aging on the rotator cuff tendonâ€toâ€bone interface. FASEB Journal, 2021, 35, e22066.	0.5	9
24	Electrospun thymosin Beta-4 loaded PLGA/PLA nanofiber/ microfiber hybrid yarns for tendon tissue engineering application. Materials Science and Engineering C, 2020, 106, 110268.	7.3	75
25	Fabrication of versatile dynamic hyaluronic acid-based hydrogels. Carbohydrate Polymers, 2020, 233, 115803.	10.2	83
26	Inhibition of Pyk2 and Src activity improves Cx43 gap junction intercellular communication. Journal of Molecular and Cellular Cardiology, 2020, 149, 27-40.	1.9	13
27	Age related extracellular matrix and interstitial cell phenotype in pulmonary valves. Scientific Reports, 2020, 10, 21338.	3.3	9
28	3D printed composite scaffolds with dual small molecule delivery for mandibular bone regeneration. Biofabrication, 2020, 12, 035020.	7.1	77
29	3D printing of multilayered scaffolds for rotator cuff tendon regeneration. Bioactive Materials, 2020, 5, 636-643.	15.6	60
30	Chikungunya Virus Infection Impairs the Function of Osteogenic Cells. MSphere, 2020, 5, .	2.9	7
31	Repair and regeneration of small intestine: A review of current engineering approaches. Biomaterials, 2020, 240, 119832.	11.4	28
32	TLR2 and caspase-1 signaling are critical for bacterial containment but not clearance during craniotomy-associated biofilm infection. Journal of Neuroinflammation, 2020, 17, 114.	7.2	16
33	The Role of Fluid Shear and Metastatic Potential in Breast Cancer Cell Migration. Journal of Biomechanical Engineering, 2020, 142, .	1.3	11
34	Concise review: Harnessing iPSC-derived cells for ischemic heart disease treatment. Journal of Translational Internal Medicine, 2020, 8, 20-25.	2.5	9
35	Materials and Their Biomedical Applications. , 2019, , 135-152.		9
36	The LINC complex, mechanotransduction, and mesenchymal stem cell function and fate. Journal of Biological Engineering, 2019, 13, 68.	4.7	91

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37	Large-Scale and Rapid Preparation of Nanofibrous Meshes and Their Application for Drug-Loaded Multilayer Mucoadhesive Patch Fabrication for Mouth Ulcer Treatment. ACS Applied Materials & Discount of the Interfaces, 2019, 11, 28740-28751.	8.0	32
38	Development of Cryogel-Based Guidance Conduit for Peripheral Nerve Regeneration. ACS Applied Bio Materials, 2019, 2, 4864-4871.	4.6	17
39	Guiding Mesenchymal Stem Cells into Myelinating Schwann Cell-Like Phenotypes by Using Electrospun Core–Sheath Nanoyarns. ACS Biomaterials Science and Engineering, 2019, 5, 5284-5294.	5.2	20
40	3D printing of silk fibroin-based hybrid scaffold treated with platelet rich plasma for bone tissue engineering. Bioactive Materials, 2019, 4, 256-260.	15.6	76
41	Spatial Regulation of Valve Interstitial Cell Phenotypes within Three-Dimensional Micropatterned Hydrogels. ACS Biomaterials Science and Engineering, 2019, 5, 1416-1425.	5.2	13
42	Manufacturing human pluripotent stem cell derived endothelial cells in scalable and cell-friendly microenvironments. Biomaterials Science, 2019, 7, 373-388.	5.4	12
43	Platelet-Rich Plasma for the Treatment of Tissue Infection: Preparation and Clinical Evaluation. Tissue Engineering - Part B: Reviews, 2019, 25, 225-236.	4.8	54
44	Differentiating human pluripotent stem cells into vascular smooth muscle cells in three dimensional thermoreversible hydrogels. Biomaterials Science, 2019, 7, 347-361.	5.4	7
45	3D Bioprinted Scaffolds Containing Viable Macrophages and Antibiotics Promote Clearance of <i>Staphylococcus aureus </i> Craniotomy-Associated Biofilm Infection. ACS Applied Materials & Lamp; Interfaces, 2019, 11, 12298-12307.	8.0	44
46	Implantable Nanotube Sensor Platform for Rapid Analyte Detection. Macromolecular Bioscience, 2019, 19, e1800469.	4.1	8
47	Spatiotemporal Characterizations of Spontaneously Beating Cardiomyocytes with Adaptive Reference Digital Image Correlation. Scientific Reports, 2019, 9, 18382.	3.3	5
48	Mineralized nanofiber segments coupled with calcium-binding BMP-2 peptides for alveolar bone regeneration. Acta Biomaterialia, 2019, 85, 282-293.	8.3	108
49	Effects of tunable, 3D-bioprinted hydrogels on human brown adipocyte behavior and metabolic function. Acta Biomaterialia, 2018, 71, 486-495.	8.3	38
50	Prevascularization of 3D printed bone scaffolds by bioactive hydrogels and cell coâ€culture. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1788-1798.	3.4	94
51	3D hydrogel breast cancer models for studying the effects of hypoxia on epithelial to mesenchymal transition. Oncotarget, 2018, 9, 32191-32203.	1.8	43
52	3D Bioprinting of Breast Cancer Models for Drug Resistance Study. ACS Biomaterials Science and Engineering, 2018, 4, 4401-4411.	5.2	104
53	Mechanically robust cryogels with injectability and bioprinting supportability for adipose tissue engineering. Acta Biomaterialia, 2018, 74, 131-142.	8.3	45
54	A Scalable and Efficient Bioprocess for Manufacturing Human Pluripotent Stem Cell-Derived Endothelial Cells. Stem Cell Reports, 2018, 11, 454-469.	4.8	22

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55	Establishment of a Human iPSC- and Nanofiber-Based Microphysiological Blood–Brain Barrier System. ACS Applied Materials & amp; Interfaces, 2018, 10, 21825-21835.	8.0	48
56	Optimizing Photo-Encapsulation Viability of Heart Valve Cell Types in 3D Printable Composite Hydrogels. Annals of Biomedical Engineering, 2017, 45, 360-377.	2.5	71
57	State-of-the-Art Review of 3D Bioprinting for Cardiovascular Tissue Engineering. Annals of Biomedical Engineering, 2017, 45, 195-209.	2.5	242
58	Living nano-micro fibrous woven fabric/hydrogel composite scaffolds for heart valve engineering. Acta Biomaterialia, 2017, 51, 89-100.	8.3	81
59	Three-dimensional hyaluronic acid hydrogel-based models for in vitro human iPSC-derived NPC culture and differentiation. Journal of Materials Chemistry B, 2017, 5, 3870-3878.	5 . 8	95
60	Effects of Hydroxyapatite and Hypoxia on Chondrogenesis and Hypertrophy in 3D Bioprinted ADMSC Laden Constructs. ACS Biomaterials Science and Engineering, 2017, 3, 826-835.	5 . 2	41
61	Living nanofiber yarn-based woven biotextiles for tendon tissue engineering using cell tri-culture and mechanical stimulation. Acta Biomaterialia, 2017, 62, 102-115.	8.3	147
62	Nanofiber-structured hydrogel yarns with pH-response capacity and cardiomyocyte-drivability for bio-microactuator application. Acta Biomaterialia, 2017, 60, 144-153.	8.3	16
63	Effect of scaffold morphology and cell co-culture on tenogenic differentiation of HADMSC on centrifugal melt electrospun poly (Lâ€'lactic acid) fibrous meshes. Biofabrication, 2017, 9, 044106.	7.1	61
64	Chikungunya Virus: Pathophysiology, Mechanism, and Modeling. Viruses, 2017, 9, 368.	3.3	84
65	Short-term hypoxic preconditioning promotes prevascularization in 3D bioprinted bone constructs with stromal vascular fraction derived cells. RSC Advances, 2017, 7, 29312-29320.	3.6	57
66	Active tissue stiffness modulation controls valve interstitial cell phenotype and osteogenic potential in 3D culture. Acta Biomaterialia, 2016, 36, 42-54.	8.3	84
67	Fabrication of Aligned Nanofiber Polymer Yarn Networks for Anisotropic Soft Tissue Scaffolds. ACS Applied Materials & Samp; Interfaces, 2016, 8, 16950-16960.	8.0	102
68	Current progress in tissue engineering of heart valves: multiscale problems, multiscale solutions. Expert Opinion on Biological Therapy, 2015, 15, 1155-1172.	3.1	139
69	Comparison of Mesenchymal Stem Cell Source Differentiation Toward Human Pediatric Aortic Valve Interstitial Cells within 3D Engineered Matrices. Tissue Engineering - Part C: Methods, 2015, 21, 795-807.	2.1	36
70	3D-Printed Hydrogel Technologies for Tissue-Engineered Heart Valves. 3D Printing and Additive Manufacturing, 2014, 1, 122-136.	2.9	31
71	Stiffness and adhesivity control aortic valve interstitial cell behavior within hyaluronic acid based hydrogels. Acta Biomaterialia, 2013, 9, 7640-7650.	8.3	123
72	3D Bioprinting of heterogeneous aortic valve conduits with alginate/gelatin hydrogels. Journal of Biomedical Materials Research - Part A, 2013, 101A, 1255-1264.	4.0	818

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73	THREE-DIMENSIONAL NANOCOMPOSITE SCAFFOLDS FOR BONE TISSUE ENGINEERING: FROM DESIGN TO APPLICATION. Nano LIFE, 2012, 02, 1250005.	0.9	3
74	Nanocomposite Scaffolds for Bone Tissue Engineering: Design, Fabrication, Surface Modification and Sustained Release of Growth Factor. Materials Research Society Symposia Proceedings, 2011, 1301, 99.	0.1	4
75	Surface modification of three-dimensional Ca-P/PHBV nanocomposite scaffolds by physical entrapment of gelatin and its in vitro biological evaluation. Frontiers of Materials Science, 2011, 5, 57-68.	2.2	21
76	Nonisothermal meltâ€crystallization behavior of calcium phosphate/poly(3â€hydroxybutyrateâ€∢i>co⟨/i⟩â€βâ€hydroxyvalerate) nanocomposite microspheres. Polymer Engineering and Science, 2011, 51, 1580-1591.	3.1	13
77	Selective laser sintering and its application in biomedical engineering. MRS Bulletin, 2011, 36, 998-1005.	3.5	69
78	Optimized fabrication of Ca–P/PHBV nanocomposite scaffolds via selective laser sintering for bone tissue engineering. Biofabrication, 2011, 3, 015001.	7.1	108
79	Three-dimensional nanocomposite scaffolds fabricated via selective laser sintering for bone tissue engineering. Acta Biomaterialia, 2010, 6, 4495-4505.	8.3	366
80	Customized Ca–P/PHBV nanocomposite scaffolds for bone tissue engineering: design, fabrication, surface modification and sustained release of growth factor. Journal of the Royal Society Interface, 2010, 7, S615-29.	3.4	131
81	Crystallization kinetics of poly(<scp>L</scp> â€lactide)/carbonated hydroxyapatite nanocomposite microspheres. Journal of Applied Polymer Science, 2009, 113, 4100-4115.	2.6	59