

Xiaoyu Liu

List of Publications by Year in descending order

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413
papers

11,525
citations

41258

49
h-index

49773

87
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438
all docs

438
docs citations

438
times ranked

13617
citing authors

#	ARTICLE	IF	CITATIONS
1	Symbiotic cardiac pacemaker. <i>Nature Communications</i> , 2019, 10, 1821.	5.8	429
2	A bionic stretchable nanogenerator for underwater sensing and energy harvesting. <i>Nature Communications</i> , 2019, 10, 2695.	5.8	413
3	Self-Powered Pulse Sensor for Antidiastole of Cardiovascular Disease. <i>Advanced Materials</i> , 2017, 29, 1703456.	11.1	360
4	Fully Bioabsorbable Natural Materials-Based Triboelectric Nanogenerators. <i>Advanced Materials</i> , 2018, 30, e1801895.	11.1	319
5	Wearable and Implantable Triboelectric Nanogenerators. <i>Advanced Functional Materials</i> , 2019, 29, 1808820.	7.8	296
6	Current investigations into magnetic nanoparticles for biomedical applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 1285-1296.	2.1	248
7	Effect of microporosity on scaffolds for bone tissue engineering. <i>International Journal of Energy Production and Management</i> , 2018, 5, 115-124.	1.9	243
8	Emerging Implantable Energy Harvesters and Self-Powered Implantable Medical Electronics. <i>ACS Nano</i> , 2020, 14, 6436-6448.	7.3	223
9	Implantable Energy Harvesting Devices. <i>Advanced Materials</i> , 2018, 30, e1801511.	11.1	214
10	Bacteria-responsive intelligent wound dressing: Simultaneous In situ detection and inhibition of bacterial infection for accelerated wound healing. <i>Biomaterials</i> , 2018, 161, 11-23.	5.7	194
11	Cross-talk between LOX-1 and PCSK9 in vascular tissues. <i>Cardiovascular Research</i> , 2015, 107, 556-567.	1.8	192
12	Transcatheter Self-Powered Ultrasensitive Endocardial Pressure Sensor. <i>Advanced Functional Materials</i> , 2019, 29, 1807560.	7.8	181
13	Biomimetic delivery of signals for bone tissue engineering. <i>Bone Research</i> , 2018, 6, 25.	5.4	178
14	Body-Integrated Self-Powered System for Wearable and Implantable Applications. <i>ACS Nano</i> , 2019, 13, 6017-6024.	7.3	142
15	Graphene-Based Materials in Regenerative Medicine. <i>Advanced Healthcare Materials</i> , 2015, 4, 1451-1468.	3.9	136
16	Electrospinning of Nanofibers for Tissue Engineering Applications. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-11.	1.5	114
17	LOX-1, mtDNA damage, and NLRP3 inflammasome activation in macrophages: implications in atherogenesis. <i>Cardiovascular Research</i> , 2014, 103, 619-628.	1.8	111
18	Triboelectric nanogenerator based on degradable materials. <i>EcoMat</i> , 2021, 3, e12072.	6.8	108

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19	Lung Injury Induced by TiO ₂ Nanoparticles Depends on Their Structural Features: Size, Shape, Crystal Phases, and Surface Coating. <i>International Journal of Molecular Sciences</i> , 2014, 15, 22258-22278.	1.8	105
20	Improving Chronic Diabetic Wound Healing through an Injectable and Self-Healing Hydrogel with Platelet-Rich Plasma Release. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55659-55674.	4.0	99
21	PCSK9 expression in the ischaemic heart and its relationship to infarct size, cardiac function, and development of autophagy. <i>Cardiovascular Research</i> , 2018, 114, 1738-1751.	1.8	96
22	Refreshable Braille Display System Based on Triboelectric Nanogenerator and Dielectric Elastomer. <i>Advanced Functional Materials</i> , 2021, 31, 2006612.	7.8	96
23	Effects of physicochemical properties of nanomaterials on their toxicity. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 2499-2507.	2.1	91
24	Nanofiber-mediated microRNA-126 delivery to vascular endothelial cells for blood vessel regeneration. <i>Acta Biomaterialia</i> , 2016, 43, 303-313.	4.1	91
25	PCSK9 regulates expression of scavenger receptors and ox-LDL uptake in macrophages. <i>Cardiovascular Research</i> , 2018, 114, 1145-1153.	1.8	88
26	A Bioresorbable Dynamic Pressure Sensor for Cardiovascular Postoperative Care. <i>Advanced Materials</i> , 2021, 33, e2102302.	11.1	85
27	Self-Powered Gesture Recognition Wristband Enabled by Machine Learning for Full Keyboard and Multicommand Input. <i>Advanced Materials</i> , 2022, 34, e2200793.	11.1	81
28	Fiber-reinforced scaffolds in soft tissue engineering. <i>International Journal of Energy Production and Management</i> , 2017, 4, 257-268.	1.9	79
29	Surface modification of nanofibrous matrices via layer-by-layer functionalized silk assembly for mitigating the foreign body reaction. <i>Biomaterials</i> , 2018, 164, 22-37.	5.7	78
30	Deep learning in digital pathology image analysis: a survey. <i>Frontiers of Medicine</i> , 2020, 14, 470-487.	1.5	77
31	Human Motion Driven Self-Powered Photodynamic System for Long-Term Autonomous Cancer Therapy. <i>ACS Nano</i> , 2020, 14, 8074-8083.	7.3	77
32	Unsupervised Learning for Cell-Level Visual Representation in Histopathology Images With Generative Adversarial Networks. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 1316-1328.	3.9	75
33	Abnormal Changes of Multidimensional Surface Features Using Multivariate Pattern Classification in Amnesic Mild Cognitive Impairment Patients. <i>Journal of Neuroscience</i> , 2014, 34, 10541-10553.	1.7	72
34	A wearable noncontact free-rotating hybrid nanogenerator for self-powered electronics. <i>Information Materials</i> , 2020, 2, 1191-1200.	8.5	71
35	Polysaccharide-Peptide Cryogels for Multidrug-Resistant Bacteria Infected Wound Healing and Hemostasis. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901041.	3.9	69
36	A Battery-Like Self-Charge Universal Module for Motional Energy Harvest. <i>Advanced Energy Materials</i> , 2019, 9, 1901875.	10.2	68

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37	Dynamic real-time imaging of living cell traction force by piezo-phototronic light nano-antenna array. <i>Science Advances</i> , 2021, 7, .	4.7	65
38	Small intestinal submucosa: superiority, limitations and solutions, and its potential to address bottlenecks in tissue repair. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5038-5055.	2.9	64
39	A Mechanical Model of the Cornea Considering the Crimping Morphology of Collagen Fibrils. , 2014, 55, 2739.		63
40	Cross-Talk Between PCSK9 and Damaged mtDNA in Vascular Smooth Muscle Cells: Role in Apoptosis. Antioxidants and Redox Signaling, 2016, 25, 997-1008.	2.5	63
41	Reversible Conversion between Schottky and Ohmic Contacts for Highly Sensitive, Multifunctional Biosensors. <i>Advanced Functional Materials</i> , 2020, 30, 1907999.	7.8	61
42	Comparison of stress on knee cartilage during kneeling and standing using finite element models. <i>Medical Engineering and Physics</i> , 2014, 36, 439-447.	0.8	60
43	Effect of stress on corrosion of high-purity magnesium in vitro and in vivo. <i>Acta Biomaterialia</i> , 2019, 83, 477-486.	4.1	60
44	Biodegradable Magnesium-Incorporated Poly(l-lactic acid) Microspheres for Manipulation of Drug Release and Alleviation of Inflammatory Response. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23546-23557.	4.0	59
45	A moisturizing chitosan-silk fibroin dressing with silver nanoparticles-adsorbed exosomes for repairing infected wounds. <i>Journal of Materials Chemistry B</i> , 2020, 8, 7197-7212.	2.9	58
46	In vitro and in vivo degradation behavior of Mg-2Sr-Ca and Mg-2Sr-Zn alloys. <i>Bioactive Materials</i> , 2020, 5, 275-285.	8.6	58
47	Sleep stage classification based on multi-level feature learning and recurrent neural networks via wearable device. <i>Computers in Biology and Medicine</i> , 2018, 103, 71-81.	3.9	57
48	The use of bioactive peptides to modify materials for bone tissue repair. <i>International Journal of Energy Production and Management</i> , 2017, 4, 191-206.	1.9	56
49	Cancer Cell Glycocalyx and Its Significance in Cancer Progression. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2484.	1.8	56
50	Mechanism of traumatic retinal detachment in blunt impact: A finite element study. <i>Journal of Biomechanics</i> , 2013, 46, 1321-1327.	0.9	52
51	Physiological pulsatile flow culture conditions to generate functional endothelium on a sulfated silk fibroin nanofibrous scaffold. <i>Biomaterials</i> , 2014, 35, 4782-4791.	5.7	52
52	Effect of strain on degradation behaviors of WE43, Fe and Zn wires. <i>Acta Biomaterialia</i> , 2020, 113, 627-645.	4.1	52
53	NLRP3 inflammasome via IL-1 β regulates PCSK9 secretion. <i>Theranostics</i> , 2020, 10, 7100-7110.	4.6	51
54	High glucose-induced endothelial progenitor cell dysfunction. <i>Diabetes and Vascular Disease Research</i> , 2017, 14, 381-394.	0.9	50

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55	Experimental investigations and finite element simulation of cutting heat in vibrational and conventional drilling of cortical bone. <i>Medical Engineering and Physics</i> , 2014, 36, 1408-1415.	0.8	49
56	Silk scaffolds for musculoskeletal tissue engineering. <i>Experimental Biology and Medicine</i> , 2016, 241, 238-245.	1.1	48
57	Interaction of tumor cells and astrocytes promotes breast cancer brain metastases through TGF- β 2/ANGPTL4 axes. <i>Npj Precision Oncology</i> , 2019, 3, 24.	2.3	47
58	Silk fibroin for vascular regeneration. <i>Microscopy Research and Technique</i> , 2017, 80, 280-290.	1.2	46
59	Electrospun membranes of PELCL/PCL-REDV loading with miRNA-126 for enhancement of vascular endothelial cell adhesion and proliferation. <i>Materials Science and Engineering C</i> , 2018, 85, 37-46.	3.8	45
60	Effects of physicochemical properties of nanomaterials on their toxicity. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 103, n/a-n/a.	2.1	44
61	Calcium concentration dependent collagen mineralization. <i>Materials Science and Engineering C</i> , 2017, 73, 137-143.	3.8	43
62	Hydrolytic conversion of amorphous calcium phosphate into apatite accompanied by sustained calcium and orthophosphate ions release. <i>Materials Science and Engineering C</i> , 2017, 70, 1120-1124.	3.8	42
63	Crosslinking induces high mineralization of apatite minerals on collagen fibers. <i>International Journal of Biological Macromolecules</i> , 2018, 113, 450-457.	3.6	42
64	Blood flow patterns regulate PCSK9 secretion via MyD88-mediated pro-inflammatory cytokines. <i>Cardiovascular Research</i> , 2020, 116, 1721-1732.	1.8	42
65	Enhancing neural differentiation of induced pluripotent stem cells by conductive graphene/silk fibroin films. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 2973-2983.	2.1	41
66	A Hybrid Biofuel and Triboelectric Nanogenerator for Bioenergy Harvesting. <i>Nano-Micro Letters</i> , 2020, 12, 50.	14.4	41
67	Numerical simulation of pulsatile non-Newtonian flow in the carotid artery bifurcation. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2009, 25, 249-255.	1.5	40
68	Calcium Hydroxide-induced Proliferation, Migration, Osteogenic Differentiation, and Mineralization via the Mitogen-activated Protein Kinase Pathway in Human Dental Pulp Stem Cells. <i>Journal of Endodontics</i> , 2016, 42, 1355-1361.	1.4	40
69	Effects of several temporomandibular disorders on the stress distributions of temporomandibular joint: a finite element analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 137-143.	0.9	40
70	Electrical Stimulation Promotes Stem Cell Neural Differentiation in Tissue Engineering. <i>Stem Cells International</i> , 2021, 2021, 1-14.	1.2	40
71	The applications of conductive nanomaterials in the biomedical field. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 322-339.	2.1	39
72	The effect of mechanical loads on the degradation of aliphatic biodegradable polyesters. <i>International Journal of Energy Production and Management</i> , 2017, 4, 179-190.	1.9	39

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73	Preparation and characterization of electrospun graphene/silk fibroin conductive fibrous scaffolds. RSC Advances, 2017, 7, 7954-7963.	1.7	38
74	Highly aligned hierarchical intrafibrillar mineralization of collagen induced by periodic fluid shear stress. Journal of Materials Chemistry B, 2020, 8, 2562-2572.	2.9	38
75	The application of nanomaterials in controlled drug delivery for bone regeneration. Journal of Biomedical Materials Research - Part A, 2015, 103, 3978-3992.	2.1	37
76	Distinctive effects of CD34- and CD133-specific antibody-coated stents on re-endothelialization and in-stent restenosis at the early phase of vascular injury. International Journal of Energy Production and Management, 2015, 2, 87-96.	1.9	37
77	On-chip multiplexed single-cell patterning and controllable intracellular delivery. Microsystems and Nanoengineering, 2020, 6, 2.	3.4	37
78	Static magnetic field regulates proliferation, migration, differentiation and YAP/TAZ activation of human dental pulp stem cells. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 2029-2040.	1.3	36
79	Tai Chi Chuan exercise related change in brain function as assessed by functional near-infrared spectroscopy. Scientific Reports, 2019, 9, 13198.	1.6	36
80	Incorporation of multi-walled carbon nanotubes to PMMA bone cement improves cytocompatibility and osseointegration. Materials Science and Engineering C, 2019, 103, 109823.	3.8	36
81	Surface Modification of Multiple Bioactive Peptides to Improve Endothelialization of Vascular Grafts. Macromolecular Bioscience, 2019, 19, e1800368.	2.1	36
82	Self-powered wearable electronics. Wearable Technologies, 2020, 1, .	1.6	36
83	Emerging technologies for the prevention and management of diabetic foot ulcers. Journal of Tissue Viability, 2020, 29, 61-68.	0.9	36
84	Shear-mediated crystallization from amorphous calcium phosphate to bone apatite. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 54, 131-140.	1.5	35
85	Preparation of silk fibroin carriers for controlled release. Microscopy Research and Technique, 2017, 80, 312-320.	1.2	35
86	Self-Powered Force Sensors for Multidimensional Tactile Sensing. ACS Applied Materials & Interfaces, 2022, 14, 20122-20131.	4.0	35
87	Research on a novel poly (vinyl alcohol)/lysine/vanillin wound dressing: Biocompatibility, bioactivity and antimicrobial activity. Burns, 2014, 40, 1668-1678.	1.1	34
88	Hemodynamic insight into overlapping bare-metal stents strategy in the treatment of aortic aneurysm. Journal of Biomechanics, 2015, 48, 2041-2046.	0.9	34
89	Sustained delivery of calcium and orthophosphate ions from amorphous calcium phosphate and poly(L-lactic acid)-based electrospinning nanofibrous scaffold. Scientific Reports, 2017, 7, 45655.	1.6	34
90	The Effect of Arch Height and Material Hardness of Personalized Insole on Correction and Tissues of Flatfoot. Journal of Healthcare Engineering, 2017, 2017, 1-9.	1.1	34

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91	Simultaneous nano- and microscale structural control of injectable hydrogels via the assembly of nanofibrous protein microparticles for tissue regeneration. <i>Biomaterials</i> , 2019, 223, 119458.	5.7	34
92	Peptide-modified PELCL electrospun membranes for regulation of vascular endothelial cells. <i>Materials Science and Engineering C</i> , 2016, 68, 623-631.	3.8	33
93	Microspheres Assembled from Chitosan- <i>Graft</i> -Poly(lactic acid) Micelle-Like Core-Shell Nanospheres for Distinctly Controlled Release of Hydrophobic and Hydrophilic Biomolecules. <i>Macromolecular Bioscience</i> , 2016, 16, 1039-1047.	2.1	33
94	Biomechanical studies on biomaterial degradation and co-cultured cells: mechanisms, potential applications, challenges and prospects. <i>Journal of Materials Chemistry B</i> , 2019, 7, 7439-7459.	2.9	33
95	Endothelial Progenitor Cell-Derived Extracellular Vesicles: A Novel Candidate for Regenerative Medicine and Disease Treatment. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000255.	3.9	33
96	Matrix stiffness regulates SMC functions via TGF- β signaling pathway. <i>Biomaterials</i> , 2019, 221, 119407.	5.7	32
97	Effect of Electrospun Silk Fibroin-Silk Sericin Films on Macrophage Polarization and Vascularization. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 3502-3512.	2.6	32
98	Adverse Biological Effect of TiO ₂ and Hydroxyapatite Nanoparticles Used in Bone Repair and Replacement. <i>International Journal of Molecular Sciences</i> , 2016, 17, 798.	1.8	31
99	Enhanced osteogenic differentiation of MC3T3-E1 cells on grid-topographic surface and evidence for involvement of YAP mediator. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 1143-1152.	2.1	31
100	Patient-Specific Organoid and Organ-on-a-Chip: 3D Cell Culture Meets 3D Printing and Numerical Simulation. <i>Advanced Biology</i> , 2021, 5, e2000024.	1.4	31
101	Biomechanical effects of corticotomy approaches on dentoalveolar structures during canine retraction: A 3-dimensional finite element analysis. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2015, 148, 457-465.	0.8	30
102	Sigmoid sinus cortical plate dehiscence induces pulsatile tinnitus through amplifying sigmoid sinus venous sound. <i>Journal of Biomechanics</i> , 2017, 52, 68-73.	0.9	30
103	Biomimetic SIS-based biocomposites with improved biodegradability, antibacterial activity and angiogenesis for abdominal wall repair. <i>Materials Science and Engineering C</i> , 2020, 109, 110538.	3.8	30
104	Synergistically Detachable Microneedle Dressing for Programmed Treatment of Chronic Wounds. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102180.	3.9	30
105	Conductive nanostructured Si biomaterials enhance osteogenesis through electrical stimulation. <i>Materials Science and Engineering C</i> , 2019, 103, 109748.	3.8	29
106	Topographical patterning: characteristics of current processing techniques, controllable effects on material properties and co-cultured cell fate, updated applications in tissue engineering, and improvement strategies. <i>Journal of Materials Chemistry B</i> , 2019, 7, 7090-7109.	2.9	29
107	An Artificial Intelligence-Enhanced Blood Pressure Monitor Wristband Based on Piezoelectric Nanogenerator. <i>Biosensors</i> , 2022, 12, 234.	2.3	29
108	Functionalized Macrophage Exosomes with Panobinostat and PPM1D-siRNA for Diffuse Intrinsic Pontine Gliomas Therapy. <i>Advanced Science</i> , 2022, 9, e2200353.	5.6	29

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109	Apatite minerals derived from collagen phosphorylation modification induce the hierarchical intrafibrillar mineralization of collagen fibers. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 2403-2413.	2.1	28
110	Resin Composites Reinforced by Nanoscaled Fibers or Tubes for Dental Regeneration. <i>BioMed Research International</i> , 2014, 2014, 1-13.	0.9	27
111	Hemodynamic shear stress modulates endothelial cell autophagy: Role of LOX-1. <i>International Journal of Cardiology</i> , 2015, 184, 86-95.	0.8	27
112	Prediction of globe rupture caused by primary blast: a finite element analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 1024-1029.	0.9	27
113	In vitro and in vivo studies on as-extruded Mg- 5.25wt.%Zn-0.6wt.%Ca alloy as biodegradable metal. <i>Science China Materials</i> , 2018, 61, 619-628.	3.5	27
114	Biomechanical effects of posterior pedicle fixation techniques on the adjacent segment for the treatment of thoracolumbar burst fractures: a biomechanical analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019, 22, 1083-1092.	0.9	27
115	Surface modification of electrospun fibers with mechano-growth factor for mitigating the foreign-body reaction. <i>Bioactive Materials</i> , 2021, 6, 2983-2998.	8.6	27
116	The effects of fluid shear stress on proliferation and osteogenesis of human periodontal ligament cells. <i>Journal of Biomechanics</i> , 2016, 49, 572-579.	0.9	26
117	Numerical identification of the rupture locations in patient-specific abdominal aortic aneurysms using hemodynamic parameters. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2018, 21, 1-12.	0.9	26
118	Role of intraluminal thrombus in abdominal aortic aneurysm ruptures: A hemodynamic point of view. <i>Medical Physics</i> , 2019, 46, 4263-4275.	1.6	26
119	Magnetic nanoparticles applied in targeted therapy and magnetic resonance imaging: crucial preparation parameters, indispensable pre-treatments, updated research advancements and future perspectives. <i>Journal of Materials Chemistry B</i> , 2020, 8, 5973-5991.	2.9	26
120	Seven Day Insertion Rest in Whole Body Vibration Improves Multi-Level Bone Quality in Tail Suspension Rats. <i>PLoS ONE</i> , 2014, 9, e92312.	1.1	25
121	Abnormalities of structural covariance networks in drug-naïve boys with attention deficit hyperactivity disorder. <i>Psychiatry Research - Neuroimaging</i> , 2015, 231, 273-278.	0.9	24
122	Greater scaffold permeability promotes growth of osteoblastic cells in a perfused bioreactor. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, E210-E218.	1.3	24
123	The effect of fluid shear stress on the <i>in vitro</i> degradation of poly(lactide-co-glycolide) acid membranes. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2315-2324.	2.1	24
124	Biomaterial Scaffolds for Reproductive Tissue Engineering. <i>Annals of Biomedical Engineering</i> , 2017, 45, 1592-1607.	1.3	24
125	Multifunctional Switchable Nanocoated Membranes for Efficient Integrated Purification of Oil/Water Emulsions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54315-54323.	4.0	24
126	A quantitative study on magnesium alloy stent biodegradation. <i>Journal of Biomechanics</i> , 2018, 74, 98-105.	0.9	23

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127	Alkali Metal Chlorides Based Hydrogel as Eco-Friendly Neutral Electrolyte for Bendable Solid-State Capacitor. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701648.	1.9	23
128	Effect of Multiple Factors on Foam Stability in Foam Sclerotherapy. <i>Scientific Reports</i> , 2018, 8, 15683.	1.6	23
129	Effects of Plantar Vibration on Bone and Deep Fascia in a Rat Hindlimb Unloading Model of Disuse. <i>Frontiers in Physiology</i> , 2018, 9, 616.	1.3	23
130	Biomechanical and mechanical behavior of the plantar fascia in macro and micro structures. <i>Journal of Biomechanics</i> , 2018, 76, 160-166.	0.9	23
131	Wearable Devices for Single-Cell Sensing and Transfection. <i>Trends in Biotechnology</i> , 2019, 37, 1175-1188.	4.9	23
132	Research Methods and Progress of Patellofemoral Joint Kinematics: A Review. <i>Journal of Healthcare Engineering</i> , 2019, 2019, 1-13.	1.1	23
133	Peptide-modified bone repair materials: Factors influencing osteogenic activity. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 1491-1512.	2.1	23
134	Biomechanical design and analysis of auxetic pedicle screw to resist loosening. <i>Computers in Biology and Medicine</i> , 2021, 133, 104386.	3.9	23
135	Electrospun PELCL membranes loaded with QK peptide for enhancement of vascular endothelial cell growth. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 106.	1.7	22
136	Fabrication of water-stable silk fibroin scaffolds through self-assembly of proteins. <i>RSC Advances</i> , 2016, 6, 61402-61409.	1.7	22
137	Lower limb joint motion and muscle force in treadmill and over-ground exercise. <i>BioMedical Engineering OnLine</i> , 2019, 18, 89.	1.3	22
138	Applications of materials for dural reconstruction in pre-clinical and clinical studies: Advantages and drawbacks, efficacy, and selections. <i>Materials Science and Engineering C</i> , 2020, 117, 111326.	3.8	22
139	<i>In vitro</i> degradation, biocompatibility and antibacterial properties of pure zinc: assessing the potential of Zn as a guided bone regeneration membrane. <i>Journal of Materials Chemistry B</i> , 2021, 9, 5114-5127.	2.9	22
140	Vascular smooth muscle cell glycocalyx mediates shear stress-induced contractile responses via a Rho kinase (ROCK)-myosin light chain phosphatase (MLCP) pathway. <i>Scientific Reports</i> , 2017, 7, 42092.	1.6	21
141	Interrater agreement between American and Chinese sleep centers according to the 2014 AASM standard. <i>Sleep and Breathing</i> , 2019, 23, 719-728.	0.9	21
142	2020 update on human coronaviruses: One health, one world. <i>Medicine in Novel Technology and Devices</i> , 2020, 8, 100043.	0.9	21
143	A resazurin-based, nondestructive assay for monitoring cell proliferation during a scaffold-based 3D culture process. <i>International Journal of Energy Production and Management</i> , 2020, 7, 271-281.	1.9	21
144	A biomimetic hierarchical small intestinal submucosa-chitosan sponge/chitosan hydrogel scaffold with a micro/nano structure for dural repair. <i>Journal of Materials Chemistry B</i> , 2021, 9, 7821-7834.	2.9	21

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145	Review of in-vivo characterisation of corneal biomechanics. <i>Medicine in Novel Technology and Devices</i> , 2021, 11, 100073.	0.9	21
146	3D-SIFT-Flow for atlas-based CT liver image segmentation. <i>Medical Physics</i> , 2016, 43, 2229-2241.	1.6	20
147	Bioinspired helical graft with taper to enhance helical flow. <i>Journal of Biomechanics</i> , 2016, 49, 3643-3650.	0.9	20
148	Numerical simulation of haemodynamics and low-density lipoprotein transport in the rabbit aorta and their correlation with atherosclerotic plaque thickness. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170140.	1.5	20
149	Degradation and biocompatibility of a series of strontium substituted hydroxyapatite coatings on magnesium alloys. <i>RSC Advances</i> , 2019, 9, 15013-15021.	1.7	20
150	A Review: Optimization for Poly(glycerol sebacate) and Fabrication Techniques for Its Centered Scaffolds. <i>Macromolecular Bioscience</i> , 2021, 21, e2100022.	2.1	20
151	Hydrogel-based therapeutic angiogenesis: An alternative treatment strategy for critical limb ischemia. <i>Biomaterials</i> , 2021, 274, 120872.	5.7	20
152	Comparison of Postural Responses to Galvanic Vestibular Stimulation between Pilots and the General Populace. <i>BioMed Research International</i> , 2015, 2015, 1-6.	0.9	19
153	Cell-based strategies for vascular regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 1297-1314.	2.1	19
154	The effect of tensile and fluid shear stress on the in vitro degradation of magnesium alloy for stent applications. <i>Bioactive Materials</i> , 2018, 3, 448-454.	8.6	19
155	Design of Virtual Guiding Tasks With Haptic Feedback for Assessing the Wrist Motor Function of Patients With Upper Motor Neuron Lesions. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 984-994.	2.7	19
156	Three-dimensional silk fibroin scaffolds incorporated with graphene for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 515-523.	2.1	19
157	Biomechanical study on implantable and interventional medical devices. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 875-894.	1.5	19
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