

Yubo Fan

List of Publications by Year in descending order

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354
papers

12,290
citations

26630

56
h-index

38395

95
g-index

375
all docs

375
docs citations

375
times ranked

13220
citing authors

#	ARTICLE	IF	CITATIONS
1	Symbiotic cardiac pacemaker. Nature Communications, 2019, 10, 1821.	12.8	429
2	A bionic stretchable nanogenerator for underwater sensing and energy harvesting. Nature Communications, 2019, 10, 2695.	12.8	413
3	Self-Powered Pulse Sensor for Antidiastole of Cardiovascular Disease. Advanced Materials, 2017, 29, 1703456.	21.0	360
4	Fully Bioabsorbable Natural-Materials-Based Triboelectric Nanogenerators. Advanced Materials, 2018, 30, e1801895.	21.0	319
5	Wearable and Implantable Triboelectric Nanogenerators. Advanced Functional Materials, 2019, 29, 1808820.	14.9	296
6	The use of carbon nanotubes to induce osteogenic differentiation of human adipose-derived MSCs in vitro and ectopic bone formation in vivo. Biomaterials, 2012, 33, 4818-4827.	11.4	250
7	Current investigations into magnetic nanoparticles for biomedical applications. Journal of Biomedical Materials Research - Part A, 2016, 104, 1285-1296.	4.0	248
8	Effect of microporosity on scaffolds for bone tissue engineering. International Journal of Energy Production and Management, 2018, 5, 115-124.	3.7	243
9	Emerging Implantable Energy Harvesters and Self-Powered Implantable Medical Electronics. ACS Nano, 2020, 14, 6436-6448.	14.6	223
10	Implantable Energy Harvesting Devices. Advanced Materials, 2018, 30, e1801511.	21.0	214
11	Bacteria-responsive intelligent wound dressing: Simultaneous In situ detection and inhibition of bacterial infection for accelerated wound healing. Biomaterials, 2018, 161, 11-23.	11.4	194
12	Electrospun sulfated silk fibroin nanofibrous scaffolds for vascular tissue engineering. Biomaterials, 2011, 32, 3784-3793.	11.4	192
13	Transcatheter Self-Powered Ultrasensitive Endocardial Pressure Sensor. Advanced Functional Materials, 2019, 29, 1807560.	14.9	181
14	Piezoelectric nanofibrous scaffolds as in vivo energy harvesters for modifying fibroblast alignment and proliferation in wound healing. Nano Energy, 2018, 43, 63-71.	16.0	169
15	Hemodynamic Shear Stress via ROS Modulates PCSK9 Expression in Human Vascular Endothelial and Smooth Muscle Cells and Along the Mouse Aorta. Antioxidants and Redox Signaling, 2015, 22, 760-771.	5.4	160
16	A numerical study on the flow of blood and the transport of LDL in the human aorta: the physiological significance of the helical flow in the aortic arch. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H163-H170.	3.2	159
17	Effect of non-Newtonian and pulsatile blood flow on mass transport in the human aorta. Journal of Biomechanics, 2011, 44, 1123-1131.	2.1	155
18	Body-Integrated Self-Powered System for Wearable and Implantable Applications. ACS Nano, 2019, 13, 6017-6024.	14.6	142

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19	Why Do Woodpeckers Resist Head Impact Injury: A Biomechanical Investigation. PLoS ONE, 2011, 6, e26490.	2.5	120
20	Physiological Significance of Helical Flow in the Arterial System and its Potential Clinical Applications. Annals of Biomedical Engineering, 2015, 43, 3-15.	2.5	118
21	Development of a finite element model of female foot for high-heeled shoe design. Clinical Biomechanics, 2008, 23, S31-S38.	1.2	115
22	Gland Instance Segmentation Using Deep Multichannel Neural Networks. IEEE Transactions on Biomedical Engineering, 2017, 64, 2901-2912.	4.2	114
23	Influence of the mechanical properties of biomaterials on degradability, cell behaviors and signaling pathways: current progress and challenges. Biomaterials Science, 2020, 8, 2714-2733.	5.4	111
24	Effect of Fluid Shear Stress on Cardiomyogenic Differentiation of Rat Bone Marrow Mesenchymal Stem Cells. Archives of Medical Research, 2010, 41, 497-505.	3.3	109
25	Current investigations into carbon nanotubes for biomedical application. Biomedical Materials (Bristol), 2010, 5, 022001.	3.3	108
26	Triboelectric nanogenerator based on degradable materials. EcoMat, 2021, 3, e12072.	11.9	108
27	Fully Bioabsorbable Capacitor as an Energy Storage Unit for Implantable Medical Electronics. Advanced Science, 2019, 6, 1801625.	11.2	106
28	3D-Printed Biopolymers for Tissue Engineering Application. International Journal of Polymer Science, 2014, 2014, 1-13.	2.7	103
29	Biocomposites reinforced by fibers or tubes as scaffolds for tissue engineering or regenerative medicine. Journal of Biomedical Materials Research - Part A, 2014, 102, 1580-1594.	4.0	103
30	Improving Chronic Diabetic Wound Healing through an Injectable and Self-Healing Hydrogel with Platelet-Rich Plasma Release. ACS Applied Materials & Interfaces, 2020, 12, 55659-55674.	8.0	99
31	Endothelium oriented differentiation of bone marrow mesenchymal stem cells under chemical and mechanical stimulations. Journal of Biomechanics, 2010, 43, 1176-1181.	2.1	98
32	Refreshable Braille Display System Based on Triboelectric Nanogenerator and Dielectric Elastomer. Advanced Functional Materials, 2021, 31, 2006612.	14.9	96
33	In vitro degradation of porous poly(l-lactide-co-glycolide)/ β -tricalcium phosphate (PLGA/ β -TCP) scaffolds under dynamic and static conditions. Polymer Degradation and Stability, 2008, 93, 1838-1845.	5.8	91
34	Effect of substrate stiffness on the functions of rat bone marrow and adipose tissue derived mesenchymal stem cells <i>in vitro</i> . Journal of Biomedical Materials Research - Part A, 2014, 102, 1092-1101.	4.0	91
35	Micro-/Nano- sized hydroxyapatite directs differentiation of rat bone marrow derived mesenchymal stem cells towards an osteoblast lineage. Nanoscale, 2012, 4, 2484.	5.6	88
36	PCSK9 regulates expression of scavenger receptors and ox-LDL uptake in macrophages. Cardiovascular Research, 2018, 114, 1145-1153.	3.8	88

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37	A Bioresorbable Dynamic Pressure Sensor for Cardiovascular Postoperative Care. <i>Advanced Materials</i> , 2021, 33, e2102302.	21.0	85
38	Improved Hemocompatibility and Endothelialization of Vascular Grafts by Covalent Immobilization of Sulfated Silk Fibroin on Poly(lactic-co-glycolic acid) Scaffolds. <i>Biomacromolecules</i> , 2011, 12, 2914-2924.	5.4	83
39	Self-Powered Gesture Recognition Wristband Enabled by Machine Learning for Full Keyboard and Multicommand Input. <i>Advanced Materials</i> , 2022, 34, e2200793.	21.0	81
40	Reliability and Validity of Kinect RGB-D Sensor for Assessing Standing Balance. <i>IEEE Sensors Journal</i> , 2014, 14, 1633-1638.	4.7	79
41	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.	11.4	78
42	Deep learning in digital pathology image analysis: a survey. <i>Frontiers of Medicine</i> , 2020, 14, 470-487.	3.4	77
43	Human Motion Driven Self-Powered Photodynamic System for Long-Term Autonomous Cancer Therapy. <i>ACS Nano</i> , 2020, 14, 8074-8083.	14.6	77
44	Effect of Cyclic Strain on Cardiomyogenic Differentiation of Rat Bone Marrow Derived Mesenchymal Stem Cells. <i>PLoS ONE</i> , 2012, 7, e34960.	2.5	72
45	A wearable noncontact free-rotating hybrid nanogenerator for self-powered electronics. <i>Information Materials</i> , 2020, 2, 1191-1200.	17.3	71
46	Formation of porous PLGA scaffolds by a combining method of thermally induced phase separation and porogen leaching. <i>Journal of Applied Polymer Science</i> , 2008, 109, 1232-1241.	2.6	69
47	Polysaccharide-Peptide Cryogels for Multidrug-Resistant Bacteria Infected Wound Healing and Hemostasis. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901041.	7.6	69
48	A Battery-Like Self-Charge Universal Module for Motional Energy Harvest. <i>Advanced Energy Materials</i> , 2019, 9, 1901875.	19.5	68
49	Flow patterns and wall shear stress distribution in human internal carotid arteries: The geometric effect on the risk for stenoses. <i>Journal of Biomechanics</i> , 2012, 45, 83-89.	2.1	65
50	Dynamic real-time imaging of living cell traction force by piezo-phototronic light nano-antenna array. <i>Science Advances</i> , 2021, 7, .	10.3	65
51	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.	5.8	64
52	A Mechanical Model of the Cornea Considering the Crimping Morphology of Collagen Fibrils. , 2014, 55, 2739.		63
53	Cross-Talk Between PCSK9 and Damaged mtDNA in Vascular Smooth Muscle Cells: Role in Apoptosis. <i>Antioxidants and Redox Signaling</i> , 2016, 25, 997-1008.	5.4	63
54	Applications of decellularized materials in tissue engineering: advantages, drawbacks and current improvements, and future perspectives. <i>Journal of Materials Chemistry B</i> , 2020, 8, 10023-10049.	5.8	63

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55	Reversible Conversion between Schottky and Ohmic Contacts for Highly Sensitive, Multifunctional Biosensors. <i>Advanced Functional Materials</i> , 2020, 30, 1907999.	14.9	61
56	Effect of stress on corrosion of high-purity magnesium in vitro and in vivo. <i>Acta Biomaterialia</i> , 2019, 83, 477-486.	8.3	60
57	Influences of tensile load on in vitro degradation of an electrospun poly(L-lactide-co-glycolide) scaffold. <i>Acta Biomaterialia</i> , 2010, 6, 2991-2996.	8.3	59
58	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.	8.0	59
59	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.	5.8	58
60	In vitro and in vivo degradation behavior of Mg ²⁺ -Ca and Mg ²⁺ -Zn alloys. <i>Bioactive Materials</i> , 2020, 5, 275-285.	15.6	58
61	A 25-year bibliometric study of implantable energy harvesters and self-powered implantable medical electronics researches. <i>Materials Today Energy</i> , 2020, 16, 100386.	4.7	58
62	Does Location of Rotation Center in Artificial Disc Affect Cervical Biomechanics?. <i>Spine</i> , 2015, 40, E469-E475.	2.0	54
63	A novel auxetic structure based bone screw design: Tensile mechanical characterization and pullout fixation strength evaluation. <i>Materials and Design</i> , 2020, 188, 108424.	7.0	54
64	Physiological pulsatile flow culture conditions to generate functional endothelium on a sulfated silk fibroin nanofibrous scaffold. <i>Biomaterials</i> , 2014, 35, 4782-4791.	11.4	52
65	Effect of strain on degradation behaviors of WE43, Fe and Zn wires. <i>Acta Biomaterialia</i> , 2020, 113, 627-645.	8.3	52
66	NLRP3 inflammasome <i>via</i> IL-1 ^β regulates PCSK9 secretion. <i>Theranostics</i> , 2020, 10, 7100-7110.	10.0	51
67	Nano-hydroxyapatite particles induce apoptosis on MC3T3-E1 cells and tissue cells in SD rats. <i>Nanoscale</i> , 2012, 4, 2894.	5.6	50
68	Biomechanical and histological evaluation of the application of biodegradable poly-L-lactide cushion to the plate internal fixation for bone fracture healing. <i>Clinical Biomechanics</i> , 2008, 23, S7-S16.	1.2	49
69	Biomechanical investigation of thoracolumbar spine in different postures during ejection using a combined finite element and multi-body approach. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2014, 30, 1121-1131.	2.1	49
70	Repair of Bone Defect in Femoral Condyle Using Microencapsulated Chitosan, Nanohydroxyapatite/Collagen and Poly(L-lactide)-Based Microsphere-Based Scaffold Delivery System. <i>Artificial Organs</i> , 2011, 35, E119-28.	1.9	48
71	Silk scaffolds for musculoskeletal tissue engineering. <i>Experimental Biology and Medicine</i> , 2016, 241, 238-245.	2.4	48
72	An S-type bypass can improve the hemodynamics in the bypassed arteries and suppress intimal hyperplasia along the host artery floor. <i>Journal of Biomechanics</i> , 2008, 41, 2498-2505.	2.1	47

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73	Nestable arched triboelectric nanogenerator for large deflection biomechanical sensing and energy harvesting. <i>Nano Energy</i> , 2020, 69, 104417.	16.0	47
74	Flexible and stretchable dual mode nanogenerator for rehabilitation monitoring and information interaction. <i>Journal of Materials Chemistry B</i> , 2020, 8, 3647-3654.	5.8	47
75	The effects of tensile stress on degradation of biodegradable PLGA membranes: A quantitative study. <i>Polymer Degradation and Stability</i> , 2016, 124, 95-100.	5.8	46
76	A flexible self-arched biosensor based on combination of piezoelectric and triboelectric effects. <i>Applied Materials Today</i> , 2020, 20, 100699.	4.3	45
77	Biomechanical consideration of prosthesis selection in hybrid surgery for bi-level cervical disc degenerative diseases. <i>European Spine Journal</i> , 2017, 26, 1181-1190.	2.2	44
78	Calcium concentration dependent collagen mineralization. <i>Materials Science and Engineering C</i> , 2017, 73, 137-143.	7.3	43
79	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.	7.3	42
80	Crosslinking induces high mineralization of apatite minerals on collagen fibers. <i>International Journal of Biological Macromolecules</i> , 2018, 113, 450-457.	7.5	42
81	Blood flow patterns regulate PCSK9 secretion via MyD88-mediated pro-inflammatory cytokines. <i>Cardiovascular Research</i> , 2020, 116, 1721-1732.	3.8	42
82	Effect of the endothelial glycocalyx layer on arterial LDL transport under normal and high pressure. <i>Journal of Theoretical Biology</i> , 2011, 283, 71-81.	1.7	41
83	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.	4.0	41
84	A Hybrid Biofuel and Triboelectric Nanogenerator for Bioenergy Harvesting. <i>Nano-Micro Letters</i> , 2020, 12, 50.	27.0	41
85	Numerical simulation of tooth movement in a therapy period. <i>Clinical Biomechanics</i> , 2008, 23, S48-S52.	1.2	40
86	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.	3.1	40
87	Electrical Stimulation Promotes Stem Cell Neural Differentiation in Tissue Engineering. <i>Stem Cells International</i> , 2021, 2021, 1-14.	2.5	40
88	Relationships Between Femoral Strength Evaluated by Nonlinear Finite Element Analysis and BMD, Material Distribution and Geometric Morphology. <i>Annals of Biomedical Engineering</i> , 2012, 40, 1575-1585.	2.5	38
89	Preparation and characterization of electrospun graphene/silk fibroin conductive fibrous scaffolds. <i>RSC Advances</i> , 2017, 7, 7954-7963.	3.6	38
90	Highly aligned hierarchical intrafibrillar mineralization of collagen induced by periodic fluid shear stress. <i>Journal of Materials Chemistry B</i> , 2020, 8, 2562-2572.	5.8	38

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91	Fluid shear stress regulates metalloproteinase-1 and 2 in human periodontal ligament cells: Involvement of extracellular signal-regulated kinase (ERK) and P38 signaling pathways. <i>Journal of Biomechanics</i> , 2012, 45, 2368-2375.	2.1	37
92	On-chip multiplexed single-cell patterning and controllable intracellular delivery. <i>Microsystems and Nanoengineering</i> , 2020, 6, 2.	7.0	37
93	Static magnetic field regulates proliferation, migration, differentiation and YAP/TAZ activation of human dental pulp stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 2029-2040.	2.7	36
94	Incorporation of multi-walled carbon nanotubes to PMMA bone cement improves cytocompatibility and osseointegration. <i>Materials Science and Engineering C</i> , 2019, 103, 109823.	7.3	36
95	Emerging technologies for the prevention and management of diabetic foot ulcers. <i>Journal of Tissue Viability</i> , 2020, 29, 61-68.	2.0	36
96	Shear-mediated crystallization from amorphous calcium phosphate to bone apatite. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 54, 131-140.	3.1	35
97	The Effect of Arch Height and Material Hardness of Personalized Insole on Correction and Tissues of Flatfoot. <i>Journal of Healthcare Engineering</i> , 2017, 2017, 1-9.	1.9	34
98	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.	5.8	33
99	Endothelial Progenitor Cell-Derived Extracellular Vesicles: A Novel Candidate for Regenerative Medicine and Disease Treatment. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000255.	7.6	33
100	Triboelectric-polarization-enhanced high sensitive ZnO UV sensor. <i>Nano Today</i> , 2020, 33, 100873.	11.9	33
101	Self-powered technology for next-generation biosensor. <i>Science Bulletin</i> , 2021, 66, 1709-1712.	9.0	32
102	Effect of Electrospun Silk Fibroin/Silk Sericin Films on Macrophage Polarization and Vascularization. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 3502-3512.	5.2	32
103	Biomechanism of impact resistance in the woodpecker's head and its application. <i>Science China Life Sciences</i> , 2013, 56, 715-719.	4.9	31
104	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.	4.0	31
105	Shear-mediated orientational mineralization of bone apatite on collagen fibrils. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9141-9147.	5.8	31
106	Patient-Specific Organoid and Organ-on-a-Chip: 3D Cell Culture Meets 3D Printing and Numerical Simulation. <i>Advanced Biology</i> , 2021, 5, e2000024.	2.5	31
107	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.	1.7	30
108	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.	7.3	30

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109	Electrochemically Enabled Embedded Three-Dimensional Printing of Freestanding Gallium Wire-like Structures. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53966-53972.	8.0	30
110	Synergistically Detachable Microneedle Dressing for Programmed Treatment of Chronic Wounds. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102180.	7.6	30
111	Effect of nano-hydroxyapatite on the axonal guidance growth of rat cortical neurons. <i>Nanoscale</i> , 2012, 4, 3201.	5.6	29
112	Conductive nanostructured Si biomaterials enhance osteogenesis through electrical stimulation. <i>Materials Science and Engineering C</i> , 2019, 103, 109748.	7.3	29
113	Multi-label classification for colon cancer using histopathological images. <i>Microscopy Research and Technique</i> , 2013, 76, 1266-1277.	2.2	28
114	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.	4.0	28
115	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.	6.3	27
116	Surface modification of electrospun fibers with mechano-growth factor for mitigating the foreign-body reaction. <i>Bioactive Materials</i> , 2021, 6, 2983-2998.	15.6	27
117	The effects of fluid shear stress on proliferation and osteogenesis of human periodontal ligament cells. <i>Journal of Biomechanics</i> , 2016, 49, 572-579.	2.1	26
118	Role of intraluminal thrombus in abdominal aortic aneurysm ruptures: A hemodynamic point of view. <i>Medical Physics</i> , 2019, 46, 4263-4275.	3.0	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.	5.8	26
120	Biomechanical Gender Differences of the Ankle Joint During Simulated Half-Squat Parachute Landing. <i>Aviation, Space, and Environmental Medicine</i> , 2010, 81, 761-767.	0.5	25
121	Involvement of large conductance Ca ²⁺ -activated K ⁺ channel in laminar shear stress-induced inhibition of vascular smooth muscle cell proliferation. <i>Pflügers Archiv European Journal of Physiology</i> , 2013, 465, 221-232.	2.8	25
122	Increased Proliferation and Differentiation of Pre-Osteoblasts MC3T3-E1 Cells on Nanostructured Polypyrrole Membrane Under Combined Electrical and Mechanical Stimulation. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 1532-1539.	1.1	25
123	Delivery of demineralized bone matrix powder using a salt-leached silk fibroin carrier for bone regeneration. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3177-3188.	5.8	25
124	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.	2.7	24
125	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.	4.0	24
126	Multifunctional Switchable Nanocoated Membranes for Efficient Integrated Purification of Oil/Water Emulsions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54315-54323.	8.0	24

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127	Nitric oxide transport in an axisymmetric stenosis. <i>Journal of the Royal Society Interface</i> , 2012, 9, 2468-2478.	3.4	23
128	Geometric classification of the carotid siphon: association between geometry and stenoses. <i>Surgical and Radiologic Anatomy</i> , 2013, 35, 385-394.	1.2	23
129	Potential protective effect of biphasic electrical stimulation against growth factor-deprived apoptosis on olfactory bulb neural progenitor cells through the brain-derived neurotrophic factor- α -phosphatidylinositol 3-kinase/Akt pathway. <i>Experimental Biology and Medicine</i> , 2013, 238, 951-959.	2.4	23
130	A quantitative study on magnesium alloy stent biodegradation. <i>Journal of Biomechanics</i> , 2018, 74, 98-105.	2.1	23
131	Research Methods and Progress of Patellofemoral Joint Kinematics: A Review. <i>Journal of Healthcare Engineering</i> , 2019, 2019, 1-13.	1.9	23
132	Biomechanical design and analysis of auxetic pedicle screw to resist loosening. <i>Computers in Biology and Medicine</i> , 2021, 133, 104386.	7.0	23
133	Lower limb joint motion and muscle force in treadmill and over-ground exercise. <i>BioMedical Engineering OnLine</i> , 2019, 18, 89.	2.7	22
134	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.	7.3	22
135	<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.	5.8	22
136	Studies on preparation and formation mechanism of poly(lactide-co-glycolide) microrods via one-step electrospray and an application for drug delivery system. <i>European Polymer Journal</i> , 2021, 148, 110372.	5.4	22
137	Effects of Local Vibration With Different Intermittent Durations on Skin Blood Flow Responses in Diabetic People. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 310.	4.1	21
138	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.	3.7	21
139	A biomimetic hierarchical small intestinal submucosa- α -chitosan sponge/chitosan hydrogel scaffold with a micro/nano structure for dural repair. <i>Journal of Materials Chemistry B</i> , 2021, 9, 7821-7834.	5.8	21
140	Molecular insights into MXene destructing the cell membrane as a "nano thermal blade". <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 3341-3350.	2.8	21
141	Degradation and biocompatibility of a series of strontium substituted hydroxyapatite coatings on magnesium alloys. <i>RSC Advances</i> , 2019, 9, 15013-15021.	3.6	20
142	A Review: Optimization for Poly(glycerol sebacate) and Fabrication Techniques for Its Centered Scaffolds. <i>Macromolecular Bioscience</i> , 2021, 21, e2100022.	4.1	20
143	Hydrogel-based therapeutic angiogenesis: An alternative treatment strategy for critical limb ischemia. <i>Biomaterials</i> , 2021, 274, 120872.	11.4	20
144	Comparison of Postural Responses to Galvanic Vestibular Stimulation between Pilots and the General Populace. <i>BioMed Research International</i> , 2015, 2015, 1-6.	1.9	19

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145	Simulated bone remodeling around tilted dental implants in the anterior maxilla. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016, 15, 701-712.	2.8	19
146	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.	15.6	19
147	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.	4.9	19
148	The effects of silk layer-by-layer surface modification on the mechanical and structural retention of extracellular matrix scaffolds. <i>Biomaterials Science</i> , 2020, 8, 4026-4038.	5.4	19
149	Three-dimensional silk fibroin scaffolds incorporated with graphene for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 515-523.	4.0	19
150	Biomechanical study on implantable and interventional medical devices. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 875-894.	3.4	19
151	Hydroxyapatite-containing silk fibroin nanofibrous scaffolds for tissue-engineered periosteum. <i>RSC Advances</i> , 2016, 6, 19463-19474.	3.6	18
152	Ternary hydrogels with tunable mechanical and self-healing properties based on the synergistic effects of multiple dynamic bonds. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4660-4671.	5.8	18
153	Hydrogel Loaded with VEGF/TFEB-engineered Extracellular Vesicles for Rescuing Critical Limb Ischemia by a Dual-pathway Activation Strategy. <i>Advanced Healthcare Materials</i> , 2022, 11, e2100334.	7.6	18
154	A critical review on the biomechanical study of cervical interbody fusion cage. <i>Medicine in Novel Technology and Devices</i> , 2021, 11, 100070.	1.6	18
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