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	Porous interbody fusion cage design via topology optimization and biomechanical performance analysis. Computer Methods in Biomechanics and Biomedical Engineering, 2023, 26, 650-659.	1.6	5
2	Hydrogel Loaded with VEGF/TFEBâ€Engineered Extracellular Vesicles for Rescuing Critical Limb Ischemia by a Dualâ€Pathway Activation Strategy. Advanced Healthcare Materials, 2022, 11, e2100334.	7.6	18
3	Biomechanics of adjacent segment after three-level lumbar fusion, hybrid single-level semi-rigid fixation with two-level lumbar fusion. Computer Methods in Biomechanics and Biomedical Engineering, 2022, 25, 455-463.	1.6	3
4	Effect of intermittent pneumatic compression with different inflation pressures on the distal microvascular responses of the foot in people with type 2 diabetes mellitus. International Wound Journal, 2022, 19, 968-977.	2.9	5
5	Phenytoin Regulates Migration and Osteogenic Differentiation by MAPK Pathway in Human Periodontal Ligament Cells. Cellular and Molecular Bioengineering, 2022, 15, 151-160.	2.1	8
6	Label-free visible colorimetric biosensor for detection of multiple pathogenic bacteria based on engineered polydiacetylene liposomes. Journal of Colloid and Interface Science, 2022, 606, 1684-1694.	9.4	18
7	A surface-eroding poly(1,3-trimethylene carbonate) coating for magnesium based cardiovascular stents with stable drug release and improved corrosion resistance. Bioactive Materials, 2022, 7, 144-153.	15.6	17
8	A review of magnetic ordered materials in biomedical field: Constructions, applications and prospects. Composites Part B: Engineering, 2022, 228, 109401.	12.0	16
9	The effect of periodic stretching on countering bone loss in hindlimb unloading rat. Acta Astronautica, 2022, 190, 202-207.	3.2	2
10	Near-infrared triggered injectable ferrimagnetic chitosan thermosensitive hydrogel for photo hyperthermia and precisely controlled drug release in tumor ablation. European Polymer Journal, 2022, 162, 110879.	5.4	16
11	Simulation of stent retriever thrombectomy in acute ischemic stroke by finite element analysis. Computer Methods in Biomechanics and Biomedical Engineering, 2022, 25, 740-749.	1.6	2
12	Variations of human cerebral and ocular blood flow during exposure to multi-axial accelerations. Medical and Biological Engineering and Computing, 2022, 60, 471-486.	2.8	1
13	Charge balancing stabilized apatite enter into collagen fibers by osmotic pressure to induce the formation of intrafibrillar mineralization. Materials Today Communications, 2022, 30, 103064.	1.9	3
14	Reconfigurable and regenerable liquid metal surface oxide for continuous and quantifiable adsorption of biological dye. Applied Materials Today, 2022, 26, 101265.	4.3	3
15	Oriented/dual-gradient in structure and mechanics chitosan hydrogel bio-films based on stretching for guiding cell orientation. Composites Part B: Engineering, 2022, 232, 109616.	12.0	8
16	The effects of titanium mesh cage size on the biomechanical responses of cervical spine after anterior cervical corpectomy and fusion: A finite element study. Clinical Biomechanics, 2022, 91, 105547.	1.2	12
17	Highâ€Throughput DNA Tensioner Platform for Interrogating Mechanical Heterogeneity of Single Living Cells. Small, 2022, 18, e2106196.	10.0	15
18	GNIFdb: a neoantigen intrinsic feature database for glioma. Database: the Journal of Biological Databases and Curation, 2022, 2022, .	3.0	5

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19	Engineer a preâ€metastatic niched microenvironment to attract breast cancer cells by utilizing a <scp>3D</scp> printed polycaprolactone/nanoâ€hydroxyapatite osteogenic scaffold â€“ An in vitro model system for proof of concept. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2022, 110, 1604-1614.	3.4	6
20	Synergistically Detachable Microneedle Dressing for Programmed Treatment of Chronic Wounds. Advanced Healthcare Materials, 2022, 11, e2102180.	7.6	30
21	Selfâ€Organization of Tissue Growth by Interfacial Mechanical Interactions in Multilayered Systems. Advanced Science, 2022, 9, e2104301.	11.2	3
22	Study on the Influence of Shear Stress and Pulse Electrical Stimulation to the Growth of Cardiomyocytes. Journal of Biomedical Nanotechnology, 2022, 18, 132-143.	1.1	3
23	3D Segmentation Guided Style-Based Generative Adversarial Networks for PET Synthesis. IEEE Transactions on Medical Imaging, 2022, 41, 2092-2104.	8.9	8
24	Effect of Inter-Fragmentary Gap Size on Neovascularization During Bone Healing: A Micro-CT Imaging Study. Frontiers in Bioengineering and Biotechnology, 2022, 10, 808182.	4.1	0
25	Efficacy of various multi-layers of orthodontic clear aligners: a simulated study. Computer Methods in Biomechanics and Biomedical Engineering, 2022, 25, 1710-1721.	1.6	7
26	Differential Regulation by Mechanical Stretch of the Expressions of Large-Conductance Ca2+-Activated K+ Channel and L-Type Voltage-Dependent Ca2+ Channel in Rat Uterine Smooth Muscle Cells. Journal of Membrane Biology, 2022, 255, 357-361.	2.1	1
27	Prediction of Femoral Strength Based on Bone Density and Biochemical Markers in Elderly Men With Type 2 Diabetes Mellitus. Frontiers in Bioengineering and Biotechnology, 2022, 10, 855364.	4.1	2
28	Selfâ€Powered Gesture Recognition Wristband Enabled by Machine Learning for Full Keyboard and Multicommand Input. Advanced Materials, 2022, 34, e2200793.	21.0	81
29	Applying exercise-mimetic engineered skeletal muscle model to interrogate the adaptive response of irisin to mechanical force. IScience, 2022, 25, 104135.	4.1	2
30	Red blood cell-like magnetic particles and magnetic field promoted neuronal outgrowth by activating Netrin-1/DCC signaling pathway in vitro and in vivo. Composites Part B: Engineering, 2022, 237, 109789.	12.0	3
31	Differences in root stress and strain distribution in buccal and lingual orthodontics: A finite element analysis study. Medicine in Novel Technology and Devices, 2022, 14, 100119.	1.6	3
32	Non-contact electrical stimulation as an effective means to promote wound healing. Bioelectrochemistry, 2022, 146, 108108.	4.6	11
33	pH-responsive mesoporous Fe2O3â€“Au nanomedicine delivery system with magnetic targeting for cancer therapy. Medicine in Novel Technology and Devices, 2022, 15, 100127.	1.6	6
34	A systematic review of DVT and stent restenosis after stent implantation for iliac vein compression syndrome. Medicine in Novel Technology and Devices, 2022, 15, 100125.	1.6	0
35	Static magnetic field regulates proliferation, migration, and differentiation of human dental pulp stem cells by MAPK pathway. Cytotechnology, 2022, 74, 395-405.	1.6	2
36	Wearable Iontronic FMG for Classification of Muscular Locomotion. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2854-2863.	6.3	4

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37	Ultracompact Deep Neural Network for Ultrafast Optical Property Extraction in Spatial Frequency Domain Imaging (SFDI). Photonics, 2022, 9, 327.	2.0	2
38	Study on the effects of alternating capacitive electric fields with different frequencies on promoting wound healing. Medicine in Novel Technology and Devices, 2022, 16, 100142.	1.6	3
39	Cytosolic peptides encoding CaV1 C-termini downregulate the calcium channel activity-neuritogenesis coupling. Communications Biology, 2022, 5, 484.	4.4	6
40	A Self-Powered Optogenetic System for Implantable Blood Glucose Control. Research, 2022, 2022, .	5.7	7
41	In vitro fluidic systems: Applying shear stress on endothelial cells. Medicine in Novel Technology and Devices, 2022, 15, 100143.	1.6	10
42	Dual-phase injectable thermosensitive hydrogel incorporating Fe3O4@PDA with pH and NIR triggered drug release for synergistic tumor therapy. European Polymer Journal, 2022, 176, 111424.	5.4	10
43	Novel Mg-Ca-La alloys for guided bone regeneration: Mechanical performance, stress corrosion behavior and biocompatibility. Materials Today Communications, 2022, 32, 103949.	1.9	4
44	Aligned graphene/silk fibroin conductive fibrous scaffolds for guiding neurite outgrowth in rat spinal cord neurons. Journal of Biomedical Materials Research - Part A, 2021, 109, 488-499.	4.0	14
45	Threeâ€dimensional silk fibroin scaffolds incorporated with graphene for bone regeneration. Journal of Biomedical Materials Research - Part A, 2021, 109, 515-523.	4.0	19
46	Bilayer nicorandil-loaded small-diameter vascular grafts improve endothelial cell function via PI3K/AKT/eNOS pathway. Bio-Design and Manufacturing, 2021, 4, 72-86.	7.7	4
47	Idealized conductance: A new method to evaluate stiffness of trabecular bone. International Journal for Numerical Methods in Biomedical Engineering, 2021, 37, e3425.	2.1	4
48	Refreshable Braille Display System Based on Triboelectric Nanogenerator and Dielectric Elastomer. Advanced Functional Materials, 2021, 31, 2006612.	14.9	96
49	Nanopharmaceutical-based regenerative medicine: a promising therapeutic strategy for spinal cord injury. Journal of Materials Chemistry B, 2021, 9, 2367-2383.	5.8	7
50	Flow shear stress controls the initiation of neovascularization via heparan sulfate proteoglycans within a biomimetic microfluidic model. Lab on A Chip, 2021, 21, 421-434.	6.0	17
51	In vitro degradation, biocompatibility and antibacterial properties of pure zinc: assessing the potential of Zn as a guided bone regeneration membrane. Journal of Materials Chemistry B, 2021, 9, 5114-5127.	5.8	22
52	The cushioning function of woodpeckerâ€™s jaw apparatus during the pecking process. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 527-537.	1.6	6
53	Biological analysis of woodpeckerâ€™s brain after impact experiments. Science China Technological Sciences, 2021, 64, 1101-1106.	4.0	5
54	An Optical Method for Immediate Evaluation of Microfoam Stability in Foam Sclerotherapy. Skin Pharmacology and Physiology, 2021, 34, 128-134.	2.5	0

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55	A biomimetic hierarchical small intestinal submucosaâ€“chitosan sponge/chitosan hydrogel scaffold with a micro/nano structure for dural repair. Journal of Materials Chemistry B, 2021, 9, 7821-7834.	5.8	21
56	Molecular insights into MXene destructing the cell membrane as a â€œnano thermal bladeâ€• Physical Chemistry Chemical Physics, 2021, 23, 3341-3350.	2.8	21
57	Mechano-Sensing and shear stress-shielding by endothelial primary cilia: structure, composition, and function. Biocell, 2021, 45, 1187-1199.	0.7	3
58	An Index From Transcranial Doppler Signals for Evaluation of Stroke Rehabilitation Using External Counterpulsation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1487-1493.	4.9	2
59	Microfluidic chips for the endothelial biomechanics and mechanobiology of the vascular system. Biocell, 2021, 45, 797-811.	0.7	4
60	Effects of reverse deployment of cone-shaped vena cava filter on improvements in hemodynamic performance in vena cava. BioMedical Engineering OnLine, 2021, 20, 19.	2.7	1
61	Influence of renal artery stenosis morphology on hemodynamics. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 1294-1301.	1.6	4
62	Subjective assessment on visual fatigue versus stereoscopic disparities. Journal of the Society for Information Display, 2021, 29, 497-504.	2.1	8
63	Effect of different thermal stimuli on improving microcirculation in the contralateral foot. BioMedical Engineering OnLine, 2021, 20, 14.	2.7	5
64	Influence of Distal Re-entry Tears on False Lumen Thrombosis After Thoracic Endovascular Aortic Repair in Type B Aortic Dissection Patients: A Computational Fluid Dynamics Simulation. Cardiovascular Engineering and Technology, 2021, 12, 426-437.	1.6	7
65	Stimulation of vascular smooth muscle cell proliferation by stiff matrix via the IK_{Ca} channelâ€dependent Ca²⁺ signaling. Journal of Cellular Physiology, 2021, 236, 6897-6906.	4.1	5
66	Effect of the medial collateral ligament and the lateral ulnar collateral ligament injury on elbow stability: a finite element analysis. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 1517-1529.	1.6	2
67	Microcracks on the Rat Root Surface Induced by Orthodontic Force, Crack Extension Simulation, and Proteomics Study. Annals of Biomedical Engineering, 2021, 49, 2228-2242.	2.5	3
68	Low-Cost and Scalable Platform with Multiplexed Microwell Array Biochip for Rapid Diagnosis of COVID-19. Research, 2021, 2021, 2813643.	5.7	13
69	Biochemical and Morphological Abnormalities of Subchondral Bone and Their Association with Cartilage Degeneration in Spontaneous Osteoarthritis. Calcified Tissue International, 2021, 109, 179-189.	3.1	7
70	Electrical Stimulation Promotes Stem Cell Neural Differentiation in Tissue Engineering. Stem Cells International, 2021, 2021, 1-14.	2.5	40
71	Flow-mediated dilation analysis coupled with nitric oxide transport to enhance the assessment of endothelial function. Journal of Applied Physiology, 2021, 131, 1-14.	2.5	6
72	Finite element analysis of lumbar spine with different backpack positions in parachuting landing. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 1-8.	1.6	1

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73	Microfluidic Model to Mimic Initial Event of Neovascularization. Journal of Visualized Experiments, 2021, , .	0.3	1
74	Microstructural and mechanical evaluations of region segmentation methods in classifications of osteonecrosis. Journal of Biomechanics, 2021, 119, 110208.	2.1	1
75	Patientâ€Specific Organoid and Organâ€onâ€aâ€Chip: 3D Cellâ€Culture Meets 3D Printing and Numerical Simulation. Advanced Biology, 2021, 5, e2000024.	2.5	31
76	Studies on preparation and formation mechanism of poly(lactide-co-glycolide) microrods via one-step electrospray and an application for drug delivery system. European Polymer Journal, 2021, 148, 110372.	5.4	22
77	Gastrointestinal Microenvironment and the Gut-Lung Axis in the Immune Responses of Severe COVID-19. Frontiers in Molecular Biosciences, 2021, 8, 647508.	3.5	9
78	Cell membrane-biomimetic coating via click-mediated liposome fusion for mitigating the foreign-body reaction. Biomaterials, 2021, 271, 120768.	11.4	17
79	Dynamic real-time imaging of living cell traction force by piezo-phototronic light nano-antenna array. Science Advances, 2021, 7, .	10.3	65
80	Cyclic Strain and Electrical Co-stimulation Improve Neural Differentiation of Marrow-Derived Mesenchymal Stem Cells. Frontiers in Cell and Developmental Biology, 2021, 9, 624755.	3.7	10
81	Investigation of failure modes of explanted porcine valves in the mitral position. Journal of Thoracic Disease, 2021, 13, 2858-2866.	1.4	0
82	A personalized 3D-printed plate for tibiotalocalcaneal arthrodesis: Design, fabrication, biomechanical evaluation and postoperative assessment. Computers in Biology and Medicine, 2021, 133, 104368.	7.0	16
83	A Review: Optimization for Poly(glycerol sebacate) and Fabrication Techniques for Its Centered Scaffolds. Macromolecular Bioscience, 2021, 21, e2100022.	4.1	20
84	The characteristics of distal tears affect false lumen thrombosis rate after thoracic endovascular aortic repair for acute type B dissection. Interactive Cardiovascular and Thoracic Surgery, 2021, 33, 755-762.	1.1	0
85	Biomechanical design and analysis of auxetic pedicle screw to resist loosening. Computers in Biology and Medicine, 2021, 133, 104386.	7.0	23
86	Macrophage Polarization in Response to Biomaterials for Vascularization. Annals of Biomedical Engineering, 2021, 49, 1992-2005.	2.5	12
87	neoDL: a novel neoantigen intrinsic feature-based deep learning model identifies IDH wild-type glioblastomas with the longest survival. BMC Bioinformatics, 2021, 22, 382.	2.6	3
88	Hydrogel-based therapeutic angiogenesis: An alternative treatment strategy for critical limb ischemia. Biomaterials, 2021, 274, 120872.	11.4	20
89	Evaluation methods for mechanical biocompatibility of hernia repair meshes: respective characteristics, application scope and future perspectives. Journal of Materials Research and Technology, 2021, 13, 1826-1840.	5.8	6
90	Preparation of Magneticâ€“Luminescent Bifunctional Rapeseed Pod-Like Drug Delivery System for Sequential Release of Dual Drugs. Pharmaceutics, 2021, 13, 1116.	4.5	7

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91	Two-dimensional dynamic walking stability of elderly females with a history of falls. Medical and Biological Engineering and Computing, 2021, 59, 1575-1583.	2.8	2
92	A Bioresorbable Dynamic Pressure Sensor for Cardiovascular Postoperative Care. Advanced Materials, 2021, 33, e2102302.	21.0	85
93	A biomimetic triple-layered biocomposite with effective multifunction for dura repair. Acta Biomaterialia, 2021, 130, 248-267.	8.3	14
94	Stereotactic technology for 3D bioprinting: from the perspective of robot mechanism. Biofabrication, 2021, 13, 043001.	7.1	8
95	Biomechanical study on implantable and interventional medical devices. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 875-894.	3.4	19
96	Full-field strain mapping for characterization of structure-related variation in corneal biomechanical properties using digital image correlation (DIC) technology. Medicine in Novel Technology and Devices, 2021, 11, 100086.	1.6	1
97	A critical review on the biomechanical study of cervical interbody fusion cage. Medicine in Novel Technology and Devices, 2021, 11, 100070.	1.6	18
98	Soft substrate and decreased cytoskeleton contractility promote coupling and morphology maintenance of pluripotent stem cells. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 1520-1529.	3.4	1
99	Self-powered technology for next-generation biosensor. Science Bulletin, 2021, 66, 1709-1712.	9.0	32
100	The differences between surface degradation and bulk degradation of FEM on the prediction of the degradation time for poly (lactic-co-glycolic acid) stent. Computer Methods in Biomechanics and Biomedical Engineering, 2021, , 1-8.	1.6	1
101	Multiomics Analysis Reveals the Prognostic Non-tumor Cell Landscape in Glioblastoma Niches. Frontiers in Genetics, 2021, 12, 741325.	2.3	0
102	Comparative study on hemodynamic environments around patient-specific carotid atherosclerotic plaques with different symmetrical features. Medicine in Novel Technology and Devices, 2021, 11, 100079.	1.6	3
103	Surface modification of electrospun fibers with mechano-growth factor for mitigating the foreign-body reaction. Bioactive Materials, 2021, 6, 2983-2998.	15.6	27
104	Fluid-induced corrosion behavior of degradable zinc for stent application. Journal of Materials Science and Technology, 2021, 91, 134-147.	10.7	12
105	Three-dimensional magnetic fibrous scaffold with icariin expanded by supercritical CO2 for bone tissue engineering under static magnetic field. Composites Part B: Engineering, 2021, 226, 109304.	12.0	16
106	Design of Robot-Assisted Task Involving Visuomotor Conflict for Identification of Proprioceptive Acuity. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	4
107	Vascular transplantation with dual-biofunctional ePTFE vascular grafts in a porcine model. Journal of Materials Chemistry B, 2021, 9, 7409-7422.	5.8	6
108	Human locomotion-control brain networks detected with independent component analysis. Journal of Integrative Neuroscience, 2021, 20, 695.	1.7	1

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109	Triboelectric nanogenerator based on degradable materials. EcoMat, 2021, 3, e12072.	11.9	108
110	Direct mapping from diffuse reflectance to chromophore concentrations in multi-fx spatial frequency domain imaging (SFDI) with a deep residual network (DRN). Biomedical Optics Express, 2021, 12, 433.	2.9	18
111	Exploring the match between the degradation of the ECM-based composites and tissue remodeling in a full-thickness abdominal wall defect model. Biomaterials Science, 2021, 9, 7895-7910.	5.4	9
112	Detections of Steady-State Visual Evoked Potential and Simultaneous Jaw Clench Action from Identical Occipital Electrodes: A Hybrid Brain-Computer Interface Study. Journal of Medical and Biological Engineering, 2021, 41, 914-923.	1.8	0
113	Effect of Vibration on Alleviating Foot Pressure-Induced Ischemia under Occlusive Compression. Journal of Healthcare Engineering, 2021, 2021, 1-9.	1.9	0
114	A simple indentation technique for identifying localized liquefaction of the vitreous body. Journal of Biomechanics, 2021, 129, 110795.	2.1	1
115	Brainstem fMRI. Encyclopedia, 2021, 1, 4-11.	4.5	0
116	Multifunctional Switchable Nanocoated Membranes for Efficient Integrated Purification of Oil/Water Emulsions. ACS Applied Materials & Interfaces, 2021, 13, 54315-54323.	8.0	24
117	A rapid procedure for bacterial identification and antimicrobial susceptibility testing directly from positive blood cultures. Analyst, The, 2021, 147, 147-154.	3.5	5
118	Effect of Exercise Volume on Plantar Microcirculation and Tissue Hardness in People With Type 2 Diabetes. Frontiers in Bioengineering and Biotechnology, 2021, 9, 732628.	4.1	5
119	Delivery of Nitric Oxide in the Cardiovascular System: Implications for Clinical Diagnosis and Therapy. International Journal of Molecular Sciences, 2021, 22, 12166.	4.1	15
120	Effect of limb rotation on radiographic alignment measurement in mal-aligned knees. BioMedical Engineering OnLine, 2021, 20, 119.	2.7	3
121	Halftone spatial frequency domain imaging enables kilohertz high-speed label-free non-contact quantitative mapping of optical properties for strongly turbid media. Light: Science and Applications, 2021, 10, 245.	16.6	9
122	Blood flow patterns regulate PCSK9 secretion via MyD88-mediated pro-inflammatory cytokines. Cardiovascular Research, 2020, 116, 1721-1732.	3.8	42
123	A numerical method for guiding the design of surgical meshes with suitable mechanical properties for specific abdominal hernias. Computers in Biology and Medicine, 2020, 116, 103531.	7.0	9
124	Influence of multi-angle input of intraoperative fluoroscopic images on the spatial positioning accuracy of the C-arm calibration-based algorithm of a CAOS system. Medical and Biological Engineering and Computing, 2020, 58, 559-572.	2.8	3
125	Terminal Group Modification of Carbon Nanotubes Determines Covalently Bound Osteogenic Peptide Performance. ACS Biomaterials Science and Engineering, 2020, 6, 865-878.	5.2	15
126	A novel auxetic structure based bone screw design: Tensile mechanical characterization and pullout fixation strength evaluation. Materials and Design, 2020, 188, 108424.	7.0	54

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127	Biomimetic SIS-based biocomposites with improved biodegradability, antibacterial activity and angiogenesis for abdominal wall repair. Materials Science and Engineering C, 2020, 109, 110538.	7.3	30
128	Nestable arched triboelectric nanogenerator for large deflection biomechanical sensing and energy harvesting. Nano Energy, 2020, 69, 104417.	16.0	47
129	Polysaccharideâ€Peptide Cryogels for Multidrugâ€Resistantâ€Bacteria Infected Wound Healing and Hemostasis. Advanced Healthcare Materials, 2020, 9, e1901041.	7.6	69
130	Mechanical properties, degradation behaviors and biocompatibility of micro-alloyed Mg-Sr-RE alloys for stent applications. Materials Letters, 2020, 264, 127285.	2.6	17
131	Influence of Configuration on Stress Distribution of Pulmonary Monocusp Leaflet. Cardiovascular Engineering and Technology, 2020, 11, 134-140.	1.6	0
132	Reversible Conversion between Schottky and Ohmic Contacts for Highly Sensitive, Multifunctional Biosensors. Advanced Functional Materials, 2020, 30, 1907999.	14.9	61
133	Applications of decellularized materials in tissue engineering: advantages, drawbacks and current improvements, and future perspectives. Journal of Materials Chemistry B, 2020, 8, 10023-10049.	5.8	63
134	Spatiotemporal transfer of nitric oxide in patient-specific atherosclerotic carotid artery bifurcations with MRI and computational fluid dynamics modeling. Computers in Biology and Medicine, 2020, 125, 104015.	7.0	7
135	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
136	Electrochemically Enabled Embedded Three-Dimensional Printing of Freestanding Gallium Wire-like Structures. ACS Applied Materials & Interfaces, 2020, 12, 53966-53972.	8.0	30
137	Applications of materials for dural reconstruction in pre-clinical and clinical studies: Advantages and drawbacks, efficacy, and selections. Materials Science and Engineering C, 2020, 117, 111326.	7.3	22
138	Gender differences of morphological and hemodynamic characteristics of abdominal aortic aneurysm. Biology of Sex Differences, 2020, 11, 41.	4.1	5
139	Rapid Detection of mecA and femA Genes by Loop-Mediated Isothermal Amplification in a Microfluidic System for Discrimination of Different Staphylococcal Species and Prediction of Methicillin Resistance. Frontiers in Microbiology, 2020, 11, 1487.	3.5	15
140	Deep learning in digital pathology image analysis: a survey. Frontiers of Medicine, 2020, 14, 470-487.	3.4	77
141	Root surface microcracks induced by orthodontic force as a potential primary indicator of root resorption. Journal of Biomechanics, 2020, 110, 109938.	2.1	4
142	Biological and Physical Properties of a Modification Silicone Liner. IOP Conference Series: Materials Science and Engineering, 2020, 774, 012110.	0.6	2
143	Functional MRI Reveals Locomotion-Control Neural Circuits in Human Brainstem. Brain Sciences, 2020, 10, 757.	2.3	6
144	Brainstem Encephalitis Caused by Listeria monocytogenes. Pathogens, 2020, 9, 715.	2.8	15

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145	A micropore array-based solid lift-off method for highly efficient and controllable cell alignment and spreading. Microsystems and Nanoengineering, 2020, 6, 86.	7.0	9
146	Changes in the Kinematic and Kinetic Characteristics of Lunge Footwork during the Fatiguing Process. Applied Sciences (Switzerland), 2020, 10, 8703.	2.5	4
147	The Effect of TiAl6V4 Particles on Tissue in Rats. Journal of Physics: Conference Series, 2020, 1637, 012104.	0.4	0
148	The role of hemoglobin in nitric oxide transport in vascular system. Medicine in Novel Technology and Devices, 2020, 5, 100034.	1.6	11
149	Double coating of graphene oxideâ€“polypyrrole on silk fibroin scaffolds for neural tissue engineering. Journal of Bioactive and Compatible Polymers, 2020, 35, 216-227.	2.1	11
150	Endothelial Progenitor Cellâ€Derived Extracellular Vesicles: A Novel Candidate for Regenerative Medicine and Disease Treatment. Advanced Healthcare Materials, 2020, 9, e2000255.	7.6	33
151	InÂVivo Disintegration and Bioresorption of a Nacre-Inspired Graphene-Silk Film Caused by the Foreign-Body Reaction. IScience, 2020, 23, 101155.	4.1	8
152	Triboelectric-polarization-enhanced high sensitive ZnO UV sensor. Nano Today, 2020, 33, 100873.	11.9	33
153	A flexible self-arched biosensor based on combination of piezoelectric and triboelectric effects. Applied Materials Today, 2020, 20, 100699.	4.3	45
154	Emerging Implantable Energy Harvesters and Self-Powered Implantable Medical Electronics. ACS Nano, 2020, 14, 6436-6448.	14.6	223
155	The effects of silk layer-by-layer surface modification on the mechanical and structural retention of extracellular matrix scaffolds. Biomaterials Science, 2020, 8, 4026-4038.	5.4	19
156	A moisturizing chitosan-silk fibroin dressing with silver nanoparticles-adsorbed exosomes for repairing infected wounds. Journal of Materials Chemistry B, 2020, 8, 7197-7212.	5.8	58
157	NLRP3 inflammasome via IL-1Î² regulates PCSK9 secretion. Theranostics, 2020, 10, 7100-7110.	10.0	51
158	Human Motion Driven Self-Powered Photodynamic System for Long-Term Autonomous Cancer Therapy. ACS Nano, 2020, 14, 8074-8083.	14.6	77
159	Magnetic nanoparticles applied in targeted therapy and magnetic resonance imaging: crucial preparation parameters, indispensable pre-treatments, updated research advancements and future perspectives. Journal of Materials Chemistry B, 2020, 8, 5973-5991.	5.8	26
160	A wearable noncontact freeâ€rotating hybrid nanogenerator for selfâ€powered electronics. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 1191-1200.	17.3	71
161	In vitro and in vivo degradation behavior of Mgâ€“2Srâ€“Ca and Mgâ€“2Srâ€“Zn alloys. Bioactive Materials, 2020, 5, 275-285.	15.6	58
162	A resazurin-based, nondestructive assay for monitoring cell proliferation during a scaffold-based 3D culture process. International Journal of Energy Production and Management, 2020, 7, 271-281.	3.7	21

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163	Emerging technologies for the prevention and management of diabetic foot ulcers. Journal of Tissue Viability, 2020, 29, 61-68.	2.0	36
164	Biomechanical influence of anchorages on orthodontic space closing mechanics by sliding method. Medical and Biological Engineering and Computing, 2020, 58, 1091-1097.	2.8	7
165	Effect of strain on degradation behaviors of WE43, Fe and Zn wires. Acta Biomaterialia, 2020, 113, 627-645.	8.3	52
166	Biomechanical effects of over lordotic curvature after spinal fusion on adjacent intervertebral discs under continuous compressive load. Clinical Biomechanics, 2020, 73, 149-156.	1.2	6
167	A 25-year bibliometric study of implantable energy harvesters and self-powered implantable medical electronics researches. Materials Today Energy, 2020, 16, 100386.	4.7	58
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