

# Feng Xu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

257  
papers

10,156  
citations

57  
h-index

91  
g-index

272  
ext. papers

12,530  
ext. citations

8.4  
avg, IF

6.65  
L-index

#	Paper	IF	Citations
257	Comparison of paper-based nucleic acid extraction materials for point-of-care testing applications.. <i>Cellulose</i> , <b>2022</b> , 29, 1-17	5.5	0
256	Graphene-enabled wearable sensors for healthcare monitoring. <i>Biosensors and Bioelectronics</i> , <b>2022</b> , 197, 113777	11.8	14
255	Key considerations on the development of biodegradable biomaterials for clinical translation of medical devices: With cartilage repair products as an example. <i>Bioactive Materials</i> , <b>2022</b> , 9, 332-342	16.7	5
254	Flexible Miniaturized Sensor Technologies for Long-Term Physiological Monitoring. <i>Npj Flexible Electronics</i> , <b>2022</b> , 6,	10.7	2
253	Materials with Tunable Optical Properties for Wearable Epidermal Sensing in Health Monitoring.. <i>Advanced Materials</i> , <b>2022</b> , e2109055	24	12
252	Ultrasensitive multiplexed detection of small molecules and enzymes using stimuli-responsive nucleic acids. <i>Chemical Engineering Journal</i> , <b>2022</b> , 440, 135797	14.7	0
251	Graphene foam/hydrogel scaffolds for regeneration of peripheral nerve using ADSCs in a diabetic mouse model. <i>Nano Research</i> , <b>2022</b> , 15, 3434-3445	10	1
250	Targeting the Tumor Biophysical Microenvironment to Reduce Resistance to Immunotherapy.. <i>Advanced Drug Delivery Reviews</i> , <b>2022</b> , 114319	18.5	1
249	A Portable Digital Loop-Mediated Isothermal Amplification Platform Based on Microgel Array and Hand-Held Reader. <i>ACS Sensors</i> , <b>2021</b> , 6, 3564-3574	9.2	7
248	Mechanics-driven nuclear localization of YAP can be reversed by N-cadherin ligation in mesenchymal stem cells. <i>Nature Communications</i> , <b>2021</b> , 12, 6229	17.4	4
247	A Colorimetric Dermal Tattoo Biosensor Fabricated by Microneedle Patch for Multiplexed Detection of Health-Related Biomarkers. <i>Advanced Science</i> , <b>2021</b> , 8, e2103030	13.6	16
246	Viscoelastic Cell Microenvironment: Hydrogel-Based Strategy for Recapitulating Dynamic ECM Mechanics. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2100848	15.6	21
245	ARL4C might serve as a prognostic factor and a novel therapeutic target for gastric cancer: bioinformatics analyses and biological experiments. <i>Journal of Cellular and Molecular Medicine</i> , <b>2021</b> , 25, 4014-4027	5.6	2
244	Janus Vitrification of Droplet via Cold Leidenfrost Phenomenon. <i>Small</i> , <b>2021</b> , 17, e2007325	11	3
243	Janus Particles: Janus Vitrification of Droplet via Cold Leidenfrost Phenomenon ( <i>Small</i> 17/2021). <i>Small</i> , <b>2021</b> , 17, 2170075	11	
242	Quantifying and Adjusting Plasmon-Driven Nano-Localized Temperature Field around Gold Nanorods for Nucleic Acids Amplification.. <i>Small Methods</i> , <b>2021</b> , 5, e2001254	12.8	7
241	Investigating the Effect of Substrate Stiffness on the Redox State of Cardiac Fibroblasts Using Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 5797-5804	7.8	2

240	Anisotropic conductive reduced graphene oxide/silk matrices promote post-infarction myocardial function by restoring electrical integrity. <i>Acta Biomaterialia</i> , <b>2021</b> , 139, 190-190	10.8	11
239	Compact empty substrate integrated waveguide with high performance and its application in microwave. <i>IET Microwaves, Antennas and Propagation</i> , <b>2021</b> , 15, 1432-1440	1.6	3
238	Matrix stiffness changes affect astrocyte phenotype in an in vitro injury model. <i>NPG Asia Materials</i> , <b>2021</b> , 13,	10.3	7
237	Nuclear deformation in mechanotransduction: A new role for heterogeneity. <i>Biophysical Journal</i> , <b>2021</b> , 120, 1301-1303	2.9	0
236	Fully integrated microfluidic devices for qualitative, quantitative and digital nucleic acids testing at point of care. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 177, 112952	11.8	36
235	Mathematical modelling of thermocapillary patterning in thin liquid film: an equilibrium study. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 919,	3.7	1
234	Environmentally Compatible Wearable Electronics Based on Ionically Conductive Organohydrogels for Health Monitoring with Thermal Compatibility, Anti-Dehydration, and Underwater Adhesion. <i>Small</i> , <b>2021</b> , 17, e2101151	11	24
233	Taqman-MGB nanoPCR for Highly Specific Detection of Single-Base Mutations. <i>International Journal of Nanomedicine</i> , <b>2021</b> , 16, 3695-3705	7.3	2
232	Anomalous Loss of Stiffness with Increasing Reinforcement in a Photo-Activated Nanocomposite. <i>Macromolecular Rapid Communications</i> , <b>2021</b> , 42, e2100147	4.8	
231	A 3D, Magnetically Actuated, Aligned Collagen Fiber Hydrogel Platform Recapitulates Physical Microenvironment of Myoblasts for Enhancing Myogenesis.. <i>Small Methods</i> , <b>2021</b> , 5, e2100276	12.8	5
230	Chemically Triggered Hydrogel Transformations through Covalent Adaptable Networks and Applications in Cell Culture.. <i>ACS Macro Letters</i> , <b>2021</b> , 10, 901-906	6.6	1
229	Wearable Electronics: Environmentally Compatible Wearable Electronics Based on Ionically Conductive Organohydrogels for Health Monitoring with Thermal Compatibility, Anti-Dehydration, and Underwater Adhesion (Small 24/2021). <i>Small</i> , <b>2021</b> , 17, 2170122	11	
228	Cancer Physical Hallmarks as New Targets for Improved Immunotherapy. <i>Trends in Cell Biology</i> , <b>2021</b> , 31, 520-524	18.3	7
227	Polymeric Nitric Oxide Delivery Nanoplatfoms for Treating Cancer, Cardiovascular Diseases, and Infection. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2001550	10.1	18
226	Tailoring patchy nanoparticle design to modulate serum albumin adsorption and membrane interaction. <i>Soft Matter</i> , <b>2021</b> , 17, 2071-2080	3.6	0
225	Retinal image measurements and their association with chronic kidney disease in Chinese patients with type 2 diabetes: the NCD study. <i>Acta Diabetologica</i> , <b>2021</b> , 58, 363-370	3.9	4
224	A fast and ultrasensitive ELISA based on rolling circle amplification. <i>Analyst, The</i> , <b>2021</b> , 146, 2871-2877	5	5
223	Effect of gene mutation of plants on their mechano-sensibility: the mutant of EXO70H4 influences the buckling of Arabidopsis trichomes. <i>Analyst, The</i> , <b>2021</b> , 146, 5169-5176	5	

222	Aligned Graphene Mesh-Supported Double Network Natural Hydrogel Conduit Loaded with Netrin-1 for Peripheral Nerve Regeneration. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 112-122	9.5	18
221	Bioinspired Microstructure Platform for Modular Cell-Laden Microgel Fabrication. <i>Macromolecular Bioscience</i> , <b>2021</b> , 21, e2100110	5.5	
220	Construction of cancer-on-a-chip for drug screening. <i>Drug Discovery Today</i> , <b>2021</b> , 26, 1875-1890	8.8	4
219	Evaporation-Induced Diffusion Acceleration in Liquid-Filled Porous Materials. <i>ACS Omega</i> , <b>2021</b> , 6, 21646-21654	5.3	16
218	Harnessing the Wide-range Strain Sensitivity of Bilayered PEDOT:PSS Films for Wearable Health Monitoring. <i>Matter</i> , <b>2021</b> , 4, 2886-2901	12.7	13
217	A new model of myofibroblast-cardiomyocyte interactions and their differences across species. <i>Biophysical Journal</i> , <b>2021</b> , 120, 3764-3775	2.9	1
216	A digitalized isothermal nucleic acid testing platform based on a pump-free open droplet array microfluidic chip. <i>Analyst, The</i> , <b>2021</b> , 146, 6960-6969	5	3
215	The Plasticity of Nanofibrous Matrix Regulates Fibroblast Activation in Fibrosis. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2001856	10.1	6
214	Recent innovations in cost-effective polymer and paper hybrid microfluidic devices. <i>Lab on A Chip</i> , <b>2021</b> , 21, 2658-2683	7.2	15
213	Smart Glove Integrated with Tunable MWNTs/PDMS Fibers Made of a One-Step Extrusion Method for Finger Dexterity, Gesture, and Temperature Recognition. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 23764-23773	9.5	32
212	Liquid Plasticine Integrated with Isoelectric Focusing for Miniaturized Protein Analysis. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 9048-9056	7.8	9
211	Remodeling of aligned fibrous extracellular matrix by encapsulated cells under mechanical stretching. <i>Acta Biomaterialia</i> , <b>2020</b> , 112, 202-212	10.8	4
210	Effect of three-dimensional ECM stiffness on cancer cell migration through regulating cell volume homeostasis. <i>Biochemical and Biophysical Research Communications</i> , <b>2020</b> , 528, 459-465	3.4	8
209	A new method to amplify colorimetric signals of paper-based nanobiosensors for simple and sensitive pancreatic cancer biomarker detection. <i>Analyst, The</i> , <b>2020</b> , 145, 5113-5117	5	14
208	Spatiotemporally Controlled Photoresponsive Hydrogels: Design and Predictive Modeling from Processing through Application. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000639	15.6	21
207	Effect of Substrate Stiffness on Redox State of Single Cardiomyocyte: A Scanning Electrochemical Microscopy Study. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 4771-4779	7.8	9
206	Nanoscale integrin cluster dynamics controls cellular mechanosensing via FAKY397 phosphorylation. <i>Science Advances</i> , <b>2020</b> , 6, eaax1909	14.3	28
205	Characterizing poroelasticity of biological tissues by spherical indentation: an improved theory for large relaxation. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2020</b> , 138, 103920-103920	5	7

204	A programmable polymer library that enables the construction of stimuli-responsive nanocarriers containing logic gates. <i>Nature Chemistry</i> , <b>2020</b> , 12, 381-390	17.6	62
203	Control of fibroblast shape in sequentially formed 3D hybrid hydrogels regulates cellular responses to microenvironmental cues. <i>NPG Asia Materials</i> , <b>2020</b> , 12,	10.3	11
202	Correction of bias in the estimation of cell volume fraction from histology sections. <i>Journal of Biomechanics</i> , <b>2020</b> , 104, 109705	2.9	1
201	Engineering extracellular matrix to improve drug delivery for cancer therapy. <i>Drug Discovery Today</i> , <b>2020</b> , 25, 1727-1734	8.8	13
200	A Hydrogel Microneedle Patch for Point-of-Care Testing Based on Skin Interstitial Fluid. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e1901201	10.1	57
199	miRNA-mediated macrophage behaviors responding to matrix stiffness and ox-LDL. <i>Journal of Cellular Physiology</i> , <b>2020</b> , 235, 6139-6153	7	9
198	Matrix stiffness controls cardiac fibroblast activation through regulating YAP via AT R. <i>Journal of Cellular Physiology</i> , <b>2020</b> , 235, 8345-8357	7	10
197	Fluorescent conjugated polymer nanovector for in vivo tracking and regulating the fate of stem cells for restoring infarcted myocardium. <i>Acta Biomaterialia</i> , <b>2020</b> , 109, 195-207	10.8	3
196	Diagnosis and prognosis for exercise-induced muscle injuries: from conventional imaging to emerging point-of-care testing.. <i>RSC Advances</i> , <b>2020</b> , 10, 38847-38860	3.7	
195	Solvent-Free Fabrication of Carbon Nanotube/Silk Fibroin Electrospun Matrices for Enhancing Cardiomyocyte Functionalities. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 1630-1640	5.5	30
194	Recent Advances in 4D Bioprinting. <i>Biotechnology Journal</i> , <b>2020</b> , 15, e1900086	5.6	54
193	Cell mechanical microenvironment for cell volume regulation. <i>Journal of Cellular Physiology</i> , <b>2020</b> , 235, 4070-4081	7	13
192	Plasmon-Driven Ultrafast Photonic PCR. <i>Trends in Biochemical Sciences</i> , <b>2020</b> , 45, 174-175	10.3	13
191	Ultrafast Photonic PCR Based on Photothermal Nanomaterials. <i>Trends in Biotechnology</i> , <b>2020</b> , 38, 637-649	15.1	53
190	Microfluidic Printing of Three-Dimensional Graphene Electroactive Microfibrous Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 2049-2058	9.5	23
189	Engineering Biomaterials and Approaches for Mechanical Stretching of Cells in Three Dimensions. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 589590	5.8	2
188	Liquid Bandage Harvests Robust Adhesive, Hemostatic, and Antibacterial Performances as a First-Aid Tissue Adhesive. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001820	15.6	51
187	Biomechanics in plant resistance to drought. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2020</b> , 36, 1142-1157	2	1

186	Microstructural effects on permeability of Nitrocellulose membranes for biomedical applications. <i>Journal of Membrane Science</i> , <b>2020</b> , 595, 117502	9.6	14
185	Equipment-Free Quantitative Readout in Paper-Based Point-of-Care Testing. <i>Small Methods</i> , <b>2020</b> , 4, 1900459	12.8	28
184	Spatially modulated stiffness on hydrogels for soft and stretchable integrated electronics. <i>Materials Horizons</i> , <b>2020</b> , 7, 203-213	14.4	39
183	Paper-based point-of-care immunoassays: Recent advances and emerging trends. <i>Biotechnology Advances</i> , <b>2020</b> , 39, 107442	17.8	80
182	Vibration of a liquid-filled capillary tube. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 106, 103745	4.1	
181	Super-resolution imaging reveals changes in Escherichia coli SSB localization in response to DNA damage. <i>Genes To Cells</i> , <b>2019</b> , 24, 814-826	2.3	15
180	Electrostatic switching of nuclear basket conformations provides a potential mechanism for nuclear mechanotransduction. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2019</b> , 133, 103705	5	1
179	Analysis of Leukocyte Behaviors on Microfluidic Chips. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1801406	10.1	8
178	Soft Fibrous Structures in Nature as Liquid Catcher. <i>Acta Mechanica Solida Sinica</i> , <b>2019</b> , 32, 580-590	2	2
177	Synergistic Effect of Matrix Stiffness and Inflammatory Factors on Osteogenic Differentiation of MSC. <i>Biophysical Journal</i> , <b>2019</b> , 117, 129-142	2.9	19
176	Recent advances in microfluidic platforms for single-cell analysis in cancer biology, diagnosis and therapy. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2019</b> , 117, 13-26	14.6	68
175	Volumetric response of an ellipsoidal liquid inclusion: implications for cell mechanobiology. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2019</b> , 35, 338-342	2	7
174	Sensitivity Enhancement of Nucleic Acid Lateral Flow Assays through a Physical-Chemical Coupling Method: Dissoluble Saline Barriers. <i>ACS Sensors</i> , <b>2019</b> , 4, 1691-1700	9.2	18
173	Mechanical microenvironments of living cells: a critical frontier in mechanobiology. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2019</b> , 35, 265-269	2	12
172	Electrospin-Coating of Paper: A Natural Extracellular Matrix Inspired Design of Scaffold. <i>Polymers</i> , <b>2019</b> , 11,	4.5	4
171	Role of Jakob number in Leidenfrost phenomena unveiled by theoretical modeling. <i>Physics of Fluids</i> , <b>2019</b> , 31, 042109	4.4	3
170	Methacrylated gelatin-embedded fabrication of 3D graphene-supported CoO nanoparticles for water splitting. <i>Nanoscale</i> , <b>2019</b> , 11, 6866-6875	7.7	11
169	A portable and universal upconversion nanoparticle-based lateral flow assay platform for point-of-care testing. <i>Talanta</i> , <b>2019</b> , 201, 126-133	6.2	63

168	A mechano-electrical coupling model of neurons under stretching. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2019</b> , 93, 213-221	4.1	5
167	Translation of a Coated Rigid Spherical Inclusion in an Elastic Matrix: Exact Solution, and Implications for Mechanobiology. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2019</b> , 86, 0510021-51002104	2.7	104
166	Microchannel Stiffness and Confinement Jointly Induce the Mesenchymal-Amoeboid Transition of Cancer Cell Migration. <i>Nano Letters</i> , <b>2019</b> , 19, 5949-5958	11.5	38
165	Regulation of Cell Behavior by Hydrostatic Pressure. <i>Applied Mechanics Reviews</i> , <b>2019</b> , 71, 0408031-4080313	3.6	10
164	A two-dimensional mathematical model for analyzing the effects of capture probe properties on the performance of lateral flow assays. <i>Analyst, The</i> , <b>2019</b> , 144, 5394-5403	5	3
163	Automated quantification of superficial retinal capillaries and large vessels for diabetic retinopathy on optical coherence tomographic angiography. <i>Journal of Biophotonics</i> , <b>2019</b> , 12, e201900103	3.1	7
162	A review on advances in methods for modification of paper supports for use in point-of-care testing. <i>Mikrochimica Acta</i> , <b>2019</b> , 186, 521	5.8	40
161	Differential Effects of Directional Cyclic Stretching on the Functionalities of Engineered Cardiac Tissues.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 3508-3519	4.1	14
160	Improved Resolution and Fidelity of Droplet-Based Bioprinting by Upward Ejection. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 4112-4121	5.5	14
159	Bioactuators based on stimulus-responsive hydrogels and their emerging biomedical applications. <i>NPG Asia Materials</i> , <b>2019</b> , 11,	10.3	100
158	A stretchable, conformable, and biocompatible graphene strain sensor based on a structured hydrogel for clinical application. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 27099-27109	13	32
157	Near-infrared light-regulated cancer theranostic nanoplatfrom based on aggregation-induced emission luminogen encapsulated upconversion nanoparticles. <i>Theranostics</i> , <b>2019</b> , 9, 246-264	12.1	68
156	Eriodictyol inhibits high glucose-induced oxidative stress and inflammation in retinal ganglial cells. <i>Journal of Cellular Biochemistry</i> , <b>2019</b> , 120, 5644-5651	4.7	34
155	A smartphone-based on-site nucleic acid testing platform at point-of-care settings. <i>Electrophoresis</i> , <b>2019</b> , 40, 914-921	3.6	14
154	Magnetic steering of liquid metal mobiles. <i>Soft Matter</i> , <b>2018</b> , 14, 3236-3245	3.6	25
153	Engineering ellipsoidal cap-like hydrogel particles as building blocks or sacrificial templates for three-dimensional cell culture. <i>Biomaterials Science</i> , <b>2018</b> , 6, 885-892	7.4	7
152	In vitro diagnosis of DNA methylation biomarkers with digital PCR in breast tumors. <i>Analyst, The</i> , <b>2018</b> , 143, 3011-3020	5	13
151	Non-contact tensile viscoelastic characterization of microscale biological materials. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2018</b> , 34, 589-599	2	11

150	Recent advances in siRNA delivery for cancer therapy using smart nanocarriers. <i>Drug Discovery Today</i> , <b>2018</b> , 23, 900-911	8.8	70
149	Engineering mechanical microenvironment of macrophage and its biomedical applications. <i>Nanomedicine</i> , <b>2018</b> , 13, 555-576	5.6	12
148	Theranostics of Triple-Negative Breast Cancer Based on Conjugated Polymer Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 10634-10646	9.5	48
147	Renewable epoxidized cardanol-based acrylate as a reactive diluent for UV-curable resins. <i>Polymers for Advanced Technologies</i> , <b>2018</b> , 29, 1852-1860	3.2	17
146	An improved detection limit and working range of lateral flow assays based on a mathematical model. <i>Analyst, The</i> , <b>2018</b> , 143, 2775-2783	5	10
145	Engineering the Cell Microenvironment Using Novel Photoresponsive Hydrogels. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 12374-12389	9.5	31
144	Droplet based vitrification for cell aggregates: Numerical analysis. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2018</b> , 82, 383-393	4.1	5
143	The effect of substrate stiffness on cancer cell volume homeostasis. <i>Journal of Cellular Physiology</i> , <b>2018</b> , 233, 1414-1423	7	16
142	Recent advances of controlled drug delivery using microfluidic platforms. <i>Advanced Drug Delivery Reviews</i> , <b>2018</b> , 128, 3-28	18.5	142
141	Ultrarapid Inductive Rewarming of Vitrified Biomaterials with Thin Metal Forms. <i>Annals of Biomedical Engineering</i> , <b>2018</b> , 46, 1857-1869	4.7	14
140	Biofriendly, Stretchable, and Reusable Hydrogel Electronics as Wearable Force Sensors. <i>Small</i> , <b>2018</b> , 14, e1801711	11	101
139	3D Spatiotemporal Mechanical Microenvironment: A Hydrogel-Based Platform for Guiding Stem Cell Fate. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705911	24	108
138	Simultaneous arteriole and venule segmentation with domain-specific loss function on a new public database. <i>Biomedical Optics Express</i> , <b>2018</b> , 9, 3153-3166	3.5	23
137	Tough Magnetic Chitosan Hydrogel Nanocomposites for Remotely Stimulated Drug Release. <i>Biomacromolecules</i> , <b>2018</b> , 19, 3351-3360	6.9	52
136	Multiplexed Instrument-Free Bar-Chart SpinChip Integrated with Nanoparticle-Mediated Magnetic Aptasensors for Visual Quantitative Detection of Multiple Pathogens. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 9888-9896	7.8	70
135	Lateral flow aptamer assay integrated smartphone-based portable device for simultaneous detection of multiple targets using upconversion nanoparticles. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 276, 48-56	8.5	72
134	The elastic fields of a compressible liquid inclusion. <i>Extreme Mechanics Letters</i> , <b>2018</b> , 22, 122-130	3.9	16
133	Hydrogel Electronics: Biofriendly, Stretchable, and Reusable Hydrogel Electronics as Wearable Force Sensors (Small 36/2018). <i>Small</i> , <b>2018</b> , 14, 1870166	11	7



132	Liquid wicking behavior in paper-like materials: mathematical models and their emerging biomedical applications. <i>Microfluidics and Nanofluidics</i> , <b>2018</b> , 22, 1	2.8	20
131	Reduced graphene oxide functionalized nanofibrous silk fibroin matrices for engineering excitable tissues. <i>NPG Asia Materials</i> , <b>2018</b> , 10, 982-994	10.3	69
130	Heterostructured Silk-Nanofiber-Reduced Graphene Oxide Composite Scaffold for SH-SY5Y Cell Alignment and Differentiation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 39228-39237	9.5	46
129	The protective effects of acupoint gel embedding on rats with myocardial ischemia-reperfusion injury. <i>Life Sciences</i> , <b>2018</b> , 211, 51-62	6.8	11
128	The relationship between thiol-acrylate photopolymerization kinetics and hydrogel mechanics: An improved model incorporating photobleaching and thiol-Michael addition. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2018</b> , 88, 160-169	4.1	12
127	Pen-on-paper strategies for point-of-care testing of human health. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2018</b> , 108, 50-64	14.6	36
126	Electrospun three-dimensional aligned nanofibrous scaffolds for tissue engineering. <i>Materials Science and Engineering C</i> , <b>2018</b> , 92, 995-1005	8.3	63
125	Point-of-Care Periodontitis Testing: Biomarkers, Current Technologies, and Perspectives. <i>Trends in Biotechnology</i> , <b>2018</b> , 36, 1127-1144	15.1	35
124	Paper-based point-of-care testing for diagnosis of dengue infections. <i>Critical Reviews in Biotechnology</i> , <b>2017</b> , 37, 100-111	9.4	21
123	Advances in paper-based sample pretreatment for point-of-care testing. <i>Critical Reviews in Biotechnology</i> , <b>2017</b> , 37, 411-428	9.4	58
122	Assessment of tumourigenic potential in long-term cryopreserved human adipose-derived stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 2217-2226	4.4	16
121	The Arabidopsis trichome is an active mechanosensory switch. <i>Plant, Cell and Environment</i> , <b>2017</b> , 40, 611-621	8.4	33
120	Viral Detection: Lateral Flow Assay Based on PaperHydrogel Hybrid Material for Sensitive Point-of-Care Detection of Dengue Virus (Adv. Healthcare Mater. 1/2017). <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6,	10.1	2
119	A modified energy transfer model for determination of upconversion emission of $\text{ErNaYF}_4:\text{Yb,Er}$ : Role of self-quenching effect. <i>Journal of Luminescence</i> , <b>2017</b> , 185, 292-297	3.8	10
118	Paper: A promising material for human-friendly functional wearable electronics. <i>Materials Science and Engineering Reports</i> , <b>2017</b> , 112, 1-22	30.9	100
117	Melting Away Pain: Decay of Thermal Nociceptor Transduction during Heat-Induced Irreversible Desensitization of Ion Channels. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 3029-3035	5.5	4
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