Lizhi Xu

List of Publications by Year in Descending Order

22 papers	5,652 citations	14 h-index	22 g-index
22 ext. papers	6,401 ext. citations	16.4 avg, IF	4.99 L-index

#	Paper	IF	Citations
22	3D Interfacing between Soft Electronic Tools and Complex Biological Tissues. *Advanced Materials*, **2021**, 33, e2004425	24	25
21	Elastic, Conductive, and Mechanically Strong Hydrogels from Dual-Cross-Linked Aramid Nanofiber Composites. *ACS Applied Materials & Interfaces*, **2021**, 13, 7539-7545	9.5	14
20	Biomimetic Nanocomposites: Water-Rich Biomimetic Composites with Abiotic Self-Organizing Nanofiber Network (Adv. Mater. 1/2018). *Advanced Materials*, **2018**, 30, 1870007	24	10
19	Water-Rich Biomimetic Composites with Abiotic Self-Organizing Nanofiber Network. *Advanced Materials*, **2018**, 30, 1703343	24	94
18	Stretchable conductors by kirigami patterning of aramid-silver nanocomposites with zero conductance gradient. *Applied Physics Letters*, **2017**, 111, 161901	3.4	32
17	Branched Aramid Nanofibers. *Angewandte Chemie - International Edition*, **2017**, 56, 11744-11748	16.4	90
16	Branched Aramid Nanofibers. *Angewandte Chemie*, **2017**, 129, 11906-11910	3.6	13
15	Origami and Kirigami Nanocomposites. *ACS Nano*, **2017**, 11, 7587-7599	16.7	139
14	High Strength Conductive Composites with Plasmonic Nanoparticles Aligned on Aramid Nanofibers. *Advanced Functional Materials*, **2016**, 26, 8435-8445	15.6	89
13	An Universal and Easy-to-Use Model for the Pressure of Arbitrary-Shape 3D Multifunctional Integumentary Cardiac Membranes. *Advanced Healthcare Materials*, **2016**, 5, 889-92	10.1	8
12	Kirigami Nanocomposites as Wide-Angle Diffraction Gratings. *ACS Nano*, **2016**, 10, 6156-62	16.7	57
11	Organ-Mounted Electronics: An Universal and Easy-to-Use Model for the Pressure of Arbitrary-Shape 3D Multifunctional Integumentary Cardiac Membranes (Adv. Healthcare Mater. 8/2016). *Advanced Healthcare Materials*, **2016**, 5, 866-866	10.1	
10	Materials and fractal designs for 3D multifunctional integumentary membranes with capabilities in cardiac electrotherapy. *Advanced Materials*, **2015**, 27, 1731-7	24	117
9	A kirigami approach to engineering elasticity in nanocomposites through patterned defects. *Nature Materials*, **2015**, 14, 785-9	27	389
8	Soft materials in neuroengineering for hard problems in neuroscience. *Neuron*, **2015**, 86, 175-86	13.9	195
7	Membranes: Materials and Fractal Designs for 3D Multifunctional Integumentary Membranes with Capabilities in Cardiac Electrotherapy (Adv. Mater. 10/2015). *Advanced Materials*, **2015**, 27, 1730-1730	24	2
6	3D multifunctional integumentary membranes for spatiotemporal cardiac measurements and stimulation across the entire epicardium. *Nature Communications*, **2014**, 5, 3329	17.4	384

5	Electronic sensor and actuator webs for large-area complex geometry cardiac mapping and therapy. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 19910-5	11.5	190
4	Epidermal electronics. *Science*, **2011**, 333, 838-43	33.3	3216
3	Materials for multifunctional balloon catheters with capabilities in cardiac electrophysiological mapping and ablation therapy. *Nature Materials*, **2011**, 10, 316-23	27	580
2	Ideal strengths, structure transitions, and bonding properties of a ZnO single crystal under tension. *Journal of Physics Condensed Matter*, **2009**, 21, 495402	1.8	5
1	Breathable and Skin-Conformal Electronics with Hybrid Integration of Microfabricated Multifunctional Sensors and Kirigami-Structured Nanofibrous Substrates. *Advanced Functional Materials*,2202792	15.6	3