Honglie Song

List of Publications by Year in Descending Order

31 papers	760 citations	15 h-index	27 g-index
32 ext. papers	1,058 ext. citations	11.7 avg, IF	4.5 L-index

#	Paper	IF	Citations
31	Highly-integrated, miniaturized, stretchable electronic systems based on stacked multilayer network materials.. *Science Advances*, **2022**, 8, eabm3785	14.3	15
30	A soft gripper with contamination resistance and large friction coefficient. *Applied Physics A: Materials Science and Processing*, **2022**, 128, 1	2.6	
29	Rapidly deployable and morphable 3D mesostructures with applications in multimodal biomedical devices. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	10
28	Passive Particle Jamming Variable Stiffness Material-Based Flexible Capacitive Stress Sensor with High Sensitivity and Large Measurement Limit. *Advanced Materials Technologies*, **2021**, 6, 2100106	6.8	2
27	An Anti-Fatigue Design Strategy for 3D Ribbon-Shaped Flexible Electronics. *Advanced Materials*, **2021**, 33, e2102684	24	9
26	Three-dimensional electronic microfliers inspired by wind-dispersed seeds. *Nature*, **2021**, 597, 503-510	50.4	28
25	Designing superhydrophobic robotic surfaces: Self-cleaning, high-grip impact, and bacterial repelling. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 629, 127444	5.1	2
24	4D Printing Strain Self-Sensing and Temperature Self-Sensing Integrated Sensor-Actuator with Bioinspired Gradient Gaps. *Advanced Science*, **2020**, 7, 2000584	13.6	29
23	Soft three-dimensional network materials with rational bio-mimetic designs. *Nature Communications*, **2020**, 11, 1180	17.4	57
22	Inverse Design Strategies for 3D Surfaces Formed by Mechanically Guided Assembly. *Advanced Materials*, **2020**, 32, e1908424	24	19
21	Inverse Design Methods: Inverse Design Strategies for 3D Surfaces Formed by Mechanically Guided Assembly (Adv. Mater. 14/2020). *Advanced Materials*, **2020**, 32, 2070107	24	
20	Electro-mechanically controlled assembly of reconfigurable 3D mesostructures and electronic devices based on dielectric elastomer platforms. *National Science Review*, **2020**, 7, 342-354	10.8	43
19	Large Curvature Folding Strategies of Butterfly Proboscis. *Journal of Bionic Engineering*, **2020**, 17, 1239-1250	2.7	
18	Geometrically reconfigurable 3D mesostructures and electromagnetic devices through a rational bottom-up design strategy. *Science Advances*, **2020**, 6, eabb7417	14.3	33
17	Mechanically-Guided Structural Designs in Stretchable Inorganic Electronics. *Advanced Materials*, **2020**, 32, e1902254	24	104
16	Toward Imperfection-Insensitive Soft Network Materials for Applications in Stretchable Electronics. *ACS Applied Materials & Interfaces*, **2019**, 11, 36100-36109	9.5	10
15	Vibrational Receptor of Scorpion (Heterometrus petersii): The Basitarsal Compound Slit Sensilla. *Journal of Bionic Engineering*, **2019**, 16, 76-87	2.7	6

List of Publications

14	Mechanoelectrical Energy Conversion: Highly Efficient Mechanoelectrical Energy Conversion Based on the Near-Tip Stress Field of an Antifracture Slit Observed in Scorpions (Adv. Funct. Mater. 22/2019). *Advanced Functional Materials*, **2019**, 29, 1970147	15.6	2
13	Design and Assembly of Reconfigurable 3D Radio-Frequency Antennas Based on Mechanically Triggered Switches. *Advanced Electronic Materials*, **2019**, 5, 1900256	6.4	6
12	Highly Efficient Mechanoelectrical Energy Conversion Based on the Near-Tip Stress Field of an Antifracture Slit Observed in Scorpions. *Advanced Functional Materials*, **2019**, 29, 1807693	15.6	15
11	Ultralow-Cost, Highly Sensitive, and Flexible Pressure Sensors Based on Carbon Black and Airlaid Paper for Wearable Electronics. *ACS Applied Materials & Interfaces*, **2019**, 11, 33370-33379	9.5	72
10	Flexible and highly sensitive pressure sensors based on microcrack arrays inspired by scorpions.. *RSC Advances*, **2019**, 9, 22740-22748	3.7	6
9	One-step method for fabrication of bioinspired hierarchical superhydrophobic surface with robust stability. *Applied Surface Science*, **2019**, 473, 493-499	6.7	38
8	High Performance, Tunable Electrically Small Antennas through Mechanically Guided 3D Assembly. *Small*, **2019**, 15, e1804055	11	44
7	Towards high thermal stability of optical sensing materials with bio-inspired nanostructure. *Materials Letters*, **2018**, 221, 26-30	3.3	8
6	Artificial Hair-Like Sensors Inspired from Nature: A Review. *Journal of Bionic Engineering*, **2018**, 15, 409-424	2.7	38
5	High-performance flexible strain sensor with bio-inspired crack arrays. *Nanoscale*, **2018**, 10, 15178-15186	7.7	69
4	The effect of the micro-structures on the scorpion surface for improving the anti-erosion performance. *Surface and Coatings Technology*, **2017**, 313, 143-150	4.4	18
3	Superfast and high-sensitivity printable strain sensors with bioinspired micron-scale cracks. *Nanoscale*, **2017**, 9, 1166-1173	7.7	74
2	Fine Structure of Scorpion Pectines for Odor Capture. *Journal of Bionic Engineering*, **2017**, 14, 589-599	2.7	2
1	Morphable three-dimensional electronic mesofliers capable of on-demand unfolding. *Science China Materials*,1	7.1	1