

# Yonggang Huang

## List of Publications by Year in descending order

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331  
papers

57,525  
citations

1229

113  
h-index

1238

233  
g-index

356  
all docs

356  
docs citations

356  
times ranked

39091  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical Bioelectronics in Drug Delivery: Effect of the Initial Gas Volume. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2022, 89, .	1.1	1
2	Mechanically Guided Hierarchical Assembly of 3D Mesostructures. <i>Advanced Materials</i> , 2022, 34, e2109416.	11.1	17
3	Preparation and use of wireless reprogrammable multilateral optogenetic devices for behavioral neuroscience. <i>Nature Protocols</i> , 2022, 17, 1073-1096.	5.5	14
4	Island Effect in Stretchable Inorganic Electronics. <i>Small</i> , 2022, 18, e2107879.	5.2	13
5	Analytical Modeling of Flowrate and Its Maxima in Electrochemical Bioelectronics with Drug Delivery Capabilities. <i>Research</i> , 2022, 2022, 9805932.	2.8	3
6	Implantable, wireless, self-fixing thermal sensors for continuous measurements of microvascular blood flow in flaps and organ grafts. <i>Biosensors and Bioelectronics</i> , 2022, 206, 114145.	5.3	18
7	Submillimeter-scale multimaterial terrestrial robots. <i>Science Robotics</i> , 2022, 7, .	9.9	57
8	A wireless haptic interface for programmable patterns of touch across large areas of the skin. <i>Nature Electronics</i> , 2022, 5, 374-385.	13.1	83
9	A transient, closed-loop network of wireless, body-integrated devices for autonomous electrotherapy. <i>Science</i> , 2022, 376, 1006-1012.	6.0	90
10	Thermally switchable, crystallizable oil and silicone composite adhesives for skin-interfaced wearable devices. <i>Science Advances</i> , 2022, 8, .	4.7	27
11	Soft, bioresorbable coolers for reversible conduction block of peripheral nerves. <i>Science</i> , 2022, 377, 109-115.	6.0	62
12	Material innovation and mechanics design for substrates and encapsulation of flexible electronics: a review. <i>Materials Horizons</i> , 2021, 8, 383-400.	6.4	91
13	Skin-Interfaced Microfluidic Systems that Combine Hard and Soft Materials for Demanding Applications in Sweat Capture and Analysis. <i>Advanced Healthcare Materials</i> , 2021, 10, e2000722.	3.9	40
14	Designing Mechanical Metamaterials with Kirigami-Inspired, Hierarchical Constructions for Giant Positive and Negative Thermal Expansion. <i>Advanced Materials</i> , 2021, 33, e2004919.	11.1	51
15	Wireless, implantable catheter-type oximeter designed for cardiac oxygen saturation. <i>Science Advances</i> , 2021, 7, .	4.7	45
16	Theoretical modeling of tunable vibrations of three-dimensional serpentine structures for simultaneous measurement of adherent cell mass and modulus. <i>MRS Bulletin</i> , 2021, 46, 107-114.	1.7	9
17	Three-dimensional, multifunctional neural interfaces for cortical spheroids and engineered assembloids. <i>Science Advances</i> , 2021, 7, .	4.7	128
18	An on-skin platform for wireless monitoring of flow rate, cumulative loss and temperature of sweat in real time. <i>Nature Electronics</i> , 2021, 4, 302-312.	13.1	110

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19	Rapidly deployable and morphable 3D mesostructures with applications in multimodal biomedical devices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	24
20	Biocompatible Light Guide-Assisted Wearable Devices for Enhanced UV Light Delivery in Deep Skin. <i>Advanced Functional Materials</i> , 2021, 31, 2100576.	7.8	26
21	Modeling programmable drug delivery in bioelectronics with electrochemical actuation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	19
22	Transparent, Compliant 3D Mesostructures for Precise Evaluation of Mechanical Characteristics of Organoids. <i>Advanced Materials</i> , 2021, 33, e2100026.	11.1	23
23	Wireless multilateral devices for optogenetic studies of individual and social behaviors. <i>Nature Neuroscience</i> , 2021, 24, 1035-1045.	7.1	98
24	Compliant 3D frameworks instrumented with strain sensors for characterization of millimeter-scale engineered muscle tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	30
25	Miniaturized electromechanical devices for the characterization of the biomechanics of deep tissue. <i>Nature Biomedical Engineering</i> , 2021, 5, 759-771.	11.6	65
26	Wireless, Skin-Interfaced Devices for Pediatric Critical Care: Application to Continuous, Noninvasive Blood Pressure Monitoring. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100383.	3.9	33
27	Advanced Materials in Wireless, Implantable Electrical Stimulators that Offer Rapid Rates of Bioresorption for Peripheral Axon Regeneration. <i>Advanced Functional Materials</i> , 2021, 31, 2102724.	7.8	17
28	Differential cardiopulmonary monitoring system for artifact-canceled physiological tracking of athletes, workers, and COVID-19 patients. <i>Science Advances</i> , 2021, 7, .	4.7	55
29	3D Microstructures: Transparent, Compliant 3D Mesostructures for Precise Evaluation of Mechanical Characteristics of Organoids ( <i>Adv. Mater.</i> 25/2021). <i>Advanced Materials</i> , 2021, 33, 2170196.	11.1	0
30	Measurement of Blood Pressure via a Skin-Mounted, Non-Invasive Pressure Sensor. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2021, 88, .	1.1	8
31	Mechanics of encapsulated three-dimensional structures for simultaneous sensing of pressure and shear stress. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 151, 104400.	2.3	10
32	Fully implantable and bioresorbable cardiac pacemakers without leads or batteries. <i>Nature Biotechnology</i> , 2021, 39, 1228-1238.	9.4	163
33	Photocurable bioresorbable adhesives as functional interfaces between flexible bioelectronic devices and soft biological tissues. <i>Nature Materials</i> , 2021, 20, 1559-1570.	13.3	114
34	Wireless, battery-free, subdermally implantable platforms for transcranial and long-range optogenetics in freely moving animals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	31
35	Bitter Flavored, Soft Composites for Wearables Designed to Reduce Risks of Choking in Infants. <i>Advanced Materials</i> , 2021, 33, e2103857.	11.1	17
36	Battery-free, wireless soft sensors for continuous multi-site measurements of pressure and temperature from patients at risk for pressure injuries. <i>Nature Communications</i> , 2021, 12, 5008.	5.8	83

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37	Skin-Integrated Devices with Soft, Holey Architectures for Wireless Physiological Monitoring. With Applications in the Neonatal Intensive Care Unit. <i>Advanced Materials</i> , 2021, 33, e2103974.	11.1	35
38	Three-dimensional electronic microfliers inspired by wind-dispersed seeds. <i>Nature</i> , 2021, 597, 503-510.	13.7	120
39	Torsional deformation dominated buckling of serpentine structures to form three-dimensional architectures with ultra-low rigidity. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 155, 104568.	2.3	16
40	A mechanics model for injectable microsystems in drug delivery. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 156, 104622.	2.3	3
41	Wireless, soft electronics for rapid, multisensor measurements of hydration levels in healthy and diseased skin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	31
42	Bioresorbable Multilayer Photonic Cavities as Temporary Implants for Tether-Free Measurements of Regional Tissue Temperatures. <i>BME Frontiers</i> , 2021, 2021, .	2.2	7
43	Thermal and Mechanical Analyses of Compliant Thermoelectric Coils for Flexible and Bio-Integrated Devices. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2021, 88, .	1.1	13
44	Theoretical modeling of tunable vibrations of three-dimensional serpentine structures for simultaneous measurement of adherent cell mass and modulus. <i>MRS Bulletin</i> , 2021, 46, 1-8.	1.7	1
45	Complex 3D microfluidic architectures formed by mechanically guided compressive buckling. <i>Science Advances</i> , 2021, 7, eabj3686.	4.7	41
46	Miniaturized wireless, skin-integrated sensor networks for quantifying full-body movement behaviors and vital signs in infants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	30
47	Implantation and Control of Wireless, Battery-free Systems for Peripheral Nerve Interfacing. <i>Journal of Visualized Experiments</i> , 2021, . , .	0.2	2
48	Flexible electronics with dynamic interfaces for biomedical monitoring, stimulation, and characterization. <i>International Journal of Mechanical System Dynamics</i> , 2021, 1, 52-70.	1.3	6
49	Mechanically-Guided Structural Designs in Stretchable Inorganic Electronics. <i>Advanced Materials</i> , 2020, 32, e1902254.	11.1	183
50	Flexible and Stretchable Antennas for Biointegrated Electronics. <i>Advanced Materials</i> , 2020, 32, e1902767.	11.1	158
51	Highly switchable and reversible dry adhesion for transfer printing. <i>National Science Review</i> , 2020, 7, 558-559.	4.6	6
52	Mechano-acoustic sensing of physiological processes and body motions via a soft wireless device placed at the suprasternal notch. <i>Nature Biomedical Engineering</i> , 2020, 4, 148-158.	11.6	223
53	Ultrathin, High Capacitance Capping Layers for Silicon Electronics with Conductive Interconnects in Flexible, Long-Lived Bioimplants. <i>Advanced Materials Technologies</i> , 2020, 5, 1900800.	3.0	17
54	Skin-interfaced soft microfluidic systems with modular and reusable electronics for <i>in situ</i> capacitive sensing of sweat loss, rate and conductivity. <i>Lab on A Chip</i> , 2020, 20, 4391-4403.	3.1	23

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55	Stretchable, dynamic covalent polymers for soft, long-lived bioresorbable electronic stimulators designed to facilitate neuromuscular regeneration. <i>Nature Communications</i> , 2020, 11, 5990.	5.8	144
56	A wireless, skin-interfaced biosensor for cerebral hemodynamic monitoring in pediatric care. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31674-31684.	3.3	55
57	Reliable, low-cost, fully integrated hydration sensors for monitoring and diagnosis of inflammatory skin diseases in any environment. <i>Science Advances</i> , 2020, 6, .	4.7	40
58	Wireless, skin-interfaced sensors for compression therapy. <i>Science Advances</i> , 2020, 6, .	4.7	52
59	Bioresorbable Wireless Sensors as Temporary Implants for In Vivo Measurements of Pressure. <i>Advanced Functional Materials</i> , 2020, 30, 2003754.	7.8	53
60	Geometrically reconfigurable 3D mesostructures and electromagnetic devices through a rational bottom-up design strategy. <i>Science Advances</i> , 2020, 6, eabb7417.	4.7	50
61	Wirelessly controlled, bioresorbable drug delivery device with active valves that exploit electrochemically triggered crevice corrosion. <i>Science Advances</i> , 2020, 6, eabb1093.	4.7	87
62	Catheter-integrated soft multilayer electronic arrays for multiplexed sensing and actuation during cardiac surgery. <i>Nature Biomedical Engineering</i> , 2020, 4, 997-1009.	11.6	175
63	Wireless sensors for continuous, multimodal measurements at the skin interface with lower limb prostheses. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	93
64	Assembly of Foldable 3D Microstructures Using Graphene Hinges. <i>Advanced Materials</i> , 2020, 32, e2001303.	11.1	29
65	Recent progress of morphable 3D mesostructures in advanced materials. <i>Journal of Semiconductors</i> , 2020, 41, 041604.	2.0	9
66	Mechanics and deformation of shape memory polymer kirigami microstructures. <i>Extreme Mechanics Letters</i> , 2020, 39, 100831.	2.0	10
67	Biodegradable Polyanhydrides as Encapsulation Layers for Transient Electronics. <i>Advanced Functional Materials</i> , 2020, 30, 2000941.	7.8	67
68	Continuous, noninvasive wireless monitoring of flow of cerebrospinal fluid through shunts in patients with hydrocephalus. <i>Npj Digital Medicine</i> , 2020, 3, 29.	5.7	26
69	Skin-interfaced biosensors for advanced wireless physiological monitoring in neonatal and pediatric intensive-care units. <i>Nature Medicine</i> , 2020, 26, 418-429.	15.2	272
70	Bioresorbable, Wireless, Passive Sensors as Temporary Implants for Monitoring Regional Body Temperature. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000942.	3.9	87
71	Inverse Design Strategies for 3D Surfaces Formed by Mechanically Guided Assembly. <i>Advanced Materials</i> , 2020, 32, e1908424.	11.1	34
72	Materials, Mechanics Designs, and Bioresorbable Multisensor Platforms for Pressure Monitoring in the Intracranial Space. <i>Advanced Functional Materials</i> , 2020, 30, 1910718.	7.8	53

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73	Three-dimensional electronic scaffolds for monitoring and regulation of multifunctional hybrid tissues. <i>Extreme Mechanics Letters</i> , 2020, 35, 100634.	2.0	38
74	Inverse Design Methods: Inverse Design Strategies for 3D Surfaces Formed by Mechanically Guided Assembly ( <i>Adv. Mater.</i> 14/2020). <i>Advanced Materials</i> , 2020, 32, 2070107.	11.1	0
75	Development of a neural interface for high-definition, long-term recording in rodents and nonhuman primates. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	145
76	Cellular Substrate to Facilitate Global Buckling of Serpentine Structures. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020, 87, .	1.1	6
77	An Inverse Design Method of Buckling-Guided Assembly for Ribbon-Type 3D Structures. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020, 87, .	1.1	13
78	Flexible electronic/optoelectronic microsystems with scalable designs for chronic biointegration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15398-15406.	3.3	66
79	Harnessing the interface mechanics of hard films and soft substrates for 3D assembly by controlled buckling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15368-15377.	3.3	54
80	Transformable, Freestanding 3D Mesostructures Based on Transient Materials and Mechanical Interlocking. <i>Advanced Functional Materials</i> , 2019, 29, 1903181.	7.8	22
81	Bioresorbable optical sensor systems for monitoring of intracranial pressure and temperature. <i>Science Advances</i> , 2019, 5, eaaw1899.	4.7	146
82	Battery-free, fully implantable optofluidic cuff system for wireless optogenetic and pharmacological neuromodulation of peripheral nerves. <i>Science Advances</i> , 2019, 5, eaaw5296.	4.7	127
83	Battery-free, lightweight, injectable microsystem for in vivo wireless pharmacology and optogenetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21427-21437.	3.3	110
84	A Bioresorbable Magnetically Coupled System for Low-Frequency Wireless Power Transfer. <i>Advanced Functional Materials</i> , 2019, 29, 1905451.	7.8	58
85	Remotely Triggered Assembly of 3D Mesostructures Through Shape-Memory Effects. <i>Advanced Materials</i> , 2019, 31, e1905715.	11.1	42
86	4D Electronic Systems: Transformable, Freestanding 3D Mesostructures Based on Transient Materials and Mechanical Interlocking ( <i>Adv. Funct. Mater.</i> 40/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970277.	7.8	0
87	2D Mechanical Metamaterials with Widely Tunable Unusual Modes of Thermal Expansion. <i>Advanced Materials</i> , 2019, 31, e1905405.	11.1	82
88	Mechanics of buckled serpentine structures formed via mechanics-guided, deterministic three-dimensional assembly. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 125, 736-748.	2.3	29
89	Waterproof, electronics-enabled, epidermal microfluidic devices for sweat collection, biomarker analysis, and thermography in aquatic settings. <i>Science Advances</i> , 2019, 5, eaau6356.	4.7	208
90	Multimodal Sensing with a Three-Dimensional Piezoresistive Structure. <i>ACS Nano</i> , 2019, 13, 10972-10979.	7.3	134

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91	Buckling and twisting of advanced materials into morphable 3D mesostructures. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13239-13248.	3.3	81
92	Postbuckling analyses of frame mesostructures consisting of straight ribbons for mechanically guided three-dimensional assembly. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190012.	1.0	5
93	Optimization-Based Approach for the Inverse Design of Ribbon-Shaped Three-Dimensional Structures Assembled Through Compressive Buckling. Physical Review Applied, 2019, 11, .	1.5	20
94	Mechanics of bistable cross-shaped structures through loading-path controlled 3D assembly. Journal of the Mechanics and Physics of Solids, 2019, 129, 261-277.	2.3	31
95	Design and Assembly of Reconfigurable 3D Radio-Frequency Antennas Based on Mechanically Triggered Switches. Advanced Electronic Materials, 2019, 5, 1900256.	2.6	14
96	Binodal, wireless epidermal electronic systems with in-sensor analytics for neonatal intensive care. Science, 2019, 363, .	6.0	521
97	Large-area MRI-compatible epidermal electronic interfaces for prosthetic control and cognitive monitoring. Nature Biomedical Engineering, 2019, 3, 194-205.	11.6	253
98	Skin-integrated wireless haptic interfaces for virtual and augmented reality. Nature, 2019, 575, 473-479.	13.7	610
99	Resettable skin interfaced microfluidic sweat collection devices with chemesthetic hydration feedback. Nature Communications, 2019, 10, 5513.	5.8	74
100	Wireless, battery-free, fully implantable multimodal and multisite pacemakers for applications in small animal models. Nature Communications, 2019, 10, 5742.	5.8	146
101	Design and Fabrication of Heterogeneous, Deformable Substrates for the Mechanically Guided 3D Assembly. ACS Applied Materials & Interfaces, 2019, 11, 3482-3492.	4.0	23
102	A wireless closed-loop system for optogenetic peripheral neuromodulation. Nature, 2019, 565, 361-365.	13.7	358
103	Irregular Hexagonal Cellular Substrate for Stretchable Electronics. Journal of Applied Mechanics, Transactions ASME, 2019, 86, .	1.1	39
104	High Performance, Tunable Electrically Small Antennas through Mechanically Guided 3D Assembly. Small, 2019, 15, e1804055.	5.2	60
105	Soft Three-Dimensional Microscale Vibratory Platforms for Characterization of Nano-Thin Polymer Films. ACS Nano, 2019, 13, 449-457.	7.3	28
106	Ultrathin, Transferred Layers of Metal Silicide as Faradaic Electrical Interfaces and Biofluid Barriers for Flexible Bioelectronic Implants. ACS Nano, 2019, 13, 660-670.	7.3	30
107	A Generic Soft Encapsulation Strategy for Stretchable Electronics. Advanced Functional Materials, 2019, 29, 1806630.	7.8	83
108	Three-dimensional piezoelectric polymer microsystems for vibrational energy harvesting, robotic interfaces and biomedical implants. Nature Electronics, 2019, 2, 26-35.	13.1	322

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109	Freestanding 3D Mesostructures, Functional Devices, and Shape-Programmable Systems Based on Mechanically Induced Assembly with Shape Memory Polymers. <i>Advanced Materials</i> , 2019, 31, e1805615.	11.1	105
110	Bioresorbable pressure sensors protected with thermally grown silicon dioxide for the monitoring of chronic diseases and healing processes. <i>Nature Biomedical Engineering</i> , 2019, 3, 37-46.	11.6	185
111	Needle-shaped ultrathin piezoelectric microsystem for guided tissue targeting via mechanical sensing. <i>Nature Biomedical Engineering</i> , 2018, 2, 165-172.	11.6	108
112	Anisotropic Mechanics of Cellular Substrate Under Finite Deformation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018, 85, .	1.1	13
113	Battery-free, wireless sensors for full-body pressure and temperature mapping. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	247
114	Three-Dimensional Silicon Electronic Systems Fabricated by Compressive Buckling Process. <i>ACS Nano</i> , 2018, 12, 4164-4171.	7.3	36
115	Two-dimensional materials in functional three-dimensional architectures with applications in photodetection and imaging. <i>Nature Communications</i> , 2018, 9, 1417.	5.8	189
116	Super-Absorbent Polymer Valves and Colorimetric Chemistries for Time-Sequenced Discrete Sampling and Chloride Analysis of Sweat via Skin-Mounted Soft Microfluidics. <i>Small</i> , 2018, 14, e1703334.	5.2	119
117	Morphable 3D mesostructures and microelectronic devices by multistable buckling mechanics. <i>Nature Materials</i> , 2018, 17, 268-276.	13.3	297
118	Fabrication and Deformation of 3D Multilayered Kirigami Microstructures. <i>Small</i> , 2018, 14, e1703852.	5.2	28
119	Highly flexible, wearable, and disposable cardiac biosensors for remote and ambulatory monitoring. <i>Npj Digital Medicine</i> , 2018, 1, 2.	5.7	157
120	Transferred, Ultrathin Oxide Bilayers as Biofluid Barriers for Flexible Electronic Implants. <i>Advanced Functional Materials</i> , 2018, 28, 1702284.	7.8	49
121	A double perturbation method of postbuckling analysis in 2D curved beams for assembly of 3D ribbon-shaped structures. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 111, 215-238.	2.3	48
122	Vibration of mechanically-assembled 3D microstructures formed by compressive buckling. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 112, 187-208.	2.3	44
123	The equivalent medium of cellular substrate under large stretching, with applications to stretchable electronics. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 120, 199-207.	2.3	62
124	Epidermal Electronics: Wireless, Battery-Free Epidermal Electronics for Continuous, Quantitative, Multimodal Thermal Characterization of Skin ( <i>Small</i> 47/2018). <i>Small</i> , 2018, 14, 1870226.	5.2	9
125	Fully implantable optoelectronic systems for battery-free, multimodal operation in neuroscience research. <i>Nature Electronics</i> , 2018, 1, 652-660.	13.1	157
126	Electronic Structures: Mechanically Guided Post-Assembly of 3D Electronic Systems ( <i>Adv. Funct. Mater.</i> )	7.8	12



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127	Wireless, Battery-Free Epidermal Electronics for Continuous, Quantitative, Multimodal Thermal Characterization of Skin. <i>Small</i> , 2018, 14, e1803192.	5.2	73
128	Mechanically Guided Post-Assembly of 3D Electronic Systems. <i>Advanced Functional Materials</i> , 2018, 28, 1803149.	7.8	41
129	Ultrathin Trilayer Assemblies as Long-Lived Barriers against Water and Ion Penetration in Flexible Bioelectronic Systems. <i>ACS Nano</i> , 2018, 12, 10317-10326.	7.3	57
130	Compliant and stretchable thermoelectric coils for energy harvesting in miniature flexible devices. <i>Science Advances</i> , 2018, 4, eaau5849.	4.7	208
131	Relation between blood pressure and pulse wave velocity for human arteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11144-11149.	3.3	193
132	Epidermal electronics for noninvasive, wireless, quantitative assessment of ventricular shunt function in patients with hydrocephalus. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	68
133	Mechanically active materials in three-dimensional mesostructures. <i>Science Advances</i> , 2018, 4, eaat8313.	4.7	89
134	Intraoperative monitoring of neuromuscular function with soft, skin-mounted wireless devices. <i>Npj Digital Medicine</i> , 2018, 1, .	5.7	22
135	Controlled mechanical assembly of complex 3D mesostructures and strain sensors by tensile buckling. <i>Npj Flexible Electronics</i> , 2018, 2, .	5.1	31
136	Epidermal Electronic Systems for Measuring the Thermal Properties of Human Skin at Depths of up to Several Millimeters. <i>Advanced Functional Materials</i> , 2018, 28, 1802083.	7.8	47
137	Flexible Transient Optical Waveguides and Surface-Wave Biosensors Constructed from Monocrystalline Silicon. <i>Advanced Materials</i> , 2018, 30, e1801584.	11.1	55
138	Natural Wax for Transient Electronics. <i>Advanced Functional Materials</i> , 2018, 28, 1801819.	7.8	90
139	Assembly of Advanced Materials into 3D Functional Structures by Methods Inspired by Origami and Kirigami: A Review. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800284.	1.9	195
140	Advanced approaches for quantitative characterization of thermal transport properties in soft materials using thin, conformable resistive sensors. <i>Extreme Mechanics Letters</i> , 2018, 22, 27-35.	2.0	24
141	Optical Waveguides: Flexible Transient Optical Waveguides and Surface-Wave Biosensors Constructed from Monocrystalline Silicon ( <i>Adv. Mater.</i> 32/2018). <i>Advanced Materials</i> , 2018, 30, 1870239.	11.1	1
142	Epidermal Thermal Depth Sensors: Epidermal Electronic Systems for Measuring the Thermal Properties of Human Skin at Depths of up to Several Millimeters ( <i>Adv. Funct. Mater.</i> 34/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870242.	7.8	3
143	Reprogrammable 3D Mesostructures Through Compressive Buckling of Thin Films with Prestrained Shape Memory Polymer. <i>Acta Mechanica Solida Sinica</i> , 2018, 31, 589-598.	1.0	17
144	Thin, Millimeter Scale Fingernail Sensors for Thermal Characterization of Nail Bed Tissue. <i>Advanced Functional Materials</i> , 2018, 28, 1801380.	7.8	12

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145	Chemical Sensing Systems that Utilize Soft Electronics on Thin Elastomeric Substrates with Open Cellular Designs. <i>Advanced Functional Materials</i> , 2017, 27, 1605476.	7.8	64
146	Flexible Near-Field Wireless Optoelectronics as Subdermal Implants for Broad Applications in Optogenetics. <i>Neuron</i> , 2017, 93, 509-521.e3.	3.8	323
147	Stretchable Electronics: In-plane Deformation Mechanics for Highly Stretchable Electronics (Adv.) <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i>	11.1	5
148	Capacitively coupled arrays of multiplexed flexible silicon transistors for long-term cardiac electrophysiology. <i>Nature Biomedical Engineering</i> , 2017, 1, .	11.6	210
149	3D Tunable, Multiscale, and Multistable Vibrational Micro-platforms Assembled by Compressive Buckling. <i>Advanced Functional Materials</i> , 2017, 27, 1605914.	7.8	43
150	Collapse of liquid-overfilled strain-isolation substrates in wearable electronics. <i>International Journal of Solids and Structures</i> , 2017, 117, 137-142.	1.3	18
151	Design and application of J-shaped stress-strain behavior in stretchable electronics: a review. <i>Lab on A Chip</i> , 2017, 17, 1689-1704.	3.1	140
152	Flexible and Stretchable Sensors for Thermal Characterization of Human Skin. <i>Advanced Functional Materials</i> , 2017, 27, 1701282.	7.8	90
153	Mechanically-Guided Deterministic Assembly of 3D Mesostructures Assisted by Residual Stresses. <i>Small</i> , 2017, 13, 1700151.	5.2	32
154	Soft, skin-mounted microfluidic systems for measuring secretory fluidic pressures generated at the surface of the skin by eccrine sweat glands. <i>Lab on A Chip</i> , 2017, 17, 2572-2580.	3.1	117
155	Self-assembled three dimensional network designs for soft electronics. <i>Nature Communications</i> , 2017, 8, 15894.	5.8	325
156	Printing, folding and assembly methods for forming 3D mesostructures in advanced materials. <i>Nature Reviews Materials</i> , 2017, 2, .	23.3	463
157	In-plane Deformation Mechanics for Highly Stretchable Electronics. <i>Advanced Materials</i> , 2017, 29, 1604989.	11.1	141
158	Soft Elastomers with Ionic Liquid-Filled Cavities as Strain Isolating Substrates for Wearable Electronics. <i>Small</i> , 2017, 13, 1602954.	5.2	82
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