

Yeguang Xue

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3338211/yeguang-xue-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

49
papers

3,667
citations

30
h-index

50
g-index

50
ext. papers

4,596
ext. citations

12.6
avg, IF

4.93
L-index

#	Paper	IF	Citations
49	Complex 3D microfluidic architectures formed by mechanically guided compressive buckling. <i>Science Advances</i> , 2021 , 7, eabj3686	14.3	11
48	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,	11.5	6
47	Synergistic photoactuation of bilayered spiropyran hydrogels for predictable origami-like shape change. <i>Matter</i> , 2021 , 4, 1377-1390	12.7	11
46	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	10.1	18
45	Materials, Mechanics Designs, and Bioresorbable Multisensor Platforms for Pressure Monitoring in the Intracranial Space. <i>Advanced Functional Materials</i> , 2020 , 30, 1910718	15.6	29
44	Development of a neural interface for high-definition, long-term recording in rodents and nonhuman primates. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	64
43	Skin-interfaced soft microfluidic systems with modular and reusable electronics for capacitive sensing of sweat loss, rate and conductivity. <i>Lab on A Chip</i> , 2020 , 20, 4391-4403	7.2	9
42	Waterproof, electronics-enabled, epidermal microfluidic devices for sweat collection, biomarker analysis, and thermography in aquatic settings. <i>Science Advances</i> , 2019 , 5, eaau6356	14.3	142
41	Buckling and twisting of advanced materials into morphable 3D mesostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 13239-13248	11.5	51
40	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	11.5	49
39	Bioresorbable optical sensor systems for monitoring of intracranial pressure and temperature. <i>Science Advances</i> , 2019 , 5, eaaw1899	14.3	85
38	Battery-free, fully implantable optofluidic cuff system for wireless optogenetic and pharmacological neuromodulation of peripheral nerves. <i>Science Advances</i> , 2019 , 5, eaaw5296	14.3	79
37	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	11.5	61
36	Skin-integrated wireless haptic interfaces for virtual and augmented reality. <i>Nature</i> , 2019 , 575, 473-479	50.4	307
35	Resettable skin interfaced microfluidic sweat collection devices with chemesthetic hydration feedback. <i>Nature Communications</i> , 2019 , 10, 5513	17.4	39
34	Design and Fabrication of Heterogeneous, Deformable Substrates for the Mechanically Guided 3D Assembly. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3482-3492	9.5	17
33	A wireless closed-loop system for optogenetic peripheral neuromodulation. <i>Nature</i> , 2019 , 565, 361-365	50.4	217

32	Soft Three-Dimensional Microscale Vibratory Platforms for Characterization of Nano-Thin Polymer Films. <i>ACS Nano</i> , 2019 , 13, 449-457	16.7	16
31	A Generic Soft Encapsulation Strategy for Stretchable Electronics. <i>Advanced Functional Materials</i> , 2019 , 29, 1806630	15.6	55
30	Three-dimensional piezoelectric polymer microsystems for vibrational energy harvesting, robotic interfaces and biomedical implants. <i>Nature Electronics</i> , 2019 , 2, 26-35	28.4	209
29	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	19	115
28	Anisotropic Mechanics of Cellular Substrate Under Finite Deformation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018 , 85,	2.7	11
27	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 ¹¹	11	81
26	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	3.9	12
25	Vibration of Mechanically-Assembled 3D Microstructures Formed by Compressive Buckling. <i>Journal of the Mechanics and Physics of Solids</i> , 2018 , 112, 187-208	5	30
24	Mechanics Modeling of Hierarchical Wrinkle Structures from the Sequential Release of Prestrain. <i>Langmuir</i> , 2018 , 34, 15749-15753	4	10
23	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	11.5	109
22	Anti-self-collapse design of reservoir in flexible epidermal microfluidic device via pillar supporting. <i>Applied Physics Letters</i> , 2018 , 113, 163702	3.4	4
21	Mechanically active materials in three-dimensional mesostructures. <i>Science Advances</i> , 2018 , 4, eaat8313	14.3	57
20	Natural Wax for Transient Electronics. <i>Advanced Functional Materials</i> , 2018 , 28, 1801819	15.6	50
19	Chemical Sensing Systems that Utilize Soft Electronics on Thin Elastomeric Substrates with Open Cellular Designs. <i>Advanced Functional Materials</i> , 2017 , 9, 1605476	15.6	51
18	Capacitively Coupled Arrays of Multiplexed Flexible Silicon Transistors for Long-Term Cardiac Electrophysiology. <i>Nature Biomedical Engineering</i> , 2017 , 1,	19	163
17	Three-Dimensional Multiscale, Multistable, and Geometrically Diverse Microstructures with Tunable Vibrational Dynamics Assembled by Compressive Buckling. <i>Advanced Functional Materials</i> , 2017 , 27, 1605914	15.6	39
16	Collapse of liquid-overfilled strain-isolation substrates in wearable electronics. <i>International Journal of Solids and Structures</i> , 2017 , 117, 137-142	3.1	11
15	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	7.2	93

14	Soft Elastomers with Ionic Liquid-Filled Cavities as Strain Isolating Substrates for Wearable Electronics. <i>Small</i> , 2017 , 13, 1602954	11	67
13	Electromechanical properties of reduced graphene oxide thin film on 3D elastomeric substrate. <i>Carbon</i> , 2017 , 115, 380-387	10.4	4
12	A skin-attachable, stretchable integrated system based on liquid GaInSn for wireless human motion monitoring with multi-site sensing capabilities. <i>NPG Asia Materials</i> , 2017 , 9, e443-e443	10.3	145
11	Torsional Buckling by Joining Prestrained and Unstrained Elastomeric Strips With Application as Bilinear Elastic Spring. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017 , 84,	2.7	6
10	Fully implantable, battery-free wireless optoelectronic devices for spinal optogenetics. <i>Pain</i> , 2017 , 158, 2108-2116	8	76
9	Engineered elastomer substrates for guided assembly of complex 3D mesostructures by spatially nonuniform compressive buckling. <i>Advanced Functional Materials</i> , 2017 , 27, 1604281	15.6	41
8	Collapse of microfluidic channels/reservoirs in thin, soft epidermal devices. <i>Extreme Mechanics Letters</i> , 2017 , 11, 18-23	3.9	17
7	A soft, wearable microfluidic device for the capture, storage, and colorimetric sensing of sweat. <i>Science Translational Medicine</i> , 2016 , 8, 366ra165	17.5	665
6	Ultrathin, transferred layers of thermally grown silicon dioxide as biofluid barriers for biointegrated flexible electronic systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 11682-11687	11.5	133
5	Design of Strain-Limiting Substrate Materials for Stretchable and Flexible Electronics. <i>Advanced Functional Materials</i> , 2016 , 26, 5345-5351	15.6	75
4	Wrinkling of a stiff thin film bonded to a pre-strained, compliant substrate with finite thickness. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016 , 472, 20160339 ²⁻⁴		20
3	Theoretical and Experimental Studies of Epidermal Heat Flux Sensors for Measurements of Core Body Temperature. <i>Advanced Healthcare Materials</i> , 2016 , 5, 119-27	10.1	83
2	Flexible Electronics: Theoretical and Experimental Studies of Epidermal Heat Flux Sensors for Measurements of Core Body Temperature (Adv. Healthcare Mater. 1/2016). <i>Advanced Healthcare Materials</i> , 2016 , 5, 2	10.1	4
1	A theoretical model of reversible adhesion in shape memory surface relief structures and its application in transfer printing. <i>Journal of the Mechanics and Physics of Solids</i> , 2015 , 77, 27-42	5	29