

Sang Min Won

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.

43 papers	6,856 citations	26 h-index	47 g-index
47 ext. papers	8,296 ext. citations	16.7 avg, IF	5.27 L-index

#	Paper	IF	Citations
43	Vital signal sensing and manipulation of a microscale organ with a multifunctional soft gripper. <i>Science Robotics</i> , 2021 , 6, eabi6774	18.6	8
42	Miniaturized electromechanical devices for the characterization of the biomechanics of deep tissue. <i>Nature Biomedical Engineering</i> , 2021 , 5, 759-771	19	25
41	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	5	3
40	Wireless and battery-free technologies for neuroengineering. <i>Nature Biomedical Engineering</i> , 2021 ,	19	26
39	Three-dimensional, multifunctional neural interfaces for cortical spheroids and engineered assembloids. <i>Science Advances</i> , 2021 , 7,	14.3	38
38	Wireless, battery-free, and fully implantable electrical neurostimulation in freely moving rodents. <i>Microsystems and Nanoengineering</i> , 2021 , 7, 62	7.7	6
37	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	17.4	21
36	Three-dimensional electronic microfliers inspired by wind-dispersed seeds. <i>Nature</i> , 2021 , 597, 503-510	50.4	28
35	Variable-focus optoacoustic lens with wide dynamic range and long focal length by using a flexible polymer nano-composite membrane. <i>Ultrasonics</i> , 2021 , 117, 106545	3.5	0
34	Bioresorbable Multilayer Photonic Cavities as Temporary Implants for Tether-Free Measurements of Regional Tissue Temperatures. <i>BME Frontiers</i> , 2021 , 2021, 1-14	4.4	2
33	Materials for flexible bioelectronic systems as chronic neural interfaces. <i>Nature Materials</i> , 2020 , 19, 590-603	60.3	127
32	Emerging Modalities and Implantable Technologies for Neuromodulation. <i>Cell</i> , 2020 , 181, 115-135	56.2	64
31	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
30	Soft, skin-interfaced microfluidic systems with integrated enzymatic assays for measuring the concentration of ammonia and ethanol in sweat. <i>Lab on A Chip</i> , 2020 , 20, 84-92	7.2	34
29	Ultrathin, High Capacitance Capping Layers for Silicon Electronics with Conductive Interconnects in Flexible, Long-Lived Bioimplants. <i>Advanced Materials Technologies</i> , 2020 , 5, 1900800	6.8	12
28	Wireless, skin-interfaced sensors for compression therapy. <i>Science Advances</i> , 2020 , 6,	14.3	26
27	Multimodal Sensing with a Three-Dimensional Piezoresistive Structure. <i>ACS Nano</i> , 2019 , 13, 10972-10979	16.7	75

26	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	11.5	44
25	A wireless closed-loop system for optogenetic peripheral neuromodulation. <i>Nature</i> , 2019 , 565, 361-365	50.4	217
24	Ultrathin, Transferred Layers of Metal Silicide as Faradaic Electrical Interfaces and Biofluid Barriers for Flexible Bioelectronic Implants. <i>ACS Nano</i> , 2019 , 13, 660-670	16.7	24
23	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
22	Battery-free, wireless sensors for full-body pressure and temperature mapping. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	176
21	Three-Dimensional Silicon Electronic Systems Fabricated by Compressive Buckling Process. <i>ACS Nano</i> , 2018 , 12, 4164-4171	16.7	23
20	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	81
19	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
18	Wireless bioresorbable electronic system enables sustained nonpharmacological neuroregenerative therapy. <i>Nature Medicine</i> , 2018 , 24, 1830-1836	50.5	190
17	Soft, Skin-Interfaced Microfluidic Systems with Wireless, Battery-Free Electronics for Digital, Real-Time Tracking of Sweat Loss and Electrolyte Composition. <i>Small</i> , 2018 , 14, e1802876	11	66
16	Mechanically Guided Post-Assembly of 3D Electronic Systems. <i>Advanced Functional Materials</i> , 2018 , 28, 1803149	15.6	26
15	Recent Advances in Materials, Devices, and Systems for Neural Interfaces. <i>Advanced Materials</i> , 2018 , 30, e1800534	24	104
14	Natural Wax for Transient Electronics. <i>Advanced Functional Materials</i> , 2018 , 28, 1801819	15.6	50
13	Capacitively Coupled Arrays of Multiplexed Flexible Silicon Transistors for Long-Term Cardiac Electrophysiology. <i>Nature Biomedical Engineering</i> , 2017 , 1,	19	163
12	Fully Biodegradable Microsupercapacitor for Power Storage in Transient Electronics. <i>Advanced Energy Materials</i> , 2017 , 7, 1700157	21.8	145
11	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
10	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
9	Bioresorbable silicon electronics for transient spatiotemporal mapping of electrical activity from the cerebral cortex. <i>Nature Materials</i> , 2016 , 15, 782-791	27	296

8	Corrections to Piezoresistive Strain Sensors and Multiplexed Arrays Using Assemblies of Single-Crystalline Silicon Nanoribbons on Plastic Substrates[Nov 11 4074-4078]. <i>IEEE Transactions on Electron Devices</i> , 2012 , 59, 520-520	2.9	
7	A physically transient form of silicon electronics. <i>Science</i> , 2012 , 337, 1640-4	33.3	862
6	Epidermal electronics. <i>Science</i> , 2011 , 333, 838-43	33.3	3216
5	Piezoresistive Strain Sensors and Multiplexed Arrays Using Assemblies of Single-Crystalline Silicon Nanoribbons on Plastic Substrates. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 4074-4078	2.9	54
4	Fabrication of Releasable Single-Crystal SiliconMetal Oxide Field-Effect Devices and Their Deterministic Assembly on Foreign Substrates. <i>Advanced Functional Materials</i> , 2011 , 21, 3029-3036	15.6	52
3	Kinetically controlled, adhesiveless transfer printing using microstructured stamps. <i>Applied Physics Letters</i> , 2009 , 94, 113502	3.4	71
2	Self-assembled nanodielectrics and silicon nanomembranes for low voltage, flexible transistors, and logic gates on plastic substrates. <i>Applied Physics Letters</i> , 2009 , 95, 183504	3.4	26
1	Functional Encapsulating Structure for Wireless and Immediate Monitoring of the Fluid Penetration. <i>Advanced Functional Materials</i> , 2201854	15.6	1