

# Woo Soo Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

1,586  
citations

377584

21  
h-index

340414

39  
g-index

68  
all docs

68  
docs citations

68  
times ranked

2997  
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging wearable flexible sensors for sweat analysis. <i>Bio-Design and Manufacturing</i> , 2022, 5, 64-84.	3.9	29
2	3D printed leech-inspired origami dry electrodes for electrophysiology sensing robots. <i>Npj Flexible Electronics</i> , 2022, 6, .	5.1	20
3	A 3-D Printed Portable Neuromorphic System. , 2022, 6, 1-3.		0
4	Involvement of frontline clinicians in healthcare technology development: Lessons learned from a ventilator project. <i>Health and Technology</i> , 2022, 12, 597-606.	2.1	3
5	A 3D-printed neuromorphic humanoid hand for grasping unknown objects. <i>IScience</i> , 2022, 25, 104119.	1.9	15
6	New Frontiers in 3D Structural Sensing Robots. <i>Advanced Materials</i> , 2021, 33, e2002534.	11.1	27
7	Healthcare Robots: 3D Origami Sensing Robots for Cooperative Healthcare Monitoring ( <i>Adv. Mater.</i> ) Tj ETQq1 1 0.784314 rgBT /Over 3.0	3.0	30
8	Soft Bionic Sensors and Actuators. <i>Advanced Intelligent Systems</i> , 2021, 3, 2100003.	3.3	3
9	A 3D integrated neuromorphic chemical sensing system. <i>Sensors and Actuators B: Chemical</i> , 2021, 332, 129527.	4.0	13
10	Sensing Robots: New Frontiers in 3D Structural Sensing Robots ( <i>Adv. Mater.</i> 19/2021). <i>Advanced Materials</i> , 2021, 33, 2170148.	11.1	3
11	Highly Conductive 3D Printable Materials for 3D Structural Electronics. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2423-2433.	2.0	21
12	3D architected air sensing tubes for a portable mechanical ventilator. <i>Flexible and Printed Electronics</i> , 2021, 6, 035010.	1.5	1
13	3D Origami Sensing Robots for Cooperative Healthcare Monitoring. <i>Advanced Materials Technologies</i> , 2021, 6, 2000938.	3.0	23
14	Artificial Xylem Chip: A Three-Dimensionally Printed Vertical Digital Microfluidic Platform. <i>Langmuir</i> , 2020, 36, 14841-14848.	1.6	9
15	Perspective on 3D-designed micro-supercapacitors. <i>Materials and Design</i> , 2020, 193, 108797.	3.3	37
16	Perspective of Printed Solidâ€State Ion Sensors toward High Sensitivity and Selectivity. <i>Advanced Engineering Materials</i> , 2020, 22, 2000116.	1.6	9
17	Toward a Smart Compliant Robotic Gripper Equipped with 3Dâ€Designed Cellular Fingers. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900019.	3.3	35
18	Humanoid Robot Actuation through Precise Chemical Sensing Signals. <i>Advanced Materials Technologies</i> , 2019, 4, 1900570.	3.0	5

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19	Beyond high voltage in the digital microfluidic devices for an integrated portable sensing system. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	1.0	14
20	Toward a highly selective artificial saliva sensor using printed hybrid field effect transistors. <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 186-192.	4.0	30
21	Additively Manufactured Digital Microfluidic Platforms for Ion-Selective Sensing. <i>ACS Sensors</i> , 2019, 4, 918-923.	4.0	15
22	3D Printed Disposable Wireless Ion Selective Sensing Platform. , 2019, , .		0
23	New Ion-selective Sensing Platform: Additively Manufactured Flexible Digital Microfluidic System. , 2019, , .		0
24	3D Printed Disposable Wireless Ion Sensors with Biocompatible Cellulose Composites. <i>Advanced Electronic Materials</i> , 2019, 5, 1800778.	2.6	43
25	Nozzle Shape Guided Filler Orientation in 3D Printed Photo-curable Nanocomposites. <i>Scientific Reports</i> , 2018, 8, 3805.	1.6	16
26	Sustainable Additive Manufacturing of Printed Circuit Boards. <i>Joule</i> , 2018, 2, 579-582.	11.7	27
27	A 3-D-Printed Integrated PCB-Based Electrochemical Sensor System. <i>IEEE Sensors Journal</i> , 2018, 18, 2959-2966.	2.4	39
28	3D Printed Ion-Selective Field Effect Transistors. , 2018, , .		0
29	A 3D Printed Flexible Passive RFID for Temperature Sensing. , 2018, , .		2
30	3D Printed Flexible Coreless Transformers. , 2018, , .		2
31	Hierarchically Designed Electron Paths in 3D Printed Energy Storage Devices. <i>Langmuir</i> , 2018, 34, 10897-10904.	1.6	53
32	High performance 3D printed electronics using electroless plated copper. <i>AIP Advances</i> , 2017, 7, .	0.6	24
33	Conductive Cellulose Composites with Low Percolation Threshold for 3D Printed Electronics. <i>Scientific Reports</i> , 2017, 7, 3246.	1.6	53
34	Three-dimensionally printed cellular architecture materials: perspectives on fabrication, material advances, and applications. <i>MRS Communications</i> , 2017, 7, 8-19.	0.8	16
35	3D printed stretching-dominated micro-trusses. <i>Materials and Design</i> , 2017, 134, 272-280.	3.3	94
36	Highly Conductive Three-dimensional Printing With Low-melting Metal Alloy Filament. <i>Advanced Engineering Materials</i> , 2017, 19, 1700301.	1.6	9

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37	Shear-induced dry transfer of reduced graphene oxide thin film via roll-to-roll printing. Applied Physics Letters, 2016, 108, .	1.5	9
38	Bendable Electro-chemical Lactate Sensor Printed with Silver Nano-particles. Scientific Reports, 2016, 6, 30565.	1.6	78
39	A Wireless Wristband Accelerometer for Monitoring of Rubber Band Exercises. IEEE Sensors Journal, 2016, 16, 1143-1150.	2.4	14
40	A paired stretchable printed sensor system for ambulatory blood pressure monitoring. Sensors and Actuators A: Physical, 2016, 238, 329-336.	2.0	21
41	Piezo-resistive Pressure Sensor Array with Photo-thermally Reduced Graphene Oxide. Materials Research Society Symposia Proceedings, 2015, 1798, 1.	0.1	1
42	3D printed inductor designs decorated with silver nano ink. , 2015, , .		2
43	A wireless motion detection system with silver nano ink printed accelerometer. , 2015, , .		1
44	Highly Sensitive Pressure Sensor Array With Photothermally Reduced Graphene Oxide. IEEE Electron Device Letters, 2015, 36, 180-182.	2.2	23
45	Stretchable RF antenna sensors for conformal strain detection. , 2015, , .		0
46	Instrumented rubber insole for plantar pressure sensing. Organic Electronics, 2015, 23, 82-86.	1.4	29
47	A Flexible Accelerometer System for Human Pulse Monitoring. Materials Research Society Symposia Proceedings, 2014, 1690, 1.	0.1	3
48	Highly Sensitive Flexible Printed Accelerometer System for Monitoring Vital Signs. Soft Robotics, 2014, 1, 132-135.	4.6	21
49	Stretching Silver: Printed Metallic Nano Inks in Stretchable Conductor Applications. IEEE Nanotechnology Magazine, 2014, 8, 6-13.	0.9	19
50	Sustained Percolation in Stretched Silver Nanowire Networks for Stretchable Inter-Connection Applications. Materials Research Society Symposia Proceedings, 2014, 1685, 26.	0.1	1
51	Sustained Percolation in Stretched Silver Nanowire Networks for Stretchable Inter-Connection Applications. Advanced Engineering Materials, 2014, 16, 905-908.	1.6	8
52	Flexible Fibrous Piezoelectric Sensors on Printed Silver Electrodes. IEEE Nanotechnology Magazine, 2014, 13, 709-713.	1.1	12
53	Stretchable RFID for Wireless Strain Sensing With Silver Nano Ink. IEEE Sensors Journal, 2014, 14, 4395-4401.	2.4	75
54	Flexible Fibrous Piezo-Electric Sensor on Printed Silver Electrode. Materials Research Society Symposia Proceedings, 2014, 1685, 64.	0.1	0

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55	A Stretchable RF Antenna With Silver Nanowires. IEEE Electron Device Letters, 2013, 34, 544-546.	2.2	97
56	Roll-to-Roll Apparatus for Residue-Free Direct Stamping of Functional Nano-Inks. Materials Research Society Symposia Proceedings, 2013, 1529, 1.	0.1	2
57	Design optimized membrane-based flexible paper accelerometer with silver nano ink. Applied Physics Letters, 2013, 103, .	1.5	23
58	Repeatedly Bendable Paper Touch Pad via Direct Stamping of Silver Nanoink With Pressure-Induced Low-Temperature Annealing. IEEE Nanotechnology Magazine, 2013, 12, 1139-1143.	1.1	6
59	Direct stamping of silver nanoparticles toward residue-free thick electrode. Science and Technology of Advanced Materials, 2012, 13, 035004.	2.8	34
60	Fabrication of Sensitivity Tunable Flexible Force Sensor via Spray Coating of Graphite Ink. IEEE Electron Device Letters, 2012, 33, 902-904.	2.2	17
61	Highly sensitive tactile sensors integrated with organic transistors. Applied Physics Letters, 2012, 101, 103308.	1.5	85
62	Reversibly Stretchable Transparent Conductive Coatings of Spray-Deposited Silver Nanowires. ACS Applied Materials & Interfaces, 2012, 4, 1855-1859.	4.0	281
63	Ultra-sensitive flexible pressure sensor with stamped polyurethane rubber. , 2011, , .		0
64	Facile fabrication of super-hydrophobic nano-needle arrays via breath figures method. Nanoscale Research Letters, 2011, 6, 616.	3.1	22