Woo Soo Kim

List of Publications by Year
in descending order

64 papers	1,586 citations	331670 21 h-index	302126 39 g-index
68 all docs	68 docs citations	68 times ranked	2565 citing authors

#	Article	IF	Citations
1	Reversibly Stretchable Transparent Conductive Coatings of Spray-Deposited Silver Nanowires. ACS Applied Materials & Interfaces, 2012, 4, 1855-1859.	8.0	281
2	A Stretchable RF Antenna With Silver Nanowires. IEEE Electron Device Letters, 2013, 34, 544-546.	3.9	97
3	3D printed stretching-dominated micro-trusses. Materials and Design, 2017, 134, 272-280.	7.0	94
4	Highly sensitive tactile sensors integrated with organic transistors. Applied Physics Letters, 2012, 101, 103308.	3.3	85
5	Bendable Electro-chemical Lactate Sensor Printed with Silver Nano-particles. Scientific Reports, 2016, 6, 30565.	3.3	78
6	Stretchable RFID for Wireless Strain Sensing With Silver Nano Ink. IEEE Sensors Journal, 2014, 14, 4395-4401.	4.7	75
7	Conductive Cellulose Composites with Low Percolation Threshold for 3D Printed Electronics. Scientific Reports, 2017, 7, 3246.	3.3	53
8	Hierarchically Designed Electron Paths in 3D Printed Energy Storage Devices. Langmuir, 2018, 34, 10897-10904.	3.5	53
9	3D Printed Disposable Wireless Ion Sensors with Biocompatible Cellulose Composites. Advanced Electronic Materials, 2019, 5, 1800778.	5.1	43
10	A 3-D-Printed Integrated PCB-Based Electrochemical Sensor System. IEEE Sensors Journal, 2018, 18, 2959-2966.	4.7	39
11	Perspective on 3D-designed micro-supercapacitors. Materials and Design, 2020, 193, 108797.	7.0	37
12	Toward a Smart Compliant Robotic Gripper Equipped with 3Dâ€Designed Cellular Fingers. Advanced Intelligent Systems, 2019, 1, 1900019.	6.1	35
13	Direct stamping of silver nanoparticles toward residue-free thick electrode. Science and Technology of Advanced Materials, 2012, 13, 035004.	6.1	34
14	Toward a highly selective artificial saliva sensor using printed hybrid field effect transistors. Sensors and Actuators B: Chemical, 2019, 285, 186-192.	7.8	30
15	Instrumented rubber insole for plantar pressure sensing. Organic Electronics, 2015, 23, 82-86.	2.6	29
16	Emerging wearable flexible sensors for sweat analysis. Bio-Design and Manufacturing, 2022, 5, 64-84.	7.7	29
17	Sustainable Additive Manufacturing of Printed Circuit Boards. Joule, 2018, 2, 579-582.	24.0	27
18	New Frontiers in 3D Structural Sensing Robots. Advanced Materials, 2021, 33, e2002534.	21.0	27

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19	High performance 3D printed electronics using electroless plated copper. AIP Advances, 2017, 7, .	1.3	24
20	Design optimized membrane-based flexible paper accelerometer with silver nano ink. Applied Physics Letters, 2013, 103, .	3.3	23
21	Highly Sensitive Pressure Sensor Array With Photothermally Reduced Graphene Oxide. IEEE Electron Device Letters, 2015, 36, 180-182.	3.9	23
22	3D Origami Sensing Robots for Cooperative Healthcare Monitoring. Advanced Materials Technologies, 2021, 6, 2000938.	5.8	23
23	Facile fabrication of super-hydrophobic nano-needle arrays via breath figures method. Nanoscale Research Letters, 2011, 6, 616.	5.7	22
24	Highly Sensitive Flexible Printed Accelerometer System for Monitoring Vital Signs. Soft Robotics, 2014, 1, 132-135.	8.0	21
25	A paired stretchable printed sensor system for ambulatory blood pressure monitoring. Sensors and Actuators A: Physical, 2016, 238, 329-336.	4.1	21
26	Highly Conductive 3D Printable Materials for 3D Structural Electronics. ACS Applied Electronic Materials, 2021, 3, 2423-2433.	4.3	21
27	3D printed leech-inspired origami dry electrodes for electrophysiology sensing robots. Npj Flexible Electronics, 2022, 6, .	10.7	20
28	Stretching Silver: Printed Metallic Nano Inks in Stretchable Conductor Applications. IEEE Nanotechnology Magazine, 2014, 8, 6-13.	1.3	19
29	Fabrication of Sensitivity Tunable Flexible Force Sensor via Spray Coating of Graphite Ink. IEEE Electron Device Letters, 2012, 33, 902-904.	3.9	17
30	Three-dimensionally printed cellular architecture materials: perspectives on fabrication, material advances, and applications. MRS Communications, 2017, 7, 8-19.	1.8	16
31	Nozzle Shape Guided Filler Orientation in 3D Printed Photo-curable Nanocomposites. Scientific Reports, 2018, 8, 3805.	3.3	16
32	Additively Manufactured Digital Microfluidic Platforms for Ion-Selective Sensing. ACS Sensors, 2019, 4, 918-923.	7.8	15
33	A 3D-printed neuromorphic humanoid hand for grasping unknown objects. IScience, 2022, 25, 104119.	4.1	15
34	A Wireless Wristband Accelerometer for Monitoring of Rubber Band Exercises. IEEE Sensors Journal, 2016, 16, 1143-1150.	4.7	14
35	Beyond high voltage in the digital microfluidic devices for an integrated portable sensing system. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	14
36	A 3D integrated neuromorphic chemical sensing system. Sensors and Actuators B: Chemical, 2021, 332, 129527.	7.8	13

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37	Flexible Fibrous Piezoelectric Sensors on Printed Silver Electrodes. IEEE Nanotechnology Magazine, 2014, 13, 709-713.	2.0	12
38	Shear-induced dry transfer of reduced graphene oxide thin film via roll-to-roll printing. Applied Physics Letters, 2016, 108, .	3.3	9
39	Highly Conductive Threeâ€Dimensional Printing With Lowâ€Melting Metal Alloy Filament. Advanced Engineering Materials, 2017, 19, 1700301.	3.5	9
40	Artificial Xylem Chip: A Three-Dimensionally Printed Vertical Digital Microfluidic Platform. Langmuir, 2020, 36, 14841-14848.	3.5	9
41	Perspective of Printed Solidâ€State Ion Sensors toward High Sensitivity and Selectivity. Advanced Engineering Materials, 2020, 22, 2000116.	3.5	9
42	Sustained Percolation in Stretched Silver Nanowire Networks for Stretchable Interâ€Connection Applications. Advanced Engineering Materials, 2014, 16, 905-908.	3.5	8
43	Repeatedly Bendable Paper Touch Pad via Direct Stamping of Silver Nanoink With Pressure-Induced Low-Temperature Annealing. IEEE Nanotechnology Magazine, 2013, 12, 1139-1143.	2.0	6
44	Humanoid Robot Actuation through Precise Chemical Sensing Signals. Advanced Materials Technologies, 2019, 4, 1900570.	5.8	5
45	A Flexible Accelerometer System for Human Pulse Monitoring. Materials Research Society Symposia Proceedings, 2014, 1690, 1.	0.1	3
46	Soft Bionic Sensors and Actuators. Advanced Intelligent Systems, 2021, 3, 2100003.	6.1	3
47	Sensing Robots: New Frontiers in 3D Structural Sensing Robots (Adv. Mater. 19/2021). Advanced Materials, 2021, 33, 2170148.	21.0	3
48	Involvement of frontline clinicians in healthcare technology development: Lessons learned from a ventilator project. Health and Technology, 2022, 12, 597-606.	3.6	3
49	Roll-to-Roll Apparatus for Residue-Free Direct Stamping of Functional Nano-Inks. Materials Research Society Symposia Proceedings, 2013, 1529, 1.	0.1	2
50	3D printed inductor designs decorated with silver nano ink. , 2015, , .		2
51	A 3D Printed Flexible Passive RFID for Temperature Sensing. , 2018, , .		2
52	3D Printed Flexible Coreless Transformers. , 2018, , .		2
53	Sustained Percolation in Stretched Silver Nanowire Networks for Stretchable Inter-Connection Applications. Materials Research Society Symposia Proceedings, 2014, 1685, 26.	0.1	1
54	Piezo-resistive Pressure Sensor Array with Photo-thermally Reduced Graphene Oxide. Materials Research Society Symposia Proceedings, 2015, 1798, 1.	0.1	1

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55	A wireless motion detection system with silver nano ink printed accelerometer. , 2015, , .		1
56	3D architectured air sensing tubes for a portable mechanical ventilator. Flexible and Printed Electronics, 2021, 6, 035010.	2.7	1
57	Ultra-sensitive flexible pressure sensor with stamped polyurethane rubber. , 2011, , .		0
58	Flexible Fibrous Piezo-Electric Sensor on Printed Silver Electrode. Materials Research Society Symposia Proceedings, 2014, 1685, 64.	0.1	0
59	Stretchable RF antenna sensors for conformal strain detection. , 2015, , .		0
60	3D Printed Ion-Selective Field Effect Transistors. , 2018, , .		0
61	3D Printed Disposable Wireless Ion Selective Sensing Platform. , 2019, , .		0
62	New Ion-selective Sensing Platform: Additively Manufactured Flexible Digital Microfluidic System. , 2019, , .		0
63	Healthcare Robots: 3D Origami Sensing Robots for Cooperative Healthcare Monitoring (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Over	5.8	0
64	A 3-D Printed Portable Neuromorphic System. , 2022, 6, 1-3.		0