Dinesh Maddipatla

List of Publications by Year
in descending order

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68	1,690	304743 22	377865 34
papers	citations	h-index	g-index

69	69	69	1068
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highly Sensitive Porous PDMS-Based Capacitive Pressure Sensors Fabricated on Fabric Platform for Wearable Applications. ACS Sensors, 2021, 6, 938-949.	7.8	125
2	Printed strain sensor based on silver nanowire/silver flake composite on flexible and stretchable TPU substrate. Sensors and Actuators A: Physical, 2018, 274, 109-115.	4.1	110
3	A carbon nanotube based NTC thermistor using additive print manufacturing processes. Sensors and Actuators A: Physical, 2018, 279, 1-9.	4.1	108
4	Integrated sensing and delivery of oxygen for next-generation smart wound dressings. Microsystems and Nanoengineering, 2020, 6, 46.	7.0	96
5	Recent Progress in Manufacturing Techniques of Printed and Flexible Sensors: A Review. Biosensors, 2020, 10, 199.	4.7	87
6	Printed Carbon Nanotubes-Based Flexible Resistive Humidity Sensor. IEEE Sensors Journal, 2020, 20, 12592-12601.	4.7	86
7	Laser-Assisted Fabrication of a Highly Sensitive and Flexible Micro Pyramid-Structured Pressure Sensor for E-Skin Applications. IEEE Sensors Journal, 2020, 20, 7605-7613.	4.7	76
8	A highly sensitive printed humidity sensor based on a functionalized MWCNT/HEC composite for flexible electronics application. Nanoscale Advances, 2019, 1, 2311-2322.	4.6	67
9	Development of a novel carbon nanotube based printed and flexible pressure sensor. , 2017, , .		64
10	Flexible Capacitive Pressure Sensor Based on PDMS Substrate and Gaâ€“In Liquid Metal. IEEE Sensors Journal, 2019, 19, 97-104.	4.7	60
11	A Screen Printed Phenanthroline-Based Flexible Electrochemical Sensor for Selective Detection of Toxic Heavy Metal Ions. IEEE Sensors Journal, 2016, 16, 8678-8684.	4.7	46
12	Development of a Fluorinated Graphene-Based Resistive Humidity Sensor. IEEE Sensors Journal, 2020, 20, 7517-7524.	4.7	37
13	Impact of Substrate and Process on the Electrical Performance of Screen-Printed Nickel Electrodes: Fundamental Mechanism of Ink Film Roughness. ACS Applied Energy Materials, 2018, 1, 7164-7173.	5.1	36
14	Screen-Printed Strain Gauge for Micro-Strain Detection Applications. IEEE Sensors Journal, 2020, 20, 12652-12660.	4.7	35
15	Development of a Flexible Tunable and Compact Microstrip Antenna via Laser Assisted Patterning of Copper Film. IEEE Sensors Journal, 2020, 20, 7579-7587.	4.7	35
16	A Polyimide Based Force Sensor Fabricated Using Additive Screen-Printing Process for Flexible Electronics. IEEE Access, 2020, 8, 207813-207821.	4.2	34
17	Rapid prototyping of a novel and flexible paper based oxygen sensing patchviaadditive inkjet printing process. RSC Advances, 2019, 9, 22695-22704.	3.6	30
18	A novel flexographic printed strain gauge on paper platform. , 2015, , .		28

#	Article	IF	Citations
19	Nickel Based RTD Fabricated via Additive Screen Printing Process for Flexible Electronics. IEEE Access, 2019, 7, 37518-37527.	4.2	28
20	A screen printed and flexible piezoelectric-based AC magnetic field sensor. Sensors and Actuators A: Physical, 2017, 268, 1-8.	4.1	26
21	Novel Printed Carbon Nanotubes Based Resistive Humidity Sensors. , 2019, , .		26
22	Flexible M-Tooth Hybrid Micro-Structure-Based Capacitive Pressure Sensor With High Sensitivity and Wide Sensing Range. IEEE Sensors Journal, 2021, 21, 26261-26268.	4.7	25
23	Lignin-Derived Carbon-Coated Functional Paper for Printed Electronics. ACS Applied Electronic Materials, 2021, 3, 3904-3914.	4.3	25
24	A Flexible Triboelectric Nanogenerator Fabricated Using Laser-Assisted Patterning Process. , 2019, , .		23
25	Development of a PPG Sensor Array as a Wearable Device for Monitoring Cardiovascular Metrics. IEEE Sensors Journal, 2021, 21, 26320-26327.	4.7	22
26	Development of a Flexible Wireless ECG Monitoring Device With Dry Fabric Electrodes for Wearable Applications. IEEE Sensors Journal, 2022, 22, 11223-11232.	4.7	22
27	Highly Sensitive Screen Printed Strain Gauge for Micro-Strain Detection. , 2019, , .		19
28	An Auto-Calibrated Resistive Measurement System With Low Noise Instrumentation ASIC. IEEE Journal of Solid-State Circuits, 2020, 55, 3036-3050.	5.4	19
29	Design, Simulation and Fabrication of A Novel MEMS Based Pulsometer. Proceedings (mdpi), 2018, 2, .	0.2	18
30	Impact of Different Ratios of Fluorine, Oxygen, and Hydroxyl Surface Terminations on Ti3C2T<inf>x</inf> MXene as Ammonia Sensor: A First-Principles Study. , 2018, , .		18
31	Surface Free Energy Estimation: A New Methodology for Solid Surfaces. Advanced Materials Interfaces, 2020, 7, 1901570.	3.7	18
32	Eutectic Ga-In liquid metal based flexible capacitive pressure sensor. , 2016, , .		14
33	Development of a Flexible Force Sensor using Additive Print Manufacturing Process. , 2019, , .		14
34	Development of a novel wrinkle-structure based SERS substrate for drug detection applications. Sensing and Bio-Sensing Research, 2019, 24, 100281.	4.2	14
35	Incorporating a Novel Hexaazatriphenylene Derivative to a Flexible Screen-Printed Electrochemical Sensor for Copper Ion Detection in Water Samples. IEEE Sensors Journal, 2020, 20, 12582-12591.	4.7	14
36	P1FW.5 - A Fully Printed CNT Based Humidity Sensor on Flexible PET Substrate. , 2018, , .		14

#	Article	IF	Citations
37	Novel Screen Printed Flexible Magnetoelectric Thin Film Sensor. Procedia Engineering, 2016, 168, 684-687.	1.2	13
38	Development of a printed impedance based electrochemical sensor on paper substrate. , 2016, , .		13
39	Nickel Based Printed Resistance Temperature Detector on Flexible Polyimide Substrate. , 2018, , .		12
40	Synthesis of a novel hexaazatriphenylene derivative for the selective detection of copper ions in aqueous solution. RSC Advances, 2019, 9, 39824-39833.	3.6	12
41	A Flexible Copper Based Electrochemical Sensor Using Laser-Assisted Patterning Process. , 2018, , .		11
42	Development of a Fluorinated Graphene-Based Flexible Humidity Sensor. , 2019, , .		11
43	Laser-Assisted Patterning of a Flexible Microplasma Discharge Device for Heavy Metal and Salt Detection in Ambient Air. , 2019, , .		10
44	A Screen-Printed Nickel Based Resistance Temperature Detector (RTD) on Thin Ceramic Substrate. , 2020, , .		10
45	Investigating the Impact of Thickness, Calendering and Channel Structures of Printed Electrodes on the Energy Density of LIBs - 3D Simulation and Validation. , 2021, , .		10
46	Development of screen printed electrochemical sensors for selective detection of heavy metals. , 2015, , .		8
47	Laser-Assisted Fabrication of Flexible Micro-Structured Pressure Sensor for Low Pressure Applications. , 2019, , .		8
48	Development of a Zn/MnO2 Based Flexible Battery. , 2021, , .		8
49	Development of a Novel Wireless Multi-Channel Stethograph System for Monitoring Cardiovascular and Cardiopulmonary Diseases. IEEE Access, 2021, 9, 128951-128964.	4.2	7
50	Development of a Flexible and Wireless ECG Monitoring Device. , 2020, , .		6
51	Effect of Excitation Signal Frequency on the Electrical Response of a MWCNT/HEC Composite Based Humidity Sensor. , 2020, , .		5
52	Digital Signal Processing and Analysis of Cardiopulmonary Audio Using a Multi-Channel Stethograph System. , 2018, , .		3
53	Flexible Microplasma Discharge Device for Treating Burn Wound Injuries Against Fungal Infections. , 2022, , .		3
54	A Modeling Approach for Optimization of Printed NMC622 Cathode for Capacity Density Improvement under Fast Charging Condition- 3D Simulation and Experimental Validation. , 2022, , .		3

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55	Rapid prototyping of a flexible microfluidic sensing system using inkjet and screen printing processes. , 2015, , .		2
56	ME.4 - Flexible Microplasma Discharge Device for the Detection of Biochemicals. , 2018, , .		2
57	Laser Ablated Microplasma Discharge Device for Inactivating Bacteria Suspended in Liquid Media. IEEE Sensors Journal, 2023, 23, 24020-24029.	4.7	2
58	Development of a Flexible and Conformable EEG Sensors Using 3D Printing Process. , 2021, , .		2
59	In-Vitro Analysis of Thin-Film Microplasma Discharge Devices for Surface Sterilization. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 820-828.	3.7	2
60	2-D Finite-Element Modeling of Surface Dielectric Barrier Plasma Discharge Devices to Understand the Influence of Design Parameters on Sterilization Applications. IEEE Transactions on Plasma Science, 2022, 50, 841-852.	1.3	2
61	A Gravure Printed Flexible Electrochemical Sensor for the Detection of Heavy Metal Compounds. Proceedings (mdpi), 2018, 2, .	0.2	1
62	Designing and Development of a Handheld Portable Electrochemical Analyzer for Flexible Hybrid Electronics. , 2021, , .		1
63	Flexible and Portable Electrochemical System for the Detection of Analytes. , 2021, , .		1
64	A Novel and Flexible Microplasma Discharge Device for Inactivating Pathogens Suspended in Fluids. , 2021, , .		1
65	Inactivation of B. subtilis Spores Using Flexible Microplasma Discharge Device. , 2021, , .		1
66	A Fully Flexible Handheld Wireless Estrogen Sensing Device. , 2022, , .		1
67	Detection of heavy metal ions using screen printed wireless LC sensor. , 2015, , .		0
68	Development Of A Flexible Printed Battery. , 2021, , .		0