

Dinesh Maddipatla

List of Publications by Year in descending order

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68
papers

1,690
citations

304743

22
h-index

377865

34
g-index

69
all docs

69
docs citations

69
times ranked

1068
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser Ablated Microplasma Discharge Device for Inactivating Bacteria Suspended in Liquid Media. IEEE Sensors Journal, 2023, 23, 24020-24029.	4.7	2
2	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
3	<i>In-Vitro</i> 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
4	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
5	A Fully Flexible Handheld Wireless Estrogen Sensing Device. , 2022, , .		1
6	Flexible Microplasma Discharge Device for Treating Burn Wound Injuries Against Fungal Infections. , 2022, , .		3
7	A Modeling Approach for Optimization of Printed NMC622 Cathode for Capacity Density Improvement under Fast Charging Condition- 3D Simulation and Experimental Validation. , 2022, , .		3
8	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
9	Highly Sensitive Porous PDMS-Based Capacitive Pressure Sensors Fabricated on Fabric Platform for Wearable Applications. ACS Sensors, 2021, 6, 938-949.	7.8	125
10	Development Of A Flexible Printed Battery. , 2021, , .		0
11	Designing and Development of a Handheld Portable Electrochemical Analyzer for Flexible Hybrid Electronics. , 2021, , .		1
12	Flexible and Portable Electrochemical System for the Detection of Analytes. , 2021, , .		1
13	A Novel and Flexible Microplasma Discharge Device for Inactivating Pathogens Suspended in Fluids. , 2021, , .		1
14	Lignin-Derived Carbon-Coated Functional Paper for Printed Electronics. ACS Applied Electronic Materials, 2021, 3, 3904-3914.	4.3	25
15	Development of a PPG Sensor Array as a Wearable Device for Monitoring Cardiovascular Metrics. IEEE Sensors Journal, 2021, 21, 26320-26327.	4.7	22
16	Development of a Novel Wireless Multi-Channel Stethograph System for Monitoring Cardiovascular and Cardiopulmonary Diseases. IEEE Access, 2021, 9, 128951-128964.	4.2	7
17	Development of a Zn/MnO ₂ Based Flexible Battery. , 2021, , .		8
18	Inactivation of B. subtilis Spores Using Flexible Microplasma Discharge Device. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
19	Investigating the Impact of Thickness, Calendering and Channel Structures of Printed Electrodes on the Energy Density of LIBs - 3D Simulation and Validation. , 2021, , .		10
20	Development of a Flexible and Conformable EEG Sensors Using 3D Printing Process. , 2021, , .		2
21	Screen-Printed Strain Gauge for Micro-Strain Detection Applications. IEEE Sensors Journal, 2020, 20, 12652-12660.	4.7	35
22	A Screen-Printed Nickel Based Resistance Temperature Detector (RTD) on Thin Ceramic Substrate. , 2020, , .		10
23	An Auto-Calibrated Resistive Measurement System With Low Noise Instrumentation ASIC. IEEE Journal of Solid-State Circuits, 2020, 55, 3036-3050.	5.4	19
24	A Polyimide Based Force Sensor Fabricated Using Additive Screen-Printing Process for Flexible Electronics. IEEE Access, 2020, 8, 207813-207821.	4.2	34
25	Recent Progress in Manufacturing Techniques of Printed and Flexible Sensors: A Review. Biosensors, 2020, 10, 199.	4.7	87
26	Integrated sensing and delivery of oxygen for next-generation smart wound dressings. Microsystems and Nanoengineering, 2020, 6, 46.	7.0	96
27	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
28	Printed Carbon Nanotubes-Based Flexible Resistive Humidity Sensor. IEEE Sensors Journal, 2020, 20, 12592-12601.	4.7	86
29	Surface Free Energy Estimation: A New Methodology for Solid Surfaces. Advanced Materials Interfaces, 2020, 7, 1901570.	3.7	18
30	Development of a Fluorinated Graphene-Based Resistive Humidity Sensor. IEEE Sensors Journal, 2020, 20, 7517-7524.	4.7	37
31	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
32	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
33	Effect of Excitation Signal Frequency on the Electrical Response of a MWCNT/HEC Composite Based Humidity Sensor. , 2020, , .		5
34	Development of a Flexible and Wireless ECG Monitoring Device. , 2020, , .		6
35	Novel Printed Carbon Nanotubes Based Resistive Humidity Sensors. , 2019, , .		26
36	Laser-Assisted Patterning of a Flexible Microplasma Discharge Device for Heavy Metal and Salt Detection in Ambient Air. , 2019, , .		10

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37	Development of a Flexible Force Sensor using Additive Print Manufacturing Process. , 2019, , .		14
38	Laser-Assisted Fabrication of Flexible Micro-Structured Pressure Sensor for Low Pressure Applications. , 2019, , .		8
39	Development of a Fluorinated Graphene-Based Flexible Humidity Sensor. , 2019, , .		11
40	Highly Sensitive Screen Printed Strain Gauge for Micro-Strain Detection. , 2019, , .		19
41	Rapid prototyping of a novel and flexible paper based oxygen sensing patch via additive inkjet printing process. RSC Advances, 2019, 9, 22695-22704.	3.6	30
42	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
43	Development of a novel wrinkle-structure based SERS substrate for drug detection applications. Sensing and Bio-Sensing Research, 2019, 24, 100281.	4.2	14
44	Nickel Based RTD Fabricated via Additive Screen Printing Process for Flexible Electronics. IEEE Access, 2019, 7, 37518-37527.	4.2	28
45	A Flexible Triboelectric Nanogenerator Fabricated Using Laser-Assisted Patterning Process. , 2019, , .		23
46	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
47	Flexible Capacitive Pressure Sensor Based on PDMS Substrate and Gallium in Liquid Metal. IEEE Sensors Journal, 2019, 19, 97-104.	4.7	60
48	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
49	Design, Simulation and Fabrication of A Novel MEMS Based Pulsometer. Proceedings (mdpi), 2018, 2, .	0.2	18
50	Nickel Based Printed Resistance Temperature Detector on Flexible Polyimide Substrate. , 2018, , .		12
51	A Flexible Copper Based Electrochemical Sensor Using Laser-Assisted Patterning Process. , 2018, , .		11
52	A Gravure Printed Flexible Electrochemical Sensor for the Detection of Heavy Metal Compounds. Proceedings (mdpi), 2018, 2, .	0.2	1
53	Digital Signal Processing and Analysis of Cardiopulmonary Audio Using a Multi-Channel Stethograph System. , 2018, , .		3
54	Impact of Different Ratios of Fluorine, Oxygen, and Hydroxyl Surface Terminations on Ti ₃ C ₂ T _x MXene as Ammonia Sensor: A First-Principles Study. , 2018, , .		18

#	ARTICLE	IF	CITATIONS
55	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
56	A carbon nanotube based NTC thermistor using additive print manufacturing processes. Sensors and Actuators A: Physical, 2018, 279, 1-9.	4.1	108
57	P1FW.5 - A Fully Printed CNT Based Humidity Sensor on Flexible PET Substrate. , 2018, , .		14
58	ME.4 - Flexible Microplasma Discharge Device for the Detection of Biochemicals. , 2018, , .		2
59	Development of a novel carbon nanotube based printed and flexible pressure sensor. , 2017, , .		64
60	A screen printed and flexible piezoelectric-based AC magnetic field sensor. Sensors and Actuators A: Physical, 2017, 268, 1-8.	4.1	26
61	Eutectic Ga-In liquid metal based flexible capacitive pressure sensor. , 2016, , .		14
62	Novel Screen Printed Flexible Magnetolectric Thin Film Sensor. Procedia Engineering, 2016, 168, 684-687.	1.2	13
63	Development of a printed impedance based electrochemical sensor on paper substrate. , 2016, , .		13
64	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
65	Detection of heavy metal ions using screen printed wireless LC sensor. , 2015, , .		0
66	Development of screen printed electrochemical sensors for selective detection of heavy metals. , 2015, , .		8
67	A novel flexographic printed strain gauge on paper platform. , 2015, , .		28
68	Rapid prototyping of a flexible microfluidic sensing system using inkjet and screen printing processes. , 2015, , .		2