

# Sharmistha Bhadra

## List of Publications by Year in descending order

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59  
papers

824  
citations

623734

14  
h-index

552781

26  
g-index

59  
all docs

59  
docs citations

59  
times ranked

880  
citing authors

#	ARTICLE	IF	CITATIONS
1	Piezoelectric Polymer and Paper Substrates: A Review. <i>Sensors</i> , 2018, 18, 3605.	3.8	194
2	A Wireless Passive Sensor for Temperature Compensated Remote pH Monitoring. <i>IEEE Sensors Journal</i> , 2013, 13, 2428-2436.	4.7	65
3	Wireless Passive Sensors for Food Quality Monitoring: Improving the Safety of Food Products. <i>IEEE Antennas and Propagation Magazine</i> , 2020, 62, 76-89.	1.4	52
4	Non-destructive detection of fish spoilage using a wireless basic volatile sensor. <i>Talanta</i> , 2015, 134, 718-723.	5.5	51
5	Flexible Piezoelectric PZT-PDMS Thin Film for Tactile Sensing. <i>IEEE Sensors Journal</i> , 2020, 20, 4610-4617.	4.7	45
6	A Robust Fusion Method for Motion Artifacts Reduction in Photoplethysmography Signal. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 9599-9608.	4.7	34
7	Monitoring acidic and basic volatile concentration using a pH-electrode based wireless passive sensor. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 803-810.	7.8	33
8	Locally Strong-Coupled Microwave Resonator Using PEMC Boundary for Distant Sensing Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019, 67, 4130-4139.	4.6	33
9	Corrosion Potential Sensor for Remote Monitoring of Civil Structure Based on Printed Circuit Board Sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014, 63, 2422-2431.	4.7	29
10	Fluid Embeddable Coupled Coil Sensor for Wireless pH Monitoring in a Bioreactor. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014, 63, 1337-1346.	4.7	23
11	Electrode Potential-Based Coupled Coil Sensor for Remote pH Monitoring. <i>IEEE Sensors Journal</i> , 2011, 11, 2813-2819.	4.7	22
12	A wireless embedded passive sensor for monitoring the corrosion potential of reinforcing steel. <i>Smart Materials and Structures</i> , 2013, 22, 075019.	3.5	22
13	A 3-bit fully inkjet-printed flexible chipless RFID for wireless concentration measurements of liquid solutions. <i>Sensors and Actuators A: Physical</i> , 2019, 299, 111581.	4.1	20
14	Ultrasound Sensors for Diaphragm Motion Tracking: An Application in Non-Invasive Respiratory Monitoring. <i>Sensors</i> , 2018, 18, 2617.	3.8	19
15	A Continuous Respiratory Monitoring System Using Ultrasound Piezo Transducer. , 2018, , .		16
16	Smart Mandibular Advancement Device for Intraoral Monitoring of Cardiorespiratory Parameters and Sleeping Postures. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2021, 15, 248-258.	4.0	12
17	A Smart Mandibular Advancement Device for Intraoral Cardiorespiratory Monitoring. , 2020, 2020, 4079-4084.		11
18	An Ultrasound-Based Biomedical System for Continuous Cardiopulmonary Monitoring: A Single Sensor for Multiple Information. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 268-276.	4.2	10

#	ARTICLE	IF	CITATIONS
19	Multiresonator-Based Printable Chipless RFID for Relative Humidity Sensing. Proceedings (mdpi), 2017, 1, .	0.2	9
20	Printed Acoustic Sensor for Low Concentration Volatile Organic Compound Monitoring. IEEE Sensors Journal, 2021, 21, 9808-9818.	4.7	9
21	A Lightweight Flexible Wireless Electrooculogram Monitoring System With Printed Gold Electrodes. IEEE Sensors Journal, 2021, 21, 20931-20942.	4.7	9
22	Wireless passive sensor for pH monitoring inside a small bioreactor. , 2013, , .		8
23	Design and Development of a Wristband for Continuous Vital Signs Monitoring of COVID-19 Patients. , 2021, 2021, 6845-6850.		8
24	A Flexible Printed Chipless RFID Tag for Concentration Measurements of Liquid Solutions. , 2019, , .		7
25	Motion Artifact Reduction for Respiratory Monitoring: A Multichannel Ultrasound Sensor for Diaphragm Tracking. IEEE Sensors Journal, 2020, 20, 6872-6880.	4.7	7
26	Plasma Treatment of Composite Piezoelectric Thin Films for Good Adhesion of Printed Conductive Ink. ACS Applied Polymer Materials, 2021, 3, 319-328.	4.4	7
27	Near field chipless tag for food quality monitoring. , 2014, , .		6
28	Measurement of Cardiac Parameters by Motion Artifacts Free Photoplethysmography Signals. , 2020, , .		6
29	0-3 Barium Titanate-PDMS Flexible Film for Tactile Sensing. , 2020, , .		5
30	An embedded inductively coupled printed circuit board based corrosion potential sensor. , 2013, , .		4
31	A Wireless Flexible Electrooculogram Monitoring System With Printed Electrodes. , 2021, , .		4
32	Temperature compensated differential acoustic sensor for CO <sub>2</sub> sensing. Measurement Science and Technology, 2021, 32, 105103.	2.6	4
33	Printed Polymer based Acoustic Sensor for Temperature Monitoring. , 2020, , .		4
34	Flexible Printed Capacitive Force Sensors Based Beehive Weight Monitoring System. , 2019, , .		4
35	Efficient and Easy to Fabricate Silicon-Based Planar Micro-Coils for Wireless Power Transfer Applications. IEEE Sensors Journal, 2022, 22, 1980-1989.	4.7	4
36	A Flexible Wearable Electrooculogram System With Motion Artifacts Sensing and Reduction. IEEE Transactions on Biomedical Circuits and Systems, 2022, 16, 324-335.	4.0	4

#	ARTICLE	IF	CITATIONS
37	Polymer based thickness shear mode acoustic resonator for sensing of fluid complex shear modulus. , 2017, , .		3
38	A Piezo Transducer Based Flexible Hybrid Sensor for Health Monitoring. , 2018, , .		3
39	Design of a 5-Bit Current Steering DAC for Driving High Forward Voltage LEDs. , 2021, , .		3
40	A Printed LC Resonator-Based Flexible RFID for Remote Potassium Ion Detection. , 2022, 1, 47-57.		3
41	Wireless Passive Sensor for Remote pH Monitoring. Journal of Nanotechnology in Engineering and Medicine, 2011, 2, .	0.8	2
42	Ultrasound Based Respiratory Monitoring Evaluation Under Human Body Motions. , 2018, , .		2
43	Modified Clark Microsensors With Enhanced Sensing Current. IEEE Sensors Journal, 2020, 20, 12117-12126.	4.7	2
44	Fully Flexible Organic LED Fabricated by a Solution-based Process. , 2022, , .		2
45	An inductively coupled passive tag for remote basic volatile sensing. , 2014, , .		1
46	Near-field coupled RFID tag for carbon dioxide concentration sensing. , 2015, , .		1
47	A Flexible Printed Complementary Split-Ring Resonator Based Chipless RFID. , 2018, , .		1
48	A 4-Channel Piezo Transducer Based Flexible Hybrid Sensor for Respiratory Monitoring. , 2019, , .		1
49	A wireless volatile organic absorption pH sensor using a mixed metal oxide electrode. , 2013, , .		0
50	Stacked coupled-coil approach for multi-parameter passive wireless sensing. , 2016, , .		0
51	“3 Polymer/Barium Titanate Nano Structures Based Flexible Piezoelectric Film. , 2018, , .		0
52	A Fully Inkjet-Printed Flexible Microwave Multiresonator Circuit for Concentration Measurements of Liquid Solutions. , 2019, , .		0
53	Flexible BaTiO <sub>3</sub> -PDMS Composite Thin Films for Sensing Applications. , 2019, , .		0
54	Oral Cavity Pressure Measurement-based Respiratory Monitoring System with Reduced Susceptibility to Motion Artifacts. , 2020, 2020, 5900-5904.		0

#	ARTICLE	IF	CITATIONS
55	Development of a Clark Microsensor for Low Concentration Dissolved Oxygen Monitoring. , 2020, , .		0
56	Dissolved Oxygen MEMS Sensor With Enhanced Sensing Current. , 2020, 4, 1-4.		0
57	Multi-level Motion Artifacts Reduction in Photoplethysmography Signal Using Singular Value Decomposition. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 12-22.	0.3	0
58	Intraoral Monitoring of Photoplethysmogram Signal to Estimate Cardiorespiratory Parameters. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 23-33.	0.3	0
59	PZT-PDMS based Printed Acoustic Sensor for CO2 Sensing. , 2021, , .		0