

# Sc Mukhopadhyay

## List of Publications by Citations

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299  
papers

7,867  
citations

47  
h-index

80  
g-index

331  
ext. papers

9,914  
ext. citations

2.9  
avg, IF

7.13  
L-index

#	Paper	IF	Citations
299	Wearable Sensors for Human Activity Monitoring: A Review. <i>IEEE Sensors Journal</i> , <b>2015</b> , 15, 1321-1330	4	781
298	Towards the Implementation of IoT for Environmental Condition Monitoring in Homes. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 3846-3853	4	460
297	Graphene and its sensor-based applications: A review. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 270, 177-194	3.9	308
296	Wearable Flexible Sensors: A Review. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 3949-3960	4	259
295	Wireless Sensor Network Based Home Monitoring System for Wellness Determination of Elderly. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 1965-1972	4	242
294	WSN- and IOT-Based Smart Homes and Their Extension to Smart Buildings. <i>Sensors</i> , <b>2015</b> , 15, 10350-79	3.8	209
293	Forecasting the behavior of an elderly using wireless sensors data in a smart home. <i>Engineering Applications of Artificial Intelligence</i> , <b>2013</b> , 26, 2641-2652	7.2	179
292	A Zigbee-Based Wearable Physiological Parameters Monitoring System. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 423-430	4	165
291	WSN-Based Smart Sensors and Actuator for Power Management in Intelligent Buildings. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2015</b> , 20, 564-571	5.5	110
290	Carbon nanotubes and its gas-sensing applications: A review. <i>Sensors and Actuators A: Physical</i> , <b>2019</b> , 291, 107-143	3.9	109
289	Heartbeats Based Biometric Random Binary Sequences Generation to Secure Wireless Body Sensor Networks. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2018</b> , 65, 2751-2759	5	99
288	A Novel Secure IoT-Based Smart Home Automation System Using a Wireless Sensor Network. <i>Sensors</i> , <b>2016</b> , 17,	3.8	97
287	A Smart Power Meter to Monitor Energy Flow in Smart Grids: The Role of Advanced Sensing and IoT in the Electric Grid of the Future. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 7828-7837	4	96
286	Multiinput DCDC converters in renewable energy applications [An overview. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 41, 521-539	16.2	94
285	Optimization of signal quality over comfortability of textile electrodes for ECG monitoring in fog computing based medical applications. <i>Future Generation Computer Systems</i> , <b>2018</b> , 86, 515-526	7.5	88
284	Wireless sensors network based safe home to care elderly people: Behaviour detection. <i>Sensors and Actuators A: Physical</i> , <b>2012</b> , 186, 277-283	3.9	87
283	Detection Methodologies for Pathogen and Toxins: A Review. <i>Sensors</i> , <b>2017</b> , 17,	3.8	81

282	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 7333-7341	8.9	80
281	Determining Wellness through an Ambient Assisted Living Environment. <i>IEEE Intelligent Systems</i> , <b>2014</b> , 29, 30-37	4.2	77
280	Advances on Sensing Technologies for Smart Cities and Power Grids: A Review. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 7596-7610	4	77
279	Technique for rapid detection of phthalates in water and beverages. <i>Journal of Food Engineering</i> , <b>2013</b> , 116, 515-523	6	73
278	A Novel Planar-Type Biosensor for Noninvasive Meat Inspection. <i>IEEE Sensors Journal</i> , <b>2007</b> , 7, 1340-1346	4	71
277	Flexible carbon nanotube nanocomposite sensor for multiple physiological parameter monitoring. <i>Sensors and Actuators A: Physical</i> , <b>2016</b> , 251, 148-155	3.9	68
276	An Efficient Biometric-Based Algorithm Using Heart Rate Variability for Securing Body Sensor Networks. <i>Sensors</i> , <b>2015</b> , 15, 15067-89	3.8	68
275	Elder Care Based on Cognitive Sensor Network. <i>IEEE Sensors Journal</i> , <b>2011</b> , 11, 574-581	4	67
274	Assessment of Biofeedback Training for Emotion Management Through Wearable Textile Physiological Monitoring System. <i>IEEE Sensors Journal</i> , <b>2015</b> , 15, 7087-7095	4	66
273	Wellness Sensor Networks: A Proposal and Implementation for Smart Home for Assisted Living. <i>IEEE Sensors Journal</i> , <b>2015</b> , 15, 7341-7348	4	65
272	Novel Planar Electromagnetic Sensors for Detection of Nitrates and Contamination in Natural Water Sources. <i>IEEE Sensors Journal</i> , <b>2011</b> , 11, 1440-1447	4	64
271	An Internet-of-Things Enabled Smart Sensing System for Nitrate Monitoring. <i>IEEE Internet of Things Journal</i> , <b>2018</b> , 5, 4409-4417	10.7	62
270	Sensing system for salinity testing using laser-induced graphene sensors. <i>Sensors and Actuators A: Physical</i> , <b>2017</b> , 264, 107-116	3.9	62
269	A temperature-compensated graphene sensor for nitrate monitoring in real-time application. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 269, 79-90	3.9	62
268	Strain induced graphite/PDMS sensors for biomedical applications. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 271, 257-269	3.9	60
267	3D printed mould-based graphite/PDMS sensor for low-force applications. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 280, 525-534	3.9	60
266	Quantitative Assessment for Self-Tracking of Acute Stress Based on Triangulation Principle in a Wearable Sensor System. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2019</b> , 23, 703-713	7.2	56
265	Detection of bacterial endotoxin in food: New planar interdigital sensors based approach. <i>Journal of Food Engineering</i> , <b>2013</b> , 114, 346-360	6	56

264	Smart Sensors and Internet of Things: A Postgraduate Paper. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 577-584	4	55
263	Efficient Coverage and Connectivity Preservation With Load Balance for Wireless Sensor Networks. <i>IEEE Sensors Journal</i> , <b>2015</b> , 15, 48-62	4	54
262	Rapid and molecular selective electrochemical sensing of phthalates in aqueous solution. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 67, 342-9	11.8	54
261	Field Trials and Performance Monitoring of Distributed Solar Panels Using a Low-Cost Wireless Sensors Network for Domestic Applications. <i>IEEE Sensors Journal</i> , <b>2011</b> , 11, 2583-2590	4	52
260	A low cost novel sensing system for detection of dangerous marine biotoxins in seafood. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 137, 67-75	8.5	52
259	Master-Slave Control of a Teleoperated Anthropomorphic Robotic Arm With Gripping Force Sensing. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2006</b> , 55, 2136-2145	5.2	52
258	Detection methods of nitrate in water: A review. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 280, 210-221	3.9	51
257	Sensing, Controlling, and IoT Infrastructure in Smart Building: A Review. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 9036-9046	4	50
256	Fire Sensing Technologies: A Review. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 3191-3202	4	49
255	A low-cost sensing system for quality monitoring of dairy products. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2006</b> , 55, 1331-1338	5.2	49
254	Novel Sensing Approach for LPG Leakage Detection: Part I Operating Mechanism and Preliminary Results. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 996-1003	4	47
253	Tactile Sensing From Laser-Ablated Metallized PET Films. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 7-13	4	47
252	Silicon-Based Sensors for Biomedical Applications: A Review. <i>Sensors</i> , <b>2019</b> , 19,	3.8	46
251	. <i>IEEE Sensors Journal</i> , <b>2014</b> , 14, 3955-3970	4	46
250	IoT-based sensing system for phosphate detection using Graphite/PDMS sensors. <i>Sensors and Actuators A: Physical</i> , <b>2019</b> , 286, 43-50	3.9	45
249	Security Requirements for the Internet of Things: A Systematic Approach. <i>Sensors</i> , <b>2020</b> , 20,	3.8	43
248	MEMS based IMU for tilting measurement: Comparison of complementary and kalman filter based data fusion <b>2015</b> ,		42
247	Assessment of pelt quality in leather making using a novel non-invasive sensing approach. <i>Journal of Proteomics</i> , <b>2008</b> , 70, 809-15		42

246	Imprinted polymer coated impedimetric nitrate sensor for real-time water quality monitoring. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 259, 753-761	8.5	41
245	Novel Planar Electromagnetic Sensors: Modeling and Performance Evaluation. <i>Sensors</i> , <b>2005</b> , 5, 546-579	3.8	38
244	. <i>IEEE Transactions on Magnetics</i> , <b>1997</b> , 33, 3376-3378	2	37
243	Context-aware low power intelligent SmartHome based on the Internet of things. <i>Computers and Electrical Engineering</i> , <b>2016</b> , 52, 208-222	4.3	37
242	Fabrication and implementation of printed sensors for taste sensing applications. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 269, 53-61	3.9	37
241	Three-Step Two-Way Decode and Forward Relay With Energy Harvesting. <i>IEEE Communications Letters</i> , <b>2017</b> , 21, 857-860	3.8	36
240	IoT Enabled Intelligent Sensor Node for Smart City: Pedestrian Counting and Ambient Monitoring. <i>Sensors</i> , <b>2019</b> , 19,	3.8	35
239	Multifunctional Flexible Sensor Based on Laser-Induced Graphene. <i>Sensors</i> , <b>2019</b> , 19,	3.8	35
238	A Transparent Strain Sensor Based on PDMS-Embedded Conductive Fabric for Wearable Sensing Applications. <i>IEEE Access</i> , <b>2018</b> , 6, 71020-71027	3.5	35
237	Modeling and control of a new horizontal-shaft hybrid-type magnetic bearing. <i>IEEE Transactions on Industrial Electronics</i> , <b>2000</b> , 47, 100-108	8.9	34
236	Laser-Assisted Printed Flexible Sensors: A Review. <i>Sensors</i> , <b>2019</b> , 19,	3.8	32
235	. <i>IEEE Sensors Journal</i> , <b>2011</b> , 11, 2957-2965	4	32
234	Novel Sensing Approach for LPG Leakage Detection Part II: Effects of Particle Size, Composition, and Coating Layer Thickness. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 1088-1094	4	31
233	Saxophone Reed Inspection Employing Planar Electromagnetic Sensors. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2007</b> , 56, 2492-2503	5.2	31
232	. <i>IEEE Sensors Journal</i> , <b>2007</b> , 7, 401-408	4	31
231	Smart Aging System: Uncovering the Hidden Wellness Parameter for Well-Being Monitoring and Anomaly Detection. <i>Sensors</i> , <b>2019</b> , 19,	3.8	31
230	Sensing Technologies for Monitoring Intelligent Buildings: A Review. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 4847-4860	3.0	30
229	A novel planar mesh-type microelectromagnetic sensor. Part II. Estimation of system properties. <i>IEEE Sensors Journal</i> , <b>2004</b> , 4, 308-312	4	30

228	A review on fabrication, characterization and implementation of wearable strain sensors. <i>Sensors and Actuators A: Physical</i> , <b>2020</b> , 315, 112355	3.9	30
227	Development of IoT-Based Impedometric Biosensor for Point-of-Care Monitoring of Bone Loss. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , <b>2018</b> , 8, 211-220	5.2	28
226	Finger-to-Heart (F2H): Authentication for Wireless Implantable Medical Devices. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2019</b> , 23, 1546-1557	7.2	28
225	Occupancy Detection at Smart Home Using Real-Time Dynamic Thresholding of Flexiforce Sensor. <i>IEEE Sensors Journal</i> , <b>2015</b> , 15, 4457-4463	4	28
224	Review-Microwave Radar Sensing Systems for Search and Rescue Purposes. <i>Sensors</i> , <b>2019</b> , 19,	3.8	27
223	Intelligent Sensing Systems for Measuring Wellness Indices of the Daily Activities for the Elderly <b>2012</b> ,		27
222	A novel planar mesh-type microelectromagnetic sensor. Part I. Model formulation. <i>IEEE Sensors Journal</i> , <b>2004</b> , 4, 301-307	4	27
221	Fabrication of a repulsive-type magnetic bearing using a novel arrangement of permanent magnets for vertical-rotor suspension. <i>IEEE Transactions on Magnetics</i> , <b>2003</b> , 39, 3220-3222	2	27
220	Performance of repulsive type magnetic bearing system under nonuniform magnetization of permanent magnet. <i>IEEE Transactions on Magnetics</i> , <b>2000</b> , 36, 3696-3698	2	27
219	Decoding EEG Rhythms During Action Observation, Motor Imagery, and Execution for Standing and Sitting. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 13776-13786	4	27
218	Planar Electromagnetic Sensor Based Estimation of Nitrate Contamination in Water Sources Using Independent Component Analysis. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 2024-2034	4	26
217	Development of passive fault current limiter in parallel biasing mode. <i>IEEE Transactions on Magnetics</i> , <b>1999</b> , 35, 3523-3525	2	26
216	Molecularly Imprinted Polymer-Based Electrochemical Biosensor for Bone Loss Detection. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2018</b> , 65, 1264-1271	5	26
215	Issues and mitigation of interference, attenuation and direction of arrival in IEEE 802.15.4/ZigBee to wireless sensors and networks based smart building. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2016</b> , 86, 209-226	4.6	25
214	Mechanism and Experiment of Planar Electrode Sensors in Water Pollutant Measurement. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2015</b> , 64, 516-523	5.2	24
213	Towards the smart sensors based human emotion recognition <b>2012</b> ,		24
212	A novel compact magnetic current limiter for three phase applications. <i>IEEE Transactions on Magnetics</i> , <b>2000</b> , 36, 3568-3570	2	24
211	Long-range wireless technologies for IoT applications: A review <b>2017</b> ,		23

210	. <i>IEEE Transactions on Magnetics</i> , <b>2005</b> , 41, 3658-3660	2	23
209	Sensor-Driven Achieving of Smart Living: A Review. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 10369-10391	4	23
208	Data aware, low cost error correction for wireless sensor networks		22
207	Quality inspection of electroplated materials using planar type micro-magnetic sensors with post-processing from neural network model. <i>IET Science, Measurement and Technology</i> , <b>2002</b> , 149, 165-171		22
206	Recent Progress in 3D Printed Mold-Based Sensors. <i>Sensors</i> , <b>2020</b> , 20,	3.8	21
205	Performance analysis of flexible printed sensors for robotic arm applications. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 276, 226-236	3.9	21
204	A WiFi based smart wireless sensor network for monitoring an agricultural environment <b>2012</b> ,		21
203	<b>2019</b> ,		21
202	Interdigital sensors: Biomedical, environmental and industrial applications. <i>Sensors and Actuators A: Physical</i> , <b>2020</b> , 305, 111923	3.9	20
201	Novel Planar Interdigital Sensors. <i>Smart Sensors, Measurement and Instrumentation</i> , <b>2014</b> , 11-35	0.3	20
200	A Relaxation Oscillator-Based Transformer Ratio Arm Bridge Circuit for Capacitive Humidity Sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2015</b> , 64, 3414-3422	5.2	19
199	Performance of Coating Materials on Planar Electromagnetic Sensing Array to Detect Water Contamination. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 5244-5251	4	19
198	Multi-Walled Carbon Nanotubes-Based Sensors for Strain Sensing Applications. <i>Sensors</i> , <b>2021</b> , 21,	3.8	19
197	. <i>IEEE Sensors Journal</i> , <b>2015</b> , 15, 3110-3118	4	18
196	Design, analysis and control of a new repulsive-type magnetic bearing system. <i>IET Electric Power Applications</i> , <b>1999</b> , 146, 33		18
195	Graphene Oxide (GO) Coated Impedimetric Gas Sensor for Selective Detection of Carbon Dioxide (CO <sub>2</sub> ) With Temperature and Humidity Compensation. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 4241-4249	4	18
194	Gold/Polyimide-Based Resistive Strain Sensors. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 565	2.6	17
193	Technologies and Applications of Angle Sensors: A Review. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 7195-7206	4	17

192	Potential Applications of Mobile and Wearable Devices for Psychological Support During the COVID-19 Pandemic: A Review. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 7162-7178	4	17
191	SleepPoseNet: Multi-View Learning for Sleep Postural Transition Recognition Using UWB. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2021</b> , 25, 1305-1314	7.2	17
190	Smart Home Anti-Theft System: A Novel Approach for Near Real-Time Monitoring and Smart Home Security for Wellness Protocol. <i>Applied System Innovation</i> , <b>2018</b> , 1, 42	2.4	17
189	Electrochemical detection of calcium and magnesium in water bodies. <i>Sensors and Actuators A: Physical</i> , <b>2020</b> , 305, 111949	3.9	16
188	Sensing technologies for monitoring of bone-health: A review. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 274, 165-178	3.9	16
187	Trial & experimentation of a smart home monitoring system for elderly <b>2011</b> ,		16
186	Smart Sensing System for the Prognostic Monitoring of Bone Health. <i>Sensors</i> , <b>2016</b> , 16,	3.8	16
185	A Critical Analysis of ECG-Based Key Distribution for Securing Wearable and Implantable Medical Devices. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 1186-1198	4	16
184	Intelligent Sensing, Instrumentation and Measurements. <i>Smart Sensors, Measurement and Instrumentation</i> , <b>2013</b> ,	0.3	15
183	Gas sensing materials roadmap. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33,	1.8	15
182	Wavelet Domain Optimized SavitzkyGolay Filter for the Removal of Motion Artifacts From EEG Recordings. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-11	5.2	15
181	Design and development of an IoT-enabled portable phosphate detection system in water for smart agriculture. <i>Sensors and Actuators A: Physical</i> , <b>2021</b> , 330, 112861	3.9	15
180	Artificial Intelligence-based Sensors for Next Generation IoT Applications: A Review. <i>IEEE Sensors Journal</i> , <b>2021</b> , 1-1	4	15
179	Investigation of the performances of a permanent magnet biased fault current limiting reactor with a steel core. <i>IEEE Transactions on Magnetics</i> , <b>1998</b> , 34, 2150-2152	2	14
178	A Review on the Use of Impedimetric Sensors for the Inspection of Food Quality. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	14
177	An IoT-enabled portable sensing system with MWCNTs/PDMS sensor for nitrate detection in water. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2021</b> , 178, 109424	4.6	14
176	Recent Advancement of the Sensors for Monitoring the Water Quality Parameters in Smart Fisheries Farming. <i>Computers</i> , <b>2021</b> , 10, 26	1.9	14
175	. <i>IEEE Access</i> , <b>2019</b> , 7, 40019-40026	3.5	13



174	A 28 GHz Broadband Helical Inspired End-Fire Antenna and Its MIMO Configuration for 5G Pattern Diversity Applications. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 405	2.6	13
173	A Novel High-Resolution Optical Encoder With Axially Stacked Coded Disk for Modular Joints: Physical Modeling and Experimental Validation. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 6001-6008	4	12
172	Planar Electromagnetic Sensors: Characterization, Applications and Experimental Results (Planare elektromagnetische Sensoren: Charakterisierung, Anwendungen und experimentelle Ergebnisse). <i>TM Technisches Messen</i> , <b>2007</b> , 74, 290-297	0.7	12
171	Experimental determination of optimum coil pitch for a planar mesh-type micromagnetic sensor. <i>IEEE Transactions on Magnetics</i> , <b>2002</b> , 38, 3380-3382	2	12
170	Sensors for Sustainable Smart Cities: A Review. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 8198	2.6	12
169	. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 7533-7541	4	11
168	Performance Assessment of Interdigital Sensor for Varied Coating Thicknesses to Detect CTX-I. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 3924-3931	4	11
167	Novel Sensors for Food Inspection: Modelling, Fabrication and Experimentation. <i>Smart Sensors, Measurement and Instrumentation</i> , <b>2014</b> ,	0.3	11
166	Application of independent component analysis for estimating nitrate contamination in natural water sources using planar electromagnetic sensor <b>2011</b> ,		11
165	Model based error correction for wireless sensor networks		11
164	Internet of Things for smart homes and buildings: Opportunities and Challenges. <i>Journal of Telecommunications and the Digital Economy</i> ,3, 33	1.9	11
163	IoT-Associated Impedimetric Biosensing for Point-of-Care Monitoring of Kidney Health. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 14320-14329	4	11
162	A Medical-IoT based Framework for eHealth Care <b>2018</b> ,		11
161	Smart orthopaedic implants: A targeted approach for continuous postoperative evaluation in the spine. <i>Journal of Biomechanics</i> , <b>2020</b> , 104, 109690	2.9	10
160	Improved Capacitive Sensor for Combined Angular and Linear Displacement Sensing. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 10253-10261	4	10
159	SHARING RESEARCH EXPERIENCES OF WSN BASED SMART HOME. <i>International Journal on Smart Sensing and Intelligent Systems</i> , <b>2014</b> , 7, 1997-2013	0.4	10
158	Design and Development of an IoT enabled Pedestrian Counting and Environmental Monitoring System for a Smart City <b>2019</b> ,		10
157	A randomised control trial for measuring student engagement through the Internet of Things and serious games. <i>Internet of Things (Netherlands)</i> , <b>2021</b> , 13, 100332	6.9	10

156	A Novel Robotic Tree Climbing Mechanism With Anti-Falling Functionality for Tree Pruning. <i>Journal of Mechanisms and Robotics</i> , <b>2018</b> , 10,	2.2	9
155	Sensing Technologies for Intelligent Environments: A Review. <i>Smart Sensors, Measurement and Instrumentation</i> , <b>2015</b> , 1-31	0.3	9
154	Wireless sensors network based safe home to care elderly people: A realistic approach <b>2011</b> ,		9
153	A WiFi based smart wireless sensor network for an agricultural environment <b>2011</b> ,		9
152	. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 5239-5248	4	8
151	Design and Modeling of MEMS-Based Trace-Level Moisture Measurement System for GIS Applications in Smart Grid Environment. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 7758-7766	4	8
150	Electromagnetic field computation using COMSOL Multiphysics to evaluate the performance of novel interdigital sensors <b>2009</b> ,		8
149	Disturbance attenuation and H/sup /spl infin// control of repulsive type magnetic bearing. <i>IEEE Transactions on Magnetics</i> , <b>1997</b> , 33, 4233-4235	2	8
148	Practical nitrate sensor based on electrochemical impedance measurement <b>2016</b> ,		8
147	Mussel inspired ZIF8 microcarriers: a new approach for large-scale production of stem cells.. <i>RSC Advances</i> , <b>2020</b> , 10, 20118-20128	3.7	7
146	Intelligent bed sensor system: Design, experimentation and results <b>2010</b> ,		7
145	Investigation on the Effects of Substrate, Back-Gate Bias and Front-Gate Engineering on the Performance of DMTFET-Based Biosensors. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 10405-10414	4	7
144	Impedance Spectroscopy and Experimental Setup. <i>Smart Sensors, Measurement and Instrumentation</i> , <b>2016</b> , 21-37	0.3	7
143	Molecularly Imprinted Polymer-based detection of creatinine towards smart sensing. <i>Medical Devices &amp; Sensors</i> , <b>2020</b> , 3, e10133	1.6	7
142	Recent progress in the fabrication of graphene fibers and their composites for applications of monitoring human activities. <i>Applied Materials Today</i> , <b>2021</b> , 22, 100953	6.6	7
141	Transparent biocompatible sensor patches for touch sensitive prosthetic limbs <b>2016</b> ,		7
140	Electrochemical Sensing: Carcinogens in Beverages. <i>Smart Sensors, Measurement and Instrumentation</i> , <b>2016</b> ,	0.3	7
139	A Self-Adaptive and Wide-Range Conductivity Measurement Method Based on Planar Interdigital Electrode Array. <i>IEEE Access</i> , <b>2019</b> , 7, 173157-173165	3.5	7

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53	Development of Coursework on Studying Fugitive Dust From Construction Site Using Optical-Type Dust Sensor. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 17318-17326	4	1
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14	Projects on IoT Systems. <i>Smart Sensors, Measurement and Instrumentation</i> , <b>2022</b> , 227-279	0.3
13	Design Considerations for IoT Node. <i>Smart Sensors, Measurement and Instrumentation</i> , <b>2022</b> , 35-50	0.3

12	IoT System Design – Project Based Approach. <i>Smart Sensors, Measurement and Instrumentation</i> , <b>2022</b> , 9-33	0.3
11	Programming Raspberry Pi for IoT System. <i>Smart Sensors, Measurement and Instrumentation</i> , <b>2022</b> , 51-79	0.3
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