# Sc Mukhopadhyay

List of Publications by Year
in descending order



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|---|---|---|---|
| 307 papers | 11,706 citations | 25034 57 h-index | 34986 98 g-index |

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|---|---|---|---|
| 331 all docs | 331 docs citations | 331 times ranked | 11176 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Wearable Sensors for Human Activity Monitoring: A Review. IEEE Sensors Journal, 2015, 15, 1321-1330. | 4.7 | 1,066 |
| 2 | Towards the Implementation of IoT for Environmental Condition Monitoring in Homes. IEEE Sensors Journal, 2013, 13, 3846-3853. | 4.7 | 612 |
| 3 | Graphene and its sensor-based applications: A review. Sensors and Actuators A: Physical, 2018, 270, 177-194. | 4.1 | 475 |
| 4 | Wearable Flexible Sensors: A Review. IEEE Sensors Journal, 2017, 17, 3949-3960. | 4.7 | 379 |
| 5 | Wireless Sensor Network Based Home Monitoring System for Wellness Determination of Elderly. IEEE Sensors Journal, 2012, 12, 1965-1972. | 4.7 | 290 |
| 6 | WSN- and IOT-Based Smart Homes and Their Extension to Smart Buildings. Sensors, 2015, 15, 10350-10379. | 3.8 | 286 |
| 7 | A Zigbee-Based Wearable Physiological Parameters Monitoring System. IEEE Sensors Journal, 2012, 12, 423-430. | 4.7 | 223 |
| 8 | Forecasting the behavior of an elderly using wireless sensors data in a smart home. Engineering Applications of Artificial Intelligence, 2013, 26, 2641-2652. | 8.1 | 221 |
| 9 | Carbon nanotubes and its gas-sensing applications: A review. Sensors and Actuators A: Physical, 2019, 291, 107-143. | 4.1 | 190 |
| 10 | 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. IEEE Sensors Journal, 2017, 17, 7828-7837. | 4.7 | 166 |
| 11 | Multiinput DCâ€“DC converters in renewable energy applications â€“ An overview. Renewable and Sustainable Energy Reviews, 2015, 41, 521-539. | 16.4 | 158 |
| 12 | WSN-Based Smart Sensors and Actuator for Power Management in Intelligent Buildings. IEEE/ASME Transactions on Mechatronics, 2015, 20, 564-571. | 5.8 | 156 |
| 13 | A Novel Secure IoT-Based Smart Home Automation System Using a Wireless Sensor Network. Sensors, 2017, 17, 69. | 3.8 | 154 |
| 14 | Advances on Sensing Technologies for Smart Cities and Power Grids: A Review. IEEE Sensors Journal, 2017, 17, 7596-7610. | 4.7 | 136 |
| 15 | Sensing, Controlling, and IoT Infrastructure in Smart Building: A Review. IEEE Sensors Journal, 2019, 19, 9036-9046. | 4.7 | 134 |
| 16 | Detection Methodologies for Pathogen and Toxins: A Review. Sensors, 2017, 17, 1885. | 3.8 | 126 |
| 17 | Heartbeats Based Biometric Random Binary Sequences Generation to Secure Wireless Body Sensor Networks. IEEE Transactions on Biomedical Engineering, 2018, 65, 2751-2759. | 4.2 | 119 |
| 18 | Optimization of signal quality over comfortability of textile electrodes for ECG monitoring in fog computing based medical applications. Future Generation Computer Systems, 2018, 86, 515-526. | 7.5 | 112 |

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| 19 | A Temperature Compensated Smart Nitrate-Sensor for Agricultural Industry. IEEE Transactions on Industrial Electronics, 2017, 64, 7333-7341. | 7.9 | 111 |
| 20 | Fire Sensing Technologies: A Review. IEEE Sensors Journal, 2019, 19, 3191-3202. | 4.7 | 105 |
| 21 | Wireless sensors network based safe home to care elderly people: Behaviour detection. Sensors and Actuators A: Physical, 2012, 186, 277-283. | 4.1 | 94 |
| 22 | Determining Wellness through an Ambient Assisted Living Environment. IEEE Intelligent Systems, 2014, 29, 30-37. | 4.0 | 94 |
| 23 | An Internet-of-Things Enabled Smart Sensing System for Nitrate Monitoring. IEEE Internet of Things Journal, 2018, 5, 4409-4417. | 8.7 | 94 |
| 24 | Flexible carbon nanotube nanocomposite sensor for multiple physiological parameter monitoring. Sensors and Actuators A: Physical, 2016, 251, 148-155. | 4.1 | 90 |
| 25 | Detection methods of nitrate in water: A review. Sensors and Actuators A: Physical, 2018, 280, 210-221. | 4.1 | 90 |
| 26 | Technique for rapid detection of phthalates in water and beverages. Journal of Food Engineering, 2013, 116, 515-523. | 5.2 | 87 |
| 27 | Strain induced graphite/PDMS sensors for biomedical applications. Sensors and Actuators A: Physical, 2018, 271, 257-269. | 4.1 | 87 |
| 28 | 3D printed mould-based graphite/PDMS sensor for low-force applications. Sensors and Actuators A: Physical, 2018, 280, 525-534. | 4.1 | 87 |
| 29 | Wellness Sensor Networks: A Proposal and Implementation for Smart Home for Assisted Living. IEEE Sensors Journal, 2015, 15, 7341-7348. | 4.7 | 86 |
| 30 | MEMS based IMU for tilting measurement: Comparison of complementary and kalman filter based data fusion. , 2015, , . | | 86 |
| 31 | Silicon-Based Sensors for Biomedical Applications: A Review. Sensors, 2019, 19, 2908. | 3.8 | 86 |
| 32 | A temperature-compensated graphene sensor for nitrate monitoring in real-time application. Sensors and Actuators A: Physical, 2018, 269, 79-90. | 4.1 | 85 |
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| 36 | Assessment of Biofeedback Training for Emotion Management Through Wearable Textile Physiological Monitoring System. IEEE Sensors Journal, 2015, 15, 7087-7095. | 4.7 | 82 |

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| 37 | Novel Planar Electromagnetic Sensors for Detection of Nitrates and Contamination in Natural Water Sources. IEEE Sensors Journal, 2011, 11, 1440-1447. | 4.7 | 81 |
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| 40 | A Novel Planar-Type Biosensor for Noninvasive Meat Inspection. IEEE Sensors Journal, 2007, 7, 1340-1346. | 4.7 | 76 |
| 41 | An Efficient Biometric-Based Algorithm Using Heart Rate Variability for Securing Body Sensor Networks. Sensors, 2015, 15, 15067-15089. | 3.8 | 75 |
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| 43 | Field Trials and Performance Monitoring of Distributed Solar Panels Using a Low-Cost Wireless Sensors Network for Domestic Applications. IEEE Sensors Journal, 2011, 11, 2583-2590. | 4.7 | 72 |
| 44 | Quantitative Assessment for Self-Tracking of Acute Stress Based on Triangulation Principle in a Wearable Sensor System. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 703-713. | 6.3 | 72 |
| 45 | Efficient Coverage and Connectivity Preservation With Load Balance for Wireless Sensor Networks. IEEE Sensors Journal, 2015, 15, 48-62. | 4.7 | 68 |
| 46 | Masterâ€“Slave Control of a Teleoperated Anthropomorphic Robotic Arm With Gripping Force Sensing. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 2136-2145. | 4.7 | 66 |
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| 48 | Multifunctional Flexible Sensor Based on Laser-Induced Graphene. Sensors, 2019, 19, 3477. | 3.8 | 66 |
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| 50 | Detection of bacterial endotoxin in food: New planar interdigital sensors based approach. Journal of Food Engineering, 2013, 114, 346-360. | 5.2 | 64 |
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| 84 | Finger-to-Heart (F2H): Authentication for Wireless Implantable Medical Devices. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1546-1557. | 6.3 | 38 |
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| 90 | Data aware, low cost error correction for wireless sensor networks. , 0, , . | | 35 |

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| 107 | Towards Machine Learning Enabled Security Framework for IoT-based Healthcare. , 2019, , . | | 31 |
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| 109 | Wearable Sensors for Healthcare: Fabrication to Application. Sensors, 2022, 22, 5137. | 3.8 | 31 |
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| 112 | Smart Home Anti-Theft System: A Novel Approach for Near Real-Time Monitoring and Smart Home Security for Wellness Protocol. Applied System Innovation, 2018, 1, 42. | 4.6 | 28 |
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| 116 | Electrochemical detection of calcium and magnesium in water bodies. Sensors and Actuators A: Physical, 2020, 305, 111949. | 4.1 | 26 |
| 117 | Design, analysis and control of a new repulsive-type magnetic bearing system. IET Electric Power Applications, 1999, 146, 33. | 1.4 | 25 |
| 118 | Novel Planar Interdigital Sensors. Smart Sensors, Measurement and Instrumentation, 2014, , 11-35. | 0.6 | 25 |
| 119 | Design and development of an IoT-enabled portable phosphate detection system in water for smart agriculture. Sensors and Actuators A: Physical, 2021, 330, 112861. | 4.1 | 25 |
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| 121 | Quality inspection of electroplated materials using planar type micro-magnetic sensors with post-processing from neural network model. IET Science, Measurement and Technology, 2002, 149, 165-171. | 0.7 | 23 |
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| 129 | Model based error correction for wireless sensor networks. , 0, , . | | 19 |
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| 131 | A Medical-IoT based Framework for eHealth Care. , 2018, , . | | 19 |
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