

Abhishek K Jha

List of Publications by Year in descending order

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37
papers

1,112
citations

567281

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677142

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37
all docs

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docs citations

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times ranked

642
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Design and Application of the CSRR-Based Planar Sensor for Noninvasive Measurement of Complex Permittivity. IEEE Sensors Journal, 2015, 15, 7181-7189. | 4.7 | 221 |
| 2 | A Generalized Rectangular Cavity Approach for Determination of Complex Permittivity of Materials. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 2632-2641. | 4.7 | 107 |
| 3 | Multi-Band RF Planar Sensor Using Complementary Split Ring Resonator for Testing of Dielectric Materials. IEEE Sensors Journal, 2018, 18, 6596-6606. | 4.7 | 97 |
| 4 | Improved Planar Resonant RF Sensor for Retrieval of Permittivity and Permeability of Materials. IEEE Sensors Journal, 2017, 17, 5479-5486. | 4.7 | 85 |
| 5 | Design of SRR-Based Microwave Sensor for Characterization of Magnetodielectric Substrates. IEEE Microwave and Wireless Components Letters, 2017, 27, 524-526. | 3.2 | 77 |
| 6 | Design of Microwave-Based Angular Displacement Sensor. IEEE Microwave and Wireless Components Letters, 2019, 29, 306-308. | 3.2 | 72 |
| 7 | A Highly Sensitive Planar Microwave Sensor for Detecting Direction and Angle of Rotation. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1598-1609. | 4.6 | 55 |
| 8 | Design of Multilayered Epsilon-Near-Zero Microwave Planar Sensor for Testing of Dispersive Materials. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2418-2426. | 4.6 | 49 |
| 9 | Broadband Wireless Sensing System for Non-Invasive Testing of Biological Samples. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2018, 8, 251-259. | 3.6 | 45 |
| 10 | A Microwave Sensor With Operating Band Selection to Detect Rotation and Proximity in the Rapid Prototyping Industry. IEEE Transactions on Industrial Electronics, 2021, 68, 683-693. | 7.9 | 40 |
| 11 | Generalized Multimode SIW Cavity-Based Sensor for Retrieval of Complex Permittivity of Materials. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3063-3072. | 4.6 | 38 |
| 12 | An Improved Rectangular Cavity Approach for Measurement of Complex Permeability of Materials. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 995-1003. | 4.7 | 32 |
| 13 | SIW cavity based RF sensor for dielectric characterization of liquids. , 2014, , . | | 21 |
| 14 | Metamaterial-Inspired microwave sensor for measurement of complex permittivity of materials. Microwave and Optical Technology Letters, 2016, 58, 2577-2581. | 1.4 | 20 |
| 15 | Improved Resonator Method for Microwave Testing of Magnetic Composite Sheets. IEEE Transactions on Magnetics, 2015, 51, 1-9. | 2.1 | 17 |
| 16 | Novel Microwave Resonant Technique for Accurate Testing of Magnetic Materials. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 239-248. | 4.6 | 16 |
| 17 | Generalized RF Time-Domain Imaging Technique for Moving Objects on Conveyor Belts in Real Time. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 2536-2546. | 4.6 | 14 |
| 18 | Accurate Microwave Cavity Sensing Technique for Dielectric Testing of Arbitrary Length Samples. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10. | 4.7 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Design of metamaterial based structure for the radar cross section reduction of a microstrip antenna. , 2014, , . | | 11 |
| 20 | Design of coplanar dual band resonator sensor for microwave characterization of dispersive liquids. , 2015, , . | | 10 |
| 21 | Design of microwave ENZ sensor for contamination detection in liquids using SIW technology. , 2014, , . | | 9 |
| 22 | Permittivity measurement of common solvents using the CSRR based sensor. , 2015, , . | | 9 |
| 23 | Dual band microwave sensor for dielectric characterization of dispersive materials. , 2015, , . | | 8 |
| 24 | Automated RF measurement system for detecting adulteration in edible fluids. , 2013, , . | | 7 |
| 25 | Calibration independent generalized cavity method for microwave characterization of powdered materials. Review of Scientific Instruments, 2015, 86, 064708. | 1.3 | 6 |
| 26 | Novel MNZ-type microwave sensor for testing magnetodielectric materials. Scientific Reports, 2020, 10, 16985. | 3.3 | 6 |
| 27 | Design of broadband superstrate FSS for terahertz imaging and testing applications. , 2016, , . | | 5 |
| 28 | Estimation of Broadband Complex Permeability Using SIW Cavity-Based Multimodal Approach. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6571-6581. | 4.7 | 5 |
| 29 | Near Field Coupled Wireless Microwave Sensor. , 2020, , . | | 4 |
| 30 | Planar SIW Cavity Based RF Sensor for Air Bubble Detection in Medical Industry. , 2018, , . | | 3 |
| 31 | Characteristics Modeling of GaN Class-AB Dual-Band PA Under Different Temperature and Humidity Conditions. IEEE Access, 2021, 9, 121632-121644. | 4.2 | 3 |
| 32 | TRL Calibrated Coplanar Microwave Sensor for Characterization of Biomolecules. , 2017, , . | | 2 |
| 33 | Extending the Frequency Limit of Microstrip-Coupled CSRR Using Asymmetry. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 3759-3769. | 4.6 | 2 |
| 34 | Design of tri-band ENZ SIW sensor for microwave testing of materials in 3G and 4G GSM bands. , 2015, , . | | 1 |
| 35 | Elevated and tapered microstrip coupled ENZ SIW sensor for microwave testing of radome and building materials in 3G and ISM bands. , 2016, , . | | 1 |
| 36 | Tackling Non-linearity in Cavity Perturbation using Machine Learning Approach. , 2021, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|----|-----------|
| 37 | A contactless thickness measurement of multilayer structure using terahertz time domain spectroscopy. , 2015, , . | | 0 |