

Philippe Besnier

List of Publications by Year in descending order

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699
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Investigation of Reverberation Chamber Measurements Through High-Power Goodness-of-Fit Tests. IEEE Transactions on Electromagnetic Compatibility, 2007, 49, 745-755. | 2.2 | 108 |
| 2 | On the Q -Factor Estimation for Rician Channel Simulated in Reverberation Chamber. IEEE Transactions on Antennas and Propagation, 2011, 59, 1003-1012. | 5.1 | 73 |
| 3 | Estimating the Effective Sample Size to Select Independent Measurements in a Reverberation Chamber. IEEE Transactions on Electromagnetic Compatibility, 2008, 50, 227-236. | 2.2 | 68 |
| 4 | Evaluation Method for the Probability Distribution of the Quality Factor of Mode-Stirred Reverberation Chambers. IEEE Transactions on Antennas and Propagation, 2014, 62, 4199-4208. | 5.1 | 58 |
| 5 | Advanced Modeling of Crosstalk Between an Unshielded Twisted Pair Cable and an Unshielded Wire Above a Ground Plane. IEEE Transactions on Electromagnetic Compatibility, 2013, 55, 183-194. | 2.2 | 46 |
| 6 | Variability Impact of Many Design Parameters: The Case of a Realistic Electronic Link. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 34-41. | 2.2 | 37 |
| 7 | Performances of UWB Wheeler Cap and Reverberation Chamber to Carry Out Efficiency Measurements of Narrowband Antennas. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 332-335. | 4.0 | 32 |
| 8 | Various estimations of composite Q -factor with antennas in a reverberation chamber. , 2015, , . | | 32 |
| 9 | Antenna Directivity Measurement in Reverberation Chamber From Rician Q -Factor Estimation. IEEE Transactions on Antennas and Propagation, 2013, 61, 5307-5310. | 5.1 | 30 |
| 10 | A Modified Enhanced Transmission Line Theory Applied to Multiconductor Transmission Lines. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 518-528. | 2.2 | 30 |
| 11 | Reverberation Chamber Modeling Based on Image Theory: Investigation in the Pulse Regime. IEEE Transactions on Electromagnetic Compatibility, 2010, 52, 778-789. | 2.2 | 28 |
| 12 | An Accurate Equivalent Behavioral Model of Antenna Radiation Using a Mode-Matching Technique Based on Spherical Near Field Measurements. IEEE Transactions on Antennas and Propagation, 2008, 56, 48-57. | 5.1 | 26 |
| 13 | Experimental validation of time reversal ultra wide-band communication system for high data rates. IET Microwaves, Antennas and Propagation, 2010, 4, 643. | 1.4 | 25 |
| 14 | Aperture Antenna Modeling by a Finite Number of Elemental Dipoles From Spherical Field Measurements. IEEE Transactions on Antennas and Propagation, 2010, 58, 1260-1268. | 5.1 | 25 |
| 15 | Design and Experimental Validation of a Mode-Stirred Reverberation Chamber at Millimeter Waves. IEEE Transactions on Electromagnetic Compatibility, 2015, 57, 12-21. | 2.2 | 25 |
| 16 | Coherent Wave Control in Complex Media with Arbitrary Wavefronts. Physical Review Letters, 2021, 126, 193903. | 7.8 | 23 |
| 17 | Robustness of a time-reversal ultra-wideband system in non-stationary channel environments. IET Microwaves, Antennas and Propagation, 2011, 5, 468. | 1.4 | 22 |
| 18 | Probability of EMC Failure and Sensitivity Analysis With Regard to Uncertain Variables by Reliability Methods. IEEE Transactions on Electromagnetic Compatibility, 2015, 57, 274-282. | 2.2 | 22 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Direct Synthesis of Multiband Bandpass Filters With Generalized Frequency Transformation Methods. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 3820-3831. | 4.6 | 22 |
| 20 | Electromagnetic topology: investigations of nonuniform transmission line networks. IEEE Transactions on Electromagnetic Compatibility, 1995, 37, 227-233. | 2.2 | 20 |
| 21 | On-Demand Coherent Perfect Absorption in Complex Scattering Systems: Time Delay Divergence and Enhanced Sensitivity to Perturbations. Laser and Photonics Reviews, 2021, 15, 2000471. | 8.7 | 20 |
| 22 | The Adaptive Controlled Stratification Method Applied to the Determination of Extreme Interference Levels in EMC Modeling With Uncertain Input Variables. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 543-552. | 2.2 | 17 |
| 23 | Adjustment of Shielding Effectiveness, Optical Transmission, and Sheet Resistance of Conducting Films Deposited on Glass Substrates. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 1070-1078. | 2.2 | 17 |
| 24 | Time Reversal Efficiency Measurement in Reverberation Chamber. IEEE Transactions on Antennas and Propagation, 2012, 60, 2921-2928. | 5.1 | 16 |
| 25 | A Binomial Model for Radiated Immunity Measurements. IEEE Transactions on Electromagnetic Compatibility, 2013, 55, 683-691. | 2.2 | 16 |
| 26 | Mode-stirring efficiency of reverberation chambers based on Rician K-factor. Electronics Letters, 2011, 47, 1114. | 1.0 | 15 |
| 27 | Advanced method for estimating number of independent samples available with stirrer in reverberation chamber. Electronics Letters, 2007, 43, 861. | 1.0 | 14 |
| 28 | On the prediction of the average absorbing cross section of materials from coherence bandwidth measurements in reverberation chamber. , 2012, , . | | 14 |
| 29 | Estimating radar cross-section of canonical targets in reverberation chamber. , 2017, , . | | 13 |
| 30 | Analysis of Parameter Variability in an Integrated Wireless Power Transfer System via Partial Least-Squares Regression. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 1795-1802. | 2.5 | 12 |
| 31 | Controlled Stratification Based on Kriging Surrogate Model: An Algorithm for Determining Extreme Quantiles in Electromagnetic Compatibility Risk Analysis. IEEE Access, 2020, 8, 3837-3847. | 4.2 | 12 |
| 32 | Radar Cross Section Pattern Measurements in a Mode-Stirred Reverberation Chamber: Theory and Experiments. IEEE Transactions on Antennas and Propagation, 2021, 69, 5942-5952. | 5.1 | 12 |
| 33 | Green's Function Retrieval with Absorbing Probes in Reverberating Cavities. Physical Review Letters, 2016, 116, 213902. | 7.8 | 11 |
| 34 | Perturbations of Electric and Magnetic Fields Due to the Presence of Materials in TEM Cells. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 997-1006. | 2.2 | 11 |
| 35 | Determining the lowest usable frequency of a frequency-stirred reverberation chamber using modal density. , 2014, , . | | 10 |
| 36 | Experimental Dosimetry in a Mode-Stirred Reverberation Chamber in the 60-GHz Band. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 981-992. | 2.2 | 10 |

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| 37 | Physical layer performance analysis of V2V communications in high velocity context. , 2009, , . | | 9 |
| 38 | Advanced method for estimating direct-to-scattered ratio of Rician channel in reverberation chamber. Electronics Letters, 2009, 45, 194. | 1.0 | 9 |
| 39 | EXTENSION OF THE TRANSMISSION LINE THEORY APPLICATION WITH MODIFIED ENHANCED PER-UNIT-LENGTH PARAMETERS. Progress in Electromagnetics Research M, 2013, 32, 257-270. | 0.9 | 9 |
| 40 | On the Uncertainty Quantification of the Quality Factor of Reverberation Chambers. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 823-832. | 2.2 | 9 |
| 41 | Radiation pattern measurements in reverberation chamber based on estimation of coherent and diffuse electromagnetic fields. , 2014, , . | | 8 |
| 42 | A Compact Double-Sided FSS Absorbing Wall for Decoupling 5G Antenna Arrays. IEEE Transactions on Electromagnetic Compatibility, 2022, 64, 303-314. | 2.2 | 8 |
| 43 | Evaluation of frequency and mechanical stirring efficiency in a reverberation chamber. , 2008, , . | | 7 |
| 44 | Numerical study of spatial correlation in reverberation chamber. Electronics Letters, 2011, 47, 1319. | 1.0 | 7 |
| 45 | Analysis of Parameter Variability in Integrated Devices by Partial Least Squares Regression. , 2020, , . | | 7 |
| 46 | Contactless Antenna Gain Pattern Estimation From Backscattering Coefficient Measurement Performed Within a Reverberation Chamber. IEEE Transactions on Antennas and Propagation, 2022, 70, 2318-2321. | 5.1 | 7 |
| 47 | Efficiency measurement of UWB antennas using time reversal in reverberation chambers. Electronics Letters, 2008, 44, 1002. | 1.0 | 6 |
| 48 | Estimating S_{11} -Factor and Time Spread Parameters From a Transient Response of a Pulse Modulated Sine Wave in Reverberation Chamber. IEEE Transactions on Antennas and Propagation, 2013, 61, 380-389. | 5.1 | 6 |
| 49 | Direct Synthesis of Quad-Band Band-Pass Filter by Frequency Transformation Methods. , 2019, , . | | 6 |
| 50 | ESTIMATING THE PROBABILITY DENSITY FUNCTION OF THE ELECTROMAGNETIC SUSCEPTIBILITY FROM A SMALL SAMPLE OF EQUIPMENT. Progress in Electromagnetics Research B, 2019, 83, 93-109. | 1.0 | 6 |
| 51 | Electromagnetic Topology: An Additional Interaction Sequence Diagram for Transmission Line Network Analysis. IEEE Transactions on Electromagnetic Compatibility, 2006, 48, 685-692. | 2.2 | 5 |
| 52 | Proposition of tolerance requirements adapted for the calibration of a reverberation chamber. , 2009, , . | | 5 |
| 53 | Statistical estimation of antenna gain from measurements carried out in a mode-stirred reverberation chamber. , 2011, , . | | 5 |
| 54 | Structural composite laminate materials with low dielectric loss: Theoretical model towards dielectric characterization. Composites Part C: Open Access, 2020, 3, 100050. | 3.2 | 5 |

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| 55 | Efficiency measurement of UWB small antennas in reverberation chambers. , 2007, , . | | 4 |
| 56 | Effects of Time Variant Channel on a Time Reversal UWB System. , 2009, , . | | 4 |
| 57 | Source stirring analysis in a reverberation chamber based on modal expansion of the electric field. , 2015, , . | | 4 |
| 58 | SE adjustment of planar mesh screen by fine-tuning metal thickness. Journal of Engineering, 2018, 2018, 239-241. | 1.1 | 4 |
| 59 | IDENTIFICATION OF MAIN FACTORS OF UNCERTAINTY IN A MICROSTRIP LINE NETWORK. Progress in Electromagnetics Research, 2018, 162, 61-72. | 4.4 | 4 |
| 60 | Comparison of Antenna Radiation Efficiency Measurement Techniques in Reverberation Chamber Using or Not a Reference Antenna. , 2020, , . | | 4 |
| 61 | Radar Cross Section Measurement within Reverberation Chamber: Stirrer Position Issues. , 2020, , . | | 4 |
| 62 | Diffuse field cross-correlation in a programmable-metasurface-stirred reverberation chamber. Applied Physics Letters, 2021, 118, . | 3.3 | 4 |
| 63 | Quantifying stirred and unstirred components in reverberation chamber with appropriate statistics. , 2009, , . | | 3 |
| 64 | An empirical statistical detection of non-ideal field distribution in a reverberation chamber confirmed by a simple numerical model based on image theory. Annales Des Telecommunications/Annals of Telecommunications, 2011, 66, 445-455. | 2.5 | 3 |
| 65 | Sub-Band Time Reversal Efficiency Measurement: An Enhanced Method for Efficiency Characterization of UWB Antennas. IEEE Transactions on Antennas and Propagation, 2012, 60, 1657-1660. | 5.1 | 3 |
| 66 | Analytical modal analysis to evaluate the contribution of metamaterials to the improvement of reverberation chambers. , 2014, , . | | 3 |
| 67 | A geometry-based stochastic approach to emulate V2V communications's main propagation channel metrics. International Journal of Microwave and Wireless Technologies, 2016, 8, 455-461. | 1.9 | 3 |
| 68 | Geometry and Loading Effects on Performances of Mode-Stirred Reverberation Chambers: An Experimental Study. , 2019, , . | | 3 |
| 69 | Control of Shielding Effectiveness of Optically Transparent Films by Modification of the Edge Termination Geometry. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 2431-2440. | 2.2 | 3 |
| 70 | Studying the pulse regime in a reverberation chamber with a model based on image theory. , 2010, , . | | 2 |
| 71 | Simple approximation for envelope based K estimator. Electronics Letters, 2011, 47, 222. | 1.0 | 2 |
| 72 | Plane wave coupling to an aerial electrical cable. Assessment of extreme interference levels with the controlled stratification method. , 2016, , . | | 2 |

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| 73 | An Embedded Double Reference Transmission Line Theory Applied to Cable Harnesses. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 981-990. | 2.2 | 2 |
| 74 | Design and Calibration of a mm-Wave Personal Exposure Meter for 5G Exposure Assessment in Indoor Diffuse Environments. Journal of Infrared, Millimeter, and Terahertz Waves, 2018, 39, 1264-1282. | 2.2 | 2 |
| 75 | Combining Kriging and Controlled Stratification to Identify Extreme Levels of Electromagnetic Interference. , 2019, , . | | 2 |
| 76 | Exposure Assessment in Millimeter-Wave Reverberation Chamber Using Murine Phantoms. Bioelectromagnetics, 2020, 41, 121-135. | 1.6 | 2 |
| 77 | A Test Setup to Assess the Impact of EMI Produced by On-Board Electronics on the Quality of Radio Reception in Vehicles. IEEE Transactions on Electromagnetic Compatibility, 2021, , 1-24. | 2.2 | 2 |
| 78 | VO ₂ Thin Film as a Temperature Activated Electromagnetic Shield. , 2021, , . | | 2 |
| 79 | Diffuse field cross-correlations: Scattering theory and electromagnetic experiments. Physical Review E, 2021, 104, 044204. | 2.1 | 2 |
| 80 | Probability of Failure Using the Kriging - Controlled Stratification Method and Statistical Inference. , 2020, , . | | 2 |
| 81 | A Compact Absorbing FSS Structure for Antenna Decoupling in the 5G 3.5GHz Band. , 2020, , . | | 2 |
| 82 | A Planar Quad-band Band-Pass Filter Employing Dual-Mode Band-Stop Resonators. , 2021, , . | | 2 |
| 83 | Quasi-monostatic Radar Cross-Section Measurement in Reverberation Chamber. , 2022, , . | | 2 |
| 84 | Efficiency measurement of UWB and UHF antennas in small cavities of arbitrary shape. Microwave and Optical Technology Letters, 2009, 51, 2193-2196. | 1.4 | 1 |
| 85 | Influence of the Channel Intertap Correlation on the V2X PHY-Layer Performance. IEEE Transactions on Vehicular Technology, 2012, 61, 574-583. | 6.3 | 1 |
| 86 | Measured probability distribution of the quality factor of a reverberation chamber. , 2014, , . | | 1 |
| 87 | The controlled stratification method to estimate extreme quantiles in the field of EMC modelling. , 2015, , . | | 1 |
| 88 | A Study of Electric-Field Measurement Disturbances Brought by Probe Supports. , 2018, , . | | 1 |
| 89 | Non-invasive Optimal Coupling Upon Detection of a Local Change of Impedance in a Cable Network. , 2021, , . | | 1 |
| 90 | Dynamic Control of the Shielding Effectiveness of Optically Transparent Screens. IEEE Transactions on Electromagnetic Compatibility, 2022, 64, 702-709. | 2.2 | 1 |

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| 91 | Shielding effectiveness external evaluation concept for small enclosures. , 2003, , . | | 0 |