

# Philippe Besnier

## List of Publications by Year in descending order

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91  
papers

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430874

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93  
docs citations

93  
times ranked

699  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	A Compact Double-Sided FSS Absorbing Wall for Decoupling 5G Antenna Arrays. IEEE Transactions on Electromagnetic Compatibility, 2022, 64, 303-314.	2.2	8
3	Dynamic Control of the Shielding Effectiveness of Optically Transparent Screens. IEEE Transactions on Electromagnetic Compatibility, 2022, 64, 702-709.	2.2	1
4	Quasi-monostatic Radar Cross-Section Measurement in Reverberation Chamber. , 2022, , .		2
5	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
6	Diffuse field cross-correlation in a programmable-metasurface-stirred reverberation chamber. Applied Physics Letters, 2021, 118, .	3.3	4
7	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
8	Coherent Wave Control in Complex Media with Arbitrary Wavefronts. Physical Review Letters, 2021, 126, 193903.	7.8	23
9	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
10	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
11	Non-invasive Optimal Coupling Upon Detection of a Local Change of Impedance in a Cable Network. , 2021, , .		1
12	VO <sub>2</sub> Thin Film as a Temperature Activated Electromagnetic Shield. , 2021, , .		2
13	Diffuse field cross-correlations: Scattering theory and electromagnetic experiments. Physical Review E, 2021, 104, 044204.	2.1	2
14	A Planar Quad-band Band-Pass Filter Employing Dual-Mode Band-Stop Resonators. , 2021, , .		2
15	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
16	Structural composite laminate materials with low dielectric loss: Theoretical model towards dielectric characterization. Composites Part C: Open Access, 2020, 3, 100050.	3.2	5
17	Comparison of Antenna Radiation Efficiency Measurement Techniques in Reverberation Chamber Using or Not a Reference Antenna. , 2020, , .		4
18	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

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19	Analysis of Parameter Variability in Integrated Devices by Partial Least Squares Regression. , 2020, , .		7
20	Radar Cross Section Measurement within Reverberation Chamber: Stirrer Position Issues. , 2020, , .		4
21	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
22	Exposure Assessment in Millimeter-Wave Reverberation Chamber Using Murine Phantoms. Bioelectromagnetics, 2020, 41, 121-135.	1.6	2
23	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
24	Probability of Failure Using the Kriging - Controlled Stratification Method and Statistical Inference. , 2020, , .		2
25	A Compact Absorbing FSS Structure for Antenna Decoupling in the 5G 3.5GHz Band. , 2020, , .		2
26	On the Uncertainty Quantification of the Quality Factor of Reverberation Chambers. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 823-832.	2.2	9
27	Geometry and Loading Effects on Performances of Mode-Stirred Reverberation Chambers: An Experimental Study. , 2019, , .		3
28	Combining Kriging and Controlled Stratification to Identify Extreme Levels of Electromagnetic Interference. , 2019, , .		2
29	Direct Synthesis of Quad-Band Band-Pass Filter by Frequency Transformation Methods. , 2019, , .		6
30	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
31	An Embedded Double Reference Transmission Line Theory Applied to Cable Harnesses. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 981-990.	2.2	2
32	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
33	A Study of Electric-Field Measurement Disturbances Brought by Probe Supports. , 2018, , .		1
34	SE adjustment of planar mesh screen by fine-tuning metal thickness. Journal of Engineering, 2018, 2018, 239-241.	1.1	4
35	IDENTIFICATION OF MAIN FACTORS OF UNCERTAINTY IN A MICROSTRIP LINE NETWORK. Progress in Electromagnetics Research, 2018, 162, 61-72.	4.4	4
36	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

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37	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
38	A Modified Enhanced Transmission Line Theory Applied to Multiconductor Transmission Lines. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 518-528.	2.2	30
39	Estimating radar cross-section of canonical targets in reverberation chamber. , 2017, , .		13
40	Plane wave coupling to an aerial electrical cable. Assessment of extreme interference levels with the controlled stratification method. , 2016, , .		2
41	A geometry-based stochastic approach to emulate V2V communicationsâ€™ main propagation channel metrics. International Journal of Microwave and Wireless Technologies, 2016, 8, 455-461.	1.9	3
42	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
43	Greenâ€™s Function Retrieval with Absorbing Probes in Reverberating Cavities. Physical Review Letters, 2016, 116, 213902.	7.8	11
44	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
45	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
46	The controlled stratification method to estimate extreme quantiles in the field of EMC modelling. , 2015, , .		1
47	Source stirring analysis in a reverberation chamber based on modal expansion of the electric field. , 2015, , .		4
48	Various estimations of composite Q-factor with antennas in a reverberation chamber. , 2015, , .		32
49	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
50	Determining the lowest usable frequency of a frequency-stirred reverberation chamber using modal density. , 2014, , .		10
51	Measured probability distribution of the quality factor of a reverberation chamber. , 2014, , .		1
52	Radiation pattern measurements in reverberation chamber based on estimation of coherent and diffuse electromagnetic fields. , 2014, , .		8
53	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
54	Analytical modal analysis to evaluate the contribution of metamaterials to the improvement of reverberation chambers. , 2014, , .		3

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55	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
56	Estimating $K$ -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
57	Antenna Directivity Measurement in Reverberation Chamber From Rician $K$ -Factor Estimation. IEEE Transactions on Antennas and Propagation, 2013, 61, 5307-5310.	5.1	30
58	A Binomial Model for Radiated Immunity Measurements. IEEE Transactions on Electromagnetic Compatibility, 2013, 55, 683-691.	2.2	16
59	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
60	Time Reversal Efficiency Measurement in Reverberation Chamber. IEEE Transactions on Antennas and Propagation, 2012, 60, 2921-2928.	5.1	16
61	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
62	On the prediction of the average absorbing cross section of materials from coherence bandwidth measurements in reverberation chamber. , 2012, , .		14
63	Influence of the Channel Intertap Correlation on the V2X PHY-Layer Performance. IEEE Transactions on Vehicular Technology, 2012, 61, 574-583.	6.3	1
64	On the $K$ -Factor Estimation for Rician Channel Simulated in Reverberation Chamber. IEEE Transactions on Antennas and Propagation, 2011, 59, 1003-1012.	5.1	73
65	Robustness of a time-reversal ultra-wideband system in non-stationary channel environments. IET Microwaves, Antennas and Propagation, 2011, 5, 468.	1.4	22
66	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
67	Statistical estimation of antenna gain from measurements carried out in a mode-stirred reverberation chamber. , 2011, , .		5
68	Simple approximation for envelope based $K$ estimator. Electronics Letters, 2011, 47, 222.	1.0	2
69	Numerical study of spatial correlation in reverberation chamber. Electronics Letters, 2011, 47, 1319.	1.0	7
70	Mode-stirring efficiency of reverberation chambers based on Rician $K$ -factor. Electronics Letters, 2011, 47, 1114.	1.0	15
71	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
72	Reverberation Chamber Modeling Based on Image Theory: Investigation in the Pulse Regime. IEEE Transactions on Electromagnetic Compatibility, 2010, 52, 778-789.	2.2	28

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73	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
74	Studying the pulse regime in a reverberation chamber with a model based on image theory. , 2010, , .		2
75	Quantifying stirred and unstirred components in reverberation chamber with appropriate statistics. , 2009, , .		3
76	Effects of Time Variant Channel on a Time Reversal UWB System. , 2009, , .		4
77	Physical layer performance analysis of V2V communications in high velocity context. , 2009, , .		9
78	Advanced method for estimating direct-to-scattered ratio of Rician channel in reverberation chamber. Electronics Letters, 2009, 45, 194.	1.0	9
79	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
80	Proposition of tolerance requirements adapted for the calibration of a reverberation chamber. , 2009, , .		5
81	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
82	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
83	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
84	Evaluation of frequency and mechanical stirring efficiency in a reverberation chamber. , 2008, , .		7
85	Efficiency measurement of UWB antennas using time reversal in reverberation chambers. Electronics Letters, 2008, 44, 1002.	1.0	6
86	Advanced method for estimating number of independent samples available with stirrer in reverberation chamber. Electronics Letters, 2007, 43, 861.	1.0	14
87	Efficiency measurement of UWB small antennas in reverberation chambers. , 2007, , .		4
88	Investigation of Reverberation Chamber Measurements Through High-Power Goodness-of-Fit Tests. IEEE Transactions on Electromagnetic Compatibility, 2007, 49, 745-755.	2.2	108
89	Electromagnetic Topology: An Additional Interaction Sequence Diagram for Transmission Line Network Analysis. IEEE Transactions on Electromagnetic Compatibility, 2006, 48, 685-692.	2.2	5
90	Shielding effectiveness external evaluation concept for small enclosures. , 2003, , .		0

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91	Electromagnetic topology: investigations of nonuniform transmission line networks. IEEE Transactions on Electromagnetic Compatibility, 1995, 37, 227-233.	2.2	20