

Luk R Arnaut

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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
2	Generalized Extreme-Value Distributions of Power Near a Boundary Inside Electromagnetic Reverberation Chambers. IEEE Transactions on Electromagnetic Compatibility, 2010, 52, 506-515.	2.2	42
3	Optical Switching Based on Polarization Tunable Plasmon-Induced Transparency in Disk/Rod Hybrid Metasurfaces. Plasmonics, 2015, 10, 1115-1121.	3.4	37
4	Spatial correlation functions of inhomogeneous random electromagnetic fields. Physical Review E, 2006, 73, 036604.	2.1	24
5	Wigner-Function-Based Propagation of Stochastic Field Emissions From Planar Electromagnetic Sources. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 580-588.	2.2	23
6	Review of Uncertainty Quantification of Measurement and Computational Modeling in EMC Part I: Measurement Uncertainty. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 1690-1698.	2.2	21
7	Time-Domain Measurement and Analysis of Mechanical Step Transitions in Mode-Tuned Reverberation: Characterization of Instantaneous Field. IEEE Transactions on Electromagnetic Compatibility, 2007, 49, 772-784.	2.2	19
8	Review of Uncertainty Quantification of Measurement and Computational Modeling in EMC Part II: Computational Uncertainty. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 1699-1706.	2.2	16
9	Helical Stirring for Enhanced Low-Frequency Performance of Reverberation Chambers. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 1016-1026.	2.2	13
10	Sampling distributions of random electromagnetic fields in mesoscopic or dynamical systems. Physical Review E, 2009, 80, 036601.	2.1	12
11	Electromagnetic Reverberation: The Legacy of Paolo Corona. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 643-652.	2.2	12
12	Statistical Anisotropy in Imperfect Electromagnetic Reverberation. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 3-13.	2.2	12
13	Optimizing Low-Frequency Mode Stirring Performance Using Principal Component Analysis. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 3-14.	2.2	10
14	Validating reverberation chamber performance based on assessment of field anisotropy. , 2016, , .		10
15	Elliptic Stochastic Fields in Reverberation Chambers. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 11-21.	2.2	10
16	On the Uncertainty Quantification of the Quality Factor of Reverberation Chambers. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 823-832.	2.2	9
17	Threshold Level Crossings, Excursions, and Extrema in Immunity and Fading Testing Using Multistirred Reverberation Chambers. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 1638-1650.	2.2	8
18	Probability Distribution of the Coherence Bandwidth of a Reverberation Chamber. IEEE Transactions on Antennas and Propagation, 2015, 63, 2286-2290.	5.1	6

#	ARTICLE	IF	CITATIONS
19	Copulas, Outliers, and Rogue States of Nonelliptic Fields and Energy in Electromagnetic Reverberation. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 371-384.	2.2	6
20	Pulse Jitter, Delay Spread, and Doppler Shift in Mode-Stirred Reverberation. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 1717-1727.	2.2	5
21	Stirring performance of helically distributed paddles. , 2017, , .		5
22	Angular spectral plane-wave expansion of nonstationary random fields in stochastic mode-stirred reverberation processes. Physical Review E, 2010, 81, 041133.	2.1	4
23	Transient evolution of eigenmodes in dynamic cavities and time-varying media. Radio Science, 2015, 50, 1256-1270.	1.6	4
24	On the Relationship Between Correlation Length and Rate of Fluctuation of Random Fields. IEEE Transactions on Electromagnetic Compatibility, 2007, 49, 727-729.	2.2	2
25	Average Linear and Angular Momentum and Power of Random Fields Near a Perfectly Conducting Boundary. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 1118-1127.	2.2	2
26	Excess Power, Energy, and Intensity of Stochastic Fields in Quasi-Static and Dynamic Environments. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 792-802.	2.2	1
27	Evaluation of Angular Momentum and Angular Power Flux Density in Complex Electromagnetic Environments. , 2019, , .		0
28	Durations of Power Excursions in a Monostirred Reverberation Chamber. , 2020, , .		0
29	Excess and Deficiency of Extreme Multidimensional Random Fields. IEEE Transactions on Electromagnetic Compatibility, 2022, 64, 255-258.	2.2	0
30	Fluctuations of Power Versus Energy for Random Fields Near a Perfectly Conducting Boundary. IEEE Transactions on Electromagnetic Compatibility, 2022, 64, 150-157.	2.2	0