Luk R Arnaut

List of Publications by Year
in descending order

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30 papers	371 citations	759233 12 h-index	794594 19 g-index
30 all docs	30 docs citations	30 times ranked	239 citing authors

#	Article	IF	Citations
1	Excess and Deficiency of Extreme Multidimensional Random Fields. IEEE Transactions on Electromagnetic Compatibility, 2022, 64, 255-258.	2.2	0
2	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
3	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
4	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
5	Durations of Power Excursions in a Monostirred Reverberation Chamber. , 2020, , .		0
6	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
7	On the Uncertainty Quantification of the Quality Factor of Reverberation Chambers. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 823-832.	2.2	9
8	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
9	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
10	Evaluation of Angular Momentum and Angular Power Flux Density in Complex Electromagnetic Environments. , 2019, , .		0
11	Wigner-Function-Based Propagation of Stochastic Field Emissions From Planar Electromagnetic Sources. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 580-588.	2.2	23
12	Helical Stirring for Enhanced Low-Frequency Performance of Reverberation Chambers. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 1016-1026.	2.2	13
13	Statistical Anisotropy in Imperfect Electromagnetic Reverberation. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 3-13.	2.2	12
14	Stirring performance of helically distributed paddles. , 2017, , .		5
15	Validating reverberation chamber performance based on assessment of field anisotropy. , 2016, , .		10
16	Electromagnetic Reverberation: The Legacy of Paolo Corona. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 643-652.	2.2	12
17	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
18	Pulse Jitter, Delay Spread, and Doppler Shift in Mode-Stirred Reverberation. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 1717-1727.	2.2	5

#	Article	IF	Citations
19	Elliptic Stochastic Fields in Reverberation Chambers. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 11-21.	2.2	10
20	Transient evolution of eigenmodes in dynamic cavities and time-varying media. Radio Science, 2015, 50, 1256-1270.	1.6	4
21	Optical Switching Based on Polarization Tunable Plasmon-Induced Transparency in Disk/Rod Hybrid Metasurfaces. Plasmonics, 2015, 10, 1115-1121.	3.4	37
22	Probability Distribution of the Coherence Bandwidth of a Reverberation Chamber. IEEE Transactions on Antennas and Propagation, 2015, 63, 2286-2290.	5.1	6
23	Optimizing Low-Frequency Mode Stirring Performance Using Principal Component Analysis. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 3-14.	2.2	10
24	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
25	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
26	Angular spectral plane-wave expansion of nonstationary random fields in stochastic mode-stirred reverberation processes. Physical Review E, 2010, 81, 041133.	2.1	4
27	Sampling distributions of random electromagnetic fields in mesoscopic or dynamical systems. Physical Review E, 2009, 80, 036601.	2.1	12
28	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
29	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
30	Spatial correlation functions of inhomogeneous random electromagnetic fields. Physical Review E, 2006, 73, 036604.	2.1	24