

# Alistair Duffy

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/4824998/alistair-duffy-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93  
papers

1,267  
citations

13  
h-index

33  
g-index

118  
ext. papers

1,488  
ext. citations

2  
avg, IF

4.1  
L-index

#	Paper	IF	Citations
93	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2006</b> , 48, 449-459	2	330
92	Feature selective validation (FSV) for validation of computational electromagnetics (CEM). part II- assessment of FSV performance. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2006</b> , 48, 460-467	2	282
91	Dielectric relaxation spectroscopy and some applications in the pharmaceutical sciences. <i>Journal of Pharmaceutical Sciences</i> , <b>1995</b> , 84, 1029-44	3.9	77
90	Validation of a Three-Dimensional Transmission Line Matrix (TLM) Model Implementation of a Mode-Stirred Reverberation Chamber. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2007</b> , 49, 734-744	2.4	31
89	Dielectric analysis of phosphorylcholine head group mobility in egg lecithin liposomes. <i>Pharmaceutical Research</i> , <b>1996</b> , 13, 1181-5	4.5	26
88	Notice of Retraction: Review of the Feature Selective Validation Method (FSV). Part III theory. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2018</b> , 60, 814-821	2	23
87	Applying a behavioural and operational diagnostic typology of competitive intelligence practice: empirical evidence from the SME sector in Turkey. <i>Journal of Strategic Marketing</i> , <b>2012</b> , 20, 19-33	2.7	21
86	A simple formula for calculating the frequency-dependent resistance of a round wire. <i>Microwave and Optical Technology Letters</i> , <b>1998</b> , 19, 84-87	1.2	21
85	Antenna Efficiency Measurements in a Reverberation Chamber Without the Need for a Reference Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2008</b> , 7, 448-450	3.8	20
84	The feature selective validation (FSV) method		18
83	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2014</b> , 56, 825-834	2	17
82	A visual interpretation rating scale for validation of numerical models. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2005</b> , 24, 1078-1092	0.7	16
81	Analysis of techniques to compare complex data sets. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2002</b> , 21, 540-553	0.7	14
80	Comparing FSV and human responses to data comparisons		13
79	Use of correlation functions to assist the experimental validation of numerical modeling techniques. <i>Microwave and Optical Technology Letters</i> , <b>1994</b> , 7, 361-364	1.2	13
78	Surface transfer impedance measurement: a comparison between current probe and pull-on braid methods for coaxial cables. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>1998</b> , 40, 69-76	2	12
77	Offset Difference Measure Enhancement for the Feature-Selective Validation Method. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2008</b> , 50, 413-415	2	12

76	Performance Comparison of the SGM and the SCM in EMC Simulation. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2016</b> , 58, 1739-1746	2	12
75	Over Coupled Ring Resonator-Based Add/Drop Filters. <i>IEEE Journal of Quantum Electronics</i> , <b>2014</b> , 50, 598-604	2	11
74	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2014</b> , 56, 800-807	2	10
73	Introduction to feature selective validation (FSV) <b>2006</b> ,		10
72	The integrated error against log frequency (IELF) method for CEM validation		10
71	Improvement in the Definition of ODM for FSV. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2013</b> , 55, 773-779	2	9
70	Progress in the development of a 2D Feature Selective Validation (FSV) method <b>2008</b> ,		9
69	Applications of FSV to EMC and SI data		9
68	Comparison of Data With Multiple Degrees of Freedom Utilizing the Feature Selective Validation Method. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2016</b> , 58, 784-791	2	9
67	Comparison of Three-Dimensional Datasets by Using the Generalized n-Dimensional ( n-D) Feature Selective Validation (FSV) Technique. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2017</b> , 59, 103-110		8
66	Challenges in developing a multidimensional Feature Selective Validation implementation <b>2010</b> ,		8
65	Comparison of measured and computed local electric field distributions due to vehicle-mounted antennas using 2D feature selective validation		8
64	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>1994</b> , 36, 144-146	2	8
63	Applying the Analytic Hierarchy Process (AHP) to an FSV-Based Comparison of Multiple Datasets. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2015</b> , 57, 477-483	2	7
62	Dimension-Reduced Sparse Grid Strategy for a Stochastic Collocation Method in EMC Software. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2018</b> , 60, 218-224	2	7
61	Preliminary study of a reverberation chamber method for multiple-source testing using intermodulation. <i>IET Science, Measurement and Technology</i> , <b>2010</b> , 4, 21-27	1.5	7
60	Progress in quantifying validation data		7
59	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>1993</b> , 35, 46-54	2	7

58	Selection of Dominant Characteristic Modes. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2020</b> , 62, 451-460	2	7
57	Estimation of the Bandwidth of Acceptable Crosstalk of Parallel Coupled Ring Resonator Add/Drop Filters. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2015</b> , 57, 1005-1012	2	6
56	<b>2010</b> ,		6
55	Using the Feature Selective Validation technique to compare data sets <b>2009</b> ,		6
54	Maximum Working Volume and Minimum Working Frequency Tradeoff in a Reverberation Chamber. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2007</b> , 49, 719-722	2	6
53	Partial capacitance calculation for shielded twisted pair cables. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2004</b> , 46, 299-302	2	6
52	Objective validation of automotive EMC models		6
51	. <i>IEEE Transactions on Consumer Electronics</i> , <b>2013</b> , 59, 515-520	4.8	5
50	Investigating Confidence Histograms and Classification in FSV: Part II-Float FSV. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2013</b> , 55, 925-932	2	5
49	Crosstalk suppression bandwidth optimisation of a vertically coupled ring resonator add/drop filter. <i>IET Optoelectronics</i> , <b>2015</b> , 9, 30-36	1.5	5
48	A powerful new technique for the quantitative validation of modeled and experimental data. <i>Microwave and Optical Technology Letters</i> , <b>1998</b> , 17, 284-287	1.2	5
47	Validation of a non-contact technique for torque measurements in wind turbines using an enhanced transient FSV approach. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2020</b> , 151, 107261	4.6	5
46	Electromagnetic Time Reversal Method to Locate Partial Discharges in Power Networks Using 1D TLM Modelling. <i>IEEE Letters on EMC Practice and Applications</i> , <b>2021</b> , 3, 24-28	0.5	5
45	Impact of noise and interference on probabilistic broadcast schemes in mobile ad-hoc networks. <i>Computer Networks</i> , <b>2015</b> , 88, 178-186	5.4	4
44	Internal stirring: an approach to approximate evaluation of shielding effectiveness of small slotted enclosures. <i>IET Science, Measurement and Technology</i> , <b>2016</b> , 10, 659-664	1.5	4
43	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2014</b> , 56, 817-824	2	4
42	Investigating Confidence Histograms and Classification in FSV: Part I. Fuzzy FSV. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2013</b> , 55, 917-924	2	4
41	Objective Selection of Minimum Acceptable Mesh Refinement for EMC Simulations. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2015</b> , 57, 1266-1269	2	4

40	Development of next generation FSV tools and standards <b>2012,</b>		4
39	The prediction of the electric field level in the reverberation chamber depending on position of stirrer. <i>Expert Systems With Applications</i> , <b>2011</b> , 38, 1689-1696	7.8	4
38	The Feature Selective Validation Technique as Analysis Tool for Shielding Effectiveness of Slotted Enclosures. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2015</b> , 57, 1472-1480	2	3
37	Uncertainty analysis in EMC simulation based on Stochastic Collocation Method <b>2015,</b>		3
36	Notice of Retraction: Statistical Figures of Merit for the Feature Selective Validation Method. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2017</b> , 59, 1482-1489	2	3
35	The use of probability density functions to improve the interpretation of FSV results <b>2012,</b>		3
34	Determining the accuracy of TLM in simulating the behaviour of resonant cavities with arbitrary dielectric loading. <i>International Journal of Electronics</i> , <b>1997</b> , 83, 645-660	1.2	3
33	Issues in validation of complex-valued simulations for signal integrity analysis		3
32	On-Line Partial Discharge Localization in Power Cables Based on Electromagnetic Time Reversal Theory - Numerical Validation. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 1-1	4.3	3
31	Measuring similarity for validation of computational electromagnetic modelling		3
30	Parameter for near end crosstalk prediction in twisted pair cables <b>2016,</b>		3
29	Application to Real Power Networks of a Method to Locate Partial Discharges Based on Electromagnetic Time Reversal. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 1-1	4.3	3
28	Standalone closed-form formula for the throughput rate of asynchronous normally distributed serial flow lines. <i>Journal of Manufacturing Systems</i> , <b>2017</b> , 43, 117-128	9.1	2
27	Infra-red thermal measurement on a low-power infra-red emitter in CMOS technology. <i>IET Science, Measurement and Technology</i> , <b>2019</b> , 13, 25-28	1.5	2
26	Crosstalk bandwidth of grating-assisted ring resonator add/drop filter. <i>Optical and Quantum Electronics</i> , <b>2015</b> , 47, 1127-1137	2.4	2
25	Efficient broadcasting for route discovery in Mobile Ad-hoc Networks <b>2015,</b>		2
24	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2014</b> , 56, 746-749	2	2
23	Effect of physical and virtual carrier sensing on the AODV routing protocol in noisy MANETs <b>2013,</b>		2

22	Shield behaviour of communications cables. <i>IET Science, Measurement and Technology</i> , <b>2003</b> , 150, 307-312		2
21	Method for prediction of capacitance of shielded transmission lines. <i>Electronics Letters</i> , <b>2001</b> , 37, 1424	1.1	2
20	Accurate method for predicting return loss of communication channel. <i>Electronics Letters</i> , <b>2001</b> , 37, 1423.1		2
19	A preliminary study of the influence of experiential backgrounds of respondents to a reference survey for verification of FSV <b>2016</b> ,		2
18	Towards Modeling Partial Discharge Phenomena and Propagation in Power Networks Using the Transmission-Line Matrix Method. <i>Energies</i> , <b>2021</b> , 14, 689	3.1	2
17	Optimization of reflection coefficient in ring resonator add/drop filters. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , <b>2017</b> , 30, e2080	1	1
16	Using Image Quality Assessment (IQA) Databases to Provide an Appraisal of the Ability of the Feature Selective Validation Method (FSV) to Compare Two-Dimensional Datasets. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2018</b> , 60, 890-898	2	1
15	<b>2015</b> ,		1
14	General regression neural network approach to prediction of electric field level in the reverberation chamber. <i>International Journal of Reasoning-based Intelligent Systems</i> , <b>2010</b> , 2, 168	0.4	1
13	Analysis and modelling of structured wiring communication channels. <i>IET Science, Measurement and Technology</i> , <b>2001</b> , 148, 129-136		1
12	. <i>IEEE Letters on EMC Practice and Applications</i> , <b>2020</b> , 2, 53-61	0.5	1
11	Design, simulation, and fabrication of a double annular ring microstrip antenna based on gaps with multiband feature <b>2021</b> , 29, 101033-101033		1
10	Electromagnetic Risk Analysis for EMI Impact on Functional Safety With Probabilistic Graphical Models and Fuzzy Logic. <i>IEEE Letters on EMC Practice and Applications</i> , <b>2020</b> , 2, 96-100	0.5	1
9	Electromagnetic Monitoring of Semiconductor Ageing. <i>Procedia CIRP</i> , <b>2014</b> , 22, 98-102	1.8	0
8	Modeling Thermal Radiation Effects in Nanowires Using the TLM Method. <i>IEEE Nanotechnology Magazine</i> , <b>2013</b> , 12, 1118-1124	2.6	0
7	FSV: State of the art and current research fronts. <i>IEEE Electromagnetic Compatibility Magazine</i> , <b>2020</b> , 9, 55-62	0.4	0
6	The Effect of the Ring Mains Units for On-Line Partial Discharge Location With Time Reversal in Medium Voltage Networks. <i>IEEE Access</i> , <b>2022</b> , 10, 33844-33854	3.5	0
5	Compact Microstrip Antenna Structures with Multiband, Broadband, and Band-Notched Properties, for Portable Devices. <i>International Journal of Antennas and Propagation</i> , <b>2014</b> , 2014, 1-1	1.2	

- 4 Shaping waveguide transmission and reflection characteristics using conducting fabrics. *Microwave and Optical Technology Letters*, **2009**, 51, 1416-1419 1.2
- 3 EMC Society standards on the Web. *IEEE Electromagnetic Compatibility Magazine*, **2012**, 1, 99-102 0.4
- 2 Announcing the Newly Elected IEEE Division IV Director!. *IEEE Electromagnetic Compatibility Magazine*, **2021**, 10, 13-13 0.4
- 1 . *IEEE Letters on EMC Practice and Applications*, **2021**, 3, 78-81 0.5