

# Osami Wada

## List of Publications by Year in descending order

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115  
papers

614  
citations

933447

10  
h-index

677142

22  
g-index

115  
all docs

115  
docs citations

115  
times ranked

347  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Electromagnetic Compatibility of Integrated Circuitsâ€”Past, Present, and Future. IEEE Transactions on Electromagnetic Compatibility, 2009, 51, 78-100.	2.2	262
2	Calculation of radiation from a quasi-optical reflector antenna for whispering gallery mode. International Journal of Electronics, 1988, 65, 725-732.	1.4	22
3	Simulation of Bulk Current Injection Test for Automotive Components Using Electromagnetic Analysis. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 866-874.	2.2	22
4	Increase of Common-Mode Radiation due to Guard Trace Voltage and Determination of Effective Via-Location. IEICE Transactions on Communications, 2009, E92-B, 1929-1936.	0.7	16
5	Evaluation of EMI Reduction Effect of Guard Traces Based on Imbalance Difference Model. IEICE Transactions on Communications, 2009, E92-B, 2193-2200.	0.7	13
6	Suppression of the eÃƒtalon fringe in absorption spectrometry with an infrared tunable diode laser. Optical Engineering, 1997, 36, 2586.	1.0	12
7	Linear Equivalent Circuit and Current Source for I/O (LECCS-I/O) Modeling of IC Power Current for EMI Simulation. Journal of Japan Institute of Electronics Packaging, 2004, 7, 517-524.	0.1	12
8	Calculation of Common-Mode Radiation from Single-Channel Differential Signaling System Using Imbalance Difference Model. IEICE Transactions on Communications, 2010, E93-B, 1739-1745.	0.7	11
9	Modeling and simulation of unintended electromagnetic emission from digital circuits. Electronics and Communications in Japan, 2004, 87, 38-46.	0.1	10
10	Verification of common-mode-current prediction method based on imbalance difference model for single-channel differential signaling system. , 2012, , .		10
11	Calibration Methods for AC-Coaxial Adapter Used in AMN Impedance Measurements. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 1388-1397.	2.2	10
12	Reduction of common-mode excitation on a differential transmission line bend by imbalance control. IEICE Communications Express, 2014, 3, 295-299.	0.4	9
13	Modeling of Bulk Current Injection Setup for Automotive Immunity Test Using Electromagnetic Analysis. IEICE Transactions on Communications, 2015, E98.B, 1212-1219.	0.7	9
14	Trends of EMC standards for automotive network devices and communication quality of ethernet in relation to parameters of pulse disturbances. IEEE Electromagnetic Compatibility Magazine, 2018, 7, 46-50.	0.1	8
15	Focusing of high power millimeter-wave radiation by a quasi-optical antenna system. International Journal of Electronics, 1991, 70, 979-988.	1.4	7
16	Improvement of reproducibility of DPI method to quantify RF conducted immunity of LDO regulator. , 2013, , .		7
17	Simulation of bulk current injection test using integrated circuit immunity macro model and electromagnetic analysis. , 2016, , .		7
18	TDR measurement with utility-pole-interval resolution of real-scale distribution system. CIRED - Open Access Proceedings Journal, 2017, 2017, 1504-1507.	0.1	7

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19	Adjoint Spectrum I: an Algorithm to Extract Target Spectra Under Spectral Interferences for Use in On-Line Spectrometry. Japanese Journal of Applied Physics, 1992, 31, 4071-4080.	1.5	6
20	RF immunity test of CAN FD Transceivers during Data-Frame Communication. IEEE Electromagnetic Compatibility Magazine, 2018, 7, 51-55.	0.1	6
21	Stable inversion method for a polarized-lidar: analysis and simulation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2001, 18, 392.	1.5	5
22	Prediction of electromagnetic emissions from PCBs with interconnections through common-mode antenna model. , 2007, , .		5
23	Prediction of the common-mode radiated emission from the board to board interconnection through common-mode antenna model. , 2008, , .		5
24	Influence of an AC-coaxial adapter on measurements of the AMN impedance. IEICE Communications Express, 2015, 4, 99-104.	0.4	5
25	Equivalent-Circuit Model with Retarded Electromagnetic Coupling for Meta-Atoms of Wired Metallic Spheres. IEICE Transactions on Electronics, 2018, E101.C, 923-930.	0.6	5
26	Antenna calibration in anechoic chambers (30 MHz to 1 GHz): New approach to antenna calibration. , 2018, , .		5
27	Suppression of Guard-Trace Resonance by Matched Termination for Reducing Common-Mode Radiation. IEICE Transactions on Communications, 2010, E93-B, 1746-1753.	0.7	5
28	A study on characteristics of 10 MHz to 30 MHz in CISPR 25 ALSE method: CISPR 25 Annex J reference data verification of long-wire method. , 2018, , .		4
29	Single-Conductor Transmission Line Model Incorporating Radiation Reaction. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 1065-1077.	2.2	4
30	Title is missing!. Journal of Japan Institute of Electronics Packaging, 2001, 4, 322-327.	0.1	4
31	Importance and Limitations of Modeling Parasitic Capacitance between Package and PCB for Power Bus Noise and Radiation. IEICE Transactions on Communications, 2009, E92-B, 1937-1944.	0.7	4
32	Equivalent-Circuit Model for Meta-Atoms Consisting of Wired Metallic Spheres. IEICE Transactions on Electronics, 2017, E100.C, 305-312.	0.6	4
33	Compensating Method of Equivalent Current Sources of LSI-Core Macromodel Considering Voltage Fluctuations in On-Chip Power Distribution Network. IEEE Transactions on Electromagnetic Compatibility, 2022, 64, 1250-1256.	2.2	4
34	PSDF of log-amplitude scintillation for 7 ¼m band laser beam with absorption by water vapour*. Waves in Random and Complex Media, 1993, 3, 317-324.	1.5	3
35	In Situ and Real-Time Measurement of Methane Concentration in Rice Paddy Field at Okayama University Using Tunable Diode Laser Absorption Spectrometry. Japanese Journal of Applied Physics, 1993, 32, 244-245.	1.5	3
36	Fast and Accurate Estimation of Radiated Emission from Printed Circuit Board Using Common-mode Antenna Model Based on Common-Mode Potential Distribution. , 2007, , .		3

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37	Analytical calculation of the point-to-point partial inductance of a perfect ground plane. , 2007, , .		3
38	Module level EMI measurements and estimation. , 2008, , .		3
39	Indirect extension of the image theory to partial inductance calculations. IEICE Electronics Express, 2008, 5, 644-649.	0.8	3
40	Correction of the Method of Images for Partial Inductance Calculations of QFP. IEEE Transactions on Advanced Packaging, 2010, 33, 128-138.	1.6	3
41	Impedance balance control for reduction of common mode noise in full bridge converter. , 2015, , .		3
42	Title is missing!. Journal of Japan Institute of Electronics Packaging, 2001, 4, 241-245.	0.1	3
43	Development of High-Speed EMI Simulator for Electromagnetic Noise Emission from a Digital PCB.. The Journal of Japan Institute for Interconnecting and Packaging Electronic Circuits, 1996, 11, 121-125.	0.0	3
44	Measurement of water vapor fluctuation with a laser absorption spectrometry system having anti-scintillation performance. , 2002, 4539, 116.		2
45	Fast Calculation of Radiated Emissions from Arbitrarily Shaped PCB with IC/LSI. , 2007, , .		2
46	Prediction of Common-mode Radiation from Printed Circuit Boards with Interconnections. , 2007, , .		2
47	Time-Domain Simulation of CMOS Output Buffer with LECCS-I/O Model and Time-Variant Linear Switches. , 2007, , .		2
48	EMI simulation based on cavity-mode model for power-bus radiation calculation of power/ground planes with IC/LSI. , 2008, , .		2
49	Substrate noise reduction based on impedance balance using tunable resistances. , 2013, , .		2
50	Technical Problems of the Shunt-Type Asymmetric Artificial Network. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 1526-1534.	2.2	2
51	Peer-to-Peer Energy Transfer by Power Gytrators Based on Time-Variable-Transformer Concept. IEEE Transactions on Power Electronics, 2019, 34, 8230-8240.	7.9	2
52	Differential-/Common-Mode Conversion Loss and LCL/TCL Measurement Methods. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 1830-1839.	2.2	2
53	Flash ADC Utilizing Offset Voltage Variation With Order Statistics Based Comparator Selection. , 2021, , .		2
54	Fault Location in 6.6kV Overhead Distribution System by Comparing TDR Waveforms Before and After Failure. IEEE Transactions on Power and Energy, 2021, 141, 590-596.	0.2	2

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55	Suppression of High Frequency Current on Power Plane of PCB by EMI Reduction LSI Package.. Journal of Japan Institute of Electronics Packaging, 2000, 3, 515-522.	0.1	2
56	TDR Measurement with Utility-pole-distance Resolution in Overhead Distribution System. IEEJ Transactions on Power and Energy, 2018, 138, 766-771.	0.2	2
57	Low-Power Design of Digital LDO With Nonlinear Symmetric Frequency Generation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 4644-4648.	3.0	2
58	Scintillation measurement with 7 $\mu$ m-band tunable laser in different seasons. , 1994, 2222, 906.		1
59	Parabolic mirror optics for collimation of a crescent blue laser beam radiated from channel waveguide $\text{A}^{\text{E}}$ erenkov second-harmonic generation. Applied Optics, 1996, 35, 3459.	2.1	1
60	Field Analysis of Pillbox Resonator with Radiation Loss Utilizing Finite-Element Beam Propagation Method Formulation. Optical Review, 1996, 3, 109-113.	2.0	1
61	Calculation of PSDF of scintillation for 7 $\mu$ m band TDL beam around water vapour line. Infrared Physics and Technology, 1996, 37, 13-19.	2.9	1
62	Velocimetry using scintillation of a laser beam for a laser-based gas-flux monitor. , 1999, , .		1
63	Modeling of EMI spectra emitted from a signal line on a digital PCB. Electronics and Communications in Japan, 2000, 83, 107-114.	0.1	1
64	Efficient Calculation of Power Bus Impedance using a Fast Algorithm Together with a Segmentation Method. IEEJ Transactions on Fundamentals and Materials, 2004, 124, 1185-1192.	0.2	1
65	Quasi-static lumped element stand-alone package model for quad flat package. , 2008, , .		1
66	On the extension of the image theory to partial inductance calculation. , 2008, , .		1
67	EMC macro-modeling of CMOS inverter using LECCS-I/O model with additional current source. , 2008, , .		1
68	Common-mode noise reduction using floating conductor in LSI package. , 2012, , .		1
69	Impedance balance control for suppression of fluctuation on ground voltage in LSI package. , 2013, , .		1
70	Reduction method of common-mode noise on power supply cable using floating conductor. , 2013, , .		1
71	Relation between internal terminal voltage and immunity behavior of LDO regulator circuits. , 2015, , .		1
72	Mode conversion and transfer characteristics of conducted disturbance to Ethernet device from power supply cable. , 2015, , .		1

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73	Immunity macro model for linear regulator considering internal terminal voltage. , 2016, , .		1
74	Theoretical design of an improved shunt-type AAN. IEICE Communications Express, 2017, 6, 11-16.	0.4	1
75	Influence of test table materials on radiated immunity test: Report on investigation using a giant anechoic chamber. , 2018, , .		1
76	Formulation of Single-Conductor Transmission Line Model with Feedback Electric Fields by Terminal Discontinuity. , 2018, , .		1
77	Modal analysis of reflection of TDR in overhead distribution lines. , 2018, , .		1
78	A proposed setup to meet the new CISPR 25 Annex J Long-wire method: Adverse Effect Analysis of Antenna Cable Wiring in the Band below 30 MHz. , 2019, , .		1
79	Journal of Japan Institute of Electronics and Information Engineers, 2019, 66, 1-4. (Note: The text in the image is partially obscured and appears to be a mix of characters and symbols.)		1
80	Modeling of AC Power Network Consisting of Bidirectional AC-DC Converter Modules for Power Flow Design. IEICE Proceeding Series, 2014, 2, 65-68.	0.0	1
81	Connector Model for Use in Common-Mode Antenna Model Used to Estimate Radiation from Printed Circuit Boards with Board-to-Board Connector. IEICE Transactions on Communications, 2016, E99.B, 695-702.	0.7	1
82	Experimental evaluation of communication quality of Ethernet in relation to parameters of pulse disturbances. IEICE Communications Express, 2017, 6, 639-644.	0.4	1
83	Topological Estimation of Resonant Frequencies by Equivalent Circuit for Star Meta-Atoms. , 2018, , .		1
84	TDR Measurement with Corresponding to Utility-Pole Span Resolution for Fault Location in Real-Scale Distribution System. IEEE Transactions on Power and Energy, 2020, 140, 662-667.	0.2	1
85	Experimental investigation of communication quality degradation of 1000BASE-T1 by pulse disturbance. IEICE Communications Express, 2020, 9, 593-598.	0.4	1
86	Quantitative Interlaboratory Comparison of Radiated Immunity Test for On-board Equipment. , 2021, , .		1
87	Quantitative Evaluation of Reflection Characteristics of Power Distribution Equipment during TDR Measurement. IEEE Transactions on Power and Energy, 2022, 142, 139-149.	0.2	1
88	Order Statistics Based Low-Power Flash ADC with On-Chip Comparator Selection. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2022, E105.A, 1450-1457.	0.3	1
89	Circular to rectangular waveguide mode conversion through a parabolic cylinder waveguide incident. Electronics and Communications in Japan, 1987, 70, 20-31.	0.2	0
90	A new numerical analysis for oversized planar waveguide circuits. iterative method by use of a boundary element source matrix. Electronics and Communications in Japan, 1988, 71, 83-94.	0.2	0

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91	Collimation of Cerenkov SHG blue light for fine focusing. , 1994, , .		0
92	Quick-scanning TDL spectrometry for atmospheric trace gas monitoring with antiscintillation performance. , 1996, 2834, 142.		0
93	<title>Fluctuation spectra for an infrared laser beam propagating horizontally in the open atmosphere</title>. , 1996, , .		0
94	Depolarization properties of Asian dust (Kosa) measured from 1998 to 2000 at Okayama, Japan. , 2001, 4153, 559.		0
95	Measurement Methods of Electromagnetic Emission and Immunity of Semiconductor Devices. Journal of Japan Institute of Electronics Packaging, 2003, 6, 217-221.	0.1	0
96	A Bidirectional Iteration Algorithm for Determining Lidar Ratios and its Use to Evaluate Boundary Values in the Lidar Inversion. Japanese Journal of Applied Physics, 2004, 43, 6513-6519.	1.5	0
97	Translation of the Electromagnetic Mode-Splitting along a Microstrip Line with a Slit in the Ground Plane. , 2006, , .		0
98	Effect of package parasitics on conducted and radiated emission with mixed-mode analysis. , 2008, , .		0
99	Degradation of signal integrity due to package-common-mode resonance caused by external conductive noise in power supply system. , 2012, , .		0
100	Experimental verification of signal integrity deterioration due to package-common-mode resonance. , 2012, , .		0
101	Power differential protection of a DC-AC converter using Tellegen's Theorem. , 2014, , .		0
102	Measurement of transfer characteristics of conducted disturbance from AC power supply port to Ethernet port considering transmission mode. , 2015, , .		0
103	Analysis of malfunction due to conducted disturbance to power supply pin of operational amplifier. , 2016, , .		0
104	Equivalent circuit model with nonlinear characteristics of zener diode extracted from SPICE model for ESD simulation. , 2017, , .		0
105	Comparison of voltage sources with current sources on unbalanced differential microstrip line. , 2017, , .		0
106	Influence of Antenna Cabling on Measurement Results below 30 MHz in CISPR 25 Ed. 4 Annex J. , 2019, , .		0
107	Design for Reduction of Far-end Crosstalk in Four-channel Differential Transmission Line using Per-unit-length Parameters. , 2019, , .		0
108	Results of EMC round robin test on emission and immunity tests (3) Conducted immunity round robin test. , 2019, , .		0

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109	Dimension Dependence of Transfer Characteristics of Tubular Wave Coupler and Improvement of Directivity. , 2020, , .		0
110	Linear Equivalent Circuit and Current Sources Model Including Separation Resistances in the Ground Connection for Multiple Power-Supply Pin LSI. IEEJ Transactions on Electronics, Information and Systems, 2010, 130, 1897-1906.	0.2	0
111	Effect of Packages on Electromagnetic Noise Emission from Digital IC.. Circuit Technology, 1994, 9, 175-182.	0.0	0
112	Advances in Research for Electromagnetic Characteristics of Printed Circuits. Recent Activity of Research Group for Electromagnetic Behavior.. The Journal of Japan Institute for Interconnecting and Packaging Electronic Circuits, 1995, 10, 231-243.	0.0	0
113	EMC of Semiconductor Packages. Layout Design and Interconnection of Packaged IC to Accomplish Electromagnetic Compatibility.. Journal of Japan Institute of Electronics Packaging, 1998, 1, 466-470.	0.1	0
114	Validation of Prediction Method of Common-Mode Current Reduction Based on Imbalance Difference Model for Differential Transmission Line Placed Near Edge of Adjacent Ground Plane. Journal of Japan Institute of Electronics Packaging, 2018, 21, 178-185.	0.1	0
115	Circuit analysis of radiation reaction in metamaterials by retarded electromagnetic coupling. IET Circuits, Devices and Systems, 0, , .	1.4	0