

# Osamu Fujiwara

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4185992/publications.pdf>

Version: 2024-02-01

94  
papers

507  
citations

1040056

9  
h-index

794594

19  
g-index

95  
all docs

95  
docs citations

95  
times ranked

348  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparisons of Computed Mobile Phone Induced SAR in the SAM Phantom to That in Anatomically Correct Models of the Human Head. IEEE Transactions on Electromagnetic Compatibility, 2006, 48, 397-407.	2.2	152
2	Dosimetry of a Reverberation Chamber for Whole-Body Exposure of Small Animals. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 3435-3445.	4.6	26
3	No adverse effects detected for simultaneous whole-body exposure to multiple-frequency radiofrequency electromagnetic fields for rats in the intrauterine and pre- and post-weaning periods. Journal of Radiation Research, 2017, 58, 48-58.	1.6	19
4	Numerical calculation of human-body capacitance by surface charge method. Electronics and Communications in Japan, 2002, 85, 38-44.	0.1	18
5	Measurement of Discharge Current through Hand-held Metal Piece from Charged Human Body. IEEJ Transactions on Fundamentals and Materials, 2005, 125, 600-601.	0.2	14
6	Dosimetric evaluation of human head for portable telephones. Electronics and Communications in Japan, 2002, 85, 12-22.	0.1	13
7	Verification of Spark-Resistance Formulae for Micro-Gap ESD. IEICE Transactions on Communications, 2010, E93-B, 1801-1806.	0.7	13
8	Severity Evaluation of the IEC Immunity Test against ESD based on Wideband Measurement of Discharge Current Waveforms. IEEJ Transactions on Fundamentals and Materials, 2010, 130, 457-461.	0.2	13
9	Measurement and validation of GHz-band whole-body average SAR in a human volunteer using reverberation chamber. Physics in Medicine and Biology, 2012, 57, 7893-7903.	3.0	11
10	An analysis of load effects produced by ferrite core attachment. Electronics and Communications in Japan, 1997, 80, 19-24.	0.1	10
11	An analysis of charged floor potential using electromagnetic field theory. Electronics and Communications in Japan, 1998, 81, 28-35.	0.1	9
12	Wideband Measurement of Discharge Current Caused by Air Discharge through Hand-Held Metal Piece from Charged Human-Body. IEEJ Transactions on Fundamentals and Materials, 2006, 126, 902-908.	0.2	9
13	Development of an Immunity Test System With a Pseudo Biosignal Generator for Wearable Devices and Application to the ESD Test of an Artificial Hand. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 73-81.	2.2	9
14	Slit Effect of Common Ground Patterns in Affecting Cross-Talk Noise between Two Parallel Signal Traces on Printed Circuit Boards. IEEJ Transactions on Fundamentals and Materials, 2008, 128, 657-662.	0.2	8
15	Electrification properties of human body for walking motion. Electronics and Communications in Japan, 1991, 74, 99-107.	0.2	7
16	Dosimetry Evaluation for Pregnant and Fetus Rats in a Near-Field Exposure System of 1.95-GHz Cellular Phones. IEEE Microwave and Wireless Components Letters, 2008, 18, 260-262.	3.2	7
17	Further Validation of Spark-Resistance Formula Applied for Human ESD. , 2009, , .		7
18	FDTD computation of temperature rise in realistic head models simulating adult and infant for 1.5-GHz microwave exposure. Electronics and Communications in Japan, 2001, 84, 57-66.	0.1	6

#	ARTICLE	IF	CITATIONS
19	Verification of spark resistance formula for human ESD. , 2008, , .		6
20	Numerical Techniques for SAR Assessment of Small Animals in Reverberation Chamber. IEEE Electromagnetic Compatibility Magazine, 2015, 4, 57-66.	0.1	6
21	Effect of Ground Layer Patterns with Slits on Conducted Noise Currents from Printed Circuit Board. IEJ Transactions on Electronics, Information and Systems, 2007, 127, 1988-1996.	0.2	6
22	FDTD Calculation of FM-Band Crosstalks between Perpendicular Traces on Printed Circuit Board with Ground-Pattern Slits. IEJ Transactions on Electronics, Information and Systems, 2009, 129, 1642-1647.	0.2	6
23	Size Effect of Ground Patterns on FM-Band Cross-Talks between Two Parallel Signal Traces of Printed Circuit Boards for Vehicles. IEJ Transactions on Electronics, Information and Systems, 2011, 131, 2034-2039.	0.2	6
24	Measurement of Complex Relative Permittivity of Pure Water and its Variation with Respect to Water Amount using Open-Ended Coaxial Probe. IEJ Transactions on Fundamentals and Materials, 2011, 131, 523-528.	0.2	6
25	An ESD Immunity Test for Battery-Operated Control Circuit Board in Myoelectric Artificial Hand System. IEICE Transactions on Communications, 2015, E98.B, 2477-2484.	0.7	6
26	Characteristic Measurement of Discharge Current Injected by the Air Discharge of an ESD-gun onto a Ground. IEJ Transactions on Electronics, Information and Systems, 2005, 125, 1798-1804.	0.2	5
27	Calculation of Magnetic Near-Field Generated by the Contact Discharge of an ESD-gun. IEJ Transactions on Fundamentals and Materials, 2004, 124, 763-768.	0.2	5
28	Reduction Characteristics of FM-Band Cross-Talks between Two Parallel Signal Traces on Printed Circuit Boards for Vehicles. IEJ Transactions on Fundamentals and Materials, 2009, 129, 357-362.	0.2	5
29	Effect of Ground Patterns Size on FM-Band Cross-Talks between Two Parallel Signal Traces of Printed Circuit Boards for Vehicles. IEJ Transactions on Fundamentals and Materials, 2011, 131, 832-837.	0.2	5
30	Amplitude Probability Distribution Measurement for Electric Field Intensity Assessment of Cellular-Phone-Base Stations. IEEE Transactions on Electromagnetic Compatibility, 2008, 50, 736-739.	2.2	4
31	Estimation of Alcohol Concentration of Red Wine Based on Cole-Cole Plot. IEJ Transactions on Fundamentals and Materials, 2009, 129, 352-356.	0.2	4
32	Estimation of Potential Gradient from Discharge Current through Hand-Held Metal Piece from Charged Human Body. IEICE Transactions on Communications, 2010, E93-B, 1797-1800.	0.7	4
33	Performance and Validation of a Broadband- Multigeneration Exposure System for Unconstrained Rats. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 326-334.	4.6	4
34	Improvement of SAR Accuracy by Combining Two SAR Quantification Methods for Small Animals in Reverberation Chamber Above 10 GHz. IEEE Access, 2020, 8, 138170-138178.	4.2	4
35	In-Vivo Time Domain Measurement of Dielectric Properties of Human Body Tissue. IEJ Transactions on Fundamentals and Materials, 2010, 130, 1087-1091.	0.2	4
36	Level Estimation of Magnetic Far-Field Generated by Spark Discharge Between Charged Metal Spheres. IEJ Transactions on Electronics, Information and Systems, 2001, 121, 1813-1818.	0.2	4

#	ARTICLE	IF	CITATIONS
37	A Study on Rise-time and Peak of the Transient Current Injected through Air Discharge of an ESD-gun. IEEJ Transactions on Fundamentals and Materials, 2005, 125, 598-599.	0.2	4
38	Variations in Discharge Current Waveforms and its Power Spectra Injected from Contact Discharges of ESD-Gun with Different Arrangements. IEEJ Transactions on Fundamentals and Materials, 2011, 131, 384-388.	0.2	4
39	FDTD computation of temperature rise inside a realistic head model for 1.5-GHz microwave exposure. Electronics and Communications in Japan, 1999, 82, 11-19.	0.1	3
40	FDTD computation of electromagnetic fields caused by electrostatic discharge between charged metal spheres. Electronics and Communications in Japan, 2003, 86, 54-63.	0.1	3
41	Severity evaluation of immunity test for air and contact discharges of ESD generators. , 2009, , .		3
42	Split width effect of ground patterns on FM-band cross-talks between two parallel signal traces of printed circuit boards. , 2012, , .		3
43	Conservative Estimation of Whole-body Average SAR in Infant Model for 0.3-6GHz Far-Field Exposure. IEEJ Transactions on Electronics, Information and Systems, 2009, 129, 2102-2107.	0.2	3
44	Statistical Outliers in Voxel SARs and their Effect of Whole-Body Average SARs in Pregnant Woman and Child for Far-Field Exposure. IEEJ Transactions on Fundamentals and Materials, 2013, 133, 7-12.	0.2	3
45	Uncertainty and its Reduction of Voltage Waveform Induced on Trace on Printed Circuit Board for Indirect Discharges from ESD-Gun onto Vertical Coupling Plane. IEEJ Transactions on Fundamentals and Materials, 2010, 130, 253-257.	0.2	3
46	Reduction of Variation in Magnetic Fields and its Experimental Verification for Indirect Discharges of ESD Generators onto Tapered-Type Vertical Coupling Plane. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 51-56.	0.2	3
47	Effectiveness evaluation of shielding material in reducing electromagnetic interference of cardiac pacemaker induced by portable information terminals. Electronics and Communications in Japan, 2003, 86, 48-53.	0.1	2
48	Space Dependence of Divided Ground Patterns on FM-Band Cross-Talk Characteristics between Two Parallel Signal Traces on Printed Circuit Boards for Vehicles. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 1897-1903.	0.2	2
49	Spark Voltage Dependence of Magnetic Fields Due to Electrostatic Discharge. IEEJ Transactions on Fundamentals and Materials, 2003, 123, 914-919.	0.2	2
50	Measurement and Hemodialysis Effect of Complex Relative Permittivity for Blood of Kidney Patients Using Open-Ended Coaxial Measurement Probe. IEEJ Transactions on Electronics, Information and Systems, 2011, 131, 2046-2050.	0.2	2
51	FDTD Simulation of Transfer Impedance of Calibration Current Target for ESD Testing. IEEJ Transactions on Electronics, Information and Systems, 2011, 131, 606-612.	0.2	2
52	Correlation Analysis between Complex Relative Permittivity and Biochemical Components for Blood of Dialysis Patients before and after Hemodialysis. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 616-622.	0.2	2
53	Multiple Discharges caused by Contact Discharges of ESD Gun to Vertical Coupling Plane. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 383-384.	0.2	2
54	Dependence of Gap Breakdown Field on Charge Voltage in ESD caused by Charged Human-body. IEEJ Transactions on Electronics, Information and Systems, 2013, 133, 2149-2154.	0.2	2

#	ARTICLE	IF	CITATIONS
55	A measurement method for visualization of static electricity distribution. Electronics and Communications in Japan, 1989, 72, 96-104.	0.2	1
56	FDTD analysis of electromagnetic fields caused by sparks between charged metals. Electronics and Communications in Japan, 2000, 83, 44-51.	0.2	1
57	Realistic FDTD Modeling of Contact Discharge with ESD-Gun for Electrostatic Discharge Testing. IEEJ Transactions on Fundamentals and Materials, 2005, 125, 45-50.	0.2	1
58	Reduction effect of ground patterns on conductive noise currents from printed circuit board. , 2006, , .		1
59	Measurement of Discharge Currents due to Human-ESD. , 2007, , .		1
60	&lt;i>in-vivo&i>; Measurement of Complex Relative Permittivity for Human Skin Tissues Using Open-Ended Coaxial Probe. IEEJ Transactions on Electronics, Information and Systems, 2011, 131, 2040-2045.	0.2	1
61	Bio-stimulation responses caused by low energy laser irradiation.. The Review of Laser Engineering, 1990, 18, 834-839.	0.0	1
62	A FDTD Analysis of Electromagnetic Fields Caused by Electrostatic Discharge between Metals with Ferrite Material Attachments. IEEJ Transactions on Electronics, Information and Systems, 2000, 120, 1913-1919.	0.2	1
63	Dosimetry Evaluation and Tissue Structure Dependence of Localized Peak SAR inside Head Model for 1.5GHz Microwave Far-field Exposure. IEEJ Transactions on Fundamentals and Materials, 2000, 120, 1095-1099.	0.2	1
64	A Method for Recognizing State of Finger Flexure and Extension. IEEJ Transactions on Electronics, Information and Systems, 2004, 124, 2414-2420.	0.2	1
65	A Non-invasive and Non-constraint Method for Monitoring a Body Motion in Bed by Using a Light Emitting Marker System. IEEJ Transactions on Fundamentals and Materials, 2005, 125, 482-483.	0.2	1
66	A Technical Trend Seen in the Latest International EMC Symposia. IEEJ Transactions on Fundamentals and Materials, 2005, 125, 7-8.	0.2	1
67	FDTD Simulation Based on Spark Resistance Formula for Electromagnetic Fields due to Spark between Charged Metal Bars with Ferrite Core Attachment. IEICE Transactions on Communications, 2009, E92-B, 1960-1964.	0.7	1
68	A New Method for Immunity Testing Less Dependent on Arrangements of Equipment-Under-Test and Contact Discharges of ESD-Gun onto Vertical Coupling Plane. IEEJ Transactions on Fundamentals and Materials, 2010, 130, 423-427.	0.2	1
69	Quantitative Relationship between Whole Body Averaged SARs and Voxel SARs in Numerical Human Models of Pregnant Woman and 3-years Child for Far-Field Exposure. IEEJ Transactions on Fundamentals and Materials, 2013, 133, 537-542.	0.2	1
70	Influences of low energy laser beam on fluctuation of protein conformation.. The Review of Laser Engineering, 1987, 15, 38-43.	0.0	1
71	Spatial distribution of thermal stress inside human skin tissue caused by laser acupuncture.. The Review of Laser Engineering, 1988, 16, 410-416.	0.0	1
72	IEC Specified Standard Waveforms and their Frequency Spectra of Discharge Currents for Contact Discharge of ESD Gun. IEEJ Transactions on Fundamentals and Materials, 2015, 135, 592-597.	0.2	1

#	ARTICLE	IF	CITATIONS
73	An analysis of normal-mode noise caused by braided shield current flowing on coaxial cable attached by a ferrite core. Electronics and Communications in Japan, 1999, 82, 1-10.	0.1	0
74	Calculation of electric far field radiated from transmission line attached to a ferrite core above a ground plane. Electronics and Communications in Japan, 2003, 86, 12-20.	0.1	0
75	Local SAR estimation system using solid phantom and fixed E-field probe. Electronics and Communications in Japan, 2003, 86, 46-56.	0.1	0
76	Correspondence between frequency characteristics of radiated emission and input impedance of power-ground planes of PCB. Electronics and Communications in Japan, 2004, 87, 30-38.	0.1	0
77	Slit Effect of Ground Patterns on Conducted Noise Currents from Printed Circuit Board. , 2007, , .		0
78	Dosimetry Evaluation in the Fetuses for Pregnant Rats Exposed to 1.95-GHz Cellular Phones. , 2007, , .		0
79	Transfer Impedance of SMA Receptacle as Wideband Measurement Electrode for Discharge Current from Charged Human. , 2007, , .		0
80	Correlation investigation between contact approach speed of handheld metal rod and discharge parameters from charged human body. Journal of Electronics, 2008, 25, 384-388.	0.2	0
81	Dependence of breakdown fields on charge voltages for human ESD. , 2008, , .		0
82	Effect of ground layer patterns with slits in suppressing cross-talks between two parallel signal traces on printed circuit board. , 2008, , .		0
83	Statistical Outliers in Voxel SARs and Their Effect of Whole-Body Average SARs in Pregnant Woman and Child for Far-Field Exposure. Electronics and Communications in Japan, 2014, 97, 62-69.	0.5	0
84	Distance Attenuation of Electric Field Radiated by Electrostatic Discharge Occurring in a Corridor. IEEJ Transactions on Electronics, Information and Systems, 2001, 121, 1807-1812.	0.2	0
85	Thermal Index Evaluation of Local SAR in MRI-Based Head Models of Adult and Children for Portable Telephones. IEEJ Transactions on Electronics, Information and Systems, 2004, 124, 2427-2432.	0.2	0
86	A Method for Monitoring the Body Motion in Bed by Using an Infrared Light Emitting Marker System. IEEJ Transactions on Fundamentals and Materials, 2005, 125, 683-691.	0.2	0
87	Time Domain Measurement of Moving Object Speed Using Acceleration Sensor. IEEJ Transactions on Electronics, Information and Systems, 2006, 126, 1533-1534.	0.2	0
88	Basic Restriction and Reference Level in Anatomically-based Japanese Models for Low-Frequency Electric and Magnetic Field Exposures. IEEJ Transactions on Fundamentals and Materials, 2010, 130, 1092-1098.	0.2	0
89	Calculation of Whole-Body Average SARs in Pregnant Woman and Child Simultaneously Exposed to Multiple Radio-Frequency Waves in Real Environment. IEEJ Transactions on Fundamentals and Materials, 2013, 133, 608-614.	0.2	0
90	Correlation Analysis between Complex Relative Permittivity and Temperature for Human Blood. IEEJ Transactions on Electronics, Information and Systems, 2013, 133, 350-355.	0.2	0

#	ARTICLE	IF	CITATIONS
91	Estimation of Whole-Body Average SARs in Human Models for 0.1-2 GHz Vertically Polarized Far-Field Exposure Using Squares Averaged Over Height of Layer Induced Currents. IEEJ Transactions on Electronics, Information and Systems, 2013, 133, 2155-2159.	0.2	0
92	Correlation between Biochemical Components and Admittance based on Complex Relative Permittivity of Kidney Disease Patients' Blood Before and After Hemodialysis. IEEJ Transactions on Fundamentals and Materials, 2014, 134, 565-571.	0.2	0
93	Safety Problems of Electric and Magnetic Fields and Experimental Magnetic Fusion Facilities. Biological Effects of High-Frequency Electromagnetic Fields.. Journal of Plasma and Fusion Research, 1999, 75, 29-35.	0.4	0
94	An Evaluation Method on Effect of Geometrical Configuration to FM-Band Cross-Talk Characteristics between Two Parallel Signal Traces including their Divided Ground Patterns on Printed Circuit Boards for Vehicles. IEEJ Transactions on Fundamentals and Materials, 2015, 135, 9-16.	0.2	0