

# Tatsuya Kashiwa

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

462  
citations

1307594

7  
h-index

713466

21  
g-index

55  
all docs

55  
docs citations

55  
times ranked

278  
citing authors

#	ARTICLE	IF	CITATIONS
1	A treatment by the FD-FTD method of the dispersive characteristics associated with electronic polarization. Microwave and Optical Technology Letters, 1990, 3, 203-205.	1.4	180
2	Structural topology optimization for the design of broadband dielectric resonator antennas using the finite difference time domain technique. International Journal for Numerical Methods in Engineering, 2007, 71, 1261-1296.	2.8	81
3	A finite-difference time-domain formulation for transient propagation in dispersive media associated with Cole-Cole's circular ARC law. Microwave and Optical Technology Letters, 1990, 3, 416-419.	1.4	36
4	Two-Dimensional Full-Vectorial Finite Element Analysis of NRD Guide Devices. IEEE Microwave and Wireless Components Letters, 2021, 31, 345-348.	3.2	17
5	Risk Management of Heatstroke Based on Fast Computation of Temperature and Water Loss Using Weather Data for Exposure to Ambient Heat and Solar Radiation. IEEE Access, 2018, 6, 3774-3785.	4.2	16
6	Effects of car body on radiation pattern of car antenna mounted on side mirror for inter-vehicle communications. , 2014, , .		11
7	Scattering analysis of large-scale cavities using the nonstandard FDTD method. Electronics and Communications in Japan, 2001, 84, 8-16.	0.2	9
8	Nonstandard FDTD Method for Wideband Analysis. IEEE Transactions on Antennas and Propagation, 2009, 57, 2386-2396.	5.1	8
9	Three-dimensional analysis of patch antenna by bergeron's method. Electronics and Communications in Japan, 1989, 72, 44-54.	0.1	7
10	A formulation for surface impedance boundary conditions using the finite-difference time-domain method. Microwave and Optical Technology Letters, 1992, 5, 486-490.	1.4	6
11	A subgridding technique for the complex nonstandard FDTD method. Electronics and Communications in Japan, 2004, 87, 1-9.	0.2	6
12	FDTD large-scale parallel supercomputing and its application to the analysis of radiation characteristics of an antenna mounted on a vehicle. International Journal of RF and Microwave Computer-Aided Engineering, 2004, 14, 253-261.	1.2	6
13	Scattering Analysis of Large-Scale Coated Cavity Using the Complex Nonstandard FDTD Method With Surface Impedance Boundary Condition. IEEE Transactions on Magnetics, 2009, 45, 1296-1299.	2.1	6
14	Mosaic Based Optimization of NRD Guide Devices Using Binary Evolutionary Approaches and 2D-FVFEM. IEEE Access, 2022, 10, 60682-60695.	4.2	6
15	Unified analysis of ridge-waveguide slot antenna in three-dimensional space and time. Electronics and Communications in Japan, 1987, 70, 88-97.	0.1	5
16	Vehicle navigation system using UHF RF-ID. European Transport Research Review, 2013, 5, 91-99.	4.8	5
17	Optimal design of broadband non-radiative dielectric guide devices using binary genetic algorithm and 2D-FVFEM. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2022, 35, .	1.9	5
18	Analysis of crosstalk between parallel microstrips using finite-difference time-domain method. Electronics and Communications in Japan, 1991, 74, 23-31.	0.2	4

#	ARTICLE	IF	CITATIONS
19	Formulation of dispersive characteristics associated with orientation polarization using the FDTD method. Electronics and Communications in Japan, 1992, 75, 87-96.	0.1	4
20	A new transducer for thermography to observe the electric field distributions in a microwave oven. Microwave and Optical Technology Letters, 1991, 4, 81-83.	1.4	3
21	Periodic-structure-type electromagnetic wave absorber analysis by the Non-Standard FDTD method using complex formulation. Electronics and Communications in Japan, 2003, 86, 20-27.	0.2	3
22	Distance Dependence of Electric Field Pattern for An Antenna Mounted on A Car in Uhf Band. Microwave and Optical Technology Letters, 2013, 55, 2182-2186.	1.4	3
23	Intelligent driving lane with RF-ID for vehicle navigation system. , 2014, , .		3
24	Optimal design of dielectric flat lens utilizing Bayesian optimization. Microwave and Optical Technology Letters, 2021, 63, 1978-1983.	1.4	3
25	FDTD Analysis of Radio Wave Propagation at Intersection Surrounded by Concrete Block Walls in Residential Area for Inter-Vehicle Communications Using 720MHz Band. IEICE Transactions on Electronics, 2012, E95.C, 79-85.	0.6	3
26	Optimal Design of 90°-Bend in NRD Guide Using DBS Algorithm and 2D-FVFEM. , 2021, , .		3
27	Analysis of microstrip antennas on a curved surface using the conformal grids fd-td method. Electronics and Communications in Japan, 1993, 76, 73-81.	0.1	2
28	Time-domain analysis of yagi-uda antennas using the FD-TD method. Electronics and Communications in Japan, 1994, 77, 96-105.	0.1	2
29	Consumer Applications of Microwaves. , 1995, , 249-275.		2
30	Large-Scale Electromagnetic Simulation of a Full Automobile Model Using the FDTD Method and Measurement. , 2004, , .		2
31	New optimization parameters for the nonstandard FDTD method. Microwave and Optical Technology Letters, 2005, 47, 161-163.	1.4	2
32	Nonstandard FDTD Method for Multifrequency Analysis. IEEE Transactions on Magnetics, 2008, 44, 1390-1393.	2.1	2
33	Effect of conductor losses in new-structure filters for suppressing microwave leakage. Electronics and Communications in Japan, 1992, 75, 80-90.	0.2	1
34	Analysis of dielectric optical waveguides using the nonorthogonal finite-difference time-domain (FDTD) method. Electronics and Communications in Japan, 1994, 77, 20-27.	0.2	1
35	Analysis of electromagnetic fields using the finite-difference time-domain method in a microwave oven loaded with high-loss dielectric. Electronics and Communications in Japan, 1995, 78, 41-50.	0.2	1
36	On the duality of electric and magnetic fields using the nonstandard FDTD method. Microwave and Optical Technology Letters, 2004, 40, 148-151.	1.4	1

#	ARTICLE	IF	CITATIONS
37	Experimental study for vehicle navigation system with RF-ID. , 2008, , .		1
38	Effect of car antenna position on radio propagation characteristics at intersection for 760MHz inter-vehicle communications. , 2014, , .		1
39	Risk Evaluation of Heat Stroke with Multiphysics Computation and its Application. IEEJ Transactions on Fundamentals and Materials, 2018, 138, 288-294.	0.2	1
40	Optimal Design of Dielectric Flat Lens Based on Topology Optimization Concept. IEICE Transactions on Electronics, 2018, E101.C, 647-650.	0.6	1
41	Large-Scale FDTD Computation for Computational Electromagnetics. IEEJ Transactions on Fundamentals and Materials, 2004, 124, 1129-1134.	0.2	1
42	Propagation Analysis of Electromagnetic Waves in 700 MHz Band at Intersection for Inter-Vehicle Communications Using the FDTD Method. IEICE Transactions on Electronics, 2011, E94-C, 18-23.	0.6	1
43	Numerical Study on Path Loss Characteristics Considering Antenna Positions on Car Body at Blind Intersection in Urban Area for Inter-Vehicle Communications Using 700MHz Band. IEICE Transactions on Electronics, 2016, E99.C, 36-43.	0.6	1
44	Time-domain analysis of electromagnetic coupling of three-dimensional circuits involving through holes. The International Executive, 1993, 3, 432-441.	0.1	0
45	Estimation of higher-order modes using prony's method in the finite difference-time difference method. Electronics and Communications in Japan, 1995, 78, 28-35.	0.2	0
46	A method of SAR measurement using a high-molecular-weight gel phantom: On the correspondence of the surface of the clouded region to the surface of equipower absorption. Electronics and Communications in Japan, 2002, 85, 51-60.	0.1	0
47	FDTD simulation of radio wave propagation at intersection surrounded by compound walls in residential area for inter-vehicle communications using 720 MHz band. , 2012, , .		0
48	Distance characteristics of electric field pattern for an antenna mounted on a car in UHF band. , 2013, , .		0
49	Vehicle navigation in the intersection with data stored driving lane and UHF RF-ID system. , 2015, , .		0
50	Effect of Transparent Waves from Building Walls on Path Loss Characteristics at Blind Intersection in Urban Area for 700MHz Band Inter-Vehicle Communications. IEICE Transactions on Electronics, 2016, E99.C, 813-816.	0.6	0
51	Evaluating method of the on-board FM receiver characteristics using MUSIC method and the Two-Stage method. , 2016, , .		0
52	Study on accuracy of direction of arrival estimation in FDTD analysis of radio propagation using MUSIC method. , 2016, , .		0
53	FDTD Method as a Counterpart of Ray-Tracing Method to Analyze Radio Wave Propagation. IEICE Transactions on Electronics, 2017, E100.C, 68-74.	0.6	0
54	Optimal Design Approach Based on Bayesian Optimization and Beam Propagation Method for Optical Waveguide Devices. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
55	Large-Scale FDTD Computation as Computational Electromagnetics. IEEJ Transactions on Fundamentals and Materials, 2009, 129, 50-53.	0.2	0