

Giovanni Miano

List of Publications by Year in descending order

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159
papers

2,544
citations

186265

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254184

43
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166
all docs

166
docs citations

166
times ranked

2393
citing authors

#	ARTICLE	IF	CITATIONS
1	Electromagnetic Scattering by Networks of High-Permittivity Thin Wires. <i>Physical Review Applied</i> , 2021, 16, .	3.8	0
2	Time-domain formulation of electromagnetic scattering based on a polarization-mode expansion and the principle of least action. <i>Physical Review A</i> , 2021, 104, .	2.5	5
3	Quantum theory of radiative decay rate and frequency shift of surface plasmon modes. <i>Physical Review A</i> , 2020, 102, .	2.5	6
4	Magnetoquasistatic resonances of small dielectric objects. <i>Physical Review Research</i> , 2020, 2, .	3.6	9
5	Full-wave electromagnetic modes and hybridization in nanoparticle dimers. <i>Scientific Reports</i> , 2019, 9, 14524.	3.3	23
6	Electromagnetic Scattering Resonances of Quasi-1-D Nanoribbons. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 5497-5506.	5.1	2
7	Electromagnetic modes and resonances of two-dimensional bodies. <i>Physical Review B</i> , 2019, 99, .	3.2	10
8	Volume Integral Formulation for the Calculation of Material Independent Modes of Dielectric Scatterers. <i>IEEE Transactions on Antennas and Propagation</i> , 2018, 66, 2505-2514.	5.1	14
9	A Full-Retarded Spectral Technique for the Analysis of Fano Resonances in a Dielectric Nanosphere. <i>Springer Series in Optical Sciences</i> , 2018, , 185-218.	0.7	2
10	A Frequency Stable Volume Integral Equation Method for Anisotropic Scatterers. <i>IEEE Transactions on Antennas and Propagation</i> , 2017, 65, 1224-1235.	5.1	11
11	Modeling, Fabrication, and Characterization of Large Carbon Nanotube Interconnects With Negative Temperature Coefficient of the Resistance. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2017, 7, 485-493.	2.5	33
12	Anomalous electromagnetic coupling via entanglement at the nanoscale. <i>New Journal of Physics</i> , 2017, 19, 023014.	2.9	11
13	On small signal equivalent circuit models for quantum dots. <i>International Journal of Circuit Theory and Applications</i> , 2017, 45, 935-950.	2.0	4
14	Spectral theory of electromagnetic scattering by a coated sphere. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 1524.	2.1	8
15	Quantum entanglement in electric circuits: From anomalous crosstalk to electromagnetic compatibility in nano-electronics. , 2016, , .		0
16	Material-independent modes for electromagnetic scattering. <i>Physical Review B</i> , 2016, 94, .	3.2	21
17	Simple Theoretical Considerations for Blockâ€Copolymerâ€CBased Plasmonic Metamaterials. <i>Macromolecular Symposia</i> , 2016, 359, 72-78.	0.7	3
18	Nanoscale Electromagnetic Compatibility: Quantum Coupling and Matching in Nanocircuits. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015, 57, 1645-1654.	2.2	24

#	ARTICLE	IF	CITATIONS
19	Electrical Properties of Graphene for Interconnect Applications. Applied Sciences (Switzerland), 2014, 4, 305-317.	2.5	31
20	Investigation of Plasmonic Resonances in Mismatched Gold Nanocone Dimers. Plasmonics, 2014, 9, 35-45.	3.4	17
21	Full-Wave Analytical Solution of Second-Harmonic Generation in Metal Nanospheres. Plasmonics, 2014, 9, 151-166.	3.4	24
22	Size-dependent second-harmonic generation from gold nanoparticles. Physical Review B, 2014, 89, .	3.2	38
23	Cloaking of arbitrarily shaped objects with homogeneous coatings. Physical Review B, 2014, 89, .	3.2	4
24	Block-copolymer-based plasmonic metamaterials. , 2013, , .		2
25	A general transmission line model for conventional metallic nanowires and innovative carbon nano-interconnects. , 2013, , .		3
26	Plasmonic Fano Resonances in Single-Layer Gold Conical Nanoshells. Plasmonics, 2013, 8, 1429-1437.	3.4	30
27	Higher Order Tunable Fano Resonances in Multilayer Nanocones. Plasmonics, 2013, 8, 1023-1034.	3.4	24
28	Number of Conducting Channels for Armchair and Zig-Zag Graphene Nanoribbon Interconnects. IEEE Nanotechnology Magazine, 2013, 12, 817-823.	2.0	28
29	Theory of coupled plasmon modes and Fano-like resonances in subwavelength metal structures. Physical Review B, 2013, 88, .	3.2	53
30	Overview of the JET results with the ITER-like wall. Nuclear Fusion, 2013, 53, 104002.	3.5	70
31	Circuit Models of Carbon-Based Interconnects for Nanopackaging. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2013, 3, 1926-1937.	2.5	35
32	Generation of second harmonic radiation from sub-stoichiometric silicon nitride thin films. Applied Physics Letters, 2013, 102, 141114.	3.3	21
33	Temperature effects on electrical performance of carbon-based nano-interconnects at chip and package level. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2013, 26, 560-572.	1.9	10
34	Transmission Line Model of Graphene Nanoribbon Interconnects. Nanoscience and Nanotechnology Letters, 2013, 5, 1207-1216.	0.4	11
35	Surface integral method for second harmonic generation in metal nanoparticles including both local-surface and nonlocal-bulk sources. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2355.	2.1	34
36	Scattering properties of carbon nanotubes. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 32, 1793-1808.	0.9	2

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37	Multipolar second harmonic generation from planar arrays of Au nanoparticles. Optics Express, 2012, 20, 15797.	3.4	43
38	Transmission-Line Model for Multiwall Carbon Nanotubes With Intershell Tunneling. IEEE Nanotechnology Magazine, 2012, 11, 554-564.	2.0	25
39	A temperature-dependent circuit model for carbon-based on-chip global interconnects. , 2012, , .		1
40	Surface integral formulations for the design of plasmonic nanostructures. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 2314.	1.5	32
41	GPU-accelerated T-matrix algorithm for light-scattering simulations. Journal of Computational Physics, 2012, 231, 5640-5652.	3.8	7
42	Genetically Engineered Plasmonic Nanoarrays. Nano Letters, 2012, 12, 2037-2044.	9.1	102
43	Electrical Modeling of Carbon Nanotube Vias. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 158-166.	2.2	28
44	Electrical Propagation Models for Single- and Multi-Wall Carbon Nanotubes. Journal of Nanoelectronics and Optoelectronics, 2012, 7, 12-16.	0.5	1
45	Genetically Engineered Plasmonic Nano-Arrays. , 2012, , .		0
46	Modeling carbon nanotube bundles for future on-chip nano-interconnects. , 2011, , .		1
47	Electrical behaviour of carbon nanotube Through-Silicon Vias. , 2011, , .		7
48	On the Evaluation of the Number of Conducting Channels in Multiwall Carbon Nanotubes. IEEE Nanotechnology Magazine, 2011, 10, 1221-1223.	2.0	25
49	Numerical modeling for plasmonics. International Journal of Applied Electromagnetics and Mechanics, 2011, 35, 79-91.	0.6	4
50	Signal Propagation in Carbon Nanotubes of Arbitrary Chirality. IEEE Nanotechnology Magazine, 2011, 10, 135-149.	2.0	53
51	Near-field calculation based on the T-matrix method with discrete sources. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 2384-2394.	2.3	16
52	AN HYBRID MODEL FOR THE EVALUATION OF THE FULL-WAVE FAR-FIELD RADIATED EMISSION FROM PCB TRACES. Progress in Electromagnetics Research, 2010, 101, 125-138.	4.4	7
53	Assessment of the Electromagnetic Disturbance of a Glass Fiber Reinforced Composite Fencing Structure. Journal of Composites for Construction, 2010, 14, 629-635.	3.2	4
54	Scattering properties of carbon nanotube arrays. International Journal of Microwave and Wireless Technologies, 2010, 2, 445-452.	1.9	1

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55	Particle-swarm optimization of broadband nanoplasmonic arrays. <i>Optics Letters</i> , 2010, 35, 133.	3.3	81
56	Hydrodynamic model for the signal propagation along carbon nanotubes. <i>Journal of Nanophotonics</i> , 2010, 4, 041695.	1.0	20
57	Size and temperature effects on the resistance of copper and carbon nanotubes nano-interconnects. , 2010, , .		23
58	Numerical Modeling for the Analysis of Plasmon Oscillations in Metallic Nanoparticles. <i>IEEE Transactions on Antennas and Propagation</i> , 2010, 58, 2920-2933.	5.1	7
59	Role of aperiodic order in the spectral, localization, and scaling properties of plasmon modes for the design of nanoparticle arrays. <i>Physical Review B</i> , 2009, 79, .	3.2	35
60	Dipolar mode localization and spectral gaps in quasi-periodic arrays of ferromagnetic nanoparticles. <i>Physical Review B</i> , 2009, 79, .	3.2	7
61	Finite element computations of resonant modes for small magnetic particles. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	4
62	A Fast Computation Method for the Analysis of an Array of Metallic Nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 1618-1621.	2.1	5
63	A novel formulation for the numerical computation of magnetization modes in complex micromagnetic systems. <i>Journal of Computational Physics</i> , 2009, 228, 6130-6149.	3.8	39
64	The role of nanoparticle shapes and deterministic aperiodicity for the design of nanoplasmonic arrays. <i>Optics Express</i> , 2009, 17, 9648.	3.4	54
65	Nanoplasmonics of prime number arrays. <i>Optics Express</i> , 2009, 17, 24288.	3.4	19
66	High frequency and crosstalk analysis of VLSI carbon nanotube nanointerconnects. , 2009, , .		6
67	A New Circuit Model for Carbon Nanotube Interconnects With Diameter-Dependent Parameters. <i>IEEE Nanotechnology Magazine</i> , 2009, 8, 345-354.	2.0	50
68	Signal integrity analysis of carbon nanotube on-chip interconnects. , 2009, , .		2
69	A transmission line model for metallic carbon nanotube interconnects. <i>International Journal of Circuit Theory and Applications</i> , 2008, 36, 31-51.	2.0	65
70	Magnetization normal oscillation modes in saturated ferromagnetic nanoparticles. <i>Physica B: Condensed Matter</i> , 2008, 403, 242-244.	2.7	7
71	Analysis of Multiwall Carbon Nanotubes Using a Three-Dimensional Integral Formulation and a Fluid Model. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 1614-1617.	2.1	4
72	Linearized Fluid Model for Plasmon Oscillations in Metallic Nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 822-825.	2.1	8

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73	A Transmission-Line Model for Full-Wave Analysis of Mixed-Mode Propagation. IEEE Transactions on Advanced Packaging, 2008, 31, 275-284.	1.6	16
74	Plasmonic, Carbon Nanotube and Conventional nano-interconnects: a comparison of propagation properties. , 2008, , .		0
75	Performance Comparison Between Metallic Carbon Nanotube and Copper Nano-Interconnects. IEEE Transactions on Advanced Packaging, 2008, 31, 692-699.	1.6	50
76	Computation of Resonant Modes and Frequencies for Saturated Ferromagnetic Nanoparticles. IEEE Transactions on Magnetics, 2008, 44, 3141-3144.	2.1	8
77	Electromagnetic and circuital modeling of carbon nanotube interconnects. , 2008, , .		2
78	Electromagnetic models for metallic carbon nanotube interconnects. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2007, 26, 571-585.	0.9	7
79	Analysis of plasmon oscillations in metallic nanoparticles. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2007, 26, 626-639.	0.9	3
80	Numerical modelling of the interaction of nanoparticles with electromagnetic waves. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2007, 26, 586-599.	0.9	4
81	Comparison between metallic carbon nanotube and copper future VLSI nano-interconnects. , 2007, , .		8
82	Low-Order Identification of Interconnects With the Generalized Method of Characteristics. IEEE Transactions on Electromagnetic Compatibility, 2007, 49, 670-676.	2.2	5
83	Analysis of Dynamics of Excitation and Dephasing of Plasmon Resonance Modes in Nanoparticles. Physical Review Letters, 2007, 98, 147401.	7.8	70
84	Metallic Carbon Nanotube Interconnects, Part II: a Transmission Line Model. , 2006, , .		6
85	An Integral Formulation for the Electrodynamics of Metallic Carbon Nanotubes Based on a Fluid Model. IEEE Transactions on Antennas and Propagation, 2006, 54, 2713-2724.	5.1	83
86	Evaluation of Crosstalk in High-Frequency Interconnects with an Enhanced Transmission Line Model. , 2006, , .		1
87	Metallic Carbon Nanotube Interconnects, Part I: a Fluid Model and a 3D Integral Formulation. , 2006, , .		8
88	Full-wave Numerical Analysis of Single-Layered Substrate Planar Interconnects. , 2006, , .		2
89	Broad-Band Characterization of Conductors with Arbitrary Topology Using a Surface Integral Formulation. , 2006, , .		0
90	Geometrical integration of Landauâ€“Lifshitzâ€“Gilbert equation based on the mid-point rule. Journal of Computational Physics, 2005, 209, 730-753.	3.8	108

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91	Numerical integration of Landau-Lifshitz-Gilbert equation based on the midpoint rule. Journal of Applied Physics, 2005, 97, 10E319.	2.5	24
92	A surface integral formulation of Maxwell equations for topologically complex conducting domains. IEEE Transactions on Antennas and Propagation, 2005, 53, 4001-4014.	5.1	39
93	An enhanced transmission line model for conductors with arbitrary cross sections. IEEE Transactions on Advanced Packaging, 2005, 28, 174-188.	1.6	18
94	An Enhanced Transmission Line Model for Conducting Wires. IEEE Transactions on Electromagnetic Compatibility, 2004, 46, 512-528.	2.2	44
95	A new approach to computations of forces in magnetic fluids. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 657-658.	2.3	0
96	Full-wave transmission-line theory. IEEE Transactions on Magnetics, 2003, 39, 1594-1597.	2.1	14
97	Deformations of polarizable fluids subject to stationary electromagnetic fields. IEEE Transactions on Magnetics, 2003, 39, 1440-1443.	2.1	1
98	A full-wave model for the analysis of the high-frequency behavior of open interconnect structures. , 2003, , .		1
99	Forces in magnetic fluids subject to stationary magnetic fields. IEEE Transactions on Magnetics, 2003, 39, 2657-2659.	2.1	8
100	Overview of JET results. Nuclear Fusion, 2003, 43, 1540-1554.	3.5	38
101	Time-domain two-port representation of some nonuniform two-conductor transmission lines. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 1639-1645.	0.1	2
102	Ideal Multiconductor Transmission Lines. , 2001, , 93-127.		0
103	A mixed frequency and time domain approach for accurate evaluation of the dynamics of lemp-excited lossy multiconductor power lines. Electrical Engineering, 2001, 83, 147-155.	2.0	7
104	Lossy Multiconductor Transmission Lines. , 2001, , 215-263.		0
105	Nonuniform Transmission Lines. , 2001, , 265-304.		9
106	An accurate time-domain model of transmission lines with frequency-dependent parameters. International Journal of Circuit Theory and Applications, 2000, 28, 263-280.	2.0	11
107	Theory and simulations of intense laser cooled coasting beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 441, 191-195.	1.6	0
108	Eddy current losses in ferromagnetic laminations. Journal of Applied Physics, 2000, 87, 6923-6925.	2.5	36

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109	Fluid description of the longitudinal instability in high current coasting beams. Physics of Plasmas, 1999, 6, 4349-4359.	1.9	6
110	Ring capacitance in microstrip. Journal of Electrostatics, 1999, 46, 49-57.	1.9	5
111	On the uniqueness of the numerical solution of non-linearly loaded lossy transmission lines. International Journal of Circuit Theory and Applications, 1999, 27, 455-472.	2.0	3
112	Irregular terms in the impulse response of a multiconductor lossy transmission line. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1999, 46, 788-805.	0.1	17
113	Comparison between theory and simulations for longitudinal instabilities of coasting beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 415, 411-416.	1.6	6
114	On the dynamic equations of linear multiconductor transmission lines with terminal nonlinear multiport resistors. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1998, 45, 812-829.	0.1	8
115	Uniqueness of solution for linear transmission lines with nonlinear terminal resistors. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1997, 44, 569-582.	0.1	6
116	Report of the working group on plasma phenomena in beams. AIP Conference Proceedings, 1997, , .	0.4	0
117	Models of magnetic hysteresis based on play and stop hysterons. IEEE Transactions on Magnetics, 1997, 33, 4417-4426.	2.1	136
118	Time-domain two-port representations of a lossy line. Electrical Engineering, 1997, 80, 235-240.	2.0	2
119	Electromagnetic waves dynamics in a nonlinear dielectric slab by the method of characteristics. Electrical Engineering, 1997, 80, 5-12.	2.0	0
120	A new numerical treatment for Pocklington's integral equation. IEEE Transactions on Magnetics, 1996, 32, 918-921.	2.1	5
121	Time domain analysis of a charged particle travelling along the axis of a circular waveguide. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1996, 111, 659-664.	0.2	1
122	A new model of magnetic hysteresis, based on stop hysterons: an application to the magnetic field diffusion. IEEE Transactions on Magnetics, 1996, 32, 1132-1135.	2.1	17
123	Bifurcations and chaos in transmission lines. Archiv Fuer Elektrotechnik, 1996, 79, 165-171.	0.1	4
124	Numerical solution of the Maxwell equations in nonlinear media. IEEE Transactions on Magnetics, 1996, 32, 950-953.	2.1	1
125	A new technique for simulating nonlinear loaded lossy lines. IEEE Transactions on Magnetics, 1996, 32, 934-937.	2.1	4
126	A new method to compute the capacitance of the circular patch resonator. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 1996, 15, 73-85.	0.9	3

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127	Field distribution in cable terminations from a quasi-static approximation of the Maxwell equations. IEEE Transactions on Dielectrics and Electrical Insulation, 1996, 3, 399-409.	2.9	28
128	Capacitance of a cylindrical system. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1996, 111, 769-781.	0.2	0
129	A new method to compute the longitudinal coupling impedance of a drift tube. Il Nuovo Cimento A, 1996, 109, 99-109.	0.2	2
130	A new model of static scalar hysteresis. Journal of Magnetism and Magnetic Materials, 1996, 160, 89-90.	2.3	2
131	A hybrid procedure to solve Hallen's problem. IEEE Transactions on Electromagnetic Compatibility, 1996, 38, 495-498.	2.2	4
132	An analytical approach to optical properties of plasma lenses with a non-linear magnetic field profile. Fusion Engineering and Design, 1996, 32-33, 377-383.	1.9	5
133	Comparison of different hysteresis models in FE analysis of magnetic field diffusion. IEEE Transactions on Magnetics, 1995, 31, 1789-1792.	2.1	12
134	A qualitative analysis of the behaviour of the Galerkin equations relevant to non-linear eddy current problems. International Journal for Numerical Methods in Engineering, 1995, 38, 631-647.	2.8	0
135	Some integrals involving Bessel functions. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1995, 110, 441-454.	0.2	2
136	A new method of solution of Hallen's problem. Journal of Mathematical Physics, 1995, 36, 4087-4099.	1.1	15
137	Magnetic field reconstruction with optical fiber sensors in plasma lenses. IEEE Transactions on Plasma Science, 1995, 23, 381-387.	1.3	1
138	A new model of scalar magnetic hysteresis. IEEE Transactions on Magnetics, 1994, 30, 3367-3370.	2.1	11
139	A numerical analysis of the behaviour of the Galerkin equations relevant to electromagnetic wave propagation in nonlinear media. IEEE Transactions on Magnetics, 1994, 30, 3196-3199.	2.1	3
140	Applications of a new model of scalar hysteresis to a series ferroresonant circuit. Journal of Magnetism and Magnetic Materials, 1994, 133, 596-598.	2.3	5
141	Chaotic dynamics in a simple electromagnetic system. Il Nuovo Cimento B, 1994, 109, 911-916.	0.1	2
142	Chaotic dynamics in an infinite-dimensional electromagnetic system. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1994, 41, 730-736.	0.1	20
143	Periodic solutions of nonlinear eddy current problems in three-dimensional geometries. IEEE Transactions on Magnetics, 1992, 28, 1118-1121.	2.1	17
144	Coupling of a nonlinear diffusive electromagnetic system to a linear electric circuit. IEEE Transactions on Magnetics, 1992, 28, 1307-1310.	2.1	1

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145	On the numerical solution of the nonlinear three-dimensional eddy current problem. IEEE Transactions on Magnetics, 1991, 27, 3990-3995.	2.1	14
146	The plasma undulator. Physica Scripta, 1990, T30, 192-197.	2.5	20
147	A beat wave experiment in an open resonator. Physica Scripta, 1990, T30, 122-126.	2.5	4
148	Three dimensional analysis of nonlinear plasma oscillation. Physica Scripta, 1990, T30, 198-207.	2.5	4
149	Saturation and cross-field coupling of beat wave driven 3-D plasma waves. Plasma Physics and Controlled Fusion, 1989, 31, 1381-1389.	2.1	3
150	A one-dimensional solution of the homogeneous diffusion equation. IEEE Transactions on Education, 1989, 32, 454-456.	2.4	0
151	Dynamics of nonlinearly excited plasma waves. Physics of Fluids, 1988, 31, 848.	1.4	5
152	Volterra's series solutions of free boundary plasma equilibria. Physics of Fluids, 1987, 30, 409.	1.4	1
153	A Microwave-Driven Beat Wave Accelerator for Scaled Experiments. IEEE Transactions on Plasma Science, 1987, 15, 179-185.	1.3	2
154	A Z-Pinch Plasma Lens for Focusing High-Energy Particles in an Accelerator. IEEE Transactions on Plasma Science, 1987, 15, 226-237.	1.3	36
155	Numerical analysis of time-dependent field perturbations due to gaps and holes in the shell of a reverse field pinch device. IEEE Transactions on Magnetics, 1985, 21, 2400-2403.	2.1	7
156	A T formulation for 3D finite element Eddy current computation. IEEE Transactions on Magnetics, 1985, 21, 2299-2302.	2.1	25
157	A plasma lens for the CERN Antiproton Collector scaled from model and experiment. , 0, , .		1
158	Analysis of interconnects in huge frequency ranges with a 3-d superficial integral formulation. , 0, , .		2
159	Signal integrity analysis of high-speed interconnects through a full-wave transmission line model. , 0, , .		2