

# GÃ©rard M Meunier

## List of Publications by Year in descending order

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317  
papers

5,384  
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docs citations

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times ranked

3840  
citing authors

#	ARTICLE	IF	CITATIONS
1	TURBISCAN MA 2000: multiple light scattering measurement for concentrated emulsion and suspension instability analysis. <i>Talanta</i> , 1999, 50, 445-456.	2.9	447
2	XPS study of thin films of titanium oxysulfides. <i>Surface Science</i> , 1991, 254, 81-89.	0.8	329
3	Finite element implementation of virtual work principle for magnetic or electric force and torque computation. <i>IEEE Transactions on Magnetics</i> , 1984, 20, 1894-1896.	1.2	219
4	Influence of skull anisotropy for the forward and inverse problem in EEG: Simulation studies using FEM on realistic head models. , 1998, 6, 250-269.		139
5	X-ray photoelectron spectroscopy characterization of amorphous molybdenum oxysulfide thin films. <i>Thin Solid Films</i> , 1995, 258, 110-114.	0.8	134
6	Finite-Element Method Modeling of Superconductors: From 2-D to 3-D. <i>IEEE Transactions on Applied Superconductivity</i> , 2005, 15, 17-25.	1.1	102
7	Coupled field-circuit problems: trends and accomplishments. <i>IEEE Transactions on Magnetics</i> , 1993, 29, 1701-1704.	1.2	100
8	Comparison of numerical methods for modeling of superconductors. <i>IEEE Transactions on Magnetics</i> , 2002, 38, 849-852.	1.2	93
9	Finite element modeling of unbounded problems using transformations: a rigorous, powerful and easy solution. <i>IEEE Transactions on Magnetics</i> , 1992, 28, 1663-1666.	1.2	90
10	New positive-electrode materials for lithium thin film secondary batteries. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1989, 3, 19-23.	1.7	79
11	Simulation of induction machine operation using complex magnetodynamic finite elements. <i>IEEE Transactions on Magnetics</i> , 1989, 25, 3064-3066.	1.2	68
12	A general purpose method for electric and magnetic combined problems for 2D, axisymmetric and transient systems. <i>IEEE Transactions on Magnetics</i> , 1993, 29, 1737-1740.	1.2	62
13	A Lossy Circuit Model Based on Physical Interpretation for Integrated Shielded Slow-Wave CMOS Coplanar Waveguide Structures. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2013, 61, 754-763.	2.9	61
14	Simulation of induction machine operation using a step by step finite element method coupled with circuits and mechanical equations. <i>IEEE Transactions on Magnetics</i> , 1991, 27, 5232-5234.	1.2	60
15	A general method for electric and magnetic coupled problem in 2D and magnetodynamic domain. <i>IEEE Transactions on Magnetics</i> , 1992, 28, 1291-1294.	1.2	58
16	XPS analysis of lithium intercalation in thin films of molybdenum oxysulphides. <i>Surface and Interface Analysis</i> , 1994, 22, 206-210.	0.8	56
17	A nonlinear circuit coupled $t - t/\text{sub } 0/ - \dot{t}$ formulation for solid conductors. <i>IEEE Transactions on Magnetics</i> , 2003, 39, 1729-1732.	1.2	54
18	A finite element method for calculating the electromagnetic fields generated by substation grounding systems. <i>IEEE Transactions on Magnetics</i> , 1995, 31, 2150-2153.	1.2	53

#	ARTICLE	IF	CITATIONS
19	Innovating approaches to the generation of intense magnetic fields : design and optimization of a 4 Tesla permanent magnet flux source. IEEE Transactions on Magnetics, 1998, 34, 2465-2468.	1.2	51
20	Calculating the impedance of a grounding system. IEEE Transactions on Magnetics, 1996, 32, 1509-1512.	1.2	47
21	A 3-D finite-element computation of eddy currents and losses in laminated iron cores allowing for electric and magnetic anisotropy. IEEE Transactions on Magnetics, 1995, 31, 2139-2141.	1.2	46
22	Solid state microbatteries. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1989, 3, 5-12.	1.7	45
23	Finite element modeling of open boundary problems. IEEE Transactions on Magnetics, 1990, 26, 588-591.	1.2	45
24	An original solution for unbounded electromagnetic 2D- and 3D-problems throughout the finite element method. IEEE Transactions on Magnetics, 1990, 26, 1659-1661.	1.2	44
25	Different formulations to model superconductors. IEEE Transactions on Magnetics, 2000, 36, 1226-1229.	1.2	43
26	Simulation of induction machines using complex magnetodynamic finite element method coupled with the circuit equations. IEEE Transactions on Magnetics, 1991, 27, 4246-4249.	1.2	42
27	A shell element for computing 3D eddy currents-application to transformers. IEEE Transactions on Magnetics, 1995, 31, 1360-1363.	1.2	42
28	High-Resolution Studies in Ion Beams with Laser-Induced Resonances. Physical Review Letters, 1976, 37, 1678-1681.	2.9	40
29	FLUX: A general interactive finite elements package for 2D electromagnetic fields. IEEE Transactions on Magnetics, 1982, 18, 624-626.	1.2	40
30	Comparison of global force calculations on permanent magnets. IEEE Transactions on Magnetics, 1998, 34, 3560-3563.	1.2	37
31	An approach for automatic adaptive mesh refinement in finite element computation of magnetic fields. IEEE Transactions on Magnetics, 1989, 25, 2965-2967.	1.2	35
32	Comparison between various hysteresis models and experimental data. IEEE Transactions on Magnetics, 1990, 26, 2837-2839.	1.2	35
33	Ship magnetizations modelling by the finite element method. IEEE Transactions on Magnetics, 1993, 29, 1970-1975.	1.2	35
34	A Global Study of a Contactless Energy Transfer System: Analytical Design, Virtual Prototyping, and Experimental Validation. IEEE Transactions on Power Electronics, 2013, 28, 4690-4699.	5.4	35
35	Evidences for an efficient demethylation of methoxyellipticine derivatives catalyzed by a peroxidase. Journal of the American Chemical Society, 1985, 107, 2558-2560.	6.6	34
36	About the distribution of forces in permanent magnets. IEEE Transactions on Magnetics, 1999, 35, 1215-1218.	1.2	34

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37	A general purpose tool for restoring inter-element continuity. IEEE Transactions on Magnetics, 1992, 28, 1728-1731.	1.2	33
38	Surface impedance for 3D nonlinear eddy current problems-application to loss computation in transformers. IEEE Transactions on Magnetics, 1996, 32, 808-811.	1.2	33
39	3D mesh connection techniques applied to movement simulation. IEEE Transactions on Magnetics, 1998, 34, 3359-3362.	1.2	33
40	Modelisation of 2D and axisymmetric magnetodynamic domain by the finite elements method. IEEE Transactions on Magnetics, 1988, 24, 166-169.	1.2	32
41	Line element for efficient computation of the magnetic field created by thin iron plates. IEEE Transactions on Magnetics, 1990, 26, 2196-2198.	1.2	32
42	A 3D finite-element computation of eddy currents and losses in the stator end laminations of large synchronous machines. IEEE Transactions on Magnetics, 1996, 32, 1569-1572.	1.2	32
43	Unexpected regiospecific alkylation of the antitumor agent N2-methyl-9-hydroxyellipticinium acetate with N, O or S donors. Tetrahedron Letters, 1983, 24, 365-368.	0.7	31
44	A posteriori error estimate for adaptive finite element mesh generation. IEEE Transactions on Magnetics, 1988, 24, 315-317.	1.2	31
45	Direct magnetic loss analysis by FEM considering vector magnetic properties. IEEE Transactions on Magnetics, 1998, 34, 3008-3011.	1.2	31
46	Distribution of electromagnetic force in permanent magnets. IEEE Transactions on Magnetics, 1998, 34, 3012-3015.	1.2	30
47	High-Frequency Proximity Losses Determination for Rectangular Cross-Section Conductors. IEEE Transactions on Magnetics, 2007, 43, 1213-1216.	1.2	30
48	Homogenization for Periodical Electromagnetic Structure: Which Formulation?. IEEE Transactions on Magnetics, 2010, 46, 3409-3412.	1.2	30
49	Modeling and Computation of Losses in Conductors and Magnetic Cores of a Large Air Gap Transformer Dedicated to Contactless Energy Transfer. IEEE Transactions on Magnetics, 2013, 49, 586-590.	1.2	30
50	Magnetic fields in nonlinear anisotropic grain-oriented iron-sheet. IEEE Transactions on Magnetics, 1990, 26, 524-527.	1.2	29
51	Dynamic modelling of giant magnetostriction in Terfenol-D rods by the finite element method. IEEE Transactions on Magnetics, 1995, 31, 1821-1824.	1.2	29
52	Coupled problem computation of 3-D multiply connected magnetic circuits and electric circuits. IEEE Transactions on Magnetics, 2003, 39, 1725-1728.	1.2	29
53	Adsorption of vanadate on $\hat{I}^3$ -alumina: Comparison with other isopolyanions. Applied Catalysis, 1986, 21, 329-335.	1.1	28
54	End winding reactance computation using a 3D finite element program. IEEE Transactions on Magnetics, 1993, 29, 1411-1414.	1.2	27

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55	Eddy-Current Effects in Circuit Breakers During Arc Displacement Phase. IEEE Transactions on Magnetics, 2004, 40, 1358-1361.	1.2	27
56	Computation of coupled problem of 3D eddy current and electrical circuit by using T/sub 0/-T-tilde formulation. IEEE Transactions on Magnetics, 1998, 34, 3074-3077.	1.2	26
57	An Integral Formulation for the Computation of 3-D Eddy Current Using Facet Elements. IEEE Transactions on Magnetics, 2014, 50, 549-552.	1.2	26
58	Solution of magnetic fields and electrical circuits combined problems. IEEE Transactions on Magnetics, 1985, 21, 2288-2291.	1.2	25
59	Computation of 2D and 3D eddy currents in moving conductors of electromagnetic retarders. IEEE Transactions on Magnetics, 1990, 26, 2382-2384.	1.2	25
60	3D eddy current losses calculation in transformer tanks using the finite element method. IEEE Transactions on Magnetics, 1993, 29, 1419-1422.	1.2	25
61	Three dimensional magnetostatic finite elements for gaps and iron shells using magnetic scalar potentials. IEEE Transactions on Magnetics, 1994, 30, 2885-2888.	1.2	25
62	Application of magnetostrictive thin films for microdevices. IEEE Transactions on Magnetics, 1997, 33, 2163-2166.	1.2	25
63	Nonlinear finite element modelling of magneto-mechanical phenomenon in giant magnetostrictive thin films. IEEE Transactions on Magnetics, 1997, 33, 1620-1623.	1.2	25
64	Hybrid finite element boundary element solutions for three dimensional scalar potential problems. IEEE Transactions on Magnetics, 1986, 22, 1040-1042.	1.2	24
65	pâ€•andhâ€™type adaptive mesh generation. Journal of Applied Physics, 1990, 67, 5803-5805.	1.1	24
66	Space-resolved diffusing wave spectroscopy measurements of the macroscopic deformation and the microscopic dynamics in tensile strain tests. Optics and Lasers in Engineering, 2017, 88, 5-12.	2.0	24
67	Flux3D, a finite element package for magnetic computation. IEEE Transactions on Magnetics, 1985, 21, 2499-2502.	1.2	23
68	New amorphous titanium oxysulfides obtained in the form of thin films. Thin Solid Films, 1991, 205, 213-217.	0.8	23
69	Thin film permeation membranes for hydrogen purification. International Journal of Hydrogen Energy, 1992, 17, 599-602.	3.8	23
70	3D finite element computation of the high frequency parameters of power transformer windings. IEEE Transactions on Magnetics, 1993, 29, 1407-1410.	1.2	23
71	New amorphous molybdenum oxysulfides obtained in the form of thin films and their characterization by TEM. Thin Solid Films, 1994, 245, 34-39.	0.8	22
72	Modeling of Losses and Current Density Distribution in Conductors of a Large Air-Gap Transformer Using Homogenization and 3-D FEM. IEEE Transactions on Magnetics, 2012, 48, 763-766.	1.2	22

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73	Volume Integral Formulation Using Face Elements for Electromagnetic Problem Considering Conductors and Dielectrics. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 1587-1594.	1.4	22
74	Amorphous molybdenum oxysulfide thin films and their physical characterization. Thin Solid Films, 1995, 260, 21-25.	0.8	21
75	An Energy Based Approach of Electromagnetism Applied to Adaptive Meshing and Error Criteria. IEEE Transactions on Magnetics, 2008, 44, 1246-1249.	1.2	21
76	A New Integral Formulation for Eddy Current Computation in Thin Conductive Shells. IEEE Transactions on Magnetics, 2012, 48, 427-430.	1.2	21
77	A Volume Integral Formulation Based on Facet Elements for Nonlinear Magnetostatic Problems. IEEE Transactions on Magnetics, 2015, 51, 1-6.	1.2	21
78	Application of the impedance boundary condition in a finite element environment using the reduced potential formulation. IEEE Transactions on Magnetics, 1991, 27, 5022-5024.	1.2	20
79	Nonlinear finite element modelling of giant magnetostriction. IEEE Transactions on Magnetics, 1993, 29, 2467-2469.	1.2	20
80	Resolution of Nonlinear Magnetostatic Problems With a Volume Integral Method Using the Magnetic Scalar Potential. IEEE Transactions on Magnetics, 2013, 49, 1685-1688.	1.2	20
81	3D edge element based formulation coupled to electric circuits. IEEE Transactions on Magnetics, 1998, 34, 3162-3165.	1.2	19
82	Adaptive Multipoint Model Order Reduction Scheme for Large-Scale Inductive PEEC Circuits. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 1143-1151.	1.4	19
83	3D line current model of coils and external circuits. IEEE Transactions on Magnetics, 1995, 31, 1853-1856.	1.2	18
84	Thermal-electromagnetic modeling of superconductors. Cryogenics, 2007, 47, 539-545.	0.9	18
85	AN INDEPENDENT LOOPS SEARCH ALGORITHM FOR SOLVING INDUCTIVE PEEC LARGE PROBLEMS. Progress in Electromagnetics Research M, 2012, 23, 53-63.	0.5	18
86	3-D Numerical Modeling of AC Losses in Multifilamentary MgB <sub>2</sub> Wires. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-7.	1.1	18
87	Energy methods for the evaluation of global quantities and integral parameters in a finite elements analysis of electromagnetic devices. IEEE Transactions on Magnetics, 1985, 21, 1817-1822.	1.2	17
88	New techniques in FEM field calculation applied to power cable characteristics computation. IEEE Transactions on Magnetics, 1990, 26, 2388-2390.	1.2	17
89	3D modeling of electromagnets fed by alternating voltage sources. IEEE Transactions on Magnetics, 1993, 29, 1341-1344.	1.2	16
90	A hysteresis model for planar Hall effect in thin films. IEEE Transactions on Magnetics, 2000, 36, 1214-1217.	1.2	16

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91	Atmospheric re-organization during Marine Isotope Stage 3 over the North American continent: sedimentological and mineralogical evidence from the Gulf of Mexico. <i>Quaternary Science Reviews</i> , 2013, 81, 62-73.	1.4	16
92	Study of Lightning Effects on Aircraft With Predominately Composite Structures. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2014, 56, 675-682.	1.4	16
93	An Extension of Unstructured-PEEC Method to Magnetic Media. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-4.	1.2	16
94	Use of the diffuse element method for electromagnetic field computation. <i>IEEE Transactions on Magnetics</i> , 1993, 29, 1475-1478.	1.2	15
95	Simulation of dynamics of electromagnetic driving device for comet ground penetrator. <i>IEEE Transactions on Magnetics</i> , 1998, 34, 3146-3149.	1.2	15
96	3-D modeling of thin wire and thin plate using finite element method and electrical circuit equation. <i>IEEE Transactions on Magnetics</i> , 2001, 37, 3238-3241.	1.2	15
97	A New Three-Dimensional (3-D) Scalar Finite Element Method to Compute $\mathbf{T}_0$ . <i>IEEE Transactions on Magnetics</i> , 2006, 42, 1035-1038.	1.2	15
98	Numerical Methods for Eddy Currents Modeling of Planar Transformers. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 1014-1017.	1.2	15
99	3-D Magnetic Scalar Potential Finite Element Formulation for Conducting Shells Coupled With an External Circuit. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 323-326.	1.2	15
100	A Magnetic Vector Potential Volume Integral Formulation for Nonlinear Magnetostatic Problems. <i>IEEE Transactions on Magnetics</i> , 2016, 52, 1-4.	1.2	15
101	Modeling of "quenched" or the occurrence and propagation of dissipative zones in REBCO high temperature superconducting coils. <i>Superconductor Science and Technology</i> , 2019, 32, 094001.	1.8	15
102	FFT-PEEC: A Fast Tool From CAD to Power Electronics Simulations. <i>IEEE Transactions on Power Electronics</i> , 2022, 37, 700-713.	5.4	15
103	FEM computation of eddy current and forces in moving systems; application to linear induction launcher. <i>IEEE Transactions on Magnetics</i> , 1993, 29, 1989-1992.	1.2	14
104	Toward a simulation of an optically controlled microwave microstrip line at 10 GHz. <i>IEEE Transactions on Magnetics</i> , 2002, 38, 681-684.	1.2	14
105	3-D high frequency computation of transformer R, L parameters. <i>IEEE Transactions on Magnetics</i> , 2005, 41, 1364-1367.	1.2	14
106	Automatic cuts for magnetic scalar potential formulations. <i>IEEE Transactions on Magnetics</i> , 2005, 41, 1668-1671.	1.2	14
107	Comparison of FEM-PEEC Coupled Method and Finite-Element Method. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 996-999.	1.2	14
108	A Magnetic Flux "Electric Current Volume Integral Formulation Based on Facet Elements for Solving Electromagnetic Problems. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	1.2	14

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109	Innovating approaches to the generation of intense magnetic field: Optimization of a permanent magnet flux source. EPJ Applied Physics, 1999, 5, 85-89.	0.3	14
110	Pompage optique et absorption saturée d'un faisceau d'ions rapides superposé à un faisceau laser continu. Journal De Physique, 1977, 38, 1185-1200.	1.8	14
111	A model for the current interruption of an electric arc. IEEE Transactions on Magnetics, 1984, 20, 1956-1958.	1.2	13
112	Comparison between various hysteresis models and experimental data. Journal of Applied Physics, 1990, 67, 5379-5381.	1.1	13
113	The impedance boundary condition applied to the finite element method using the magnetic vector potential as state variable: a rigorous solution for high frequency axisymmetric problems. IEEE Transactions on Magnetics, 1992, 28, 1643-1646.	1.2	13
114	Influence of a conductive plane on loop inductance. IEEE Transactions on Magnetics, 1995, 31, 2127-2130.	1.2	13
115	New amorphous molybdenum oxysulfide thin films their characterization and their electrochemical properties. Journal of Power Sources, 1995, 54, 352-355.	4.0	13
116	A Differential Permeability 3-D Formulation for Anisotropic Vector Hysteresis Analysis. IEEE Transactions on Magnetics, 2014, 50, 341-344.	1.2	13
117	Magnetic forces and mechanical behavior of ferromagnetic materials. Presentation and results on the theoretical, experimental and numerical approaches. IEEE Transactions on Magnetics, 1988, 24, 234-237.	1.2	12
118	Modeling of Printed Circuit Board loop inductance. IEEE Transactions on Magnetics, 1994, 30, 3590-3593.	1.2	12
119	A unique distribution of forces in permanent magnets using scalar and vector potential formulations. IEEE Transactions on Magnetics, 2000, 36, 3345-3348.	1.2	12
120	Magnetic discretion of naval propulsion machines. IEEE Transactions on Magnetics, 2002, 38, 1185-1188.	1.2	12
121	Incorporation of a Vector Preisach-Mayergoyz Hysteresis Model in 3-D Finite Element Analysis. IEEE Transactions on Magnetics, 2019, 55, 1-4.	1.2	12
122	Passive Microrheology for Measurement of the Concentrated Dispersions Stability. , 2012, , 101-105.		12
123	Finite element modelling of giant magnetostriction in thin films. IEEE Transactions on Magnetics, 1995, 31, 3563-3565.	1.2	11
124	Field diffusion-like representation and experimental identification of a dynamic magnetization property. Journal of Magnetism and Magnetic Materials, 2006, 304, e507-e509.	1.0	11
125	Optimization of Low-Voltage Metallized Film Capacitor Geometry. IEEE Transactions on Magnetics, 2007, 43, 1569-1572.	1.2	11
126	The Adaptive Cross Approximation Technique for a Volume Integral Equation Method Applied to Nonlinear Magnetostatic Problems. IEEE Transactions on Magnetics, 2014, 50, 445-448.	1.2	11

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127	Sensitivity analysis of the nodal position in the adaptive refinement of finite element meshes. IEEE Transactions on Magnetics, 1990, 26, 787-790.	1.2	10
128	The finite element post-processor of FLUX3D (field computation package). IEEE Transactions on Magnetics, 1991, 27, 3786-3791.	1.2	10
129	Synthesis and characterization of titanium hydride thin films obtained by reactive cathodic sputtering. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1993, 18, 303-307.	1.7	10
130	Finite element modelling of magnetostrictive devices: investigations for the design of the magnetic circuit. IEEE Transactions on Magnetics, 1995, 31, 1813-1816.	1.2	10
131	Electric railgun 3D modeling: computation of eddy currents and Lorentz force. IEEE Transactions on Magnetics, 2001, 37, 139-142.	1.2	10
132	Coupling of an electrical arc model with FEM for vacuum interrupter designs. IEEE Transactions on Magnetics, 2005, 41, 1600-1603.	1.2	10
133	Magnetic field computation for electric arc modelling. IEEE Transactions on Magnetics, 1983, 19, 2593-2595.	1.2	9
134	Spectral analysis of electromagnetic vibrations in DC machines through the finite element method. IEEE Transactions on Magnetics, 1989, 25, 3590-3592.	1.2	9
135	Simulation of induction machine operation using a step-by-step finite element method. Journal of Applied Physics, 1990, 67, 5809-5811.	1.1	9
136	INFLUENCE OF INDUCED CURRENTS IN CONDUCTORS ON LEAKAGE AND LOSSES IN A TRANSFORMER. Electric Power Components and Systems, 1991, 19, 55-68.	0.1	9
137	1991, 69, 4835-4837.	1.1	9
138	FEM modelling of the magnetic, thermal, electrical and mechanical transient phenomena in linear induction launchers. IEEE Transactions on Magnetics, 1994, 30, 3312-3315.	1.2	9
139	A three dimensional finite element modelling of rotating machines involving movement and external circuit. IEEE Transactions on Magnetics, 1996, 32, 1070-1073.	1.2	9
140	3D modeling of shielding structures made by conductors and thin plates. IEEE Transactions on Magnetics, 2000, 36, 790-794.	1.2	9
141	Finite element modeling of permanent magnets under pulsed field. IEEE Transactions on Magnetics, 2000, 36, 1222-1225.	1.2	9
142	Hysteresis of Soft Materials Inside Formulations: Delayed Diffusion Equations, Fields Coupling, and Nonlinear Properties. IEEE Transactions on Magnetics, 2008, 44, 914-917.	1.2	9
143	Coupling PEEC-Finite Element Method for Solving Electromagnetic Problems. IEEE Transactions on Magnetics, 2008, 44, 1330-1333.	1.2	9
144	Numerical Modelling of AC Hysteresis Losses in HTS Tubes. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.1	9

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145	3D anisotropic magnetic field calculation in transformer joints. IEEE Transactions on Magnetics, 1987, 23, 3783-3785.	1.2	8
146	On the use of the surface impedance concept in shielded and multiconductor cable characterization by the finite element method. IEEE Transactions on Magnetics, 1992, 28, 1446-1449.	1.2	8
147	Optimization of a finite element mesh for large air-gap deformations. EPJ Applied Physics, 2001, 13, 137-142.	0.3	8
148	Numerical modelling of Bi-2223 multifilamentary tapes with position-dependent $J_c$ . Physica C: Superconductivity and Its Applications, 2002, 372-376, 1800-1805.	0.6	8
149	Film formation analysis by diffusive wave spectroscopy. Progress in Organic Coatings, 2009, 64, 515-519.	1.9	8
150	$\int_V \mathbf{A} \cdot \mathbf{T} \, dV$ Volume Integral Formulations for Solving Electromagnetic Problems in the Frequency Domain. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	8
151	An original stationary method using local jacobian derivative for direct finite element computation of electromagnetic force, torque and stiffness. Journal of Magnetism and Magnetic Materials, 1982, 26, 337-339.	1.0	7
152	Use of the diffuse approximation method for electromagnetic field computation. IEEE Transactions on Magnetics, 1994, 30, 3558-3561.	1.2	7
153	A current transformer modeling. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2002, 21, 505-511.	0.5	7
154	AC losses in superconducting solenoids. IEEE Transactions on Applied Superconductivity, 2002, 12, 1790-1794.	1.1	7
155	An energy-based formulation for dynamic hysteresis and extra-losses. IEEE Transactions on Magnetics, 2006, 42, 895-898.	1.2	7
156	General Integral Formulation for the 3D Thin Shell Modeling. IEEE Transactions on Magnetics, 2013, 49, 1989-1992.	1.2	7
157	3-D Magnetostatic Moment Method Dedicated to Arc Interruption Process Modeling. IEEE Transactions on Magnetics, 2014, 50, 941-944.	1.2	7
158	A Mixed Surface Volume Integral Formulation for the Modeling of High-Frequency Coreless Inductors. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	7
159	Numerical Impact of Using Different $E$ - $J$ Relationships for 3-D Simulations of AC Losses in MgB <sub>2</sub> Superconducting Wires. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	7
160	General Integral Formulation of Magnetic Flux Computation and Its Application to Inductive Power Transfer System. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	7
161	Phase transitions in polymorphic materials probed using space-resolved diffusing wave spectroscopy. Soft Matter, 2018, 14, 6439-6448.	1.2	7
162	Bidirectional Wireless Power Transfer System with Wireless Control for Electrical Vehicle. , 2019, , .		7

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163	Simultaneous screening of the stability and dosimetry of nanoparticles dispersions for in vitro toxicological studies with static multiple light scattering technique. <i>Toxicology in Vitro</i> , 2020, 69, 104972.	1.1	7
164	Large Surface LC-Resonant Metamaterials: From Circuit Model to Modal Theory and Efficient Numerical Methods. <i>IEEE Transactions on Magnetics</i> , 2020, 56, 1-4.	1.2	7
165	Apport de la géostatistique à la description des stockages de gaz en aquifère. <i>Oil &amp; Gas Science &amp; Technology</i> , 1981, 36, 309-327.	0.2	7
166	Software for computer-aided analysis of electromagnetic fields. <i>IEEE Transactions on Magnetics</i> , 1980, 16, 1435-1437.	1.2	6
167	Mechanical deformation of a conductor under electromagnetic stresses. <i>IEEE Transactions on Magnetics</i> , 1986, 22, 828-830.	1.2	6
168	An Original Solution for unbounded electromagnetic 2D- and 3D problems throughout the finite element method. , 1990, , .		6
169	Numerical computation of the dynamic behavior of magnetic material considering magnetic diffusion and hysteresis. <i>IEEE Transactions on Magnetics</i> , 2000, 36, 1218-1221.	1.2	6
170	A chemical reaction hysteresis model for magnetic materials. <i>IEEE Transactions on Magnetics</i> , 2000, 36, 1230-1233.	1.2	6
171	Circuit-Coupled $t_{\phi}$ Formulation With Surface Impedance Condition. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 730-733.	1.2	6
172	Homogenization of the Thin Dielectric Layers of Wound Components for the Computation of the Parasitic Capacitances in 2-D FE Electrostatics. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 1849-1852.	1.2	6
173	Application of the virtual work principle to compute magnetic forces with a volume integral method. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2014, 27, 418-432.	1.2	6
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