GÃ©rard M Meunier

List of Publications by Year
in descending order

317	5,384	126907	138484
papers	citations	33 h-index	58 g-index

324	324	324	3840
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	TURBISCAN MA 2000: multiple light scattering measurement for concentrated emulsion and suspension instability analysis. Talanta, 1999, 50, 445-456.	5.5	447
2	XPS study of thin films of titanium oxysulfides. Surface Science, 1991, 254, 81-89.	1.9	329
3	Finite element implementation of virtual work principle for magnetic or electric force and torque computation. IEEE Transactions on Magnetics, 1984, 20, 1894-1896.	2.1	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. Thin Solid Films, 1995, 258, 110-114.	1.8	134
6	Finite-Element Method Modeling of Superconductors: From 2-D to 3-D. IEEE Transactions on Applied Superconductivity, 2005, 15, 17-25.	1.7	102
7	Coupled field-circuit problems: trends and accomplishments. IEEE Transactions on Magnetics, 1993, 29, 1701-1704.	2.1	100
8	Comparison of numerical methods for modeling of superconductors. IEEE Transactions on Magnetics, 2002, 38, 849-852.	2.1	93
9	Finite element modeling of unbounded problems using transformations: a rigorous, powerful and easy solution. IEEE Transactions on Magnetics, 1992, 28, 1663-1666.	2.1	90
10	New positive-electrode materials for lithium thin film secondary batteries. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1989, 3, 19-23.	3.5	79
11	Simulation of induction machine operation using complex magnetodynamic finite elements. IEEE Transactions on Magnetics, 1989, 25, 3064-3066.	2.1	68
12	A general purpose method for electric and magnetic combined problems for 2D, axisymmetric and transient systems. IEEE Transactions on Magnetics, 1993, 29, 1737-1740.	2.1	62
13	A Lossy Circuit Model Based on Physical Interpretation for Integrated Shielded Slow-Wave CMOS Coplanar Waveguide Structures. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 754-763.	4.6	61
14	Simulation of induction machine operation using a step by step finite element method coupled with circuits and mechanical equations. IEEE Transactions on Magnetics, 1991, 27, 5232-5234.	2.1	60
15	A general method for electric and magnetic coupled problem in 2D and magnetodynamic domain. IEEE Transactions on Magnetics, 1992, 28, 1291-1294.	2.1	58
16	XPS analysis of lithium intercalation in thin films of molybdenum oxysulphides. Surface and Interface Analysis, 1994, 22, 206-210.	1.8	56
17	A nonlinear circuit coupled t - t/sub 0/ - Ït formulation for solid conductors. IEEE Transactions on Magnetics, 2003, 39, 1729-1732.	2.1	54
18	A finite element method for calculating the electromagnetic fields generated by substation grounding systems. IEEE Transactions on Magnetics, 1995, 31, 2150-2153.	2.1	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.	2.1	51
20	Calculating the impedance of a grounding system. IEEE Transactions on Magnetics, 1996, 32, 1509-1512.	2.1	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.	2.1	46
22	Solid state microbatteries. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1989, 3, 5-12.	3.5	45
23	Finite element modeling of open boundary problems. IEEE Transactions on Magnetics, 1990, 26, 588-591.	2.1	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.	2.1	44
25	Different formulations to model superconductors. IEEE Transactions on Magnetics, 2000, 36, 1226-1229.	2.1	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.	2.1	42
27	A shell element for computing 3D eddy currents-application to transformers. IEEE Transactions on Magnetics, 1995, 31, 1360-1363.	2.1	42
28	High-Resolution Studies in Ion Beams with Laser-Induced Resonances. Physical Review Letters, 1976, 37, 1678-1681.	7.8	40
29	FLUX: A general interactive finite elements package for 2D electromagnetic fields. IEEE Transactions on Magnetics, 1982, 18, 624-626.	2.1	40
30	Comparison of global force calculations on permanent magnets. IEEE Transactions on Magnetics, 1998, 34, 3560-3563.	2.1	37
31	An approach for automatic adaptive mesh refinement in finite element computation of magnetic fields. IEEE Transactions on Magnetics, 1989, 25, 2965-2967.	2.1	35
32	Comparison between various hysteresis models and experimental data. IEEE Transactions on Magnetics, 1990, 26, 2837-2839.	2.1	35
33	Ship magnetizations modelling by the finite element method. IEEE Transactions on Magnetics, 1993, 29, 1970-1975.	2.1	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.	7.9	35
35	Evidences for an efficient demethylation of methoxyellipticine derivatives catalyzed by a peroxidase. Journal of the American Chemical Society, 1985, 107, 2558-2560.	13.7	34
36	About the distribution of forces in permanent magnets. IEEE Transactions on Magnetics, 1999, 35, 1215-1218.	2.1	34

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37	A general purpose tool for restoring inter-element continuity. IEEE Transactions on Magnetics, 1992, 28, 1728-1731.	2.1	33
38	Surface impedance for 3D nonlinear eddy current problems-application to loss computation in transformers. IEEE Transactions on Magnetics, 1996, 32, 808-811.	2.1	33
39	3D mesh connection techniques applied to movement simulation. IEEE Transactions on Magnetics, 1998, 34, 3359-3362.	2.1	33
40	Modelisation of 2D and axisymmetric magnetodynamic domain by the finite elements method. IEEE Transactions on Magnetics, 1988, 24, 166-169.	2.1	32
41	Line element for efficient computation of the magnetic field created by thin iron plates. IEEE Transactions on Magnetics, 1990, 26, 2196-2198.	2.1	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.	2.1	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.	1.4	31
44	A posteriori error estimate for adaptive finite element mesh generation. IEEE Transactions on Magnetics, 1988, 24, 315-317.	2.1	31
45	Direct magnetic loss analysis by FEM considering vector magnetic properties. IEEE Transactions on Magnetics, 1998, 34, 3008-3011.	2.1	31
46	Distribution of electromagnetic force in permanent magnets. IEEE Transactions on Magnetics, 1998, 34, 3012-3015.	2.1	30
47	High-Frequency Proximity Losses Determination for Rectangular Cross-Section Conductors. IEEE Transactions on Magnetics, 2007, 43, 1213-1216.	2.1	30
48	Homogenization for Periodical Electromagnetic Structure: Which Formulation?. IEEE Transactions on Magnetics, 2010, 46, 3409-3412.	2.1	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.	2.1	30
50	Magnetic fields in nonlinear anisotropic grain-oriented iron-sheet. IEEE Transactions on Magnetics, 1990, 26, 524-527.	2.1	29
51	Dynamic modelling of giant magnetostriction in Terfenol-D rods by the finite element method. IEEE Transactions on Magnetics, 1995, 31, 1821-1824.	2.1	29
52	Coupled problem computation of 3-D multiply connected magnetic circuits and electric circuits. IEEE Transactions on Magnetics, 2003, 39, 1725-1728.	2.1	29
53	Adsorption of vanadate on Î³-alumina: Comparison with other isopolyanions. Applied Catalysis, 1986, 21, 329-335.	0.8	28
54	End winding reactance computation using a 3D finite element program. IEEE Transactions on Magnetics, 1993, 29, 1411-1414.	2.1	27

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55	Eddy-Current Effects in Circuit Breakers During Arc Displacement Phase. IEEE Transactions on Magnetics, 2004, 40, 1358-1361.	2.1	27
56	Computation of coupled problem of 3D eddy current and electrical circuit by using T/sub 0/-T-Ï† formulation. IEEE Transactions on Magnetics, 1998, 34, 3074-3077.	2.1	26
57	An Integral Formulation for the Computation of 3-D Eddy Current Using Facet Elements. IEEE Transactions on Magnetics, 2014, 50, 549-552.	2.1	26
58	Solution of magnetic fields and electrical circuits combined problems. IEEE Transactions on Magnetics, 1985, 21, 2288-2291.	2.1	25
59	Computation of 2D and 3D eddy currents in moving conductors of electromagnetic retarders. IEEE Transactions on Magnetics, 1990, 26, 2382-2384.	2.1	25
60	3D eddy current losses calculation in transformer tanks using the finite element method. IEEE Transactions on Magnetics, 1993, 29, 1419-1422.	2.1	25
61	Three dimensional magnetostatic finite elements for gaps and iron shells using magnetic scalar potentials. IEEE Transactions on Magnetics, 1994, 30, 2885-2888.	2.1	25
62	Application of magnetostrictive thin films for microdevices. IEEE Transactions on Magnetics, 1997, 33, 2163-2166.	2.1	25
63	Nonlinear finite element modelling of magneto-mechanical phenomenon in giant magnetostrictive thin films. IEEE Transactions on Magnetics, 1997, 33, 1620-1623.	2.1	25
64	Hybrid finite element boundary element solutions for three dimensional scalar potential problems. IEEE Transactions on Magnetics, 1986, 22, 1040-1042.	2.1	24
65	pâ€•andhâ€type adaptive mesh generation. Journal of Applied Physics, 1990, 67, 5803-5805.	2.5	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.	3.8	24
67	Flux3D, a finite element package for magnetic computation. IEEE Transactions on Magnetics, 1985, 21, 2499-2502.	2.1	23
68	New amorphous titanium oxysulfides obtained in the form of thin films. Thin Solid Films, 1991, 205, 213-217.	1.8	23
69	Thin film permeation membranes for hydrogen purification. International Journal of Hydrogen Energy, 1992, 17, 599-602.	7.1	23
70	3D finite element computation of the high frequency parameters of power transformer windings. IEEE Transactions on Magnetics, 1993, 29, 1407-1410.	2.1	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.	1.8	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.	2.1	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.	2.2	22
74	Amorphous molybdenum oxysulfide thin films and their physical characterization. Thin Solid Films, 1995, 260, 21-25.	1.8	21
75	An Energy Based Approach of Electromagnetism Applied to Adaptive Meshing and Error Criteria. IEEE Transactions on Magnetics, 2008, 44, 1246-1249.	2.1	21
76	A New Integral Formulation for Eddy Current Computation in Thin Conductive Shells. IEEE Transactions on Magnetics, 2012, 48, 427-430.	2.1	21
77	A Volume Integral Formulation Based on Facet Elements for Nonlinear Magnetostatic Problems. IEEE Transactions on Magnetics, 2015, 51, 1-6.	2.1	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.	2.1	20
79	Nonlinear finite element modelling of giant magnetostriction. IEEE Transactions on Magnetics, 1993, 29, 2467-2469.	2.1	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.	2.1	20
81	3D edge element based formulation coupled to electric circuits. IEEE Transactions on Magnetics, 1998, 34, 3162-3165.	2.1	19
82	Adaptive Multipoint Model Order Reduction Scheme for Large-Scale Inductive PEEC Circuits. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 1143-1151.	2.2	19
83	3D line current model of coils and external circuits. IEEE Transactions on Magnetics, 1995, 31, 1853-1856.	2.1	18
84	Thermal-electromagnetic modeling of superconductors. Cryogenics, 2007, 47, 539-545.	1.7	18
85	AN INDEPENDENT LOOPS SEARCH ALGORITHM FOR SOLVING INDUCTIVE PEEC LARGE PROBLEMS. Progress in Electromagnetics Research M, 2012, 23, 53-63.	0.9	18
86	3-D Numerical Modeling of AC Losses in Multifilamentary MgB₂Wires. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-7.	1.7	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.	2.1	17
88	New techniques in FEM field calculation applied to power cable characteristics computation. IEEE Transactions on Magnetics, 1990, 26, 2388-2390.	2.1	17
89	3D modeling of electromagnets fed by alternating voltage sources. IEEE Transactions on Magnetics, 1993, 29, 1341-1344.	2.1	16
90	A hysteresis model for planar Hall effect in thin films. IEEE Transactions on Magnetics, 2000, 36, 1214-1217.	2.1	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. Quaternary Science Reviews, 2013, 81, 62-73.	3.0	16
92	Study of Lightning Effects on Aircraft With Predominately Composite Structures. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 675-682.	2.2	16
93	An Extension of Unstructured-PEEC Method to Magnetic Media. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	16
94	Use of the diffuse element method for electromagnetic field computation. IEEE Transactions on Magnetics, 1993, 29, 1475-1478.	2.1	15
95	Simulation of dynamics of electromagnetic driving device for comet ground penetrator. IEEE Transactions on Magnetics, 1998, 34, 3146-3149.	2.1	15
96	3-D modeling of thin wire and thin plate using finite element method and electrical circuit equation. IEEE Transactions on Magnetics, 2001, 37, 3238-3241.	2.1	15
97	A New Three-Dimensional (3-D) Scalar Finite Element Method to ComputeT_0. IEEE Transactions on Magnetics, 2006, 42, 1035-1038.	2.1	15
98	Numerical Methods for Eddy Currents Modeling of Planar Transformers. IEEE Transactions on Magnetics, 2011, 47, 1014-1017.	2.1	15
99	3-D Magnetic Scalar Potential Finite Element Formulation for Conducting Shells Coupled With an External Circuit. IEEE Transactions on Magnetics, 2012, 48, 323-326.	2.1	15
100	A Magnetic Vector Potential Volume Integral Formulation for Nonlinear Magnetostatic Problems. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	15
101	Modeling of â€˜quenchâ€™ or the occurrence and propagation of dissipative zones in REBCO high temperature superconducting coils. Superconductor Science and Technology, 2019, 32, 094001.	3.5	15
102	FFT-PEEC: A Fast Tool From CAD to Power Electronics Simulations. IEEE Transactions on Power Electronics, 2022, 37, 700-713.	7.9	15
103	FEM computation of eddy current and forces in moving systems; application to linear induction launcher. IEEE Transactions on Magnetics, 1993, 29, 1989-1992.	2.1	14
104	Toward a simulation of an optically controlled microwave microstrip line at 10 GHz. IEEE Transactions on Magnetics, 2002, 38, 681-684.	2.1	14
105	3-D high frequency computation of transformer R, L parameters. IEEE Transactions on Magnetics, 2005, 41, 1364-1367.	2.1	14
106	Automatic cuts for magnetic scalar potential formulations. IEEE Transactions on Magnetics, 2005, 41, 1668-1671.	2.1	14
107	Comparison of FEM-PEEC Coupled Method and Finite-Element Method. IEEE Transactions on Magnetics, 2010, 46, 996-999.	2.1	14
108	A Magnetic Fluxâ€“Electric Current Volume Integral Formulation Based on Facet Elements for Solving Electromagnetic Problems. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	14

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109	Innovating approches to the generation of intense magnetic field: Optimization of a permanent magnet flux source. EPJ Applied Physics, 1999, 5, 85-89.	0.7	14
110	Pompage optique et absorption saturÃ©e d'un faisceau d'ions rapides superposÃ© Ã 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.	2.1	13
112	Comparison between various hysteresis models and experimental data. Journal of Applied Physics, 1990, 67, 5379-5381.	2.5	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.	2.1	13
114	Influence of a conductive plane on loop inductance. IEEE Transactions on Magnetics, 1995, 31, 2127-2130.	2.1	13
115	New amorphous molybdenum oxysulfide thin films their characterization and their electrochemical properties. Journal of Power Sources, 1995, 54, 352-355.	7.8	13
116	A Differential Permeability 3-D Formulation for Anisotropic Vector Hysteresis Analysis. IEEE Transactions on Magnetics, 2014, 50, 341-344.	2.1	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.	2.1	12
118	Modeling of Printed Circuit Board loop inductance. IEEE Transactions on Magnetics, 1994, 30, 3590-3593.	2.1	12
119	A unique distribution of forces in permanent magnets using scalar and vector potential formulations. IEEE Transactions on Magnetics, 2000, 36, 3345-3348.	2.1	12
120	Magnetic discretion of naval propulsion machines. IEEE Transactions on Magnetics, 2002, 38, 1185-1188.	2.1	12
121	Incorporation of a Vector Preisachâ€“Mayergoyz Hysteresis Model in 3-D Finite Element Analysis. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	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.	2.1	11
124	Field diffusion-like representation and experimental identification of a dynamic magnetization property. Journal of Magnetism and Magnetic Materials, 2006, 304, e507-e509.	2.3	11
125	Optimization of Low-Voltage Metallized Film Capacitor Geometry. IEEE Transactions on Magnetics, 2007, 43, 1569-1572.	2.1	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.	2.1	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.	2.1	10
128	The finite element post-processor of FLUX3D (field computation package). IEEE Transactions on Magnetics, 1991, 27, 3786-3791.	2.1	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.	3.5	10
130	Finite element modelling of magnetostrictive devices: investigations for the design of the magnetic circuit. IEEE Transactions on Magnetics, 1995, 31, 1813-1816.	2.1	10
131	Electric railgun 3D modeling: computation of eddy currents and Lorentz force. IEEE Transactions on Magnetics, 2001, 37, 139-142.	2.1	10
132	Coupling of an electrical arc model with FEM for vacuum interrupter designs. IEEE Transactions on Magnetics, 2005, 41, 1600-1603.	2.1	10
133	Magnetic field computation for electric arc modelling. IEEE Transactions on Magnetics, 1983, 19, 2593-2595.	2.1	9
134	Spectral analysis of electromagnetic vibrations in DC machines through the finite element method. IEEE Transactions on Magnetics, 1989, 25, 3590-3592.	2.1	9
135	Simulation of induction machine operation using a stepâ€byâ€step finiteâ€element method. Journal of Applied Physics, 1990, 67, 5809-5811.	2.5	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.	2.5	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.	2.1	9
139	A three dimensional finite element modelling of rotating machines involving movement and external circuit. IEEE Transactions on Magnetics, 1996, 32, 1070-1073.	2.1	9
140	3D modeling of shielding structures made by conductors and thin plates. IEEE Transactions on Magnetics, 2000, 36, 790-794.	2.1	9
141	Finite element modeling of permanent magnets under pulsed field. IEEE Transactions on Magnetics, 2000, 36, 1222-1225.	2.1	9
142	Hysteresis of Soft Materials Inside Formulations: Delayed Diffusion Equations, Fields Coupling, and Nonlinear Properties. IEEE Transactions on Magnetics, 2008, 44, 914-917.	2.1	9
143	Coupling PEEC-Finite Element Method for Solving Electromagnetic Problems. IEEE Transactions on Magnetics, 2008, 44, 1330-1333.	2.1	9
144	Numerical Modelling of AC Hysteresis Losses in HTS Tubes. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.7	9

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145	3D anisotropic magnetic field calculation in transformer joints. IEEE Transactions on Magnetics, 1987, 23, 3783-3785.	2.1	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.	2.1	8
147	Optimization of a finite element mesh for large air-gap deformations. EPJ Applied Physics, 2001, 13, 137-142.	0.7	8
148	Numerical modelling of Bi-2223 multifilamentary tapes with position-dependent Jc. Physica C: Superconductivity and Its Applications, 2002, 372-376, 1800-1805.	1.2	8
149	Film formation analysis by diffusive wave spectroscopy. Progress in Organic Coatings, 2009, 64, 515-519.	3.9	8
150	<inline-formula> <tex-math notation="LaTeX">${A}$ </tex-math> </inline-formula>â€“<inline-formula> <tex-math notation="LaTeX">${T}$ </tex-math> </inline-formula> Volume Integral Formulations for Solving Electromagnetic Problems in the Frequency Domain. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	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.	2.3	7
152	Use of the diffuse approximation method for electromagnetic field computation. IEEE Transactions on Magnetics, 1994, 30, 3558-3561.	2.1	7
153	A current transformer modeling. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2002, 21, 505-511.	0.9	7
154	AC losses in superconducting solenoids. IEEE Transactions on Applied Superconductivity, 2002, 12, 1790-1794.	1.7	7
155	An energy-based formulation for dynamic hysteresis and extra-losses. IEEE Transactions on Magnetics, 2006, 42, 895-898.	2.1	7
156	General Integral Formulation for the 3D Thin Shell Modeling. IEEE Transactions on Magnetics, 2013, 49, 1989-1992.	2.1	7
157	3-D Magnetostatic Moment Method Dedicated to Arc Interruption Process Modeling. IEEE Transactions on Magnetics, 2014, 50, 941-944.	2.1	7
158	A Mixed Surface Volume Integral Formulation for the Modeling of High-Frequency Coreless Inductors. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	7
159	Numerical Impact of Using Different E â€“J Relationships for 3-D Simulations of AC Losses in MgB2Superconducting Wires. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	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.	2.1	7
161	Phase transitions in polymorphic materials probed using space-resolved diffusing wave spectroscopy. Soft Matter, 2018, 14, 6439-6448.	2.7	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. Toxicology in Vitro, 2020, 69, 104972.	2.4	7
164	Large Surface LC -Resonant Metamaterials: From Circuit Model to Modal Theory and Efficient Numerical Methods. IEEE Transactions on Magnetics, 2020, 56, 1-4.	2.1	7
165	Apport de la gÃ©ostatistique Ã la description des stockages de gaz en aquifÃ¨re. Oil & Gas Science & Technology, 1981, 36, 309-327.	0.2	7
166	Software for computer-aided analysis of electromagnetic fields. IEEE Transactions on Magnetics, 1980, 16, 1435-1437.	2.1	6
167	Mechanical deformation of a conductor under electromagnetic stresses. IEEE Transactions on Magnetics, 1986, 22, 828-830.	2.1	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. IEEE Transactions on Magnetics, 2000, 36, 1218-1221.	2.1	6
170	A chemical reaction hysteresis model for magnetic materials. IEEE Transactions on Magnetics, 2000, 36, 1230-1233.	2.1	6
171	Circuit-Coupled ${f t}_{0}hbox {-}phi$ Formulation With Surface Impedance Condition. IEEE Transactions on Magnetics, 2008, 44, 730-733.	2.1	6
172	Homogenization of the Thin Dielectric Layers of Wound Components for the Computation of the Parasitic Capacitances in 2-D FE Electrostatics. IEEE Transactions on Magnetics, 2013, 49, 1849-1852.	2.1	6
173	Application of the virtual work principle to compute magnetic forces with a volume integral method. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2014, 27, 418-432.	1.9	6
174	Iterative Solution on GPU of Linear Systems Arising from the A-V Edge-FEA of Time-Harmonic Electromagnetic Phenomena. , 2014, , .		6
175	Time-Domain Finite-Element Eddy-Current Homogenization of Windings Using Foster Networks and Recursive Convolution. IEEE Transactions on Magnetics, 2020, 56, 1-8.	2.1	6
176	Computer methods for electrical and magnetic devices designed by field analysis. IEEE Transactions on Magnetics, 1979, 15, 1671-1673.	2.1	5
177	A new model for nonlinear anisotropic hard magnetic material. IEEE Transactions on Magnetics, 1989, 25, 3083-3085.	2.1	5
178	Nonlinear permanent magnets modelling with the finite element method. IEEE Transactions on Magnetics, 1989, 25, 3581-3583.	2.1	5
179	Magnetic field computation in a transformer core with an automatic adaptive mesh generator. Journal of Applied Physics, 1990, 67, 5806-5808.	2.5	5
180	Computation of 3-D current driven eddy current problems using cutting surfaces. IEEE Transactions on Magnetics, 1997, 33, 1314-1317.	2.1	5

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181	Analysis of magnetic characteristics of permanent magnet assembly for MRI devices taking account of hysteresis and eddy current. IEEE Transactions on Magnetics, 1998, 34, 3556-3559.	2.1	5
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