Grard M Meunier

List of Publications by Citations

288 papers	4,386 citations	30 h-index	54 g-index
324 ext. papers	4,919 ext. citations	2.1 avg, IF	4.97 L-index

#	Paper	IF	Citations
288	TURBISCAN MA 2000: multiple light scattering measurement for concentrated emulsion and suspension instability analysis. *Talanta*, **1999**, 50, 445-56	6.2	376
287	XPS study of thin films of titanium oxysulfides. *Surface Science*, **1991**, 254, 81-89	1.8	285
286	Finite element implementation of virtual work principle for magnetic or electric force and torque computation. *IEEE Transactions on Magnetics*, **1984**, 20, 1894-1896	2	165
285	Influence of skull anisotropy for the forward and inverse problem in EEG: simulation studies using FEM on realistic head models. *Human Brain Mapping*, **1998**, 6, 250-69	5.9	119
284	X-ray photoelectron spectroscopy characterization of amorphous molybdenum oxysulfide thin films. *Thin Solid Films*, **1995**, 258, 110-114	2.2	112
283	Finite-element method modeling of superconductors: from 2-D to 3-D. *IEEE Transactions on Applied Superconductivity*, **2005**, 15, 17-25	1.8	92
282	. *IEEE Transactions on Magnetics*, **1993**, 29, 1701-1704	2	85
281	Comparison of numerical methods for modeling of superconductors. *IEEE Transactions on Magnetics*, **2002**, 38, 849-852	2	82
280	. *IEEE Transactions on Magnetics*, **1992**, 28, 1663-1666	2	78
279	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	3.1	71
278	. *IEEE Transactions on Magnetics*, **1989**, 25, 3064-3066	2	56
277	. *IEEE Transactions on Magnetics*, **1993**, 29, 1737-1740	2	54
276	A nonlinear circuit coupled t-t/sub 0/-/spl phi/ formulation for solid conductors. *IEEE Transactions on Magnetics*, **2003**, 39, 1729-1732	2	50
275	. *IEEE Transactions on Magnetics*, **1991**, 27, 5232-5234	2	50
274	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	4.1	49
273	XPS analysis of lithium intercalation in thin films of molybdenum oxysulphides. *Surface and Interface Analysis*, **1994**, 22, 206-210	1.5	45
272	. *IEEE Transactions on Magnetics*, **1992**, 28, 1291-1294	2	44

271	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	43
270	Solid state microbatteries. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **1989**, 3, 5-12	3.1	41
269	. *IEEE Transactions on Magnetics*, **1995**, 31, 2139-2141	2	40
268	High-Resolution Studies in Ion Beams with Laser-Induced Resonances. *Physical Review Letters*, **1976**, 37, 1678-1681	7.4	39
267	. *IEEE Transactions on Magnetics*, **1990**, 26, 588-591	2	38
266	Different formulations to model superconductors. *IEEE Transactions on Magnetics*, **2000**, 36, 1226-1229	2	37
265	FLUX: A general interactive finite elements package for 2D electromagnetic fields. *IEEE Transactions on Magnetics*, **1982**, 18, 624-626	2	36
264	. *IEEE Transactions on Magnetics*, **1995**, 31, 1360-1363	2	34
263	Comparison of global force calculations on permanent magnets. *IEEE Transactions on Magnetics*, **1998**, 34, 3560-3563	2	32
262	. *IEEE Transactions on Magnetics*, **1990**, 26, 1659-1661	2	32
261	. *IEEE Transactions on Magnetics*, **1991**, 27, 4246-4249	2	31
260	Calculating the impedance of a grounding system. *IEEE Transactions on Magnetics*, **1996**, 32, 1509-1512	2	30
259	. *IEEE Transactions on Magnetics*, **1989**, 25, 2965-2967	2	30
258	. *IEEE Transactions on Magnetics*, **1988**, 24, 166-169	2	30
257	Unexpected regiospecific alkylation of the antitumor agent N2-methyl-9-hydroxyellipticinium acetate with N, O or S donors. *Tetrahedron Letters*, **1983**, 24, 365-368	2	30
256	Evidences for an efficient demethylation of methoxyellipticine derivatives catalyzed by a peroxidase. *Journal of the American Chemical Society*, **1985**, 107, 2558-2560	16.4	30
255	About the distribution of forces in permanent magnets. *IEEE Transactions on Magnetics*, **1999**, 35, 1215-1218	2	29
254	. *IEEE Transactions on Magnetics*, **1995**, 31, 2150-2153	2	29

253	. *IEEE Transactions on Magnetics*, **1988**, 24, 315-317	2	29
252	. *IEEE Transactions on Magnetics*, **1992**, 28, 1728-1731	2	28
251	. *IEEE Transactions on Magnetics*, **1990**, 26, 2196-2198	2	28
250	. *IEEE Transactions on Magnetics*, **1990**, 26, 2837-2839	2	28
249	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	7.2	27
248	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	27
247	3D mesh connection techniques applied to movement simulation. *IEEE Transactions on Magnetics*, **1998**, 34, 3359-3362	2	26
246	. *IEEE Transactions on Magnetics*, **2007**, 43, 1213-1216	2	26
245	Coupled problem computation of 3-D multiply connected magnetic circuits and electrical circuits. *IEEE Transactions on Magnetics*, **2003**, 39, 1725-1728	2	26
244	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	24
243	. *IEEE Transactions on Magnetics*, **1997**, 33, 2163-2166	2	24
242	Eddy-current effects in circuit breakers during arc displacement phase. *IEEE Transactions on Magnetics*, **2004**, 40, 1358-1361	2	24
241	Surface impedance for 3D nonlinear eddy current problems-application to loss computation in transformers. *IEEE Transactions on Magnetics*, **1996**, 32, 808-811	2	24
240	Homogenization for Periodical Electromagnetic Structure: Which Formulation?. *IEEE Transactions on Magnetics*, **2010**, 46, 3409-3412	2	23
239	Nonlinear finite element modelling of magneto-mechanical phenomenon in giant magnetostrictive thin films. *IEEE Transactions on Magnetics*, **1997**, 33, 1620-1623	2	23
238	Computation of coupled problem of 3D eddy current and electrical circuit by using T/sub 0/-T-/spl phi/ formulation. *IEEE Transactions on Magnetics*, **1998**, 34, 3074-3077	2	23
237	Distribution of electromagnetic force in permanent magnets. *IEEE Transactions on Magnetics*, **1998**, 34, 3012-3015	2	23
236	. *IEEE Transactions on Magnetics*, **1995**, 31, 1821-1824	2	23

235	Direct magnetic loss analysis by FEM considering vector magnetic properties. *IEEE Transactions on Magnetics*, **1998**, 34, 3008-3011	2	22
234	. *IEEE Transactions on Magnetics*, **1993**, 29, 1411-1414	2	22
233	. *IEEE Transactions on Magnetics*, **1993**, 29, 1970-1975	2	22
232	Solution of magnetic fields and electrical circuits combined problems. *IEEE Transactions on Magnetics*, **1985**, 21, 2288-2291	2	22
231	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	4.6	21
230	. *IEEE Transactions on Magnetics*, **1994**, 30, 2885-2888	2	21
229	New amorphous molybdenum oxysulfides obtained in the form of thin films and their characterization by TEM. *Thin Solid Films*, **1994**, 245, 34-39	2.2	21
228	Thin film permeation membranes for hydrogen purification. *International Journal of Hydrogen Energy*, **1992**, 17, 599-602	6.7	21
227	p- and h-type adaptive mesh generation. *Journal of Applied Physics*, **1990**, 67, 5803-5805	2.5	21
226	An Integral Formulation for the Computation of 3-D Eddy Current Using Facet Elements. *IEEE Transactions on Magnetics*, **2014**, 50, 549-552	2	20
225	Hybrid finite element boundary element solutions for three dimensional scalar potential problems. *IEEE Transactions on Magnetics*, **1986**, 22, 1040-1042	2	20
224	Flux3D, a finite element package for magnetic computation. *IEEE Transactions on Magnetics*, **1985**, 21, 2499-2502	2	20
223	An Energy Based Approach of Electromagnetism Applied to Adaptive Meshing and Error Criteria. *IEEE Transactions on Magnetics*, **2008**, 44, 1246-1249	2	19
222	New amorphous titanium oxysulfides obtained in the form of thin films. *Thin Solid Films*, **1991**, 205, 213-217	2.2	19
221	. *IEEE Transactions on Magnetics*, **1993**, 29, 1407-1410	2	19
220	. *IEEE Transactions on Magnetics*, **1990**, 26, 2382-2384	2	19
219	3D edge element based formulation coupled to electric circuits. *IEEE Transactions on Magnetics*, **1998**, 34, 3162-3165	2	18
218	. *IEEE Transactions on Magnetics*, **1995**, 31, 1853-1856	2	18

217	. *IEEE Transactions on Magnetics*, **1993**, 29, 1419-1422	2	18
216	. *IEEE Transactions on Magnetics*, **1990**, 26, 524-527	2	18
215	Volume Integral Formulation Using Face Elements for Electromagnetic Problem Considering Conductors and Dielectrics. *IEEE Transactions on Electromagnetic Compatibility*, **2016**, 58, 1587-1594	2	17
214	. *IEEE Transactions on Magnetics*, **1991**, 27, 5022-5024	2	17
213	Adsorption of vanadate on alumina: Comparison with other isopolyanions. *Applied Catalysis*, **1986**, 21, 329-335		17
212	Adaptive Multipoint Model Order Reduction Scheme for Large-Scale Inductive PEEC Circuits. *IEEE Transactions on Electromagnetic Compatibility*, **2017**, 59, 1143-1151	2	16
211	A New Integral Formulation for Eddy Current Computation in Thin Conductive Shells. *IEEE Transactions on Magnetics*, **2012**, 48, 427-430	2	16
210	AN INDEPENDENT LOOPS SEARCH ALGORITHM FOR SOLVING INDUCTIVE PEEC LARGE PROBLEMS. *Progress in Electromagnetics Research M*, **2012**, 23, 53-63	0.6	16
209	A hysteresis model for planar Hall effect in thin films. *IEEE Transactions on Magnetics*, **2000**, 36, 1214-1217	1	16
208	Amorphous molybdenum oxysulfide thin films and their physical characterization. *Thin Solid Films*, **1995**, 260, 21-25	2.2	16
207	. *IEEE Transactions on Magnetics*, **1993**, 29, 2467-2469	2	16
206	. *IEEE Transactions on Magnetics*, **1990**, 26, 2388-2390	2	16
205	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	16
204	3-D Numerical Modeling of AC Losses in Multifilamentary MgB2 Wires. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-7	1.8	15
203	Resolution of Nonlinear Magnetostatic Problems With a Volume Integral Method Using the Magnetic Scalar Potential. *IEEE Transactions on Magnetics*, **2013**, 49, 1685-1688	2	15
202	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	3.9	15
201	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	15
200	Thermal-electromagnetic modeling of superconductors. *Cryogenics*, **2007**, 47, 539-545	1.8	15

199	A Magnetic Flux Electric Current Volume Integral Formulation Based on Facet Elements for Solving Electromagnetic Problems. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	14
198	Comparison of FEM-PEEC Coupled Method and Finite-Element Method. *IEEE Transactions on Magnetics*, **2010**, 46, 996-999	2	14
197	. *IEEE Transactions on Magnetics*, **1993**, 29, 1341-1344	2	14
196	. *IEEE Transactions on Magnetics*, **1993**, 29, 1475-1478	2	14
195	Innovating approches to the generation of intense magnetic field: Optimization of a permanent magnet flux source. *EPJ Applied Physics*, **1999**, 5, 85-89	1.1	14
194	Pompage optique et absorption saturé d'un faisceau d'ions rapides superpos un faisceau laser continu. *Journal De Physique*, **1977**, 38, 1185-1200		14
193	A Volume Integral Formulation Based on Facet Elements for Nonlinear Magnetostatic Problems. *IEEE Transactions on Magnetics*, **2015**, 51, 1-6	2	13
192	Automatic cuts for magnetic scalar potential formulations. *IEEE Transactions on Magnetics*, **2005**, 41, 1668-1671	2	13
191	. *IEEE Transactions on Magnetics*, **1998**, 34, 3146-3149	2	13
190	An Extension of Unstructured-PEEC Method to Magnetic Media. *IEEE Transactions on Magnetics*, **2019**, 55, 1-4	2	12
189	Study of Lightning Effects on Aircraft With Predominately Composite Structures. *IEEE Transactions on Electromagnetic Compatibility*, **2014**, 56, 675-682	2	12
188	A unique distribution of forces in permanent magnets using scalar and vector potential formulations. *IEEE Transactions on Magnetics*, **2000**, 36, 3345-3348	2	12
187	. *IEEE Transactions on Magnetics*, **1993**, 29, 1989-1992	2	12
186	Modeling of quench for the occurrence and propagation of dissipative zones in REBCO high temperature superconducting coils. *Superconductor Science and Technology*, **2019**, 32, 094001	3.1	11
185	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	11
184	Numerical Methods for Eddy Currents Modeling of Planar Transformers. *IEEE Transactions on Magnetics*, **2011**, 47, 1014-1017	2	11
183	A New Three-Dimensional (3-D) Scalar Finite Element Method to ComputeT_0. *IEEE Transactions on Magnetics*, **2006**, 42, 1035-1038	2	11
182	Field diffusion-like representation and experimental identification of a dynamic magnetization property. *Journal of Magnetism and Magnetic Materials*, **2006**, 304, e507-e509	2.8	11

181	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	11
180	. *IEEE Transactions on Magnetics*, **1992**, 28, 1643-1646	2	11
179	A model for the current interruption of an electric arc. *IEEE Transactions on Magnetics*, **1984**, 20, 1956-1958	2	11
178	A Magnetic Vector Potential Volume Integral Formulation for Nonlinear Magnetostatic Problems. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	10
177	3-D high frequency computation of transformer R, L parameters. *IEEE Transactions on Magnetics*, **2005**, 41, 1364-1367	2	10
176	Finite element modelling of giant magnetostriction in thin films. *IEEE Transactions on Magnetics*, **1995**, 31, 3563-3565	2	10
175	. *IEEE Transactions on Magnetics*, **1995**, 31, 1813-1816	2	10
174	. *IEEE Transactions on Magnetics*, **1995**, 31, 2127-2130	2	10
173	New amorphous molybdenum oxysulfide thin films their characterization and their electrochemical properties. *Journal of Power Sources*, **1995**, 54, 352-355	8.9	10
172	Comparison between various hysteresis models and experimental data. *Journal of Applied Physics*, **1990**, 67, 5379-5381	2.5	10
171	. *IEEE Transactions on Magnetics*, **1988**, 24, 234-237	2	10
170	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	9
169	A Differential Permeability 3-D Formulation for Anisotropic Vector Hysteresis Analysis. *IEEE Transactions on Magnetics*, **2014**, 50, 341-344	2	9
168	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	3.1	9
167	. *IEEE Transactions on Magnetics*, **1990**, 26, 787-790	2	9
166	Numerical Modelling of AC Hysteresis Losses in HTS Tubes. *IEEE Transactions on Applied Superconductivity*, **2015**, 25, 1-5	1.8	8
165	Film formation analysis by diffusive wave spectroscopy. *Progress in Organic Coatings*, **2009**, 64, 515-519	4.8	8
164	Hysteresis of Soft Materials Inside Formulations: Delayed Diffusion Equations, Fields Coupling, and Nonlinear Properties. *IEEE Transactions on Magnetics*, **2008**, 44, 914-917	2	8

163	. *IEEE Transactions on Magnetics*, **2007**, 43, 1569-1572	2	8
162	Magnetic discretion of naval propulsion machines. *IEEE Transactions on Magnetics*, **2002**, 38, 1185-1188	2	8
161	Finite element modeling of permanent magnets under pulsed field. *IEEE Transactions on Magnetics*, **2000**, 36, 1222-1225	2	8
160	Electric railgun 3D modeling: computation of eddy currents and Lorentz force. *IEEE Transactions on Magnetics*, **2001**, 37, 139-142	2	8
159	. *IEEE Transactions on Magnetics*, **1994**, 30, 3590-3593	2	8
158	. *IEEE Transactions on Magnetics*, **1991**, 27, 3786-3791	2	8
157	Results on modeling magnetic hysteresis using the finite-element methoda). *Journal of Applied Physics*, **1991**, 69, 4835-4837	2.5	8
156	3D anisotropic magnetic field calculation in transformer joints. *IEEE Transactions on Magnetics*, **1987**, 23, 3783-3785	2	8
155	Passive Microrheology for Measurement of the Concentrated Dispersions Stability **2012**, 101-105		8
154	Numerical Impact of Using Different E –J Relationships for 3-D Simulations of AC Losses in MgB2 Superconducting Wires. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	7
153	${A}$ –${T}$ Volume Integral Formulations for Solving Electromagnetic Problems in the Frequency Domain. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	7
152	Coupling PEEC-Finite Element Method for Solving Electromagnetic Problems. *IEEE Transactions on Magnetics*, **2008**, 44, 1330-1333	2	7
151	. *IEEE Transactions on Magnetics*, **2005**, 41, 1600-1603	2	7
150	INFLUENCE OF INDUCED CURRENTS IN CONDUCTORS ON LEAKAGE AND LOSSES IN A TRANSFORMER. *Electric Power Components and Systems*, **1991**, 19, 55-68		7
149	. *IEEE Transactions on Magnetics*, **1992**, 28, 1446-1449	2	7
148	Simulation of induction machine operation using a step-by-step finite-element method. *Journal of Applied Physics*, **1990**, 67, 5809-5811	2.5	7
147	Magnetic field computation for electric arc modelling. *IEEE Transactions on Magnetics*, **1983**, 19, 2593-2595	2	7
146	A Mixed Surface Volume Integral Formulation for the Modeling of High-Frequency Coreless Inductors. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	6

145	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	6
144	An energy-based formulation for dynamic hysteresis and extra-losses. *IEEE Transactions on Magnetics*, **2006**, 42, 895-898	2	6
143	Optimization of a finite element mesh for large air-gap deformations. *EPJ Applied Physics*, **2001**, 13, 137-142	1.4	6
142	Toward a simulation of an optically controlled microwave microstrip line at 10 GHz. *IEEE Transactions on Magnetics*, **2002**, 38, 681-684	2	6
141	AC losses in superconducting solenoids. *IEEE Transactions on Applied Superconductivity*, **2002**, 12, 1790-1794	1.84	6
140	3D modeling of shielding structures made by conductors and thin plates. *IEEE Transactions on Magnetics*, **2000**, 36, 790-794	2	6
139	A chemical reaction hysteresis model for magnetic materials. *IEEE Transactions on Magnetics*, **2000**, 36, 1230-1233	2	6
138	A three dimensional finite element modelling of rotating machines involving movement and external circuit. *IEEE Transactions on Magnetics*, **1996**, 32, 1070-1073	2	6
137	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	2.8	6
136	Time-Domain Finite-Element Eddy-Current Homogenization of Windings Using Foster Networks and Recursive Convolution. *IEEE Transactions on Magnetics*, **2020**, 56, 1-8	2	5
135	3-D Hybrid FEM-BEM Using Whitney Facet Elements and Independent Loops. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	5
134	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	5
133	Computation of 3-D current driven eddy current problems using cutting surfaces. *IEEE Transactions on Magnetics*, **1997**, 33, 1314-1317	2	5
132	A current transformer modeling. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2002**, 21, 505-511	0.7	5
131	Numerical computation of the dynamic behavior of magnetic material considering magnetic diffusion and hysteresis. *IEEE Transactions on Magnetics*, **2000**, 36, 1218-1221	2	5
130	. *IEEE Transactions on Magnetics*, **1994**, 30, 3312-3315	2	5
129	. *IEEE Transactions on Magnetics*, **1994**, 30, 3558-3561	2	5
128	An Original Solution for unbounded electromagnetic 2D- and 3D problems throughout the finite element method **1990**,		5

127	Mechanical deformation of a conductor under electromagnetic stresses. *IEEE Transactions on Magnetics*, **1986**, 22, 828-830	2	5
126	Software for computer-aided analysis of electromagnetic fields. *IEEE Transactions on Magnetics*, **1980**, 16, 1435-1437	2	5
125	Iterative Solution on GPU of Linear Systems Arising from the A-V Edge-FEA of Time-Harmonic Electromagnetic Phenomena **2014**,		4
124	3-D Magnetostatic Moment Method Dedicated to Arc Interruption Process Modeling. *IEEE Transactions on Magnetics*, **2014**, 50, 941-944	2	4
123	General Integral Formulation for the 3D Thin Shell Modeling. *IEEE Transactions on Magnetics*, **2013**, 49, 1989-1992	2	4
122	Computations of Source for Non-Meshed Coils With A□${V}$ Formulation Using Edge Elements. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	4
121	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	4
120	Circuit-Coupled ${bf t}_{0}hbox {-}phi$ Formulation With Surface Impedance Condition. *IEEE Transactions on Magnetics*, **2008**, 44, 730-733	2	4
119	A Magnetic Vector Potential Formulation to Deal With Dynamic Induced Losses Within 2-D Models. *IEEE Transactions on Magnetics*, **2007**, 43, 1205-1208	2	4
118	Circuit coupling method applied to bulk superconductors. *IEEE Transactions on Magnetics*, **2002**, 38, 3661-3664		4
117	Numerical modelling of Bi-2223 multifilamentary tapes with position-dependent Jc. *Physica C: Superconductivity and Its Applications*, **2002**, 372-376, 1800-1805	1.3	4
116	Magneto-dynamic formulation to solve capacitive effect problems in an axi-symmetrical coil. *IEEE Transactions on Magnetics*, **2000**, 36, 795-798	2	4
115	. *IEEE Transactions on Magnetics*, **1989**, 25, 3581-3583	2	4
114	. *IEEE Transactions on Magnetics*, **1989**, 25, 3590-3592	2	4
113	Magnetic field computation in a transformer core with an automatic adaptive mesh generator. *Journal of Applied Physics*, **1990**, 67, 5806-5808	2.5	4
112	. *IEEE Transactions on Magnetics*, **1988**, 24, 66-69	2	4
111	. *IEEE Transactions on Magnetics*, **1988**, 24, 483-486	2	4
110	Computer methods for electrical and magnetic devices designed by field analysis. *IEEE Transactions on Magnetics*, **1979**, 15, 1671-1673	2	4

109	Apport de la g ostatistique la description des stockages de gaz en aquif e. *Oil & Gas Science & Technology*, **1981**, 36, 309-327		4
108	Couplage des quations lectriques et magn iques. *Journal De Physique III*, **1993**, 3, 397-412		4
107	Incorporation of a Vector Preisach Mayergoyz Hysteresis Model in 3-D Finite Element Analysis. *IEEE Transactions on Magnetics*, **2019**, 55, 1-4	2	3
106	. *IEEE Transactions on Magnetics*, **2014**, 50, 233-236	2	3
105	Magnetic field computation of a common mode filter using Finite Element, PEEC methods and their coupling **2008**,		3
104	Dedicating Finite Volume Method to electromagnetic plasma modeling: Circuit breaker application. *International Journal of Applied Electromagnetics and Mechanics*, **2008**, 28, 3-9	0.4	3
103	Calculation of electrical machine magnetic stray fields. *IET Science, Measurement and Technology*, **2002**, 149, 190-193		3
102	3D modeling of thin wires interacting with thin plates: Extracting the singularity due to the loop wire self inductance. *EPJ Applied Physics*, **2001**, 14, 63-67	1.1	3
101	2D nonlinear finite element modelling of electromagnetic retarders using time-stepping algorithms, and the Petrov-Galerkin method with homogenization techniques. *IEEE Transactions on Magnetics*, **1996**, 32, 772-775	2	3
100	. *IEEE Transactions on Magnetics*, **1994**, 30, 3012-3015	2	3
99	. *IEEE Transactions on Magnetics*, **1989**, 25, 3083-3085	2	3
98	2D finite-element and analytic calculation of eddy-current losses in thin linear conductors. *Journal of Applied Physics*, **1990**, 67, 4726-4728	2.5	3
97	Line element for efficient computation of the magnetic field created by thin iron plates **1990**,		3
96	. *IEEE Transactions on Magnetics*, **1988**, 24, 378-380	2	3
95	Two 3D parametered mesh generators for the magnetic field computation. *IEEE Transactions on Magnetics*, **1984**, 20, 1900-1902	2	3
94	On the Use of Automatic Cuts Algorithm for T0 T Formulation in Nondestructive Testing by Eddy Current. *Studies in Computational Intelligence*, **2008**, 55-62	0.8	3
93	Unstructured PEEC method with the use of surface impedance boundary condition. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2020**, 39, 1017-1030	0.7	3
92	Comparing partial element equivalent circuit and finite element methods for the resonant wireless power transfer 3D modeling **2016**,		3

91	Predicting the long-term stability of depletion-flocculated emulsions by static multiple light scattering (SMLS). *Journal of Dispersion Science and Technology*, **2020**, 41, 648-655	1.5	3
90	Phase transitions in polymorphic materials probed using space-resolved diffusing wave spectroscopy. *Soft Matter*, **2018**, 14, 6439-6448	3.6	3
89	General Integral Formulation of Magnetic Flux Computation and Its Application to Inductive Power Transfer System. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	2
88	Large Surface LC-Resonant Metamaterials: From Circuit Model to Modal Theory and Efficient Numerical Methods. *IEEE Transactions on Magnetics*, **2020**, 56, 1-4	2	2
87	Coupling between partial element equivalent circuit method and an integro-differential approach for solving electromagnetics problems. *IET Science, Measurement and Technology*, **2012**, 6, 394	1.5	2
86	Modeling of large air gap transformers using magnetic equivalent circuit for designing of high power application **2010**,		2
85	Dedicating Finite Volume Method to Electromagnetic Plasma Modeling: Circuit Breaker Application. *IEEE Transactions on Magnetics*, **2009**, 45, 1262-1265	2	2
84	FEM-PEEC coupled method for modeling solid conductors in the presence of ferromagnetic material. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2008**, 27, 904-910	0.7	2
83	A t0-? surface impedance formulation for multiply connected conductors. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2008**, 27, 64-71	0.7	2
82	An energy-based model for dynamic hysteresis. *IEEE Transactions on Magnetics*, **2005**, 41, 3766-3768	2	2
81	3-D computation of magnetic anomaly due to a rotating plate in the Earth's magnetic field. *IEEE Transactions on Magnetics*, **2002**, 38, 553-556	2	2
80	The node distribution for meshless methods. *EPJ Applied Physics*, **2001**, 15, 135-140	1.1	2
79	. *IEEE Transactions on Magnetics*, **1991**, 27, 3890-3893	2	2
78	. *IEEE Transactions on Magnetics*, **1991**, 27, 3943-3946	2	2
77	. *IEEE Transactions on Magnetics*, **1992**, 28, 1204-1207	2	2
76	. *IEEE Transactions on Magnetics*, **1990**, 26, 925-928	2	2
75	. *IEEE Transactions on Magnetics*, **1988**, 24, 2673-2675	2	2
74	A new thermochemical process for hydrogen production. *International Journal of Hydrogen Energy*, **1979**, 4, 7-11	6.7	2

73	Méthode des intégrales de frontières pour les problèmes magnétiques à symétrie axiale et couplage avec la méthode des éléments finis. *Revue De Physique Appliquée*, **1990**, 25, 613-626		2
72	Unstructured PEEC Method for Thin Electromagnetic Media. *IEEE Transactions on Magnetics*, **2020**, 56, 1-5	2	2
71	FFT-PEEC: A Fast Tool From CAD to Power Electronics Simulations. *IEEE Transactions on Power Electronics*, **2022**, 37, 700-713	7.2	2
70	Generalized PEEC Analysis of Inductive Coupling Phenomena in a Transmission Line Right-of-Way. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	1
69	GPU-accelerated iterative solution of complex-entry systems issued from 3D edge-FEA of electromagnetics in the frequency domain. *International Journal of High Performance Computing Applications*, **2017**, 31, 119-133	1.8	1
68	3D BEM Formulations for Eddy Current Problems with Multiply Connected Domains and Circuit Coupling. *IEEE Transactions on Magnetics*, **2020**, 1-1	2	1
67	3-D Integral Formulation for Thin Electromagnetic Shells Coupled with an External Circuit. *Applied Sciences (Switzerland)*, **2020**, 10, 4284	2.6	1
66	2-D Volume Integral Formulations for Nonlinear Magneto-Static Field Computation for Rotating Machines Pre-Design Considering Periodicities. *IEEE Transactions on Magnetics*, **2018**, 54, 1-4	2	1
65	3D volume integral formulation based on facet elements for the computation of AC losses in superconductors **2016**,		1
64	Preconditioning of a low-frequency electric field integral equation formulation with circuit coupling using H-matrices **2016**,		1
63	An Integral Face Formulation for Thin Non-Conductive Magnetic Regions. *IEEE Transactions on Magnetics*, **2019**, 55, 1-4	2	1
62	Bidirectional Wireless Power Transfer System with Wireless Control for Electrical Vehicle **2019**,		1
61	A Coupling Between the Facet Finite Element and Reluctance Network Methods in 3-D. *IEEE Transactions on Magnetics*, **2017**, 53, 1-10	2	1
60	3-D Integral Formulation Using Facet Elements for Thin Conductive Shells Coupled With an External Circuit. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	1
59	Subproblem Finite-Element Refinement of Homogenized Dielectric Layers in Wound Inductors for Accurate Local Stresses Computation. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	1
58	Hybrid Natural Element Method-Boundary Element Method for Unbounded Problems. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	1
57	Far Field Extrapolation from Near Field Interactions and Shielding Influence Investigations Based on a FE-PEEC Coupling Method. *Electronics (Switzerland)*, **2013**, 2, 80-93	2.6	1
56	2D and 3D homogenization of laminated cores in the frequency domain. *EPJ Applied Physics*, **2013**, 64, 24517	1.1	1

55	Coupling between PEEC and magnetic moment method. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2012**, 32, 383-395	0.7	1
54	Numerical study of a double preconditioning strategy. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2008**, 27, 897-903	0.7	1
53	Numerical modeling of electrical machines: requirements, state of the art, lacks. *Journal of Magnetism and Magnetic Materials*, **2002**, 242-245, 1198-1201	2.8	1
52	Magnetic discretion of naval propulsion machines. *Journal of Magnetism and Magnetic Materials*, **2002**, 242-245, 1190-1194	2.8	1
51	Numerical computation of a vectorial hysteresis H(B) magnetization law. *IEEE Transactions on Magnetics*, **2003**, 39, 1393-1396	2	1
50	A new hysteresis model generation - application to the transverse axis of GO SiFe sheet. *IEEE Transactions on Magnetics*, **2001**, 37, 3340-3344	2	1
49	On solving connexity problems within modeling massive conductors. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2001**, 20, 51-61	0.7	1
48	Finite element modeling of unbounded problems: use of a geometrical transformation and comparison with the boundary integral method. *IEEE Transactions on Magnetics*, **1996**, 32, 1401-1404	2	1
47	. *IEEE Transactions on Magnetics*, **1994**, 30, 2964-2967	2	1
46	. *IEEE Transactions on Magnetics*, **1995**, 31, 1650-1653	2	1
45	Modelling Nonlinear Magnetic Materials for Field Computation. *Journal of Electromagnetic Waves and Applications*, **1990**, 4, 1027-1054	1.3	1
44	. *IEEE Transactions on Magnetics*, **1988**, 24, 389-392	2	1
43	. *IEEE Transactions on Magnetics*, **1988**, 24, 526-529	2	1
42	Two dimensional hysteresis model using finite element method. *IEEE Transactions on Magnetics*, **1985**, 21, 2362-2365	2	1
41	Calcul des courants de Foucault en trois dimensions par une formulation utilisant le potentiel vecteur magn□ique et le potentiel scalaire □ectrique. *Revue De Physique Appliqu□*, **1990**, 25, 593-603		1
40	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	3.6	1
39	3D magnetic devices analysis using facet FEM formulation coupled with reluctance network method **2016**,		1
38	Unstructured - PEEC Method with the use of Surface Impedance Condition **2019**,		1

37	Time-Domain Homogenization of Foil Windings in 2-D Axisymmetric Finite-Element Models. *IEEE Transactions on Power Delivery*, **2021**, 36, 1264-1269	4.3	1
36	A Highly Efficient Post-Processing Method for Computing Magnetic Flux in Coils Considering Magnetic and Conductive Regions. *IEEE Transactions on Magnetics*, **2018**, 54, 1-4	2	1
35	Computation of the readback voltage in digital magnetic recording. *Journal of Magnetism and Magnetic Materials*, **1990**, 83, 48-50	2.8	0
34	ERROR ESTIMATION AND ADAPTIVE MESH REFINEMENT FOR THE UNSTRUCTURED INDUCTIVE PEEC FORMULATION. *IEEE Transactions on Magnetics*, **2021**, 1-1	2	0
33	3D eddy currents computation by BEM using the modified magnetic vector potential and the reduced magnetic scalar potential. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, **2020**, 33, e2642	1	0
32	Maximising transferred power and preserving zero voltage switching in grid to vehicle and vehicle to grid modes of a wireless charging system. *IET Electrical Systems in Transportation*, **2020**, 10, 196-203	2.1	
31	Computation of Source for Non-Meshed Coils in a Reduced Domain With ${A}$ □${V}$ Formulation. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	
30	Direct computation of current density to solve 3D electric conduction problems using facet elements with FEM. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, **2014**, 27, 400-417	1	
29	A simple integral formulation for the modeling of thin conductive shells. *EPJ Applied Physics*, **2013**, 64, 24513	1.1	
28	Electric Field Computation in Nonconducting Regions Using A-V After a ${rm T}0-phi$ Surface Impedance Magnetoharmonic Computation. *IEEE Transactions on Magnetics*, **2011**, 47, 1434-1437	2	
27	Frequency-domain homogenization for periodic electromagnetic structure. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2010**, 29, 1416-1424	0.7	
26	Introduction to Nodal Finite Elements **2010**, 1-68		
25	Magneto-mechanical Modeling **2010**, 431-475		
24	Mesh Generation **2010**, 509-545		
23	Behavior Laws of Materials **2010**, 177-244		
22	Modeling of Thin and Line Regions **2010**, 245-275		
21	Coupling with Circuit Equations **2010**, 277-320		
20	Modeling of Motion: Accounting for Movement in the Modeling of Magnetic Phenomena **2010**, 321-367		

19	Coupling t-?formulation with surface impedance boundary condition for eddy current crack detection. *EPJ Applied Physics*, **2010**, 52, 23302	1.1
18	A 3D electric vector potential formulation for dynamic hysteresis and losses. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2008**, 27, 277-287	0.7
17	Unification of Physical Data Models. Application in a Platform for Numerical Simulation: SALOME. *IEEE Transactions on Magnetics*, **2007**, 43, 1661-1664	2
16	A new technique for stranded coil treatment in a 3D edge element based formulation. *IEEE Transactions on Magnetics*, **1999**, 35, 1837-1840	2
15	. *IEEE Transactions on Magnetics*, **1989**, 25, 2840-2842	2
14	. *IEEE Transactions on Magnetics*, **1991**, 27, 4998-4999	2
13	Hysteresis computation in oriented recording media. *IEEE Transactions on Magnetics*, **1987**, 23, 210-213	2
12	Finite elements analysis of a self starting synchronous motor. *IEEE Transactions on Magnetics*, **1981**, 17, 3399-3401	2
11	Three-dimensional analysis of a micromotor by the finite element method. *Journal of Magnetism and Magnetic Materials*, **1982**, 26, 333-336	2.8
10	Computational Strategies Improvement For The Unstructured Inductive PEEC Method	
9	A New Strategy for Automatic Coupling Between the Inductive PEEC Method and an Integral Electrostatic Formulation. *IEEE Transactions on Electromagnetic Compatibility*, **2021**, 1-10	2
8	Capacitance Computation of Multi-Turn Windings via Elementary Neighbor-Conductor Models. *IEEE Journal on Multiscale and Multiphysics Computational Techniques*, **2021**, 6, 125-131	1.5
7	Quelques mod□les de calcul de pertes suppl□mentaires dans les bobinages des transformateurs de puissance. *Revue De Physique Appliqu□*, **1990**, 25, 295-311	
6	Outil de mod□isation de syst□mes d'enregistrement magn□tique. *Revue De Physique Appliqu□*, **1986**, 21, 435-441	
5	Volume Integral Equation Methods for Axisymmetric Problems With Conductive and Magnetic Media. *IEEE Transactions on Magnetics*, **2020**, 56, 1-9	2
4	An expression of the magnetic co-energy adapted to magnetostatic volume integral formulations - application to the magnetic force computation. *International Journal of Applied Electromagnetics and Mechanics*, **2019**, 59, 3-8	0.4
3	A semi-analytical method to compute the magnetic flux linkage of a 2D meshed coil in presence of magnetic materials □application to electrical motor pre-design. *EPJ Applied Physics*, **2018**, 83, 20902	1.1
2	A review on methods to simulate three dimensional rotating electrical machine in magnetic vector potential formulation using edge finite element method under sliding surface principle. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*,e2925	1

1 A flux-based inverse integral formulation for steel shell magnetization identification. *Journal of Magnetism and Magnetic Materials*, **2021**, 538, 168275 2.8