Piergiorgio Alotto

List of Publications by Year in Descending Order

160 papers	2,615 citations	25 h-index	45 g-index
180 ext. papers	3,274 ext. citations	3 avg, IF	5.76 L-index

#	Paper	IF	Citations
160	Do Wind Turbines Amplify the Effects of Lightning Strikes A Full-Maxwell Modelling Approach. *IEEE Transactions on Power Delivery*, **2022**, 1-1	4.3	0
159	Fast Solver for Implicit Continuous Set Model Predictive Control of Electric Drives. *IEEE Access*, **2022**, 1-1	3.5	3
158	Introduction to Electrochemical Energy Storage **2021**,		
157	Fast Fourier transform-volume integral: a smart approach for the electromagnetic design of complex systems in large fusion devices. *Plasma Physics and Controlled Fusion*, **2021**, 63, 025010	2	5
156	Multichannel Electrochemical Impedance Spectroscopy and equivalent circuit synthesis of a large-scale vanadium redox flow battery. *Journal of Power Sources*, **2021**, 493, 229703	8.9	7
155	A validated dynamical model of a kW-class Vanadium Redox Flow Battery. *Mathematics and Computers in Simulation*, **2021**, 183, 66-77	3.3	7
154	Continuous Control Set Model Predictive Current Control of a Microgrid-Connected PWM Inverter. *IEEE Transactions on Power Systems*, **2021**, 36, 415-425	7	2
153	Novel electrolyte rebalancing method for vanadium redox flow batteries. *Chemical Engineering Journal*, **2021**, 405, 126583	14.7	25
152	Redox flow batteries: Status and perspective towards sustainable stationary energy storage. *Journal of Power Sources*, **2021**, 481, 228804	8.9	105
151	Battery Management Systems for Redox Flow Batteries and Controllers for Fuel Cells **2021**,		
150	Optimized cycle basis in volume integral formulations for large scale eddy-current problems. *Computer Physics Communications*, **2021**, 265, 108004	4.2	8
149	Fast Response of kW-Class Vanadium Redox Flow Batteries. *IEEE Transactions on Sustainable Energy*, **2021**, 12, 2413-2422	8.2	5
148	Battery management system with testing protocols for kW-class vanadium redox flow batteries **2020**,		2
147	Solute transport and reaction in porous electrodes at high Schmidt numbers. *Journal of Fluid Mechanics*, **2020**, 896,	3.7	10
146	Marching On-In-Time Unstructured PEEC Method for Electrically Large Structures with Conductive, Dielectric, and Magnetic Media. *Electronics (Switzerland)*, **2020**, 9, 242	2.6	2
145	Enhancing the efficiency of kW-class vanadium redox flow batteries by flow factor modulation: An experimental method. *Applied Energy*, **2020**, 262, 114532	10.7	20
144	Volume Integral Equation Methods for Axisymmetric Problems With Conductive and Magnetic Media. *IEEE Transactions on Magnetics*, **2020**, 56, 1-9	2	

143	Modelling of road-embedded transmitting coils for wireless power transfer. *Computers and Electrical Engineering*, **2020**, 88, 106850	4.3	12
142	Standby thermal management system for a kW-class vanadium redox flow battery. *Energy Conversion and Management*, **2020**, 226, 113510	10.6	14
141	Uncertainty Quantification for SAE J2954 Compliant Static Wireless Charge Components. *IEEE Access*, **2020**, 8, 171489-171501	3.5	12
140	High current polarization tests on a 9 kW vanadium redox flow battery. *Journal of Power Sources*, **2019**, 431, 239-249	8.9	27
139	A Review on Magnetic Gears: Topologies, Computational Models, and Design Aspects. *IEEE Transactions on Industry Applications*, **2019**, 55, 4557-4566	4.3	15
138	Non-uniformly spaced linear antenna array design by means of PEEC approach applying Cheetah optimization algorithm. *International Journal of Applied Electromagnetics and Mechanics*, **2019**, 60, S15-S24	0.4	1
137	Standby thermal model of a vanadium redox flow battery stack with crossover and shunt-current effects. *Applied Energy*, **2019**, 240, 893-906	10.7	27
136	Thermal modeling of industrial-scale vanadium redox flow batteries in high-current operations. *Journal of Power Sources*, **2019**, 424, 204-214	8.9	27
135	A Moving Horizon Estimator for the Speed and Rotor Position of a Sensorless PMSM Drive. *IEEE Transactions on Power Electronics*, **2019**, 34, 580-587	7.2	25
134	Maximizing Vanadium Redox Flow Battery Efficiency: Strategies of Flow Rate Control **2019**,		5
133	High-Performance PEEC Analysis of Electromagnetic Scatterers. *IEEE Transactions on Magnetics*, **2019**, 55, 1-4	2	22
132	Challenges in the Electromagnetic Modeling of Road Embedded Wireless Power Transfer. *Energies*, **2019**, 12, 2677	3.1	20
131	Comparison of energy losses in a 9 kW vanadium redox flow battery. *Journal of Power Sources*, **2019**, 440, 227144	8.9	26
130	Magnetic Loss Analysis in Coaxial Magnetic Gears. *Electronics (Switzerland)*, **2019**, 8, 1320	2.6	7
129	Particle based method and X-ray computed tomography for pore-scale flow characterization in VRFB electrodes. *Energy Storage Materials*, **2019**, 16, 91-96	19.4	30
128	[Nafion/(WO3)x] hybrid membranes for vanadium redox flow batteries. *Solid State Ionics*, **2018**, 319, 110-116	3.3	43
127	Multi-objective optimization of coaxial magnetic gears. *International Journal of Applied Electromagnetics and Mechanics*, **2018**, 56, 45-59	0.4	2
126	Analysis of impulse-magnetization in rare-earth permanent magnets. *International Journal of Applied Electromagnetics and Mechanics*, **2018**, 57, 23-31	0.4	2

125	A 3-D PEEC Formulation Based on the Cell Method for Full-Wave Analyses With Conductive, Dielectric, and Magnetic Media. *IEEE Transactions on Magnetics*, **2018**, 54, 1-4	2	17
124	A Review on Magnetic Gears: Topologies, Computational Models and Design Aspects **2018**,		2
123	. *IEEE Industrial Electronics Magazine*, **2018**, 12, 19-31	6.2	6
122	Developing vanadium redox flow technology on a 9-kW 26-kWh industrial scale test facility: Design review and early experiments. *Applied Energy*, **2018**, 230, 1425-1434	10.7	40
121	Magnetic transmission gear finite element simulation with iron pole hysteresis. *Open Physics*, **2018**, 16, 105-110	1.3	5
120	PEEC-Based Analysis of Complex Fusion Magnets During Fast Voltage Transients With H-Matrix Compression. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	12
119	UHF RFID Antenna Impedance Characterization: Numerical Simulation of Interconnection Effects on the Antenna Impedance. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	1
118	Nonlinear model order reduction for the fast solution of induction heating problems in time-domain. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2017**, 36, 469-475	0.7	2
117	H-Matrix Sparsification Applied to Bioelectromagnetic Analysis of Large Scale Human Models. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	1
116	3D electromagnetic analysis of the MHD control system in RFX-mod upgrade. *Fusion Engineering and Design*, **2017**, 123, 612-615	1.7	1
115	An alternative low-loss stack topology for vanadium redox flow battery: Comparative assessment. *Journal of Power Sources*, **2017**, 340, 229-241	8.9	29
114	An optimization tool for coaxial magnetic gears. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2017**, 36, 1526-1539	0.7	6
113	Coaxial Magnetic Gear Design and Optimization. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 9934-9942	8.9	37
112	. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	11
111	Computation of Relative 1-Cohomology Generators From a 1-Homology Basis for Eddy Currents Boundary Integral Formulations. *IEEE Transactions on Magnetics*, **2016**, 52, 1-6	2	3
110	Sparsification of BEM Matrices for Large-Scale Eddy Current Problems. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	12
109	Corona Discharge Simulation of Multiconductor Electrostatic Precipitators. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	2
108	Fast Solution of Induction Heating Problems by Structure-Preserving Nonlinear Model Order Reduction. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	6

107	Real-Time Pose Detection for Magnetic-Assisted Medical Applications by Means of a Hybrid Deterministic/Stochastic Optimization Method. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	1
106	Vanadium Redox Flow Batteries: Potentials and Challenges of an Emerging Storage Technology. *IEEE Industrial Electronics Magazine*, **2016**, 10, 20-31	6.2	37
105	PEEC-based multi-objective synthesis of non-uniformly spaced linear antenna arrays **2016**,		1
104	A selective hybrid stochastic strategy for fuel-cell multi-parameter identification. *Journal of Power Sources*, **2016**, 332, 249-264	8.9	27
103	Modeling the performance of hydrogen□oxygen unitized regenerative proton exchange membrane fuel cells for energy storage. *Journal of Power Sources*, **2015**, 297, 23-32	8.9	25
102	Complementary Energy Bounds in FIT for Magnetostatics. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	1
101	Efficient 3-D Domain Decomposition With Dual Basis Functions. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	1
100	2-D Stabilized FIT Formulation for Eddy-Current Problems in Moving Conductors. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	3
99	Solving 3-D Eddy Currents in Thin Shells of Any Shape and Topology. *IEEE Transactions on Magnetics* , **2015**, 51, 1-4	2	8
98	A deterministic multiobjective optimizer. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2015**, 34, 1351-1363	0.7	1
97	A FIT Formulation of Bianisotropic Materials Over Polyhedral Grids. *IEEE Transactions on Magnetics*, **2014**, 50, 349-352	2	4
96	Domain decomposition with the mortar cell method. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, **2014**, 27, 461-471	1	6
95	Magnetizer Design Based on a Quasi-Oppositional Gravitational Search Algorithm. *IEEE Transactions on Magnetics*, **2014**, 50, 705-708	2	7
94	Stochastic Methods for Parameter Estimation of Multiphysics Models of Fuel Cells. *IEEE Transactions on Magnetics*, **2014**, 50, 701-704	2	8
93	A modified lambda algorithm for optimization in electromagnetics. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2014**, 33, 759-767	0.7	1
92	Redox flow batteries for the storage of renewable energy: A review. *Renewable and Sustainable Energy Reviews*, **2014**, 29, 325-335	16.2	666
91	A Multiobjective Firefly Approach Using Beta Probability Distribution for Electromagnetic Optimization Problems. *IEEE Transactions on Magnetics*, **2013**, 49, 2085-2088	2	14
90	A Mortar Cell Method for Electro-Thermal Contact Problems. *IEEE Transactions on Magnetics*, **2013**, 49, 795-798	2	5

89	Algebraic Second Order Hodge Operator for Poisson's Equation. *IEEE Transactions on Magnetics*, **2013**, 49, 1761-1764	2	1
88	Large scale energy storage with redox flow batteries. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2013**, 32, 1459-1470	0.7	7
87	Molecular relaxations in magnesium polymer electrolytes via GHz broadband electrical spectroscopy. *ChemSusChem*, **2013**, 6, 2157-60	8.3	22
86	Multi-physics model for regenerative PEM fuel cell energy storage **2013**,		1
85	The Cell Method for Electrical Engineering and Multiphysics Problems. *Lecture Notes in Electrical Engineering*, **2013**,	0.2	11
84	Classical Physical Problems. *Lecture Notes in Electrical Engineering*, **2013**, 49-90	0.2	
83	Multiphysics Problems. *Lecture Notes in Electrical Engineering*, **2013**, 91-114	0.2	
82	Constitutive Equations. *Lecture Notes in Electrical Engineering*, **2013**, 21-47	0.2	
81	Topological Equations. *Lecture Notes in Electrical Engineering*, **2013**, 11-20	0.2	2
80	A Modified Imperialist Competitive Algorithm for Optimization in Electromagnetics. *IEEE Transactions on Magnetics*, **2012**, 48, 579-582	2	30
79	A Cell Method Formulation of 3-D Electrothermomechanical Contact Problems With Mortar Discretization. *IEEE Transactions on Magnetics*, **2012**, 48, 503-506	2	8
78	Parametric analysis and optimization of the shape of the transitions of a two-port rectangular TEM cell **2012**,		1
77	Redox Flow Batteries for large scale energy storage **2012**,		5
76	Optimization of Interior PM Motors With Machaon Rotor Flux Barriers. *IEEE Transactions on Magnetics*, **2011**, 47, 958-961	2	57
75	Particle Swarm Optimization of a Multi-Coil Transverse Flux Induction Heating System. *IEEE Transactions on Magnetics*, **2011**, 47, 1270-1273	2	11
74	Gaussian Artificial Bee Colony Algorithm Approach Applied to Loney's Solenoid Benchmark Problem. *IEEE Transactions on Magnetics*, **2011**, 47, 1326-1329	2	81
73	Dual-PEEC Modeling of a Two-Port TEM Cell for VHF Applications. *IEEE Transactions on Magnetics*, **2011**, 47, 1486-1489	2	12
72	A Second-Order Cell Method for Poisson's Equation. *IEEE Transactions on Magnetics*, **2011**, 47, 1430-1433	2	2

71	A Proper Generalized Decomposition Approach for Fuel Cell Polymeric Membrane Modeling. *IEEE Transactions on Magnetics*, **2011**, 47, 1462-1465	2	12
70	Multi-physic 3D dynamic modelling of polymer membranes with a proper generalized decomposition model reduction approach. *Electrochimica Acta*, **2011**, 57, 250-256	6.7	11
69	A straightforward deduction of the electric circuit power. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2011**, 30, 1271-1282	0.7	1
68	A cell method-based numerical model for resistance welding. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2011**, 30, 1479-1486	0.7	
67	A hybrid multiobjective differential evolution method for electromagnetic device optimization. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2011**, 30, 1815-1828	0.7	18
66	A novel circuit model of a proton exchange membrane fuel cell. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2010**, 29, 1562-1572	0.7	1
65	Optimization of IPM motors with Machaon rotor flux barriers **2010**,		4
64	A Dynamic Circuit Model of a Small Direct Methanol Fuel Cell for Portable Electronic Devices. *IEEE Transactions on Industrial Electronics*, **2010**, 57, 1865-1873	8.9	23
63	Gaussian artificial bee colony algorithm approach applied to Loney₃s solenoid benchmark problem **2010**,		2
62	Improved Bacterial Foraging Strategy Applied to TEAM Workshop Benchmark Problem. *IEEE Transactions on Magnetics*, **2010**, 46, 2903-2906	2	13
61	Multiphysics Problems via the Cell Method: The Role of Tonti Diagrams. *IEEE Transactions on Magnetics*, **2010**, 46, 2959-2962	2	21
60	A Multiobjective Gaussian Particle Swarm Approach Applied to Electromagnetic Optimization. *IEEE Transactions on Magnetics*, **2010**, 46, 3289-3292	2	31
59	A Fully Coupled Three-Dimensional Dynamic Model of Polymeric Membranes for Fuel Cells. *IEEE Transactions on Magnetics*, **2010**, 46, 3257-3260	2	5
58	Modeling non-linear passive direct methanol fuel cells. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2009**, 28, 523-539	0.7	5
57	Electromagnetic Optimization Using a Cultural Self-Organizing Migrating Algorithm Approach Based on Normative Knowledge. *IEEE Transactions on Magnetics*, **2009**, 45, 1446-1449	2	21
56	Tribes Optimization Algorithm Applied to the Loney₃s Solenoid. *IEEE Transactions on Magnetics*, **2009**, 45, 1526-1529	2	11
55	Optimal Design of Micro Direct Methanol Fuel Cells for Low-Power Applications. *IEEE Transactions on Magnetics*, **2009**, 45, 1570-1573	2	9
54	Electromagnetic optimization based on an improved diversity-guided differential evolution approach and adaptive mutation factor. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2009**, 28, 1112-1120	0.7	11

53	A coupled electro-chemical model of a direct methanol fuel cell for portable electronic devices. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2009**, 28, 1005-1019	0.7	1
52	Particle swarm optimization combined with normative knowledge applied to Loney's solenoid design. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2009**, 28, 1155-1161	0.7	2
51	A Coupled Thermo-Electromagnetic Formulation Based on the Cell Method. *IEEE Transactions on Magnetics*, **2008**, 44, 702-705	2	10
50	Multiobjective Electromagnetic Optimization Based on a Nondominated Sorting Genetic Approach With a Chaotic Crossover Operator. *IEEE Transactions on Magnetics*, **2008**, 44, 1078-1081	2	41
49	Global Optimization of Electromagnetic Devices Using an Exponential Quantum-Behaved Particle Swarm Optimizer. *IEEE Transactions on Magnetics*, **2008**, 44, 1074-1077	2	48
48	Loney's Solenoid Design Using an Artificial Immune Network With Local Search Based on the Simplex Method. *IEEE Transactions on Magnetics*, **2008**, 44, 1070-1073	2	4
47	A Boundary Integral Formulation for Eddy Current Problems Based on the Cell Method. *IEEE Transactions on Magnetics*, **2008**, 44, 770-773	2	11
46	SMES Optimization Benchmark Extended: Introducing Pareto Optimal Solutions Into TEAM22. *IEEE Transactions on Magnetics*, **2008**, 44, 1066-1069	2	39
45	Modeling and control of fuel cell-battery hybrid power systems for portable electronics **2008**,		1
44	Three-dimensional eddy current analysis in unbounded domains by a DEM-BEM formulation. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2008**, 27, 460-466	0.7	2
43	A Boundary Integral Formulation on Unstructured Dual Grids for Eddy-Current Analysis in Thin Shields. *IEEE Transactions on Magnetics*, **2007**, 43, 1173-1176	2	12
42	A 3-D Cell Method Formulation for Coupled Electric and Thermal Problems. *IEEE Transactions on Magnetics*, **2007**, 43, 1197-1200	2	5
41	Implementation of surface impedance boundary conditions in the cell method via the vector fitting technique. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2007**, 26, 859-872	0.7	4
40	Electromagnetic device optimization by hybrid evolution strategy approaches. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2007**, 26, 269-279	0.7	10
39	A time-domain 3-D full-Maxwell solver based on the cell method. *IEEE Transactions on Magnetics*, **2006**, 42, 799-802	2	21
38	A /spl theta/-method for eddy currents in time-domain with a discrete geometric approach. *IEEE Transactions on Magnetics*, **2006**, 42, 779-782	2	4
37	Matrix properties of a vector potential cell method for magnetostatics. *IEEE Transactions on Magnetics*, **2004**, 40, 1045-1048	2	10
36	Robust target functions in electromagnetic design. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2003**, 22, 549-560	0.7	15

35	Linear systems of equations arising in the (almost) FEM solution of low-frequency electromagnetic problems **2003**, 931-940		
34	Efficient use of the local discontinuous Galerkin method for meshes sliding on a circular boundary. *IEEE Transactions on Magnetics*, **2002**, 38, 405-408	2	4
33	Field and current flow analysis of the buried feeding line of the innovative electric transport concept STREAM. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2002**, 21, 591-604	0.7	1
32	Optimisation of electromagnetic devices with uncertain parameters and tolerances in the design variables. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2001**, 20, 808-812	0.7	10
31	An efficient hybrid algorithm for the optimization of problems with several local minima. *International Journal for Numerical Methods in Engineering*, **2001**, 50, 847-868	2.4	18
30	A WWW-based tool for the remote optimization of electromagnetic devices. *IEEE Transactions on Magnetics*, **2001**, 37, 3592-3595	2	
29	Equivalent source methods for 3-D force calculation with nodal and mixed FEM in magnetostatic problems. *IEEE Transactions on Magnetics*, **2001**, 37, 3137-3140	2	2
28	Discontinuous finite element methods for the simulation of rotating electrical machines. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2001**, 20, 448-462	0.7	15
27	Hybrid deterministic/stochastic fuzzy methods for the optimization of electromagnetic devices. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2000**, 19, 30-38	0.7	2
26	Adaptive FEM in 3D non-linear magnetostatics. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2000**, 19, 39-48	0.7	
25	An adaptive mixed formulation for 3D magnetostatics. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2000**, 19, 106-120	0.7	1
24	A field-based finite element method for magnetostatics derived from an error minimization approach. *International Journal for Numerical Methods in Engineering*, **2000**, 49, 573-598	2.4	37
23	3-D particulate modeling for simulation of compaction in magnetic field. *IEEE Transactions on Magnetics*, **2000**, 36, 1519-1522	2	5
22	An environment for the optimization of electromagnetic design. *IEEE Transactions on Magnetics*, **2000**, 36, 1640-1644	2	2
21	Tree-Cotree implicit condensation in magnetostatics. *IEEE Transactions on Magnetics*, **2000**, 36, 1523-1526	2	4
20	The hybrid perfectly matched layer and finite element solution for open region problems. *IEEE Transactions on Magnetics*, **2000**, 36, 1635-1639	2	0
19	Mixed finite element methods and tree-cotree implicit condensation. *Calcolo*, **1999**, 36, 233-248	1.5	12
18	Three-dimensional coupled thermo-magnetic analysis of toroidal field coils of resistive high field tokamaks by FEM. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **1998**, 17, 576-584	0.7	

17	A combined approach for the stochastic optimisation of multiminima problems using adaptive fuzzy sets and radial basis functions. *IEEE Transactions on Magnetics*, **1998**, 34, 2837-2840	2	13
16	Error estimation and adaptive meshing in 3D electrostatic and magnetostatic problems. *IEEE Transactions on Magnetics*, **1998**, 34, 3260-3263	2	1
15	Stochastic algorithms in electromagnetic optimization. *IEEE Transactions on Magnetics*, **1998**, 34, 3674-3684	2	86
14	Parallelisation of electromagnetic simulation codes. *IEEE Transactions on Magnetics*, **1998**, 34, 3423-3426	2	2
13	Electromagnetic analysis with equivalent models of complex conducting structures. *IEEE Transactions on Magnetics*, **1998**, 34, 3256-3259	2	3
12	A mixed face-edge finite element formulation for 3D magnetostatic problems. *IEEE Transactions on Magnetics*, **1998**, 34, 2445-2448	2	10
11	Some results on a SMES device optimization benchmark problem. *International Journal of Applied Electromagnetics and Mechanics*, **1998**, 9, 315-324	0.4	9
10	Optimisation of electromagnetic design using HPCN. *Lecture Notes in Computer Science*, **1998**, 1024-1027	0.9	2
9	Time-harmonic mesh adaption with error estimate based on the "local field error" approach. *IEEE Transactions on Magnetics*, **1997**, 33, 1744-1747	2	5
8	Project MIDAS: Magnet Integrated Design and Analysis System. *IEEE Transactions on Magnetics*, **1997**, 33, 1143-1148	2	9
7	A "design of experiment" and statistical approach to enhance the "generalised response surface" method in the optimisation of multiminima problems. *IEEE Transactions on Magnetics*, **1997**, 33, 1896-1899	2	29
6	Multiobjective optimization in magnetostatics: a proposal for benchmark problems. *IEEE Transactions on Magnetics*, **1996**, 32, 1238-1241	2	72
5	Mesh adaption and optimization techniques in magnet design. *IEEE Transactions on Magnetics*, **1996**, 32, 2954-2957	2	5
4	Mesh adaptation in finite element analysis of 2D steady state time harmonic eddy current problems. *IEEE Transactions on Magnetics*, **1996**, 32, 1361-1364	2	9
3	A multiquadrics-based algorithm for the acceleration of simulated annealing optimization procedures. *IEEE Transactions on Magnetics*, **1996**, 32, 1198-1201	2	14
2	Comparison of conditions V=0 and A/spl middot/n=0 on conductor boundaries in A,V-A-/spl Psi/ formulations. *IEEE Transactions on Magnetics*, **1996**, 32, 800-803	2	
1	. *IEEE Transactions on Magnetics*, **1994**, 30, 3379-3382	2	13