

# Piergiorgio Alotto

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Redox flow batteries for the storage of renewable energy: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 29, 325-335	16.2	666
159	Redox flow batteries: Status and perspective towards sustainable stationary energy storage. <i>Journal of Power Sources</i> , <b>2021</b> , 481, 228804	8.9	105
158	Stochastic algorithms in electromagnetic optimization. <i>IEEE Transactions on Magnetics</i> , <b>1998</b> , 34, 3674-3684		86
157	Gaussian Artificial Bee Colony Algorithm Approach Applied to Loney's Solenoid Benchmark Problem. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 1326-1329	2	81
156	Multiobjective optimization in magnetostatics: a proposal for benchmark problems. <i>IEEE Transactions on Magnetics</i> , <b>1996</b> , 32, 1238-1241	2	72
155	Optimization of Interior PM Motors With Machaon Rotor Flux Barriers. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 958-961	2	57
154	Global Optimization of Electromagnetic Devices Using an Exponential Quantum-Behaved Particle Swarm Optimizer. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 1074-1077	2	48
153	[Nafion/(WO <sub>3</sub> )x] hybrid membranes for vanadium redox flow batteries. <i>Solid State Ionics</i> , <b>2018</b> , 319, 110-116	3.3	43
152	Multiobjective Electromagnetic Optimization Based on a Nondominated Sorting Genetic Approach With a Chaotic Crossover Operator. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 1078-1081	2	41
151	Developing vanadium redox flow technology on a 9-kW 26-kWh industrial scale test facility: Design review and early experiments. <i>Applied Energy</i> , <b>2018</b> , 230, 1425-1434	10.7	40
150	SMES Optimization Benchmark Extended: Introducing Pareto Optimal Solutions Into TEAM22. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 1066-1069	2	39
149	Coaxial Magnetic Gear Design and Optimization. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 9934-9942	8.9	37
148	A field-based finite element method for magnetostatics derived from an error minimization approach. <i>International Journal for Numerical Methods in Engineering</i> , <b>2000</b> , 49, 573-598	2.4	37
147	Vanadium Redox Flow Batteries: Potentials and Challenges of an Emerging Storage Technology. <i>IEEE Industrial Electronics Magazine</i> , <b>2016</b> , 10, 20-31	6.2	37
146	A Multiobjective Gaussian Particle Swarm Approach Applied to Electromagnetic Optimization. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 3289-3292	2	31
145	A Modified Imperialist Competitive Algorithm for Optimization in Electromagnetics. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 579-582	2	30
144	Particle based method and X-ray computed tomography for pore-scale flow characterization in VRFB electrodes. <i>Energy Storage Materials</i> , <b>2019</b> , 16, 91-96	19.4	30

143	An alternative low-loss stack topology for vanadium redox flow battery: Comparative assessment. <i>Journal of Power Sources</i> , <b>2017</b> , 340, 229-241	8.9	29
142	A "design of experiment" and statistical approach to enhance the "generalised response surface" method in the optimisation of multim minima problems. <i>IEEE Transactions on Magnetics</i> , <b>1997</b> , 33, 1896-1899	8.9	29
141	High current polarization tests on a 9 kW vanadium redox flow battery. <i>Journal of Power Sources</i> , <b>2019</b> , 431, 239-249	8.9	27
140	Standby thermal model of a vanadium redox flow battery stack with crossover and shunt-current effects. <i>Applied Energy</i> , <b>2019</b> , 240, 893-906	10.7	27
139	Thermal modeling of industrial-scale vanadium redox flow batteries in high-current operations. <i>Journal of Power Sources</i> , <b>2019</b> , 424, 204-214	8.9	27
138	A selective hybrid stochastic strategy for fuel-cell multi-parameter identification. <i>Journal of Power Sources</i> , <b>2016</b> , 332, 249-264	8.9	27
137	Comparison of energy losses in a 9 kW vanadium redox flow battery. <i>Journal of Power Sources</i> , <b>2019</b> , 440, 227144	8.9	26
136	Modeling the performance of hydrogen-oxygen unitized regenerative proton exchange membrane fuel cells for energy storage. <i>Journal of Power Sources</i> , <b>2015</b> , 297, 23-32	8.9	25
135	A Moving Horizon Estimator for the Speed and Rotor Position of a Sensorless PMSM Drive. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 580-587	7.2	25
134	Novel electrolyte rebalancing method for vanadium redox flow batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126583	14.7	25
133	A Dynamic Circuit Model of a Small Direct Methanol Fuel Cell for Portable Electronic Devices. <i>IEEE Transactions on Industrial Electronics</i> , <b>2010</b> , 57, 1865-1873	8.9	23
132	High-Performance PEEC Analysis of Electromagnetic Scatterers. <i>IEEE Transactions on Magnetics</i> , <b>2019</b> , 55, 1-4	2	22
131	Molecular relaxations in magnesium polymer electrolytes via GHz broadband electrical spectroscopy. <i>ChemSusChem</i> , <b>2013</b> , 6, 2157-60	8.3	22
130	Electromagnetic Optimization Using a Cultural Self-Organizing Migrating Algorithm Approach Based on Normative Knowledge. <i>IEEE Transactions on Magnetics</i> , <b>2009</b> , 45, 1446-1449	2	21
129	Multiphysics Problems via the Cell Method: The Role of Tonti Diagrams. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 2959-2962	2	21
128	A time-domain 3-D full-Maxwell solver based on the cell method. <i>IEEE Transactions on Magnetics</i> , <b>2006</b> , 42, 799-802	2	21
127	Enhancing the efficiency of kW-class vanadium redox flow batteries by flow factor modulation: An experimental method. <i>Applied Energy</i> , <b>2020</b> , 262, 114532	10.7	20
126	Challenges in the Electromagnetic Modeling of Road Embedded Wireless Power Transfer. <i>Energies</i> , <b>2019</b> , 12, 2677	3.1	20

125	A hybrid multiobjective differential evolution method for electromagnetic device optimization. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2011</b> , 30, 1815-1828	0.7	18
124	An efficient hybrid algorithm for the optimization of problems with several local minima. <i>International Journal for Numerical Methods in Engineering</i> , <b>2001</b> , 50, 847-868	2.4	18
123	A 3-D PEEC Formulation Based on the Cell Method for Full-Wave Analyses With Conductive, Dielectric, and Magnetic Media. <i>IEEE Transactions on Magnetics</i> , <b>2018</b> , 54, 1-4	2	17
122	A Review on Magnetic Gears: Topologies, Computational Models, and Design Aspects. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 4557-4566	4.3	15
121	Robust target functions in electromagnetic design. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2003</b> , 22, 549-560	0.7	15
120	Discontinuous finite element methods for the simulation of rotating electrical machines. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2001</b> , 20, 448-462	0.7	15
119	A Multiobjective Firefly Approach Using Beta Probability Distribution for Electromagnetic Optimization Problems. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 2085-2088	2	14
118	A multiquadrics-based algorithm for the acceleration of simulated annealing optimization procedures. <i>IEEE Transactions on Magnetics</i> , <b>1996</b> , 32, 1198-1201	2	14
117	Standby thermal management system for a kW-class vanadium redox flow battery. <i>Energy Conversion and Management</i> , <b>2020</b> , 226, 113510	10.6	14
116	Improved Bacterial Foraging Strategy Applied to TEAM Workshop Benchmark Problem. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 2903-2906	2	13
115	A combined approach for the stochastic optimisation of multim minima problems using adaptive fuzzy sets and radial basis functions. <i>IEEE Transactions on Magnetics</i> , <b>1998</b> , 34, 2837-2840	2	13
114	. <i>IEEE Transactions on Magnetics</i> , <b>1994</b> , 30, 3379-3382	2	13
113	PEEC-Based Analysis of Complex Fusion Magnets During Fast Voltage Transients With H-Matrix Compression. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-4	2	12
112	Sparsification of BEM Matrices for Large-Scale Eddy Current Problems. <i>IEEE Transactions on Magnetics</i> , <b>2016</b> , 52, 1-4	2	12
111	Dual-PEEC Modeling of a Two-Port TEM Cell for VHF Applications. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 1486-1489	2	12
110	A Proper Generalized Decomposition Approach for Fuel Cell Polymeric Membrane Modeling. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 1462-1465	2	12
109	A Boundary Integral Formulation on Unstructured Dual Grids for Eddy-Current Analysis in Thin Shields. <i>IEEE Transactions on Magnetics</i> , <b>2007</b> , 43, 1173-1176	2	12
108	Mixed finite element methods and tree-cotree implicit condensation. <i>Calcolo</i> , <b>1999</b> , 36, 233-248	1.5	12

107	Modelling of road-embedded transmitting coils for wireless power transfer. <i>Computers and Electrical Engineering</i> , <b>2020</b> , 88, 106850	4.3	12
106	Uncertainty Quantification for SAE J2954 Compliant Static Wireless Charge Components. <i>IEEE Access</i> , <b>2020</b> , 8, 171489-171501	3.5	12
105	. <i>IEEE Transactions on Magnetics</i> , <b>2016</b> , 52, 1-4	2	11
104	Particle Swarm Optimization of a Multi-Coil Transverse Flux Induction Heating System. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 1270-1273	2	11
103	Multi-physic 3D dynamic modelling of polymer membranes with a proper generalized decomposition model reduction approach. <i>Electrochimica Acta</i> , <b>2011</b> , 57, 250-256	6.7	11
102	Tribes Optimization Algorithm Applied to the Loney-3 Solenoid. <i>IEEE Transactions on Magnetics</i> , <b>2009</b> , 45, 1526-1529	2	11
101	Electromagnetic optimization based on an improved diversity-guided differential evolution approach and adaptive mutation factor. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2009</b> , 28, 1112-1120	0.7	11
100	A Boundary Integral Formulation for Eddy Current Problems Based on the Cell Method. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 770-773	2	11
99	The Cell Method for Electrical Engineering and Multiphysics Problems. <i>Lecture Notes in Electrical Engineering</i> , <b>2013</b> ,	0.2	11
98	Solute transport and reaction in porous electrodes at high Schmidt numbers. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 896,	3.7	10
97	A Coupled Thermo-Electromagnetic Formulation Based on the Cell Method. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 702-705	2	10
96	Electromagnetic device optimization by hybrid evolution strategy approaches. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2007</b> , 26, 269-279	0.7	10
95	Matrix properties of a vector potential cell method for magnetostatics. <i>IEEE Transactions on Magnetics</i> , <b>2004</b> , 40, 1045-1048	2	10
94	Optimisation of electromagnetic devices with uncertain parameters and tolerances in the design variables. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2001</b> , 20, 808-812	0.7	10
93	A mixed face-edge finite element formulation for 3D magnetostatic problems. <i>IEEE Transactions on Magnetics</i> , <b>1998</b> , 34, 2445-2448	2	10
92	Optimal Design of Micro Direct Methanol Fuel Cells for Low-Power Applications. <i>IEEE Transactions on Magnetics</i> , <b>2009</b> , 45, 1570-1573	2	9
91	Project MIDAS: Magnet Integrated Design and Analysis System. <i>IEEE Transactions on Magnetics</i> , <b>1997</b> , 33, 1143-1148	2	9
90	Some results on a SMES device optimization benchmark problem. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>1998</b> , 9, 315-324	0.4	9

89	Mesh adaptation in finite element analysis of 2D steady state time harmonic eddy current problems. <i>IEEE Transactions on Magnetics</i> , <b>1996</b> , 32, 1361-1364	2	9
88	A Cell Method Formulation of 3-D Electrothermomechanical Contact Problems With Mortar Discretization. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 503-506	2	8
87	Solving 3-D Eddy Currents in Thin Shells of Any Shape and Topology. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4	2	8
86	Stochastic Methods for Parameter Estimation of Multiphysics Models of Fuel Cells. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 701-704	2	8
85	Optimized cycle basis in volume integral formulations for large scale eddy-current problems. <i>Computer Physics Communications</i> , <b>2021</b> , 265, 108004	4.2	8
84	Magnetic Loss Analysis in Coaxial Magnetic Gears. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 1320	2.6	7
83	Magnetizer Design Based on a Quasi-Oppositional Gravitational Search Algorithm. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 705-708	2	7
82	Large scale energy storage with redox flow batteries. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2013</b> , 32, 1459-1470	0.7	7
81	Multichannel Electrochemical Impedance Spectroscopy and equivalent circuit synthesis of a large-scale vanadium redox flow battery. <i>Journal of Power Sources</i> , <b>2021</b> , 493, 229703	8.9	7
80	A validated dynamical model of a kW-class Vanadium Redox Flow Battery. <i>Mathematics and Computers in Simulation</i> , <b>2021</b> , 183, 66-77	3.3	7
79	Fast Solution of Induction Heating Problems by Structure-Preserving Nonlinear Model Order Reduction. <i>IEEE Transactions on Magnetics</i> , <b>2016</b> , 52, 1-4	2	6
78	Domain decomposition with the mortar cell method. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , <b>2014</b> , 27, 461-471	1	6
77	An optimization tool for coaxial magnetic gears. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2017</b> , 36, 1526-1539	0.7	6
76	. <i>IEEE Industrial Electronics Magazine</i> , <b>2018</b> , 12, 19-31	6.2	6
75	Maximizing Vanadium Redox Flow Battery Efficiency: Strategies of Flow Rate Control <b>2019</b> ,		5
74	A Mortar Cell Method for Electro-Thermal Contact Problems. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 795-798	2	5
73	Modeling non-linear passive direct methanol fuel cells. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2009</b> , 28, 523-539	0.7	5
72	Redox Flow Batteries for large scale energy storage <b>2012</b> ,		5

71	A Fully Coupled Three-Dimensional Dynamic Model of Polymeric Membranes for Fuel Cells. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 3257-3260	2	5
70	Time-harmonic mesh adaption with error estimate based on the "local field error" approach. <i>IEEE Transactions on Magnetics</i> , <b>1997</b> , 33, 1744-1747	2	5
69	A 3-D Cell Method Formulation for Coupled Electric and Thermal Problems. <i>IEEE Transactions on Magnetics</i> , <b>2007</b> , 43, 1197-1200	2	5
68	3-D particulate modeling for simulation of compaction in magnetic field. <i>IEEE Transactions on Magnetics</i> , <b>2000</b> , 36, 1519-1522	2	5
67	Mesh adaption and optimization techniques in magnet design. <i>IEEE Transactions on Magnetics</i> , <b>1996</b> , 32, 2954-2957	2	5
66	Fast Fourier transform-volume integral: a smart approach for the electromagnetic design of complex systems in large fusion devices. <i>Plasma Physics and Controlled Fusion</i> , <b>2021</b> , 63, 025010	2	5
65	Magnetic transmission gear finite element simulation with iron pole hysteresis. <i>Open Physics</i> , <b>2018</b> , 16, 105-110	1.3	5
64	Fast Response of kW-Class Vanadium Redox Flow Batteries. <i>IEEE Transactions on Sustainable Energy</i> , <b>2021</b> , 12, 2413-2422	8.2	5
63	A FIT Formulation of Bianisotropic Materials Over Polyhedral Grids. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 349-352	2	4
62	Optimization of IPM motors with Machaon rotor flux barriers <b>2010</b> ,		4
61	Loney's Solenoid Design Using an Artificial Immune Network With Local Search Based on the Simplex Method. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 1070-1073	2	4
60	A $\int \sin \theta$ -method for eddy currents in time-domain with a discrete geometric approach. <i>IEEE Transactions on Magnetics</i> , <b>2006</b> , 42, 779-782	2	4
59	Implementation of surface impedance boundary conditions in the cell method via the vector fitting technique. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2007</b> , 26, 859-872	0.7	4
58	Efficient use of the local discontinuous Galerkin method for meshes sliding on a circular boundary. <i>IEEE Transactions on Magnetics</i> , <b>2002</b> , 38, 405-408	2	4
57	Tree-Cotree implicit condensation in magnetostatics. <i>IEEE Transactions on Magnetics</i> , <b>2000</b> , 36, 1523-1526		4
56	Computation of Relative 1-Cohomology Generators From a 1-Homology Basis for Eddy Currents Boundary Integral Formulations. <i>IEEE Transactions on Magnetics</i> , <b>2016</b> , 52, 1-6	2	3
55	2-D Stabilized FIT Formulation for Eddy-Current Problems in Moving Conductors. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4	2	3
54	Electromagnetic analysis with equivalent models of complex conducting structures. <i>IEEE Transactions on Magnetics</i> , <b>1998</b> , 34, 3256-3259	2	3



53	Fast Solver for Implicit Continuous Set Model Predictive Control of Electric Drives. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	3
52	Nonlinear model order reduction for the fast solution of induction heating problems in time-domain. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2017</b> , 36, 469-475	0.7	2
51	Battery management system with testing protocols for kW-class vanadium redox flow batteries <b>2020</b> ,		2
50	Marching On-In-Time Unstructured PEEC Method for Electrically Large Structures with Conductive, Dielectric, and Magnetic Media. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 242	2.6	2
49	Multi-objective optimization of coaxial magnetic gears. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2018</b> , 56, 45-59	0.4	2
48	Analysis of impulse-magnetization in rare-earth permanent magnets. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2018</b> , 57, 23-31	0.4	2
47	Corona Discharge Simulation of Multiconductor Electrostatic Precipitators. <i>IEEE Transactions on Magnetics</i> , <b>2016</b> , 52, 1-4	2	2
46	A Second-Order Cell Method for Poisson's Equation. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 1430-1433		2
45	Gaussian artificial bee colony algorithm approach applied to Loney's solenoid benchmark problem <b>2010</b> ,		2
44	Particle swarm optimization combined with normative knowledge applied to Loney's solenoid design. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2009</b> , 28, 1155-1161	0.7	2
43	Three-dimensional eddy current analysis in unbounded domains by a DEM-BEM formulation. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2008</b> , 27, 460-466	0.7	2
42	Equivalent source methods for 3-D force calculation with nodal and mixed FEM in magnetostatic problems. <i>IEEE Transactions on Magnetics</i> , <b>2001</b> , 37, 3137-3140	2	2
41	Hybrid deterministic/stochastic fuzzy methods for the optimization of electromagnetic devices. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2000</b> , 19, 30-38	0.7	2
40	An environment for the optimization of electromagnetic design. <i>IEEE Transactions on Magnetics</i> , <b>2000</b> , 36, 1640-1644	2	2
39	Parallelisation of electromagnetic simulation codes. <i>IEEE Transactions on Magnetics</i> , <b>1998</b> , 34, 3423-3426		2
38	Optimisation of electromagnetic design using HPCN. <i>Lecture Notes in Computer Science</i> , <b>1998</b> , 1024-1027.	0.9	2
37	Topological Equations. <i>Lecture Notes in Electrical Engineering</i> , <b>2013</b> , 11-20	0.2	2
36	Continuous Control Set Model Predictive Current Control of a Microgrid-Connected PWM Inverter. <i>IEEE Transactions on Power Systems</i> , <b>2021</b> , 36, 415-425	7	2



35	A Review on Magnetic Gears: Topologies, Computational Models and Design Aspects <b>2018</b> ,		2
34	UHF RFID Antenna Impedance Characterization: Numerical Simulation of Interconnection Effects on the Antenna Impedance. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-4	2	1
33	H-Matrix Sparsification Applied to Bioelectromagnetic Analysis of Large Scale Human Models. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-4	2	1
32	3D electromagnetic analysis of the MHD control system in RFX-mod upgrade. <i>Fusion Engineering and Design</i> , <b>2017</b> , 123, 612-615	1.7	1
31	Real-Time Pose Detection for Magnetic-Assisted Medical Applications by Means of a Hybrid Deterministic/Stochastic Optimization Method. <i>IEEE Transactions on Magnetics</i> , <b>2016</b> , 52, 1-4	2	1
30	Complementary Energy Bounds in FIT for Magnetostatics. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4	2	1
29	Efficient 3-D Domain Decomposition With Dual Basis Functions. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4	2	1
28	A deterministic multiobjective optimizer. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2015</b> , 34, 1351-1363	0.7	1
27	A modified lambda algorithm for optimization in electromagnetics. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2014</b> , 33, 759-767	0.7	1
26	Parametric analysis and optimization of the shape of the transitions of a two-port rectangular TEM cell <b>2012</b> ,		1
25	Algebraic Second Order Hodge Operator for Poisson's Equation. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 1761-1764	2	1
24	Multi-physics model for regenerative PEM fuel cell energy storage <b>2013</b> ,		1
23	A novel circuit model of a proton exchange membrane fuel cell. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2010</b> , 29, 1562-1572	0.7	1
22	A straightforward deduction of the electric circuit power. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2011</b> , 30, 1271-1282	0.7	1
21	A coupled electro-chemical model of a direct methanol fuel cell for portable electronic devices. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2009</b> , 28, 1005-1019	0.7	1
20	Modeling and control of fuel cell-battery hybrid power systems for portable electronics <b>2008</b> ,		1
19	Field and current flow analysis of the buried feeding line of the innovative electric transport concept STREAM. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2002</b> , 21, 591-604	0.7	1
18	An adaptive mixed formulation for 3D magnetostatics. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2000</b> , 19, 106-120	0.7	1

17	Error estimation and adaptive meshing in 3D electrostatic and magnetostatic problems. <i>IEEE Transactions on Magnetics</i> , <b>1998</b> , 34, 3260-3263	2	1
16	PEEC-based multi-objective synthesis of non-uniformly spaced linear antenna arrays <b>2016</b> ,		1
15	The hybrid perfectly matched layer and finite element solution for open region problems. <i>IEEE Transactions on Magnetics</i> , <b>2000</b> , 36, 1635-1639	2	0
14	Do Wind Turbines Amplify the Effects of Lightning Strikes A Full-Maxwell Modelling Approach. <i>IEEE Transactions on Power Delivery</i> , <b>2022</b> , 1-1	4.3	0
13	Non-uniformly spaced linear antenna array design by means of PEEC approach applying Cheetah optimization algorithm. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2019</b> , 60, S15-S24	0.4	
12	A cell method-based numerical model for resistance welding. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2011</b> , 30, 1479-1486	0.7	
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