Maurizio Repetto

List of Publications by Year
in descending order

186 papers	2,627 citations	201674 27 h-index	265206 42 g-index
191 all docs	191 docs citations	191 times ranked	1790 citing authors

#	Article	IF	Citations
1	Stochastic algorithms in electromagnetic optimization. IEEE Transactions on Magnetics, 1998, 34, 3674-3684.	2.1	104
2	Design refinement of synchronous reluctance motors through finite-element analysis. IEEE Transactions on Industry Applications, 2000, 36, 1094-1102.	4.9	97
3	Optimal integration of solar energy in a district heating network. Renewable Energy, 2015, 75, 714-721.	8.9	96
4	Multiobjective optimization in magnetostatics: a proposal for benchmark problems. IEEE Transactions on Magnetics, 1996, 32, 1238-1241.	2.1	85
5	VIS: An artificial immune network for multi-objective optimization. Engineering Optimization, 2006, 38, 975-996.	2.6	70
6	Modeling of electromagnetic phenomena in soft magnetic materials under unidirectional time periodic flux excitations. IEEE Transactions on Magnetics, 1999, 35, 4171-4184.	2.1	67
7	Economic and environmental analysis of a trigeneration system for food-industry: A case study. Applied Energy, 2013, 107, 157-172.	10.1	63
8	Renewable Energy Communities business models under the 2020 Italian regulation. Journal of Cleaner Production, 2021, 316, 128217.	9.3	61
9	A combined strategy for optimization in nonlinear magnetic problems using simulated annealing and search techniques. IEEE Transactions on Magnetics, 1992, 28, 1541-1544.	2.1	50
10	SMES Optimization Benchmark Extended: Introducing Pareto Optimal Solutions Into TEAM22. IEEE Transactions on Magnetics, 2008, 44, 1066-1069.	2.1	50
11	Power losses in magnetic laminations with hysteresis: Finite element modeling and experimental validation. Journal of Applied Physics, 1997, 81, 5606-5608.	2.5	48
12	Iron losses in electrical machines: influence of different material models. IEEE Transactions on Magnetics, 2002, 38, 805-808.	2.1	48
13	Optimal energy management. IEEE Industry Applications Magazine, 2009, 15, 62-65.	0.4	47
14	A Jiles-Atherton and fixed-point combined technique for time periodic magnetic field problems with hysteresis. IEEE Transactions on Magnetics, 1995, 31, 4306-4311.	2.1	46
15	Optimal battery management for vehicle-to-home and vehicle-to-grid operations in a residential case study. Energy, 2019, 175, 704-721.	8.8	46
16	Optimal planning of battery systems for power losses reduction in distribution grids. Electric Power Systems Research, 2019, 167, 94-112.	3.6	44
17	Multiobjective Optimization by a Modified Artificial Immune System Algorithm. Lecture Notes in Computer Science, 2005, , 248-261.	1.3	43
18	Energy harvester for vehicle tires: Nonlinear dynamics and experimental outcomes. Journal of Intelligent Material Systems and Structures, 2012, 23, 3-13.	2.5	43

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19	Human Exposure Assessment in Dynamic Inductive Power Transfer for Automotive Applications. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	41
20	Fuzzy approach for multiobjective optimization in magnetics. IEEE Transactions on Magnetics, 1996, 32, 1234-1237.	2.1	40
21	Integral methods for analysis and design of low-frequency conductive shields. IEEE Transactions on Magnetics, 2003, 39, 2009-2017.	2.1	37
22	Local error estimates for adaptive mesh refinement. IEEE Transactions on Magnetics, 1988, 24, 299-302.	2.1	35
23	A multiquadrics-based algorithm for the acceleration of simulated annealing optimization procedures. IEEE Transactions on Magnetics, 1996, 32, 1198-1201.	2.1	33
24	A comparison of adaptive strategies for mesh refinement based on 'a posteriori' local error estimation procedures. IEEE Transactions on Magnetics, 1990, 26, 795-798.	2.1	31
25	Magnetic shielding solutions for the junction zone of high voltage underground power lines. Electric Power Systems Research, 2012, 89, 109-115.	3.6	31
26	Field and Circuit Approaches for Diffusion Phenomena in Magnetic Cores. IEEE Transactions on Magnetics, 2004, 40, 1322-1325.	2.1	30
27	Preisach-type hysteresis models in magnetic field computation. Physica B: Condensed Matter, 2000, 275, 34-39.	2.7	28
28	Dynamic Simulation of an Electromechanical Energy Scavenging Device. IEEE Transactions on Magnetics, 2010, 46, 2856-2859.	2.1	28
29	Magnetic design optimization and objective function approximation. IEEE Transactions on Magnetics, 2003, 39, 2154-2162.	2.1	27
30	Multilayer integral method for simulation of eddy currents in thin volumes of arbitrary geometry produced by MRI gradient coils. Magnetic Resonance in Medicine, 2014, 71, 1912-1922.	3.0	27
31	Electromechanical and Electronic Integrated Harvester for Shoes Application. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1921-1932.	5.8	26
32	Simplified Approach for 3-D Nonlinear Induction Heating Problems. IEEE Transactions on Magnetics, 2009, 45, 1855-1858.	2.1	25
33	Exposure of Working Population to Pulsed Magnetic Fields. IEEE Transactions on Magnetics, 2010, 46, 2819-2822.	2.1	25
34	Optimal electrical fast charging stations by enhanced descent gradient and Voronoi diagram. Computers and Electrical Engineering, 2020, 83, 106574.	4.8	25
35	An accurate investigation on numerical methods for nonlinear magnetic field problems. Journal of Magnetism and Magnetic Materials, 1994, 133, 591-595.	2.3	23
36	A test case for validation of magnetic field analysis with vector hysteresis. IEEE Transactions on Magnetics, 2002, 38, 893-896.	2.1	23

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37	Multiphysics Problems via the Cell Method: The Role of Tonti Diagrams. IEEE Transactions on Magnetics, 2010, 46, 2959-2962.	2.1	23
38	Power losses in thick steel laminations with hysteresis. Journal of Applied Physics, 1996, 79, 4575.	2.5	22
39	A hysteretic periodic magnetic field solution using Preisach model and Fixed Point technique. IEEE Transactions on Magnetics, 1995, 31, 3548-3550.	2.1	21
40	3-D magnetostatic with the finite formulation. IEEE Transactions on Magnetics, 2003, 39, 1135-1138.	2.1	21
41	Analysis of isotropic materials with vector hysteresis. IEEE Transactions on Magnetics, 1998, 34, 1258-1260.	2.1	20
42	Global formulation of 3D magnetostatics using flux and gauged potentials. International Journal for Numerical Methods in Engineering, 2004, 60, 755-772.	2.8	20
43	Comparison of artificial immune systems and genetic algorithms in electrical engineering optimization. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2006, 25, 792-811.	0.9	20
44	Economic perspective for PV under new Italian regulatory framework. Renewable and Sustainable Energy Reviews, 2017, 71, 283-295.	16.4	20
45	Loss separation analysis in ferromagnetic sheets under PWM inverter supply. IEEE Transactions on Magnetics, 1998, 34, 1240-1242.	2.1	19
46	Integral solution of nonlinear magnetostatic field problems. IEEE Transactions on Magnetics, 2001, 37, 1070-1077.	2.1	19
47	Finite formulation of nonlinear magnetostatics with Integral boundary conditions. IEEE Transactions on Magnetics, 2006, 42, 1503-1511.	2.1	19
48	Educational value of the algebraic numerical methods in electromagnetism. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 1343-1357.	0.9	19
49	Impact of PV penetration in a distribution grid: A Middle-East study case. , 2015, , .		18
50	Analysis of Hysteresis Motor Starting Torque Using Finite Element Method and Scalar Static Hysteresis Model. IEEE Transactions on Magnetics, 2013, 49, 2405-2408.	2.1	17
51	An improved asymmetric gradient coil design for high-resolution MRI head imaging. Physics in Medicine and Biology, 2016, 61, 8875-8889.	3.0	17
52	Optimal management of a complex DHC plant. Energy Conversion and Management, 2017, 145, 386-397.	9.2	17
53	A parallel simulated annealing algorithm for the design of magnetic structures. IEEE Transactions on Magnetics, 1994, 30, 3439-3442.	2.1	16
54	Design of Wireless Power Transmission for a Charge While Driving System. IEEE Transactions on Magnetics, 2014, 50, 965-968.	2.1	16

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55	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.	2.1	15
56	Accurate analysis of magnetic devices with anisotropic vector hysteresis. Physica B: Condensed Matter, 2000, 275, 92-98.	2.7	15
57	Full Micromagnetic Numerical Simulations of Thermal Fluctuations. IEEE Transactions on Magnetics, 2009, 45, 3919-3922.	2.1	15
58	Dual-PEEC Modeling of a Two-Port TEM Cell for VHF Applications. IEEE Transactions on Magnetics, 2011, 47, 1486-1489.	2.1	15
59	Numerical Modeling and Material Characterization for Multilayer Magnetically Shielded Room Design. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	15
60	A 'local field error problem' approach for error estimation in finite element analysis. IEEE Transactions on Magnetics, 1992, 28, 1743-1746.	2.1	14
61	A Boundary Integral Formulation for Eddy Current Problems Based on the Cell Method. IEEE Transactions on Magnetics, 2008, 44, 770-773.	2.1	14
62	An improved technique for nonlinear magnetic problems. IEEE Transactions on Magnetics, 1994, 30, 4332-4334.	2.1	13
63	Optimization of magneto-mechanical energy scavenger for automotive tire. Journal of Intelligent Material Systems and Structures, 2012, 23, 2055-2064.	2.5	13
64	Skin and proximity effects in the conductors of split gradient coils for a hybrid Linac-MRI scanner. Journal of Magnetic Resonance, 2014, 242, 86-94.	2.1	13
65	An enhanced error estimator procedure for finite element field computation with adaptive mesh refinement. IEEE Transactions on Magnetics, 1990, 26, 2187-2189.	2.1	12
66	Design of superconducting MHD saddle magnets. IEEE Transactions on Magnetics, 1992, 28, 450-453.	2.1	12
67	Refinement strategies in adaptive meshing. IEEE Transactions on Magnetics, 1992, 28, 1739-1742.	2.1	12
68	Analytical and finite element design optimisation of a tubular linear IPM motor. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2001, 20, 777-795.	0.9	12
69	Identification of Equivalent Material Properties for 3-D Numerical Modeling of Induction Heating of Ferromagnetic Workpieces. IEEE Transactions on Magnetics, 2009, 45, 1851-1854.	2.1	12
70	Evaluation of workers exposure to magnetic fields. EPJ Applied Physics, 2010, 52, 23311.	0.7	12
71	Magnetic Loss Analysis in Coaxial Magnetic Gears. Electronics (Switzerland), 2019, 8, 1320.	3.1	12
72	Computation and measurement of iron losses under PWM supply conditions. IEEE Transactions on Magnetics, 1996, 32, 4302-4304.	2.1	11

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73	Natural Choice of Integration Surface for Maxwell Stress Tensor Computation. IEEE Transactions on Magnetics, 2013, 49, 1717-1720.	2.1	11
74	Local error estimation procedures as refinement indicators in adaptive meshing. IEEE Transactions on Magnetics, 1991, 27, 4189-4192.	2.1	10
75	Description of power lines by equivalent source system. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2005, 24, 893-905.	0.9	10
76	Identification of an Equivalent-Source System for Magnetic Stray Field Evaluation. IEEE Transactions on Power Delivery, 2009, 24, 1352-1358.	4.3	10
77	Intra-coil interactions in split gradient coils in a hybrid MRIâ€"LINAC system. Journal of Magnetic Resonance, 2016, 265, 52-58.	2.1	10
78	Improved Performance of Flywheel Fast Charging System (FFCS) Using Enhanced Artificial Immune System (EAIS). IEEE Systems Journal, 2020, 14, 824-831.	4.6	10
79	Global optimization for discrete magnetostatic problems. IEEE Transactions on Magnetics, 1993, 29, 1779-1782.	2.1	9
80	Unstructured PEEC formulation by dual discretization. IEEE Microwave and Wireless Components Letters, 2006, 16, 531-533.	3.2	9
81	Magnetic field mitigation by means of passive loop: technical optimization. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2012, 31, 870-880.	0.9	9
82	Economic, Energy, and Environmental Analysis of PV with Battery Storage for Italian Households. Electronics (Switzerland), 2021, 10, 146.	3.1	9
83	Multiobjective Optimization and Artificial Immune Systems. , 2009, , 1-21.		9
84	Identification Method for a Circuit Model of Scalar Static Hysteresis. IEEE Transactions on Magnetics, 2004, 40, 3467-3473.	2.1	8
85	Finite Formulation of Surface Impedance Boundary Conditions. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	8
86	Comparison of different strategies for the analysis of nonlinear coupled thermo-magnetic problems under pulsed conditions (application to Tokamak coils). IEEE Transactions on Magnetics, 1990, 26, 559-562.	2.1	7
87	Finite element modelling of charged beams. IEEE Transactions on Magnetics, 1994, 30, 2932-2935.	2.1	7
88	Dynamic hysteresis and voltage driven solution of a ferromagnetic laminated core. IEEE Transactions on Magnetics, 2000, 36, 1238-1241.	2.1	7
89	Synthesis of linear actuators. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2001, 20, 713-723.	0.9	7
90	Mitigation of Intra-coil Eddy Currents in Split Gradient Coils in a Hybrid MRI-LINAC System. IEEE Transactions on Biomedical Engineering, 2016, 64, 1-1.	4.2	7

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91	The coil array method for creating a dynamic imaging volume. Magnetic Resonance in Medicine, 2017, 78, 784-793.	3.0	7
92	Multi-objective optimisation of a magnetic gear for powertrain applications. International Journal of Applied Electromagnetics and Mechanics, 2019, 60, S25-S34.	0.6	7
93	Nonlinear Dynamics of an Electro-Mechanical Energy Scavenger. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 339-349.	0.5	7
94	3D micromagnetic solution by finite formulation. Physica B: Condensed Matter, 2006, 372, 299-302.	2.7	6
95	Technical and economical evaluation of a PV plant with energy storage. , 2013, , .		6
96	Application of Optimization Procedure to the Management of Renewable Based Household Heating & Cooling Systems. Energy Procedia, 2014, 62, 329-336.	1.8	6
97	A topological reconfiguration procedure for maximising local consumption of renewable energy in (Italian) active distribution networks. International Journal of Sustainable Energy, 2017, 36, 887-900.	2.4	6
98	Design of an axisymmetric permanent magnet structure for magnetic resonance tomography. IEEE Transactions on Magnetics, 1988, 24, 994-997.	2.1	5
99	Dynamic Preisach modelling of ferromagnetic laminations under distorted flux excitations. IEEE Transactions on Magnetics, 1998, 34, 1231-1233.	2.1	5
100	Anisotropic vector Preisach model and magnetic field solutions. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 1999, 18, 458-468.	0.9	5
101	Rotational hysteresis and eddy current losses in electrical motor stators under non-conventional supply. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 241-243.	2.3	5
102	Identification of Power Frequency Industrial Magnetic Field Sources for Shielding Purposes. IEEE Transactions on Industry Applications, 2008, 44, 1834-1840.	4.9	5
103	Mixed-dimensional elements in transient thermal analysis of gradient coils. Numerical Heat Transfer; Part A: Applications, 2016, 69, 265-282.	2.1	5
104	A cone-shaped gradient coil design for high-resolution MRI head imaging. Physics in Medicine and Biology, 2019, 64, 085003.	3.0	5
105	Application of vector immune system to distribution network reconfiguration. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2019, 32, e2262.	1.9	5
106	Phase space approach to charged beam analysis. IEEE Transactions on Magnetics, 1994, 30, 2928-2931.	2.1	4
107	A finite element solution for periodic eddy current problems in hysteretic media. Journal of Magnetism and Magnetic Materials, 1996, 160, 96-97.	2.3	4
108	Automated design of magnetic circuit of induction machines using multiobjective optimisation techniques and finite element method. International Journal of Applied Electromagnetics and Mechanics, 1998, 9, 1-9.	0.6	4

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109	A simulation of magneto-hydrostatic phenomena in thin liquid layers of an aluminum electrolytic cell. IEEE Transactions on Magnetics, 2000, 36, 1309-1312.	2.1	4
110	Comparative Economical Analysis of a Small Scale Trigenerative Plant: A Case Study. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	4
111	Adaptive manifold€mapping using multiquadric interpolation applied to linear actuator design. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2007, 26, 225-235.	0.9	4
112	Thermal fluctuations in magnetic nanoparticles: Numerical testing of Langevin approach. Journal of Applied Physics, 2008, 103, 07B119.	2.5	4
113	Modal Analysis of Currents Induced by Magnetic Resonance Imaging Gradient Coils. IEEE Transactions on Magnetics, 2014, 50, 945-948.	2.1	4
114	Algebraic formulation of nonlinear surface impedance boundary condition coupled with BEM for unstructured meshes. Engineering Analysis With Boundary Elements, 2018, 88, 104-114.	3.7	4
115	Exploitation and optimal management of free cooling for industrial refrigeration. Energy Conversion and Management, 2019, 198, 111815.	9.2	4
116	Identification of Material Properties and Optimal Design of Magnetically Shielded Rooms. Magnetochemistry, 2021, 7, 23.	2.4	4
117	Fully coupled 'quasi-axisymmetric' magneto-thermal model for skin effects analysis in resistive Tokamak coils. IEEE Transactions on Magnetics, 1989, 25, 3940-3942.	2.1	3
118	Analysis of thermo-electromagnetic stresses in high field tokamak resistive coils. Fusion Engineering and Design, 1989, 9, 113-116.	1.9	3
119	Hybrid method coupling AIS and zeroth order deterministic search. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2005, 24, 784-795.	0.9	3
120	Thermo-mechanical analysis using a multiphysics approach. Journal of Physics: Conference Series, 2009, 181, 012095.	0.4	3
121	A Source Identification Problem for the Electrical Activity of Brain |During Hand Movement. IEEE Transactions on Magnetics, 2011, 47, 878-881.	2.1	3
122	XEMS13: An hybrid-Energy generation Management System. , 2016, , .		3
123	An optimization and management tool for complex multi-generation systems. , 2016, , .		3
124	A Method for Reducing Secondary Field Effects in Asymmetric MRI Gradient Coil Design. IEEE Transactions on Biomedical Engineering, 2016, 63, 924-932.	4.2	3
125	Energy efficiency measures for buildings in Hebron city and their expected impacts in the distribution grid. Energy Procedia, 2017, 134, 121-130.	1.8	3
126	Uncertainty Quantification in Energy Management Procedures. Electronics (Switzerland), 2020, 9, 1471.	3.1	3

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127	Simulation model for the analysis of road vehicles global efficiency. , 2011, , .		3
128	Skin effect analysis in axisymmetric stratified conductors. IEEE Transactions on Magnetics, 1990, 26, 727-730.	2.1	2
129	Dynamic Preisach modeling of ferromagnetic laminations : a comparison of different finite element formulations. European Physical Journal Special Topics, 1998, 08, Pr2-647-Pr2-650.	0.2	2
130	Identification of power frequency industrial magnetic field sources for shielding purposes. , 0, , .		2
131	Magnetostatic solution by hybrid technique and fast multipole method. Physica B: Condensed Matter, 2008, 403, 368-371.	2.7	2
132	Force Computation by Hybrid Cell Method. IEEE Transactions on Magnetics, 2008, 44, 1198-1201.	2.1	2
133	Threeâ€dimensional eddy current analysis in unbounded domains by a DEMâ€BEM formulation. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 460-466.	0.9	2
134	Modular small-CHP plants optimized design as a way to reduce CO<inf>2</inf> emissions. , 2009, , .		2
135	Device Used for Magnetic Treatment of Fuel Fluids before Burner. Applied Mechanics and Materials, 0, 186, 214-218.	0.2	2
136	Battery Energy Storage System usage in a distribution grid for PV exploitation: A Middle-East case study. , 2016, , .		2
137	Integration of different energy vectors in polygeneration systems. , 2016, , .		2
138	Coupled Magnetothermal Analysis of Gradient Coils in MRI Scanners. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	2
139	Optimal design of closed multilayer magnetic shields. , 2017, , .		2
140	Optimal DHC energy supply harnessing its thermal mass. Applied Thermal Engineering, 2018, 133, 520-531.	6.0	2
141	A brief survey of robust optimization. International Journal of Applied Electromagnetics and Mechanics, 2018, 56, 61-72.	0.6	2
142	Synthesizing sources in magnetics: a benchmark problem. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2021, 40, 1084-1103.	0.9	2
143	Towards an environment for the integration of analysis and design. Computer Integrated Manufacturing Systems, 1990, 3, 216-222.	0.1	1
144	An enhanced error estimator procedure for finite element field computation with adaptive mesh refinement. , 1990, , .		1

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145	New solutions for superconducting dipole magnets for commercial size MHD power plant. IEEE Transactions on Magnetics, 1992, 28, 406-409.	2.1	1
146	A magnetic multipurpose spectrometer. IEEE Transactions on Magnetics, 1992, 28, 581-584.	2.1	1
147	Optimization of the magnetic elements of the multipurpose spectrometer (MPS). IEEE Transactions on Magnetics, 1992, 28, 923-926.	2.1	1
148	Design of gradient magnet system for cesium frequency standard. IEEE Transactions on Magnetics, 1994, 30, 2624-2627.	2.1	1
149	The Tinney algorithm and fixed point technique for rapid solution of magnetic nonlinear problems. Journal of Magnetism and Magnetic Materials, 1996, 160, 94-95.	2.3	1
150	Influence of the parameters of power electronic supply on iron losses. European Physical Journal Special Topics, 1998, 08, Pr2-643-Pr2-646.	0.2	1
151	A numerical approach to the design of conducting shields for extremely low frequency magnetic field reduction. European Transactions on Electrical Power, 2002, 12, 111-116.	1.0	1
152	Investigation of low‑frequency behaviour of two surface integral full‑Maxwell formulations. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2007, 26, 842-858.	0.9	1
153	Analysis of the lightning behavior of an earthing system including ionization via the cell method. , 2009, , .		1
154	Experimental validation of a numerical multiphysics technique for electro‑thermo‑mechanical problem. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2010, 29, 1642-1652.	0.9	1
155	Electromechanical Energy Scavenger for Automotive Tires. , 2011, , .		1
156	Algebraic Second Order Hodge Operator for Poisson's Equation. IEEE Transactions on Magnetics, 2013, 49, 1761-1764.	2.1	1
157	Multi-physics optimisation of an energy harvester device for automotive application. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2014, 33, 846-855.	0.9	1
158	Coupling spin waves to circuits through PEEC approach. , 2014, , .		1
159	Online optimizer for distribution networks on Neplan. , 2015, , .		1
160	Modelling of nonlinear magnetic damping in vibrating coupled structures. , 2019, , .		1
161	Hybrid Energy Network Management: Simulation and Optimisation of Large Scale PV Coupled with Hydrogen Generation. Electronics (Switzerland), 2020, 9, 1734.	3.1	1
162	Introduction to energy management in smart grids. , 2021, , 447-473.		1

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163	Robust Optimization of Magneto-Mechanical Energy Harvesters for Shoes. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 571-576.	0.5	1
164	Artificial Immune System in the Management of Complex Small Scale Cogeneration Systems. , 2009, , 141-158.		1
165	From Preliminary Design to Prototyping and Validation of Energy Harvester for Shoes. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 1-10.	0.5	1
166	An approach to the solution of coupled transient non-linear problems solving the set of equations as a single system (electromagnetic fields). IEEE Transactions on Magnetics, 1988, 24, 244-247.	2.1	0
167	Interaction between supply circuits and hysteretic cores under rotational flux excitations. Journal of Applied Physics, 2001, 89, 6725-6727.	2.5	0
168	Identification and simulation of a circuit€based model of magnetic hysteresis. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2005, 24, 534-545.	0.9	0
169	An integral approach based on dual discretization and method of moment for the solution of static electric field. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2005, 24, 446-457.	0.9	0
170	Magnetization dynamics in metallic thin films by finite formulation. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 475-478.	2.3	0
171	Implementation of a network model of hysteresis. Physica B: Condensed Matter, 2006, 372, 53-56.	2.7	0
172	Coupling of finite formulation with integral techniques. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 37-46.	0.9	0
173	Field model of electrical activity of the brain during the hand movement: a source identification problem. , 2010, , .		0
174	PEEC modeling of a two-port TEM cell for radio frequency applications. , 2010, , .		0
175	Computation of eddy currents in human body due to pulsed magnetic field. , 2010, , .		0
176	Multi-physics optimisation of energy harvesters. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2015, 34, 1392-1403.	0.9	0
177	Analysis of the Circuit-Field Interactions in Propagating Spin-Wave Experiments. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	0
178	Nonlinear BEM-surface impedance boundary condition formulation for unstructured meshes. , 2016, , .		0
179	Synthesis of the cooling pathways optimal layout for MRI gradient coils. , 2016, , .		0
180	Human exposure assessment in dynamic inductive power transfer for automotive applications. , 2016, , .		0

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181	PV and building energy efficiency measures impact on the grid in a Middle East case study. , 2016, , .		0
182	Synthesis of the Cooling Pathways Optimal Layout for MRI Split Gradient Coils. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	0
183	Tonti Diagrams and Algebraic Methods for the Solution of Coupled Problems. Mathematics in Industry, 2012, , 195-203.	0.3	0
184	Classical Physical Problems. Lecture Notes in Electrical Engineering, 2013, , 49-90.	0.4	0
185	Multiphysics Problems. Lecture Notes in Electrical Engineering, 2013, , 91-114.	0.4	0
186	Constitutive Equations. Lecture Notes in Electrical Engineering, 2013, , 21-47.	0.4	0