

Calin Munteanu

List of Publications by Year in descending order

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107
papers

396
citations

1307594

7
h-index

1199594

12
g-index

108
all docs

108
docs citations

108
times ranked

181
citing authors

#	ARTICLE	IF	CITATIONS
1	A General Applicable Model for AC Predictive and Mitigation Techniques for Pipeline Networks Influenced by HV Power Lines. IEEE Transactions on Power Delivery, 2006, 21, 210-217.	4.3	34
2	STUDIES OF INDUCTANCE VARIATION FOR SQUARE SPIRAL INDUCTORS USING CIBSOC SOFTWARE. Environmental Engineering and Management Journal, 2013, 12, 1161-1169.	0.6	19
3	Inductance calculation and layout optimization for planar spiral inductors. , 2012, , .		17
4	Micro-grid Development Using Artificial Neural Network for Renewable Energy Forecast and System Control. Procedia Engineering, 2017, 181, 818-823.	1.2	17
5	CAD/CAE modeling of the human exposure to electric field inside a high voltage substation. , 2014, , .		15
6	Spiral inductors inductance computation and layout optimization. , 2012, , .		13
7	Multi-terminal resistances optimal design using spline boundary elements and genetic algorithms. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2001, 20, 279-293.	0.9	11
8	Assessment of mobile phone user exposure to UMTS and LTE signals: comparative near-field radiated power levels for various data and voice application services. Journal of Electromagnetic Waves and Applications, 2016, 30, 1101-1115.	1.6	11
9	Electric and Magnetic Field Distribution inside High and Very High Voltage Substations. , 2009, , .		10
10	Electric and Magnetic Field Distribution Inside High Voltage Power Substations. Numerical Modeling and Experimental Measurements. IEEJ Transactions on Electrical and Electronic Engineering, 2010, 5, 40-45.	1.4	10
11	The Construction of a Wireless Power Supply System using Planar Spiral Inductors. , 2019, , .		10
12	Minimization of the equivalent parallel capacitance in planar magnetic EMI filters. , 2012, , .		9
13	The influence of ferrite on the spiral inductors inductance used for the design of wireless power systems. , 2017, , .		9
14	Motor cable electric parameter effects on the overvoltage phenomenon in inverter driven motors. , 2013, , .		8
15	Occupational exposure of personnel operating military radio equipment: measurements and simulation. Electromagnetic Biology and Medicine, 2015, 34, 221-227.	1.4	8
16	BEM solution of Poisson's equation in two dimensions with polynomial interpolation of the source function. Engineering Analysis With Boundary Elements, 1996, 18, 175-178.	3.7	7
17	Evaluation of conducted disturbances from LED lamps according to EN 55015. , 2016, , .		7
18	APPLICATION OF WINDINGS SHIFTING FOR THE OPTIMIZATION OF PLANAR STRUCTURES. Environmental Engineering and Management Journal, 2013, 12, 1153-1159.	0.6	7

#	ARTICLE	IF	CITATIONS
19	A new approach for shape optimization of resistors with complex geometry. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2004, 23, 1062-1069.	0.9	6
20	Electromagnetic field model for the numerical computation of voltages induced on buried pipelines by high voltage overhead power lines. EPJ Applied Physics, 2012, 58, 30902.	0.7	6
21	Numerical optimization of an electrostatic device based on the 3D XFEM and genetic algorithm. , 2014, , .		6
22	Electromagnetic interferences suppression in planar integrated devices. , 2014, , .		6
23	Spiral inductors analysis and modelling. , 2014, , .		6
24	High Frequency Analysis and Optimization of Planar Spiral Inductors Used in Microelectronic Circuits. Electronics (Switzerland), 2021, 10, 2897.	3.1	6
25	Human exposure to power frequency electric and magnetic fields inside a very high voltage power station. , 2007, , .		5
26	Optimum geometry for planar structures regarding their loss factor. , 2012, , .		5
27	Technologies to increase HF losses in planar structures and their limitations. , 2012, , .		5
28	Minimization of the equivalent parallel capacitance in planar magnetic integrated structures. , 2012, , .		5
29	High Frequency Analysis of Bowtie Antennas. , 2019, , .		5
30	Software Package for Multi-Objective Optimal Design of Electromagnetic Devices. Mathematics in Industry, 2007, , 331-337.	0.3	5
31	Optimisation of the layer thickness distribution in electrochemical processes using the level set method. IET Science, Measurement and Technology, 2012, 6, 376.	1.6	4
32	Parasitic capacitance removal with an embedded ground layer. , 2013, , .		4
33	Study of conducted electromagnetic emissions of a wireless power system. , 2017, , .		4
34	High Frequency Analysis of the Influence of YagiUda Antenna on the Human head. , 2020, , .		4
35	Computation of the electric field in wire electrode arrangements for electrostatic processes applications. Journal of Electrostatics, 2001, 51-52, 571-577.	1.9	3
36	Analysis of Lossless Differential Microstrip Line. , 2007, , .		3

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37	Electric and magnetic field distribution in substations belonging to transelectrica TSO. , 2009, , .		3
38	Modeling and mitigation techniques of the magnetic integrated structures parasitic capacitance. , 2012, , .		3
39	Filter geometry optimization for the conduction electromagnetic interferences suppression. , 2014, , .		3
40	The influence of parameters on the parasitic capacitance values in a planar transformer. , 2015, , .		3
41	CAD/CAE modeling of electromagnetic field distribution in hv substations and investigation of the human exposure. , 2016, , .		3
42	Analysis, identification and minimization the parasitic effects of the multilayer spiral inductors. , 2016, , .		3
43	Numerical analysis of electro-thermal behavior and optimization of the cooling system in electronic power devices using CAD/CAE tools. , 2017, , .		3
44	Influence of the Patch Antenna Feeding on their Parameters. , 2018, , .		3
45	Numerical Modeling and Parametric Analysis of a Switched Reluctance Motor. , 2019, , .		3
46	HUMAN EXPOSURE TO POWER FREQUENCY ELECTRIC FIELD INSIDE VERY HIGH VOLTAGE SUBSTATIONS. Environmental Engineering and Management Journal, 2011, 10, 499-504.	0.6	3
47	ANALYSIS AND IMPROVEMENT TECHNIQUES FOR THE TRANSFER FUNCTION OF A PLANAR LOW - PASS FILTER. Environmental Engineering and Management Journal, 2016, 15, 2579-2586.	0.6	3
48	High Frequency Analysis of the Vivaldi Antenna Parameters. , 2020, , .		3
49	The Influence of Electromagnetic Waves Emitted by PIFA Antennas on the Human Head. IFMBE Proceedings, 2022, , 77-91.	0.3	3
50	Renewable integration in Romanian power system, challenge for Transelectrica company. , 2009, , .		2
51	Sizing of photovoltaic sources and storage devices for stand-alone power plants. , 2009, , .		2
52	Optimization of the current density distribution in electrochemical cells based on the level set method and genetic algorithm. EPJ Applied Physics, 2011, 56, 11302.	0.7	2
53	Study of the magnetic field distribution inside very high voltage substations. , 2012, , .		2
54	Overvoltage analysis in inverter driven induction motors. , 2012, , .		2

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55	The study of high frequency electromagnetic shielding performance by numerical modeling. , 2014, , .		2
56	Analysis of the influence of parasitic parameters on planar transformers. , 2014, , .		2
57	Optimal design of the pipeline right-of-way nearby high voltage transmission lines using genetic algorithms. , 2015, , .		2
58	The assessment of human exposure to radiated fields from different types of lighting. , 2017, , .		2
59	Electromagnetic field measurement on high voltage overhead lines. , 2017, , .		2
60	Study of Conducted Electromagnetic Emissions in Automotive Applications using an Artificial Network. , 2018, , .		2
61	EMC Study for Different Types of Lamps with the same Luminous Flux. , 2019, , .		2
62	Modelling and Analysis of the Halbach Array Magnets. , 2019, , .		2
63	The Analysis, Modelling and Comparison between Circular and Rectangular Patch Antennas. , 2020, , .		2
64	Electric and magnetic field distribution inside high voltage power stations from Romanian power grid. , 2008, , .		1
65	Numerical analysis of the transients propagation on overhead lines. , 2011, , .		1
66	Shape optimization approach based on the extended finite element method. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2012, 31, 477-497.	0.9	1
67	Simulation of the electrode shape change in electrochemical machining based on the level set method. EPJ Applied Physics, 2012, 58, 11301.	0.7	1
68	High frequency modeling of square spiral inductor. , 2014, , .		1
69	AC interference assessment and impact on personnel safety. , 2014, , .		1
70	Efficiency determination for the improvement methods used for planar structures applied on EMI filters. , 2014, , .		1
71	Home appliances conducted electromagnetic emissions analysis and mitigation methods. , 2015, , .		1
72	Thermo-mechanical simulation of the metal-semiconductor structures of power integrated circuits. , 2017, , .		1

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73	Study of the electromagnetic field distribution inside a HV/MV substation. , 2017, , .		1
74	Study of the shielding performances of different materials regarding Electromagnetic Field Interference. IOP Conference Series: Materials Science and Engineering, 2017, 200, 012045.	0.6	1
75	High frequency analysis of monolayer spiral inductors. , 2017, , .		1
76	Interlaboratory Comparison of Electromagnetic Fields in Power Supply Systems. , 2021, , .		1
77	Optimization of The Control Circuit of A Wireless Power Supply System. , 2021, , .		1
78	COMPUTATION OF THE POTENTIAL INDUCED ON THE FLUID TRANSPORT PIPELINES BY OVERHEAD HIGH VOLTAGE LINES. Environmental Engineering and Management Journal, 2011, 10, 505-510.	0.6	1
79	MITIGATION OF POWER FREQUENCY MAGNETIC FIELD NEARBY POWER LINES USING RECTANGULAR FRAMES. Environmental Engineering and Management Journal, 2013, 12, 1137-1143.	0.6	1
80	Optimization Techniques in the Design of Electromagnetic Devices. , 1995, , 189-192.		1
81	Methodological challenges in near-field exposure assessment of personnel operating military radio equipment using personal exposimeters: Possible difficulties in compliance analysis. , 2016, , .		1
82	Optimisation of an alternating current multi-conductor system. Engineering Analysis With Boundary Elements, 2006, 30, 582-587.	3.7	0
83	Numerical analysis of 1 μs unit pulse and 1.2/50 μs waves propagation on high voltage lines. , 2007, , .		0
84	Analysis of the power frequency electric field generated by high voltage substations. , 2010, , .		0
85	Comparative study in terms of efficiency of different wind farms structures. , 2011, , .		0
86	3D numerical simulation of the stirrer effect inside a reverberation chamber. , 2012, , .		0
87	Numerical analysis of different pulse propagation on nonuniform transmission lines. , 2012, , .		0
88	Improving EMI filters by decreasing their parasitic capacitance. , 2014, , .		0
89	Methods for planar integrated low pass filter performance improvements in high frequency. , 2014, , .		0
90	Numerical analysis and modeling of the electromagnetic interferences in integrated planar structures. , 2014, , .		0

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91	An Extended Model of Light Railway System Used in Analysis of Normal Operation and Fault Conditions. , 2014, , .		0
92	Optimization of pipeline-overhead line right-of-way using genetic algorithms. , 2015, , .		0
93	Analysis of the grounding system for a mobile communication site placed on HV power line mast. IOP Conference Series: Materials Science and Engineering, 2016, 144, 012002.	0.6	0
94	A two layer ground computational model for the numerical simulations of the earthing systems. , 2016, , .		0
95	Voltage and current wave distortion on a photoelectric power plant in winter conditions. , 2017, , .		0
96	The influence of vibrations on conducted emissions. , 2017, , .		0
97	Power lines magnetic field supression using passive loops. , 2017, , .		0
98	A Simplified Model for Approximating the Vias in the Thermo-Mechanical Simulation of Metal-Oxide-Semiconductor Structures. , 2019, , .		0
99	High Frequency Analysis of Bandpass Filters. , 2019, , .		0
100	Numerical Modeling and Parametric Analysis of Induction Plates. , 2019, , .		0
101	Study of Electromagnetic Immunity of Motors used in Automotive Applications. , 2019, , .		0
102	The Influence of the Geometric Shapes of the Component Elements of the Planar Filter on its Parameters. , 2021, , .		0
103	Planar Spiral Inductors Parameter Extraction needed to design a Wireless Power Supply System. , 2021, , .		0
104	Electric Field Optimization Problems Using the Boundary Element Method. , 1995, , 193-196.		0
105	MEASURING INDUCED FOOT CURRENTS CAUSED BY RADIOFREQUENCY ELECTROMAGNETIC FIELDS EXPOSURE OF MANPACK RADIO TRANSCEIVERS USERS. Environmental Engineering and Management Journal, 2016, 15, 2641-2649.	0.6	0
106	Analysis of Different Type of Ring Permanent Magnets in Order to Achieve an Uniform Magnetic Field Around Them. , 2020, , .		0
107	Design of Multilayer Spiral Coils with Different Geometries to Determine the Inductance. , 2020, , .		0