

Khalil EL KHAMLI CHI DRISSI

List of Publications by Year in descending order

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130
papers

897
citations

623734

14
h-index

610901

24
g-index

130
all docs

130
docs citations

130
times ranked

698
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Input-Voltage High-Frequency Class E Rectifiers for Resonant Inductive Links. IEEE Transactions on Power Electronics, 2015, 30, 1328-1335.	7.9	123
2	State of art on load monitoring methods. , 2008, , .		60
3	Discontinuous Random Space Vector Modulation for Electric Drives: A Digital Approach. IEEE Transactions on Power Electronics, 2012, 27, 4944-4951.	7.9	54
4	Angular Modulation of Dual-Inverter Fed Open-End Motor for Electrical Vehicle Applications. IEEE Transactions on Power Electronics, 2016, 31, 2980-2990.	7.9	43
5	Generalized Form of Telegrapher's Equations for the Electromagnetic Field Coupling to Buried Wires of Finite Length. IEEE Transactions on Electromagnetic Compatibility, 2009, 51, 331-337.	2.2	42
6	Voltage THD Reduction for Dual-Inverter Fed Open-End Load With Isolated DC Sources. IEEE Transactions on Industrial Electronics, 2017, 64, 2102-2111.	7.9	36
7	Electric Load Disaggregation in Smart Metering Using a Novel Feature Extraction Method and Supervised Classification. Energy Procedia, 2011, 6, 627-632.	1.8	29
8	Comparison of analytical and boundary element modeling of electromagnetic field coupling to overhead and buried wires. Engineering Analysis With Boundary Elements, 2011, 35, 555-563.	3.7	23
9	A sliding mode control and artificial neural network based MPPT for a direct grid-connected photovoltaic source. Asian Journal of Control, 2019, 21, 1892-1905.	3.0	21
10	Effects of symmetric distribution laws on spectral power density in randomized PWM. IEEE Power Electronics Letters, 2003, 1, 41-44.	0.7	20
11	Wire antenna versus modified transmission line approach to the transient analysis of grounding grid. Engineering Analysis With Boundary Elements, 2011, 35, 1101-1108.	3.7	19
12	Combined random space vector modulation for a variable speed drive using induction motor. Electrical Engineering, 2016, 98, 1-15.	2.0	19
13	Comparison of Matrix Pencil Extracted Features in Time Domain and in Frequency Domain for Radar Target Classification. International Journal of Antennas and Propagation, 2014, 2014, 1-9.	1.2	18
14	Stochastic sensitivity of the electromagnetic distributions inside a human eye modeled with a 3D hybrid BEM/FEM edge element method. Engineering Analysis With Boundary Elements, 2014, 49, 48-62.	3.7	18
15	Analytical Models for Electromagnetic Coupling of an Open Metallic Shield Containing a Loaded Wire. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 1634-1637.	2.2	17
16	Spread spectrum in DC-DC full bridge voltage converter by a dual randomized PWM scheme. , 2008, , .		15
17	Transient Response of Straight Thin Wires Located at Different Heights Above a Ground Plane Using Antenna Theory and Transmission Line Approach. IEEE Transactions on Electromagnetic Compatibility, 2010, 52, 108-116.	2.2	12
18	Adapted NSPWM for Single DC-Link Dual-Inverter Fed Open-End Motor with Negligible Low-Order Harmonics and Efficiency Enhancement. IEEE Transactions on Power Electronics, 2016, , 1-1.	7.9	12

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19	Human exposure to transient electromagnetic fields using simplified body models. Engineering Analysis With Boundary Elements, 2010, 34, 23-29.	3.7	11
20	An innovative DSP-based teaching module for electrical machine drives. IEEE Transactions on Education, 1996, 39, 158-164.	2.4	10
21	ANALYTICAL MODEL FOR ELECTROMAGNETIC RADIATION BY BARE-WIRE STRUCTURES. Progress in Electromagnetics Research B, 2012, 45, 395-413.	1.0	10
22	Comparison of wire antenna and modified transmission line approach to the assessment of frequency response of horizontal grounding electrodes. Engineering Analysis With Boundary Elements, 2008, 32, 676-681.	3.7	9
23	Random space vector modulation for electric drives: A digital approach. , 2010, , .		9
24	Frequency Domain Analysis of EM Crosstalk Problem in a Quad by the Equivalent Cable Bundle Method Among Twisted-Wire Pairs Cable Bundle. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	9
25	Analytical Formulation for Shielding Effectiveness of a Lossy Enclosure Containing Apertures. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 1384-1392.	2.2	9
26	Electromagnetic field coupling to arbitrary wire configurations buried in a lossy ground: a review of antenna model and transmission line approach. International Journal of Computational Methods and Experimental Measurements, 2013, 1, 142-163.	0.2	9
27	Direct time domain modeling of the transient field transmitted in a dielectric half-space for GPR applications. , 2015, , .		8
28	A Stochastic Analysis of the Transient Current Induced along the Thin Wire Scatterer Buried in a Lossy Medium. International Journal of Antennas and Propagation, 2016, 2016, 1-12.	1.2	8
29	Direct time domain evaluation of the transient field transmitted into a lossy ground due to GPR antenna radiation. Engineering Analysis With Boundary Elements, 2017, 82, 27-31.	3.7	8
30	An Analytical Evaluation of the Shielding Effectiveness of Enclosures Containing Complex Apertures. IEEE Access, 2021, 9, 147191-147200.	4.2	8
31	Insulated Vertical Antennas Above Ground. IEEE Transactions on Antennas and Propagation, 2004, 52, 321-324.	5.1	7
32	Electromagnetic Field Coupling to Overhead Wire Configurations: Antenna Model versus Transmission Line Approach. International Journal of Antennas and Propagation, 2012, 2012, 1-18.	1.2	7
33	An efficient transient analysis of realistic grounding systems: Transmission line versus antenna theory approach. Engineering Analysis With Boundary Elements, 2014, 48, 14-23.	3.7	7
34	Spread spectrum in three-phase inverter by an optimised dual randomised PWM technique. International Journal of Electronics, 2014, 101, 308-324.	1.4	7
35	Transient Behaviour of Grounding System in a Two-Layer Soil Using the Transmission Line Theory. Automatika, 2014, 55, 306-316.	2.0	7
36	Optimized RPWM technique for a Variable Speed Drive using induction motor. , 2012, , .		6

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37	On the use of the vertical straight wire model in electromagnetics and related boundary element solution. <i>Engineering Analysis With Boundary Elements</i> , 2015, 50, 19-28.	3.7	6
38	On deterministic-stochastic time domain study of dipole antenna for GPR applications. <i>Engineering Analysis With Boundary Elements</i> , 2016, 73, 14-20.	3.7	6
39	Stochastic Collocation Applications in Computational Electromagnetics. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-13.	1.1	6
40	Smart metering by using “Matrix Pencil”. , 2010, , .		5
41	Novel technique to reduce leakage current and commutation losses in electric drives. , 2011, , .		5
42	Antenna model for passive myelinated nerve fiber. , 2015, , .		5
43	Transient Electromagnetic Field Coupling to Buried Thin Wire Configurations: Antenna Model versus Transmission Line Approach in the Time Domain. <i>International Journal of Antennas and Propagation</i> , 2016, 2016, 1-11.	1.2	5
44	A new hybrid approach using time-domain reflectometry combined with wavelet and neural network for fault identification in wiring network. , 2016, , .		5
45	A simple analysis of dipole antenna radiation above a multilayered medium. , 2017, , .		5
46	High frequency electromagnetic analysis of horizontal grounding conductor and near-by passive parallel conductor within two-layer soil. , 2007, , .		4
47	ON THE ROTATIONALLY-CYLINDRICAL MODEL OF THE HUMAN BODY EXPOSED TO ELF ELECTRIC FIELD. <i>Progress in Electromagnetics Research M</i> , 2013, 29, 165-179.	0.9	4
48	Optimized numerical models of thin wire above an imperfect and lossy ground for GPR statistics. , 2015, , .		4
49	Sensitivity analysis of the direct time domain analytical solution for transient impedance of the horizontal grounding electrode using ANOVA approach. <i>Electric Power Systems Research</i> , 2021, 190, 106861.	3.6	4
50	Comparison of Image and Transmission Line Models of Energized Horizontal Wire Above Two-Layer Soil. <i>Automatika</i> , 2012, 53, 38-48.	2.0	4
51	Modeling of the power spectrum density of an entirely randomized modulation in power converters. , 2003, , .		3
52	Electromagnetic field coupling to overhead wires: Comparison of wire antenna and transmission line model in the frequency and time domain. , 2007, , .		3
53	Localization of defects on buried grid by magnetic field radiation. , 2008, , .		3
54	A simplified approach to modeling the interaction between grounding grid and lightning stroke. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , 2011, 66, 603-615.	2.5	3

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55	Transient analysis of grounding systems without computer. , 2012, , .		3
56	Transient statistics from the lightning strike current flowing along grounding electrode. , 2014, , .		3
57	New strategy to balance neutral-point voltage in three-level VSI based on SVM regarding output current. , 2015, , .		3
58	On some applications of stochastic collocation method in computational electromagnetics: Applications in ground penetrating radar, bioelectromagnetics, grounding systems and buried lines. , 2016, , .		3
59	Integral equation models in some biomedical applications of electromagnetic fields: Transcranial magnetic stimulation (TMS), nerve fiber stimulation. , 2016, , .		3
60	Sensitivity analysis of the time transient currents induced along thin wires buried in lossy and uncertain environments. , 2017, , .		3
61	Soft fault identification in electrical network using time domaine reflectometry and adaptive neuro-fuzzy inference systeme. , 2017, , .		3
62	Integral Equation Formulations and Related Numerical Solution Methods in Some Biomedical Applications of Electromagnetic Fields. International Journal of E-Health and Medical Communications, 2018, 9, 65-84.	1.6	3
63	Soft Fault Identification in Electrical Network Using Time Domain Reflectometry and Neural Network. Lecture Notes in Electrical Engineering, 2019, , 365-376.	0.4	3
64	DÃ©tection et localisation par rayonnement Ã©lectromagnÃ©tique d'un dÃ©faut sur une Ã©lectrode enterrÃ©e. Revue Internationale De GÃ©nie Ã©lectrique, 2006, 9, 333-353.	0.0	3
65	Analysis of electromagnetic field coupling to a single wire above a PEC ground using wire antenna theory: Analytical versus numerical solution. , 2008, , .		2
66	Computation of electromagnetic field radiated by power electronic converters. , 2008, , .		2
67	Interaction between lightning discharge and electrical tower. , 2010, , .		2
68	Antenna mode currents and radiated emissions of in-door PLC line within wall structure. , 2011, , .		2
69	Computational model of grounding systems. , 2012, , .		2
70	Analysis of Power Line Communications electromagnetic field in electrical networks taking into account the power transformers. , 2012, , .		2
71	Comparison of approximate models of horizontal wire conductor above homogeneous ground. , 2012, , .		2
72	Random discontinuous space vector modulation for variable speed drives. , 2012, , .		2

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73	Plane wave coupling to horizontal wire conductor above two-layer soil: Comparison of electromagnetic, complex image and transmission line models. , 2012, , .		2
74	On the analysis of vertical straight thin wire above a lossy ground: Analytical versus numerical solution. , 2012, , .		2
75	Transient response of a buried wire. , 2013, , .		2
76	MODELING OF THE DIRECT LIGHTNING STRIKE ON A TOWERS CASCADE EQUIPPED WITH ITS PROTECTIONS. Progress in Electromagnetics Research M, 2013, 30, 253-269.	0.9	2
77	Robust UWB radar target classification in white Gaussian noise based on Matrix Pencil Method in Frequency Domain and Mahalanobis Distance. , 2014, , .		2
78	Time domain analysis of the horizontal grounding electrode: Antenna theory approach versus transmission line approximation. , 2014, , .		2
79	Modified SVM to meet CMV and DC current ripple reduction. , 2015, , .		2
80	Advanced analysis of the transient impedance of the horizontal grounding electrode: From statistics to sensitivity indices. , 2017, , .		2
81	Time domain generalized telegrapher's equations for the electromagnetic field coupling to finite-length wires buried in a lossy half-space. Electric Power Systems Research, 2018, 160, 199-204.	3.6	2
82	Modélisation d'un convertisseur d'énergie par la méthode des antennes. Revue Internationale De Génie Électrique, 2008, 10, 333-354.	0.0	2
83	Caractérisation d'une grille de mise à la terre par résolution d'une équation de propagation. Revue Internationale De Génie Électrique, 2005, 8, 407-423.	0.0	2
84	Experimental investigations into the dual-randomization PWM scheme for power converters. , 0, , .		1
85	Electromagnetic field coupling to buried wires: Comparison of frequency domain wire antenna and transmission line model. , 2007, , .		1
86	A new formalism for the analysis of electromagnetic coupling between the lightning and a complex network of lines or cables. , 2008, , .		1
87	A new approach for the characterization of indirect lightning strike effect on 3D metallic structure. , 2008, , .		1
88	Hybrid approach for modeling transient EM fields generated by large earthing systems. Annales Des Telecommunications/Annals of Telecommunications, 2009, 64, 349-357.	2.5	1
89	Reduction of power field radiation for PLC applications. , 2009, , .		1
90	Antenna Models for Electromagnetic Compatibility Applications. International Journal of Antennas and Propagation, 2012, 2012, 1-2.	1.2	1

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91	Transient voltage induced along the grounding system using the Antenna Theory approach. , 2013, , .		1
92	EMC analysis of the narrowband PLC system based on the antenna theory. , 2013, , .		1
93	Simplified dipole concept for the assessment of transient electromagnetic field in the vicinity of grounding grid. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2015, 28, 404-418.	1.9	1
94	Some remarks related to first 150 years of Maxwell's equations. , 2015, , .		1
95	Stochastic-deterministic and sensitivity analysis of the transient field generated by GPR dipole antenna and transmitted into a lossy ground. , 2017, , .		1
96	High frequency performance of ground rod in two-layer soil. , 2017, , .		1
97	Novel Analytical Formulation for Shielding Effectiveness Calculation of Lossy Enclosures Containing Elliptical Apertures. , 2018, , .		1
98	Transient impedance of the horizontal grounding electrode: Sensitivity analysis of the direct time domain analytical solution. , 2019, , .		1
99	Stochastic post-processing of the deterministic boundary element modelling of the transient electric field from GPR dipole antenna propagating through lower half-space. International Journal of Computational Methods and Experimental Measurements, 2017, 5, 678-685.	0.2	1
100	Modélisation des perturbations induites par une onde de foudre sur un réseau de puissance non linéaire par FDTD. Revue Internationale De Génie Électrique, 2007, 10, 211-247.	0.0	1
101	An Efficient Model of the Electromagnetic Field Radiated from Different PLC Configurations. International Journal on Communications Antenna and Propagation, 2016, 6, 232.	0.3	1
102	Deterministic-Stochastic Boundary Element Modeling of the Brain and Eye Exposed to High-Frequency Radiation. International Journal of Computational Methods and Experimental Measurements, 2017, 5, 250-259.	0.2	1
103	Linear control of series resonant converter. , 0, , .		0
104	Nouvelle expression temporelle de l'impédance interne des conducteurs à section rectangulaire. Annales Des Telecommunications/Annals of Telecommunications, 2001, 56, 487-495.	2.5	0
105	Shielding characterization of the electromagnetic environment of an electric power network. , 2003, , .		0
106	Comparison of absorbing boundary conditions for micro-strip circuit using FDTD method. , 2003, , .		0
107	Fast efficient method for analysis of insulated wire antennas above ground. Electronics Letters, 2003, 39, 951.	1.0	0
108	Identification of frequency-dependent parameters for buried wire in imperfect ground. , 2003, , .		0

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109	Three-dimension method of moments analysis of radiated field from DC-DC converters. , 0, , .		0
110	Transient response of multiple thin wires located at different heights above a dielectric half-space. , 2008, , .		0
111	High frequency and transient coupling to pasive conductors near grounding systems in layered soil. , 2008, , .		0
112	Closed formula of PLC radiated field in Fresnel and far zones. , 2009, , .		0
113	Indirect impact of lightning discharge on a grounding grid. , 2010, , .		0
114	Rapid idea of located defects on grounding systems. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2011, 24, 496-506.	1.9	0
115	Effect of the wall structure on the level of the radiated electric field due to indoor PLC circuit. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2012, 31, 1105-1121.	0.9	0
116	Altered PWM for DC link current translation to phase currents for electric drives. , 2012, , .		0
117	Computation of SAR in the simplified model of a pregnant woman exposed to RF radiation from 10 MHz to 1800 MHz. , 2013, , .		0
118	Current density and internal electric field in a model of the human body exposed to ELF electric and magnetic fields. , 2014, , .		0
119	Transient Response of Grounding Electrode using the Wire Antenna Theory Approach. IOP Conference Series: Materials Science and Engineering, 2014, 67, 012014.	0.6	0
120	Corrigendum to "Comparison of Matrix Pencil Extracted Features in Time Domain and in Frequency Domain for Radar Target Classification" International Journal of Antennas and Propagation, 2015, 1-1.	1.2	0
121	Frequency domain analysis of EM crosstalk problem in a quad by the equivalent cable bundle method among twisted-wire pairs cable bundle. , 2015, , .		0
122	Some computational aspects of calculation of integrals arising within the framework of Method of Moments - application to bioelectromagnetics. , 2016, , .		0
123	Analysis of electrophysiological activities using Matrix Pencil Method. , 2017, , .		0
124	Analytical formulation for shielding effectiveness calculation of a lossy enclosure containing holes. , 2017, , .		0
125	Closed form model of radiated EM field from wired systems and analysis of coupling impact. , 2017, , .		0
126	Efficiency of Matrix Pencil Method in Stimulus Artifact Removal. , 2018, , .		0

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127	Stimulus Artifact Removal Using Matrix Pencil Method. , 2018, , .		0
128	CaractÃ©risation de l'environnement Ã©lectromagnÃ©tique des convertisseurs de l'Ã©lectronique de puissance. Revue Internationale De GÃ©nie Ã©lectrique, 2008, 10, 545-579.	0.0	0
129	Boundary element modeling of horizontal grounding electrodes using the set of generalized telegrapherâ€™s equations. WIT Transactions on Modelling and Simulation, 2009, , .	0.0	0
130	On the Various Applications of Stochastic Collocation in Computational Electromagnetics. PoliTOSpringer Series, 2019, , 135-155.	0.5	0