

Khalil EL KHAMLI CHI DRISSI

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8926218/publications.pdf>

Version: 2024-02-01

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	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
2	An Analytical Evaluation of the Shielding Effectiveness of Enclosures Containing Complex Apertures. <i>IEEE Access</i> , 2021, 9, 147191-147200.	4.2	8
3	Transient impedance of the horizontal grounding electrode: Sensitivity analysis of the direct time domain analytical solution. , 2019, , .		1
4	Soft Fault Identification in Electrical Network Using Time Domain Reflectometry and Neural Network. <i>Lecture Notes in Electrical Engineering</i> , 2019, , 365-376.	0.4	3
5	A sliding mode control and artificial neural network based MPPT for a direct grid-connected photovoltaic source. <i>Asian Journal of Control</i> , 2019, 21, 1892-1905.	3.0	21
6	On the Various Applications of Stochastic Collocation in Computational Electromagnetics. <i>PoliTO Springer Series</i> , 2019, , 135-155.	0.5	0
7	Analytical Formulation for Shielding Effectiveness of a Lossy Enclosure Containing Apertures. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018, 60, 1384-1392.	2.2	9
8	Time domain generalized telegrapher's equations for the electromagnetic field coupling to finite-length wires buried in a lossy half-space. <i>Electric Power Systems Research</i> , 2018, 160, 199-204.	3.6	2
9	Efficiency of Matrix Pencil Method in Stimulus Artifact Removal. , 2018, , .		0
10	Novel Analytical Formulation for Shielding Effectiveness Calculation of Lossy Enclosures Containing Elliptical Apertures. , 2018, , .		1
11	Stimulus Artifact Removal Using Matrix Pencil Method. , 2018, , .		0
12	Integral Equation Formulations and Related Numerical Solution Methods in Some Biomedical Applications of Electromagnetic Fields. <i>International Journal of E-Health and Medical Communications</i> , 2018, 9, 65-84.	1.6	3
13	Stochastic Collocation Applications in Computational Electromagnetics. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-13.	1.1	6
14	Analytical Models for Electromagnetic Coupling of an Open Metallic Shield Containing a Loaded Wire. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017, 59, 1634-1637.	2.2	17
15	Direct time domain evaluation of the transient field transmitted into a lossy ground due to GPR antenna radiation. <i>Engineering Analysis With Boundary Elements</i> , 2017, 82, 27-31.	3.7	8
16	A simple analysis of dipole antenna radiation above a multilayered medium. , 2017, , .		5
17	Sensitivity analysis of the time transient currents induced along thin wires buried in lossy and uncertain environments. , 2017, , .		3
18	Voltage THD Reduction for Dual-Inverter Fed Open-End Load With Isolated DC Sources. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 2102-2111.	7.9	36

#	ARTICLE	IF	CITATIONS
19	Analysis of electrophysiological activities using Matrix Pencil Method. , 2017, , .		0
20	Stochastic-deterministic and sensitivity analysis of the transient field generated by GPR dipole antenna and transmitted into a lossy ground. , 2017, , .		1
21	High frequency performance of ground rod in two-layer soil. , 2017, , .		1
22	Soft fault identification in electrical network using time domain reflectometry and adaptive neuro-fuzzy inference system. , 2017, , .		3
23	Analytical formulation for shielding effectiveness calculation of a lossy enclosure containing holes. , 2017, , .		0
24	Closed form model of radiated EM field from wired systems and analysis of coupling impact. , 2017, , .		0
25	Advanced analysis of the transient impedance of the horizontal grounding electrode: From statistics to sensitivity indices. , 2017, , .		2
26	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
27	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
28	Transient Electromagnetic Field Coupling to Buried Thin Wire Configurations: Antenna Model versus Transmission Line Approach in the Time Domain. International Journal of Antennas and Propagation, 2016, 2016, 1-11.	1.2	5
29	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
30	Some computational aspects of calculation of integrals arising within the framework of Method of Moments - application to bioelectromagnetics. , 2016, , .		0
31	A new hybrid approach using time-domain reflectometry combined with wavelet and neural network for fault identification in wiring network. , 2016, , .		5
32	On some applications of stochastic collocation method in computational electromagnetics: Applications in ground penetrating radar, bioelectromagnetics, grounding systems and buried lines. , 2016, , .		3
33	On deterministic-stochastic time domain study of dipole antenna for GPR applications. Engineering Analysis With Boundary Elements, 2016, 73, 14-20.	3.7	6
34	Integral equation models in some biomedical applications of electromagnetic fields: Transcranial magnetic stimulation (TMS), nerve fiber stimulation. , 2016, , .		3
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Combined random space vector modulation for a variable speed drive using induction motor. Electrical Engineering, 2016, 98, 1-15.	2.0	19
38	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
39	Optimized numerical models of thin wire above an imperfect and lossy ground for GPR statistics. , 2015, , .		4
40	Antenna model for passive myelinated nerve fiber. , 2015, , .		5
41	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
42	Frequency domain analysis of EM crosstalk problem in a quad by the equivalent cable bundle method among twisted-wire pairs cable bundle. , 2015, , .		0
43	Modified SVM to meet CMV and DC current ripple reduction. , 2015, , .		2
44	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
45	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
46	Direct time domain modeling of the transient field transmitted in a dielectric half-space for GPR applications. , 2015, , .		8
47	Some remarks related to first 150 years of Maxwell's equations. , 2015, , .		1
48	New strategy to balance neutral-point voltage in three-level VSI based on SVM regarding output current. , 2015, , .		3
49	High-Input-Voltage High-Frequency Class E Rectifiers for Resonant Inductive Links. IEEE Transactions on Power Electronics, 2015, 30, 1328-1335.	7.9	123
50	On the use of the vertical straight wire model in electromagnetics and related boundary element solution. Engineering Analysis With Boundary Elements, 2015, 50, 19-28.	3.7	6
51	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
52	Transient statistics from the lightning strike current flowing along grounding electrode. , 2014, , .		3
53	Current density and internal electric field in a model of the human body exposed to ELF electric and magnetic fields. , 2014, , .		0
54	Transient Response of Grounding Electrode using the Wire Antenna Theory Approach. IOP Conference Series: Materials Science and Engineering, 2014, 67, 012014.	0.6	0

#	ARTICLE	IF	CITATIONS
55	Robust UWB radar target classification in white Gaussian noise based on Matrix Pencil Method in Frequency Domain and Mahalanobis Distance. , 2014, , .		2
56	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
57	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
58	Spread spectrum in three-phase inverter by an optimised dual randomised PWM technique. International Journal of Electronics, 2014, 101, 308-324.	1.4	7
59	Transient Behaviour of Grounding System in a Two-Layer Soil Using the Transmission Line Theory. Automatika, 2014, 55, 306-316.	2.0	7
60	Time domain analysis of the horizontal grounding electrode: Antenna theory approach versus transmission line approximation. , 2014, , .		2
61	Transient voltage induced along the grounding system using the Antenna Theory approach. , 2013, , .		1
62	Transient response of a buried wire. , 2013, , .		2
63	Computation of SAR in the simplified model of a pregnant woman exposed to RF radiation from 10 MHz to 1800 MHz. , 2013, , .		0
64	EMC analysis of the narrowband PLC system based on the antenna theory. , 2013, , .		1
65	ON THE ROTATIONALLY-CYLINDRICAL MODEL OF THE HUMAN BODY EXPOSED TO ELF ELECTRIC FIELD. Progress in Electromagnetics Research M, 2013, 29, 165-179.	0.9	4
66	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
67	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
68	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
69	Discontinuous Random Space Vector Modulation for Electric Drives: A Digital Approach. IEEE Transactions on Power Electronics, 2012, 27, 4944-4951.	7.9	54
70	Computational model of grounding systems. , 2012, , .		2
71	Optimized RPWM technique for a Variable Speed Drive using induction motor. , 2012, , .		6
72	Analysis of Power Line Communications electromagnetic field in electrical networks taking into account the power transformers. , 2012, , .		2

#	ARTICLE	IF	CITATIONS
73	Transient analysis of grounding systems without computer. , 2012, , .		3
74	Comparison of approximate models of horizontal wire conductor above homogeneous ground. , 2012, , .		2
75	Random discontinuous space vector modulation for variable speed drives. , 2012, , .		2
76	Altered PWM for DC link current translation to phase currents for electric drives. , 2012, , .		0
77	Plane wave coupling to horizontal wire conductor above two-layer soil: Comparison of electromagnetic, complex image and transmission line models. , 2012, , .		2
78	On the analysis of vertical straight thin wire above a lossy ground: Analytical versus numerical solution. , 2012, , .		2
79	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
80	Antenna Models for Electromagnetic Compatibility Applications. International Journal of Antennas and Propagation, 2012, 2012, 1-2.	1.2	1
81	ANALYTICAL MODEL FOR ELECTROMAGNETIC RADIATION BY BARE-WIRE STRUCTURES. Progress in Electromagnetics Research B, 2012, 45, 395-413.	1.0	10
82	Comparison of Image and Transmission Line Models of Energized Horizontal Wire Above Two-Layer Soil. Automatika, 2012, 53, 38-48.	2.0	4
83	A simplified approach to modeling the interaction between grounding grid and lightning stroke. Annales Des Telecommunications/Annals of Telecommunications, 2011, 66, 603-615.	2.5	3
84	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
85	Electric Load Disaggregation in Smart Metering Using a Novel Feature Extraction Method and Supervised Classification. Energy Procedia, 2011, 6, 627-632.	1.8	29
86	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
87	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
88	Antenna mode currents and radiated emissions of in-door PLC line within wall structure. , 2011, , .		2
89	Novel technique to reduce leakage current and commutation losses in electric drives. , 2011, , .		5
90	Indirect impact of lightning discharge on a grounding grid. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
91	Interaction between lightning discharge and electrical tower. , 2010, , .		2
92	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
93	Human exposure to transient electromagnetic fields using simplified body models. Engineering Analysis With Boundary Elements, 2010, 34, 23-29.	3.7	11
94	Random space vector modulation for electric drives: A digital approach. , 2010, , .		9
95	Smart metering by using “Matrix Pencil”. , 2010, , .		5
96	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
97	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
98	Closed formula of PLC radiated field in Fresnel and far zones. , 2009, , .		0
99	Reduction of power field radiation for PLC applications. , 2009, , .		1
100	Boundary element modeling of horizontal grounding electrodes using the set of generalized telegrapher's equations. WIT Transactions on Modelling and Simulation, 2009, , .	0.0	0
101	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
102	Analysis of electromagnetic field coupling to a single wire above a PEC ground using wire antenna theory: Analytical versus numerical solution. , 2008, , .		2
103	Spread spectrum in DC-DC full bridge voltage converter by a dual randomized PWM scheme. , 2008, , .		15
104	Transient response of multiple thin wires located at different heights above a dielectric half-space. , 2008, , .		0
105	Localization of defects on buried grid by magnetic field radiation. , 2008, , .		3
106	Computation of electromagnetic field radiated by power electronic converters. , 2008, , .		2
107	A new formalism for the analysis of electromagnetic coupling between the lightning and a complex network of lines or cables. , 2008, , .		1
108	State of art on load monitoring methods. , 2008, , .		60

#	ARTICLE	IF	CITATIONS
109	High frequency and transient coupling to pasive conductors near grounding systems in layered soil. , 2008, , .		0
110	A new approach for the characterization of indirect lightning strike effect on 3D metallic structure. , 2008, , .		1
111	ModÃ©lisation d'un convertisseur d'Ã©nergie par la mÃ©thode des antennes. Revue Internationale De GÃ©nie Ã©lectrique, 2008, 10, 333-354.	0.0	2
112	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
113	High frequency electromagnetic analysis of horizontal grounding conductor and near-by passive parallel conductor within two-layer soil. , 2007, , .		4
114	Electromagnetic field coupling to overhead wires: Comparison of wire antenna and transmission line model in the frequency and time domain. , 2007, , .		3
115	Electromagnetic field coupling to buried wires: Comparison of frequency domain wire antenna and transmission line model. , 2007, , .		1
116	ModÃ©lisation des perturbations induites par une onde de foudre sur un rÃ©seau de puissance non linÃ©aire par FDTD. Revue Internationale De GÃ©nie Ã©lectrique, 2007, 10, 211-247.	0.0	1
117	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
118	CaractÃ©risation d'une grille de mise Ã la terre par rÃ©solution d'une Ã©quation de propagation. Revue Internationale De GÃ©nie Ã©lectrique, 2005, 8, 407-423.	0.0	2
119	Insulated Vertical Antennas Above Ground. IEEE Transactions on Antennas and Propagation, 2004, 52, 321-324.	5.1	7
120	Effects of symmetric distribution laws on spectral power density in randomized PWM. IEEE Power Electronics Letters, 2003, 1, 41-44.	0.7	20
121	Shielding characterization of the electromagnetic environment of an electric power network. , 2003, , .		0
122	Comparison of absorbing boundary conditions for micro-strip circuit using FDTD method. , 2003, , .		0
123	Fast efficient method for analysis of insulated wire antennas above ground. Electronics Letters, 2003, 39, 951.	1.0	0
124	Modeling of the power spectrum density of an entirely randomized modulation in power converters. , 2003, , .		3
125	Identification of frequency-dependent parameters for buried wire in imperfect ground. , 2003, , .		0
126	Nouvelle expression temporelle de l'impÃ©dance interne des conducteurs Ã section rectangulaire. Annales Des Telecommunications/Annals of Telecommunications, 2001, 56, 487-495.	2.5	0

#	ARTICLE	IF	CITATIONS
127	An innovative DSP-based teaching module for electrical machine drives. IEEE Transactions on Education, 1996, 39, 158-164.	2.4	10
128	Linear control of series resonant converter. , 0, , .		0
129	Experimental investigations into the dual-randomization PWM scheme for power converters. , 0, , .		1
130	Three-dimension method of moments analysis of radiated field from DC-DC converters. , 0, , .		0