Rodolfo Araneo

List of Publications by Year in Descending Order

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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.

105 papers	1,279 citations	18 h-index	31 g-index
133 ext. papers	1,873 ext. citations	3.8 avg, IF	4.99 L-index

#	Paper	IF	Citations
105	Protection of distribution overhead power lines against direct lightning strokes by means of underbuilt ground wires. *Electric Power Systems Research*, **2022**, 202, 107571	3.5	0
104	Axially Symmetric Source Field Penetration through a Circular Aperture in a Thin Impedance Plate. *IEEE Transactions on Antennas and Propagation*, **2022**, 1-1	4.9	0
103	Renewable Energy System Protection and Coordination **2021**, 169-203		
102	Lightning Protection Systems **2021**, 107-167		
101	Safety-by-Design Approach in AC / DC Systems **2021**, 31-62		
100	Performance of Grounding Systems in Transient Conditions **2021**, 231-264		
99	The Corona Phenomenon in Overhead Lines: Critical Overview of Most Common and Reliable Available Models. *Energies*, **2021**, 14, 6612	3.1	4
98	Magnetic field penetration through a circular aperture in a perfectly conducting plate excited by a coaxial loop. *IET Microwaves, Antennas and Propagation*, **2021**, 15, 1147-1158	1.6	1
97	2-D Convolutional Deep Neural Network for the Multivariate Prediction of Photovoltaic Time Series. *Energies*, **2021**, 14, 2392	3.1	3
96	Insulation Resistance and Failures of a High-Power Grid-Connected Photovoltaic Installation: A Case Study. *IEEE Industry Applications Magazine*, **2021**, 27, 16-22	0.6	
95	Two-stage dynamic management in energy communities using a decision system based on elastic net regularization. *Applied Energy*, **2021**, 291, 116852	10.7	3
94	Innovative power-sharing model for buildings and energy communities. *Renewable Energy*, **2021**, 172, 1087-1102	8.1	6
93	. *IEEE Transactions on Electromagnetic Compatibility*, **2021**, 63, 308-312	2	7
92	Unconditionally Stable Implicit Schemes for Transient Analysis of Lossy Multiconductor Lines. *IEEE Transactions on Electromagnetic Compatibility*, **2021**, 63, 640-644	2	2
91	. *IEEE Transactions on Power Delivery*, **2021**, 36, 1491-1498	4.3	2
90	Closed-Form LF Magnetic Shielding Effectiveness of Thin Planar Screens in Coplanar Loops Configuration. *IEEE Transactions on Electromagnetic Compatibility*, **2021**, 63, 631-635	2	2
89	Application of the transfer matrix approach to direct lightning studies of overhead power lines with underbuilt shield wires Part I: Theory. *IEEE Transactions on Power Delivery*, **2021**, 1-1	4.3	1

88	Application of the transfer matrix approach to direct lightning studies of overhead power lines with underbuilt shield wires Part II: Simulation results. *IEEE Transactions on Power Delivery*, **2021**, 1-1	4.3	1
87	A Simple Ball Milling and Thermal Oxidation Method for Synthesis of ZnO Nanowires Decorated with Cubic ZnO Nanoparticles. *Nanomaterials*, **2021**, 11,	5.4	2
86	The impact of different corona models on FD algorithms for the solution of multiconductor transmission lines equations. *High Voltage*, **2021**, 6, 822	4.1	2
85	Analysis of Metal Oxide Varistor Arresters for Protection of Multiconductor Transmission Lines Using Unconditionally-Stable Crank Nicolson FDTD. *Energies*, **2020**, 13, 2112	3.1	5
84	Review of O&M Practices in PV Plants: Failures, Solutions, Remote Control, and Monitoring Tools. *IEEE Journal of Photovoltaics*, **2020**, 10, 914-926	3.7	14
83	An accurate approach for the evaluation of the performance of overhead distribution lines due to indirect lightning. *Electric Power Systems Research*, **2020**, 186, 106411	3.5	6
82	Utilization of Underbuilt Shield Wires to Improve the Lightning Performance of Overhead Distribution Lines Hit by Direct Strokes. *IEEE Transactions on Power Delivery*, **2020**, 35, 1656-1666	4.3	7
81	Magnetic Shielding of Planar Metallic Screens: A New Analytical Closed-Form Solution. *IEEE Transactions on Electromagnetic Compatibility*, **2020**, 62, 1884-1888	2	12
80	A Review of the Enabling Methodologies for Knowledge Discovery from Smart Grids Data **2020**,		1
79	Smart ECM-Based Electrospun Biomaterials for Skeletal Muscle Regeneration. *Nanomaterials*, **2020**, 10,	5.4	18
78	. *IEEE Access*, **2020**, 8, 211490-211505	3.5	10
77	A Review of the Enabling Methodologies for Knowledge Discovery from Smart Grids Data. *Energies*, **2020**, 13, 6579	3.1	1
76	The Electromagnetic Effects of Pulsed Horizontal Dipoles on a Thin Conductive Sheet: Time-Domain Analysis. *IEEE Transactions on Electromagnetic Compatibility*, **2020**, 62, 443-450	2	1
75	2-D Convolutional Deep Neural Network for Multivariate Energy Time Series Prediction **2019**,		2
74	Electrical Safety of Academic Laboratories **2019**,		2
73	On the Insulation Resistance in High-Power Free-Field Grid-Connected Photovoltaic Plants **2019**,		3
72	Electrospinning nanofibers as separators for lithium-ion batteries **2019**,		4
71	On Electrical Safety in Academic Laboratories. *IEEE Transactions on Industry Applications*, **2019**, 55, 5613-5620	4.9	2

70	A Neural Network Based Prediction System of Distributed Generation for the Management of Microgrids. *IEEE Transactions on Industry Applications*, **2019**, 55, 7092-7102	4.3	29
69	ZnO Nanostructures and Electrospun ZnO-Polymeric Hybrid Nanomaterials in Biomedical, Health, and Sustainability Applications. *Nanomaterials*, **2019**, 9,	5.4	18
68	Matching a Nonuniform MTL With Only Passive Elements Is Not Always Possible. *IEEE Transactions on Power Delivery*, **2019**, 34, 467-474	4.3	4
67	A Distributed Algorithm for the Cooperative Prediction of Power Production in PV Plants. *IEEE Transactions on Energy Conversion*, **2019**, 34, 497-508	5.4	15
66	Pulsed Vertical Dipole Response of a Thin Sheet With High-Contrast Dielectric and Conductive Properties. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 217-225	4.9	4
65	Electromagnetic pulse response of planar screens. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, **2018**, 31, e2329	1	2
64	Computation, Properties, and Realizability of the Characteristic Immittance Matrices of Nonuniform Multiconductor Transmission Lines. *IEEE Transactions on Power Delivery*, **2018**, 33, 1885-1894	4.3	9
63	Time-Domain Shielding of a Thin Conductive Sheet in the Presence of Pulsed Vertical Dipoles. *IEEE Transactions on Electromagnetic Compatibility*, **2018**, 60, 157-165	2	15
62	Time-Domain Green's Function for a Vertical Dipole Above a Graphene Sheet. *IEEE Nanotechnology Magazine*, **2018**, 17, 841-851	2.6	3
61	Time-domain surface plasmon polaritons on a graphene sheet. *Physical Review B*, **2018**, 97,	3.3	1
60	A Smart Grid in Ponza Island: Battery Energy Storage Management by Echo State Neural Network **2018**,		4
59	Theoretical Study of the First Higher Order Mode in Grounded Graphene Nanoribbons. *IEEE Nanotechnology Magazine*, **2018**, 17, 814-823	2.6	3
58	A rigorous matrix procedure for calculating the line constants and wave parameters of uniform MTLs using SMT/PMU. *International Transactions on Electrical Energy Systems*, **2017**, 27, e2377	2.2	
57	Frequency-Domain Analysis of Sectionalized Shield Wires on PLC Transmission Over High-Voltage Lines. *IEEE Transactions on Electromagnetic Compatibility*, **2017**, 59, 853-861	2	8
56	Prediction in Photovoltaic Power by Neural Networks. *Energies*, **2017**, 10, 1003	3.1	27
55	Analysis of the lightning transient response of the earthing system of large-scale ground-mounted PV plants **2017**,		4
54	Takagi-sugeno fuzzy systems applied to voltage prediction of photovoltaic plants **2017**,		5
53	Joint meeting of the 17th edition of the IEEE international conference on environment and electrical engineering (EEEIC) and the 1st edition of the IEEE industrial and commercial power systems Europe (I&CPS Europe). *IEEE Electromagnetic Compatibility Magazine*, **2017**, 6, 92-94	0.4	1

52	Dyadic Green Functions for Dipole Excitation of Homogenized Metasurfaces. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 167-178	4.9	16
51	Transient behavior of wind towers grounding systems under lightning strikes. *International Journal of Energy and Environmental Engineering*, **2016**, 7, 235-247	4	15
50	Time-Domain Shielding Performance of Enclosures: A Comparison of Different Global Approaches. *IEEE Transactions on Electromagnetic Compatibility*, **2016**, 58, 434-441	2	9
49	Ground Transient Resistance of Underground Cables. *IEEE Transactions on Electromagnetic Compatibility*, **2016**, 58, 931-934	2	3
48	Impact of Non-Linear Piezoelectricity on the Piezotronic Effect of ZnO Nanowires. *IEEE Nanotechnology Magazine*, **2016**, 15, 512-520	2.6	4
47	Advanced mechanical and electrical characterization of piezoelectric ZnO nanowires for electro-mechanical modeling of enhanced performance sensors. *Sensors and Actuators A: Physical*, **2016**, 244, 166-173	3.9	6
46	Embedding of time series for the prediction in photovoltaic power plants **2016**,		10
45	Simplified Conservative Testing Method of Touch and Step Voltages by Multiple Auxiliary Electrodes at Reduced Distance. *IEEE Transactions on Industry Applications*, **2015**, 51, 4987-4993	4.3	19
44	Thermal-electric model for piezoelectric ZnO nanowires. *Nanotechnology*, **2015**, 26, 265402	3.4	20
43	Eco-sustainable routing of power lines for the connection of renewable energy plants to the Italian high-voltage grid. *International Journal of Energy and Environmental Engineering*, **2015**, 6, 9-19	4	10
42	Semi-Analytical Representation of the Two-Dimensional Time-Domain Green's Function of a Graphene Sheet in the Intraband Regime. *IEEE Nanotechnology Magazine*, **2015**, 14, 681-688	2.6	10
41	. *IEEE Transactions on Electromagnetic Compatibility*, **2015**, 57, 726-733	2	14
40	Nonlocal Effects on Surface Plasmon Polariton Propagation in Graphene Nanoribbons. *IEEE Transactions on Terahertz Science and Technology*, **2015**, 5, 941-950	3.4	14
39	Time-Domain Analysis of Building Shielding Against Lightning Electromagnetic Fields. *IEEE Transactions on Electromagnetic Compatibility*, **2015**, 57, 397-404	2	24
38	Low-environmental impact routeing of overhead power lines for the connection of renewable energy plants to the Italian HV grid **2014**,		5
37	Space-domain method of moments for graphene nanoribbons **2014**,		7
36	Current Voltage Characteristics of ZnO Nanowires Under Uniaxial Loading. *IEEE Nanotechnology Magazine*, **2014**, 13, 724-735	2.6	18
35	Assessment of a practical model to estimate the cell temperature of a photovoltaic module. *International Journal of Energy and Environmental Engineering*, **2014**, 5, 1	4	16

34	. *International Journal of Energy and Environmental Engineering*, **2014**, 5, 2	4	5
33	Time-Domain shielding effectiveness of planar conductive nanoscreens **2014**,		3
32	NEAR-FIELD TIME-DOMAIN SHIELDING EFFECTIVENESS OF THIN CONDUCTIVE SCREENS. *Progress in Electromagnetics Research*, **2014**, 146, 47-56	3.8	5
31	Design Concepts, Fabrication and Advanced Characterization Methods of Innovative Piezoelectric Sensors Based on ZnO Nanowires. *Sensors*, **2014**, 14, 23539-23562	3.8	20
30	A global approach to time-domain shielding problems **2014**,		4
29	Safety criteria for testing ground systems within their influence zone **2014**,		2
28	Alternative Definitions for the Time-Domain Shielding Effectiveness of Enclosures. *IEEE Transactions on Electromagnetic Compatibility*, **2014**, 56, 482-485	2	28
27	The clash of mechanical and electrical size-effects in ZnO nanowires and a double power law approach to elastic strain engineering of piezoelectric and piezotronic devices. *Advanced Materials*, **2014**, 26, 5976-85	24	25
26	Transient response of grounding systems of wind turbines under lightning strikes **2014**,		6
25	Assessment of the technical usable potential of the TUM Shaft Hydro Power plant on the Aurino River, Italy. *Renewable Energy*, **2013**, 60, 648-654	8.1	10
24	Toward a definition of the shielding effectiveness in the time - domain **2013**,		10
23	Semiclassical spatially dispersive intraband conductivity tensor and quantum capacitance of graphene. *Physical Review B*, **2013**, 87,	3.3	87
22	Lateral bending of tapered piezo-semiconductive nanostructures for ultra-sensitive mechanical force to voltage conversion. *Nanotechnology*, **2013**, 24, 265707	3.4	36
21	Mechanics of quasi-1D ZnO nanostructures for energy harvesting. *Materials Research Society Symposia Proceedings*, **2013**, 1556, 1		4
20	Piezo-semiconductive quasi-1D conical NWs for high performance nanodevices. *Materials Research Society Symposia Proceedings*, **2013**, 1556, 1		3
19	Accurate models for the current-voltage characteristics of vertically compressed piezo-semiconductive quasi-1D NWs. *Materials Research Society Symposia Proceedings*, **2013**, 1556, 1		8
18	Accurate analysis of the piezopotential and the stored energies in laterally bent piezo-semiconductive NWs. *Materials Research Society Symposia Proceedings*, **2013**, 1556, 1		4
17	COMPACT ELECTROMAGNETIC ABSORBERS FOR FREQUENCIES BELOW 1 GHZ. *Progress in Electromagnetics Research*, **2013**, 143, 67-86	3.8	10

16	Low-Frequency Dominant-Mode Propagation in Spatially Dispersive Graphene Nanowaveguides. *IEEE Transactions on Electromagnetic Compatibility*, **2012**, 1-6	2	17
15	Piezo-semiconductive quasi-1D nanodevices with or without anti-symmetry. *Advanced Materials*, **2012**, 24, 4719-24	24	101
14	Toward an effective absorber for damping resonances in shielded enclosures **2012**,		2
13	Dipole Excitation of Periodic Metallic Structures. *IEEE Transactions on Antennas and Propagation*, **2011**, 59, 2178-2187	4.9	16
12	Shielding Effectiveness of Periodic Screens Against Finite High-Impedance Near-Field Sources. *IEEE Transactions on Electromagnetic Compatibility*, **2011**, 53, 706-716	2	21
11	Multi-port impedance matching technique for power line communications **2011**,		3
10	**2010**,		2
9	Fast MoM Analysis of the Shielding Effectiveness of Rectangular Enclosures With Apertures, Metal Plates, and Conducting Objects. *IEEE Transactions on Electromagnetic Compatibility*, **2009**, 51, 274-283	2	64
8	Shielding effectiveness of artificial magnetic screens in the VHF band **2009**,		3
7	Design of impedance matching couplers for power line communications **2009**,		12
6	EMC Issues in High-Power Grid-Connected Photovoltaic Plants. *IEEE Transactions on Electromagnetic Compatibility*, **2009**, 51, 639-648	2	54
5	An Efficient MoM Formulation for the Evaluation of the Shielding Effectiveness of Rectangular Enclosures With Thin and Thick Apertures. *IEEE Transactions on Electromagnetic Compatibility*, **2008**, 50, 294-304	2	28
4	Efficient Evaluation of the 3-D Periodic Green's Function Through the Ewald Method. *IEEE Transactions on Microwave Theory and Techniques*, **2008**, 56, 2069-2075	4.1	20
3	Efficient computation of the shielding effectiveness of metallic enclosures loaded with conductors **2008**,		1
2	**2008**,		157
1	Electromagnetic Shielding		3