

Riccardo Torchio

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Multi-Objective Optimization of Yagi-Uda Antenna Applying Enhanced Firefly Algorithm With Adaptive Cost Function. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	36
2	Challenges in the Electromagnetic Modeling of Road Embedded Wireless Power Transfer. Energies, 2019, 12, 2677.	3.1	32
3	Integral Model Predictive Current Control for Synchronous Motor Drives. IEEE Transactions on Power Electronics, 2021, 36, 13293-13303.	7.9	30
4	High-Performance PEEC Analysis of Electromagnetic Scatterers. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	28
5	A Volume PEEC Formulation Based on the Cell Method for Electromagnetic Problems From Low to High Frequency. IEEE Transactions on Antennas and Propagation, 2019, 67, 7452-7465.	5.1	28
6	A 3-D PEEC Formulation Based on the Cell Method for Full-Wave Analyses With Conductive, Dielectric, and Magnetic Media. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	21
7	Uncertainty Quantification for SAE J2954 Compliant Static Wireless Charge Components. IEEE Access, 2020, 8, 171489-171501.	4.2	21
8	Modelling of road-embedded transmitting coils for wireless power transfer. Computers and Electrical Engineering, 2020, 88, 106850.	4.8	19
9	An Extension of Unstructured-PEEC Method to Magnetic Media. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	16
10	PEEC-Based Analysis of Complex Fusion Magnets During Fast Voltage Transients With H-Matrix Compression. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	15
11	FFT-PEEC: A Fast Tool From CAD to Power Electronics Simulations. IEEE Transactions on Power Electronics, 2022, 37, 700-713.	7.9	15
12	Optimized cycle basis in volume integral formulations for large scale eddy-current problems. Computer Physics Communications, 2021, 265, 108004.	7.5	14
13	Promoting core/surface homogeneity during flash sintering of 3YSZ ceramic by current path management: experimental and modelling studies. Journal of the European Ceramic Society, 2021, 41, 6649-6659.	5.7	13
14	Multi-Objective Synthesis of NFC-Transponder Systems Based on PEEC Method. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	11
15	Digital Twins as Electric Motor Soft-Sensors in the Automotive Industry. , 2021, , .		10
16	Continuous Control Set Model Predictive Current Control of a Microgrid-Connected PWM Inverter. IEEE Transactions on Power Systems, 2021, 36, 415-425.	6.5	9
17	HVAC Single Core Insulated Cables With Steel Reinforced Mechanical Protections: Effect on Sequence Impedances. IEEE Transactions on Power Delivery, 2021, 36, 1663-1671.	4.3	8
18	Fast Fourier transform-volume integral: a smart approach for the electromagnetic design of complex systems in large fusion devices. Plasma Physics and Controlled Fusion, 2021, 63, 025010.	2.1	8

#	ARTICLE	IF	CITATIONS
19	A fast tool for the parametric analysis of human body exposed to LF electromagnetic fields in biomedical applications. Computer Methods and Programs in Biomedicine, 2022, 214, 106543.	4.7	8
20	Fast Solver for Implicit Continuous Set Model Predictive Control of Electric Drives. IEEE Access, 2022, 10, 17430-17440.	4.2	8
21	PEEC-Based Multi-Objective Synthesis of Non-Uniformly Spaced Linear Antenna Arrays. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	6
22	PEEC Modeling of Planar Spiral Resonators. IEEE Transactions on Magnetics, 2020, 56, 1-4.	2.1	5
23	Fast Uncertainty Quantification in Low Frequency Electromagnetic Problems by an Integral Equation Method Based on Hierarchical Matrix Compression. IEEE Access, 2019, 7, 163919-163932.	4.2	4
24	Stochastic PEEC Method Based on Polynomial Chaos Expansion. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	4
25	Limitations of the pattern multiplication technique for uniformly spaced linear antenna arrays. , 2016, , .		3
26	Synthesis of NFC antenna structure under multi-card condition. , 2018, , .		3
27	Unstructured PEEC method with the use of surface impedance boundary condition. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2020, 39, 1017-1030.	0.9	3
28	Marching On-In-Time Unstructured PEEC Method for Electrically Large Structures with Conductive, Dielectric, and Magnetic Media. Electronics (Switzerland), 2020, 9, 242.	3.1	3
29	Do Wind Turbines Amplify the Effects of Lightning Strikes? A Full-Maxwell Modelling Approach. IEEE Transactions on Power Delivery, 2022, 37, 3996-4006.	4.3	3
30	PEEC-based analysis of complex fusion magnets during fast voltage transients with H-matrix compression. , 2016, , .		1
31	PEEC-based multi-objective synthesis of non-uniformly spaced linear antenna arrays. , 2016, , .		1
32	PEEC-based multi-objective synthesis of NFC antennas in the presence of conductive structures. , 2018, , .		0
33	A DC to HF volume PEEC formulation based on hertz potentials and the cell method. , 2018, , .		0
34	A DC to HF volume PEEC formulation based on hertz potentials and the cell method. , 2018, , .		0
35	Non-uniformly spaced linear antenna array design by means of PEEC approach applying Cheetah optimization algorithm. International Journal of Applied Electromagnetics and Mechanics, 2019, 60, S15-S24.	0.6	0
36	Volume Integral Equation Methods for Axisymmetric Problems With Conductive and Magnetic Media. IEEE Transactions on Magnetics, 2020, 56, 1-9.	2.1	0

#	ARTICLE	IF	CITATIONS
37	Error Fieldsâ€™ Computation in the RFX-mod2 Reversed Field Pinch. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	0