

# Riccardo Torchio

## List of Publications by Citations

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**Version:** 2024-04-23

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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.

32  
papers

217  
citations

9  
h-index

13  
g-index

37  
ext. papers

287  
ext. citations

3.2  
avg, IF

3.93  
L-index

#	Paper	IF	Citations
32	Multi-Objective Optimization of Yagi-Uda Antenna Applying Enhanced Firefly Algorithm With Adaptive Cost Function. <i>IEEE Transactions on Magnetics</i> , <b>2018</b> , 54, 1-4	2	22
31	High-Performance PEEC Analysis of Electromagnetic Scatterers. <i>IEEE Transactions on Magnetics</i> , <b>2019</b> , 55, 1-4	2	22
30	Challenges in the Electromagnetic Modeling of Road Embedded Wireless Power Transfer. <i>Energies</i> , <b>2019</b> , 12, 2677	3.1	20
29	A Volume PEEC Formulation Based on the Cell Method for Electromagnetic Problems From Low to High Frequency. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 7452-7465	4.9	17
28	A 3-D PEEC Formulation Based on the Cell Method for Full-Wave Analyses With Conductive, Dielectric, and Magnetic Media. <i>IEEE Transactions on Magnetics</i> , <b>2018</b> , 54, 1-4	2	17
27	PEEC-Based Analysis of Complex Fusion Magnets During Fast Voltage Transients With H-Matrix Compression. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-4	2	12
26	An Extension of Unstructured-PEEC Method to Magnetic Media. <i>IEEE Transactions on Magnetics</i> , <b>2019</b> , 55, 1-4	2	12
25	Modelling of road-embedded transmitting coils for wireless power transfer. <i>Computers and Electrical Engineering</i> , <b>2020</b> , 88, 106850	4.3	12
24	Uncertainty Quantification for SAE J2954 Compliant Static Wireless Charge Components. <i>IEEE Access</i> , <b>2020</b> , 8, 171489-171501	3.5	12
23	Multi-Objective Synthesis of NFC-Transponder Systems Based on PEEC Method. <i>IEEE Transactions on Magnetics</i> , <b>2018</b> , 54, 1-4	2	9
22	Integral Model Predictive Current Control for Synchronous Motor Drives. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 13293-13303	7.2	9
21	Optimized cycle basis in volume integral formulations for large scale eddy-current problems. <i>Computer Physics Communications</i> , <b>2021</b> , 265, 108004	4.2	8
20	PEEC-Based Multi-Objective Synthesis of Non-Uniformly Spaced Linear Antenna Arrays. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-4	2	5
19	Fast Fourier transform-volume integral: a smart approach for the electromagnetic design of complex systems in large fusion devices. <i>Plasma Physics and Controlled Fusion</i> , <b>2021</b> , 63, 025010	2	5
18	Promoting core/surface homogeneity during flash sintering of 3YSZ ceramic by current path management: experimental and modelling studies. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 6649-6659	6	5
17	PEEC Modeling of Planar Spiral Resonators. <i>IEEE Transactions on Magnetics</i> , <b>2020</b> , 56, 1-4	2	4
16	Fast Solver for Implicit Continuous Set Model Predictive Control of Electric Drives. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	3

15	Unstructured PEEC method with the use of surface impedance boundary condition. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2020</b> , 39, 1017-1030	0.7	3
14	HVAC Single Core Insulated Cables With Steel Reinforced Mechanical Protections: Effect on Sequence Impedances. <i>IEEE Transactions on Power Delivery</i> , <b>2021</b> , 36, 1663-1671	4.3	3
13	Stochastic PEEC Method Based on Polynomial Chaos Expansion. <i>IEEE Transactions on Magnetics</i> , <b>2019</b> , 55, 1-4	2	2
12	Marching On-In-Time Unstructured PEEC Method for Electrically Large Structures with Conductive, Dielectric, and Magnetic Media. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 242	2.6	2
11	Fast Uncertainty Quantification in Low Frequency Electromagnetic Problems by an Integral Equation Method Based on Hierarchical Matrix Compression. <i>IEEE Access</i> , <b>2019</b> , 7, 163919-163932	3.5	2
10	A fast tool for the parametric analysis of human body exposed to LF electromagnetic fields in biomedical applications. <i>Computer Methods and Programs in Biomedicine</i> , <b>2021</b> , 214, 106543	6.9	2
9	Digital Twins as Electric Motor Soft-Sensors in the Automotive Industry <b>2021</b> ,		2
8	Continuous Control Set Model Predictive Current Control of a Microgrid-Connected PWM Inverter. <i>IEEE Transactions on Power Systems</i> , <b>2021</b> , 36, 415-425	7	2
7	FFT-PEEC: A Fast Tool From CAD to Power Electronics Simulations. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 37, 700-713	7.2	2
6	Synthesis of NFC antenna structure under multi-card condition <b>2018</b> ,		1
5	PEEC-based multi-objective synthesis of non-uniformly spaced linear antenna arrays <b>2016</b> ,		1
4	Do Wind Turbines Amplify the Effects of Lightning Strikes A Full-Maxwell Modelling Approach. <i>IEEE Transactions on Power Delivery</i> , <b>2022</b> , 1-1	4.3	0
3	Non-uniformly spaced linear antenna array design by means of PEEC approach applying Cheetah optimization algorithm. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2019</b> , 60, S15-S24 <sup>4</sup>	0.4	
2	Volume Integral Equation Methods for Axisymmetric Problems With Conductive and Magnetic Media. <i>IEEE Transactions on Magnetics</i> , <b>2020</b> , 56, 1-9	2	
1	Error Fields Computation in the RFX-mod2 Reversed Field Pinch. <i>IEEE Transactions on Magnetics</i> , <b>2021</b> , 57, 1-4	2	