

1. Publications dans des revues

2020

1. A Cozza, SY He, YZ Xie, "Surge Compression for Improved Fault Location Accuracy in Full Transient-Based Methods", IEEE Sensors Journal. 2020
2. A Cozza, SY He, YZ Xie , Impact of propagation losses on fault location accuracy in full transient-based methods, IEEE Transactions on Power Delivery 2020.
3. Bouzid Kerrouche, Mohamed Bensetti, Abdelhalim Zaoui, "EMI modeling considering the impedance behavior of isolated off-line converter", Microelectronics Reliability, volume 105, Février 2020, <https://doi.org/10.1016/j.microrel.2019.113562>
4. Ghida Al Achkar, Lionel Pichon, Laurent Daniel, and Nabil Benjelloun, "Effective Electromagnetic Properties of Woven Fiber Composites for Shielding Applications", IEEE Transactions on Electromagnetic Compatibility, 62(4):1082{1089, 2020. [doi: 10.1109/TEM.2019.2931764](https://doi.org/10.1109/TEM.2019.2931764). URL: <https://hal.archives-ouvertes.fr/hal-02313588>
5. Yao PEI, Lionel Pichon, Mohamed Bensetti, Yann Le Bihan, "Uncertainty quantification in the design of wireless power transfer systems", Open Physics, Volume 18, Issue 1, Pages 391-396, eISSN 2391-5471, DOI: <https://doi.org/10.1515/phys-2020-0174>. © 2020
6. V. Houchouas, M. Darces, M. Hélier, E. Cottais, and J. Lopes Esteves, "Applications of the Random Coupling Model to Assess Induced Currents or Voltages in Reverberant Environment," Progress In Electromagnetics Research C, Vol. 102, 109-125, 2020, [doi:10.2528/PIERC20022707](https://doi.org/10.2528/PIERC20022707)
7. Xiaoxin Lu, Anne Zhang, Olivier Dubrunfaut, Delong He, Lionel Pichon, and Jinbo Bai. Numerical modeling and experimental characterization of the AC conductivity and dielectric properties of CNT/polymer nanocomposites. Composites Science and Technology, [194:108150](https://doi.org/10.1016/j.compscitech.2020.108150), July 2020. [doi:10.1016/j.compscitech.2020.108150](https://doi.org/10.1016/j.compscitech.2020.108150). URL <https://hal.archives-ouvertes.fr/hal-02546459>
8. Sahil Deshmukh, Paul Lagouanelle, and Lionel Pichon. Assessment of Human Exposure in Case of Wireless Power Transfer for Automotive Applications using Stochastic Models. Applied Computational Electromagnetics Society Journal, 35(3), March 2020. URL <https://hal.archives-ouvertes.fr/hal-02568258>
9. Sassia Hedia, Bessem Zitouna, Jaleddine Ben Hadj Slama, and Lionel Pichon. Electromagnetic, "Time Reversal in the Near Field: Characterization of Transient Disturbances in Power Electronics", IEEE Transactions on Electromagnetic Compatibility, 62(5):1869{1878, 2020. doi: [10.1109/TEM.2020.2965735](https://doi.org/10.1109/TEM.2020.2965735). URL <https://hal.archives-ouvertes.fr/hal-02522867>
10. Shuoliang Ding, stavros koulouridis, and Lionel Pichon. Miniaturized implantable power transmission system for biomedical wireless applications. Wireless Power Transfer, pages 1{9, 2020a. [doi:10.1017/wpt.2019.16](https://doi.org/10.1017/wpt.2019.16). URL <https://hal.archives-ouvertes.fr/hal-02502526>.
11. Shuoliang Ding, stavros koulouridis, and Lionel Pichon. Design and characterization of a dual-band miniaturized circular antenna for deep in body biomedical wireless applications. International Journal of Microwave and Wireless Technologies, pages 1{8, 2020b. [doi: 10.1017/S1759078720000197](https://doi.org/10.1017/S1759078720000197). URL <https://hal.archives-ouvertes.fr/hal-02522677>.
12. Lionel Pichon, Electromagnetic analysis and simulation aspects of wireless power transfer in the domain of inductive power transmission technology. Journal of Electromagnetic Waves and

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13. Shuoliang Ding, Stavros Koulouridis, and Lionel Pichon. Implantable wireless transmission rectenna system for biomedical wireless applications. IEEE Access, 8:195551{195558, 2020c. doi: [10.1109/ACCESS.2020.3032848](https://doi.org/10.1109/ACCESS.2020.3032848). URL <https://hal.archives-ouvertes.fr/hal-02976880>.

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14. S He, A Cozza, Y Xie, "On the Spatial Resolution of Fault-Location Techniques Based on Full-Fault Transients", IEEE Transactions on Power Delivery 35 (3), 1527-1540 - 2019
15. S He, A Cozza, Y Xie, "Electromagnetic time reversal as a correlation estimator: Improved metrics and design criteria for fault location in power grids", IEEE Transactions on Electromagnetic Compatibility 62 (2), 598-611 -2019
16. M Kafal, R Razzaghi, A Cozza, F Auzanneau, WB Hassen, "A review on the application of the time reversal theory to wire network and power system diagnosis", 2019 IEEE International Instrumentation and Measurement Technology ...
17. M Kafal, A Cozza, "Multifrequency TR-MUSIC Processing to locate soft faults in cables subject to noise", IEEE Transactions on Instrumentation and Measurement 69 (2), 411-418; 2019

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20. Cozza, "Low frequency model-based identification of soft impedance faults in cables", IEEE Transactions on Instrumentation and Measurement 68 (10), 3524-3535 - 2018.
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24. Vincenzo Cirimele, freschi fabio, giaccone Luca, Lionel Pichon, and Maurizio Repetto. Human Exposure Assessment in Dynamic Inductive Power Transfer for Automotive Applications. IEEE Transactions on Magnetics, 53(6):5000304, 2017. doi: [10.1109/TMAG.2017.2658955](https://doi.org/10.1109/TMAG.2017.2658955). URL <https://hal-centralesupelec.archives-ouvertes.fr/hal-01528134>.
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Communications dans des congrès internationaux

• 2020

1. Valentin Houchouas, Muriel Darces, Marc Hélier, Emmanuel Cottais and Jose Lopes Esteves, "Applications of the Random Coupling Model for the stacked printed circuit boards", EMC Europe 2020, Rome, Italy, September 7-11, 2020.

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2. Karim KADEM, Yann LE BIHAN, Mohamed BENSETTI, Éric LABOURÉ, Antoine DIET, Mustapha DEBBOU, "Reduction of the shielding effect on the coupling factor of an EV WPT system", WPW, Mai 2019, London, UK.
3. Antoine Diet, Marc Biancheri-Astier, Yann Le Bihan, Pablo Perez-Nicoli, Madjda Bouklachi, Olivier Meyer, Fernando Silveira, and Lionel Pichon. 13.56 MHz Near Field magnetic coupling efficiency evaluation for IMDs powering. In 2019 IEEE Wireless Power Transfer Conference (WPTC), pages 466-469, London, France, June 2019. IEEE. doi: [10.1109/WPTC45513.2019.9055610](https://doi.org/10.1109/WPTC45513.2019.9055610). URL <https://hal.archives-ouvertes.fr/hal-02936875>.
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10. Ghida Al Achkar, Lionel Pichon, Olivier Dubrunfaut, A. Brézard-Oudot, Laurent DANIEL, and Nabil Benjelloun. Modélisation et caractérisation de matériaux composites tissés. In 15^{ème} Journées de Caractérisation Microondes et Matériaux (JCMM), Paris, France, March 2018b. URL <https://hal.archives-ouvertes.fr/hal-01990784>.
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October 2016. doi: 10.1109/IECON.2016.7793667. URL <https://hal-centralesupelec.archives-ouvertes.fr/hal-01561156>

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