

1. Publications dans des revues

2023

- A1. Bensetti M., Kadem K., Pei Y., Le Bihan Y., Labouré E., Pichon L. (2023). Parametric Optimization of Ferrite Structure Used for Dynamic Wireless Power Transfer for 3 kW Electric Vehicle. *Energies*, 16(14) . DOI: <https://doi.org/10.3390/en16145439>. Réf. HAL: [hal-04176153](https://hal.archives-ouvertes.fr/hal-04176153) - [OA HAL](#)
- A2. Vinicius de Moraes, Wassim Kabbara, Mohamed Bensetti, and Tanguy Phulpin. "Modeling and Optimization of a New Magnetic Coupler Topology for DIPT Systems. *IEEE Transactions on Magnetics*, 59(5):1-4, May 2023. doi: [10.1109/TMAG.2023.3246768](https://doi.org/10.1109/TMAG.2023.3246768). URL <https://hal-centralesupelec.archives-ouvertes.fr/hal-04093788>.
- A3. Pei Y., Pichon L., Bihan Y. L., Bensetti M. (2023). SIMP-Method Topology Optimization of Ferrite Structures in Inductive Power Transfer Systems. *IEEE Transactions on Electromagnetic Compatibility*, 65(6) . DOI: <https://doi.org/10.1109/TEMC.2023.3311632>. Réf. HAL: [hal-04242564](https://hal.archives-ouvertes.fr/hal-04242564) - [OA HAL](#)
- A4. Amadou Bayaghiou Diallo, Mohamed Bensetti, Christian Vollaie, Lionel Pichon, and Arnaud Breard, "Scale Reduction for Modeling and Prototyping of Inductive Power Transfer System for EV applications". *IEEE Transactions on Magnetics*, 59(5):1-4, 2023. doi: [10.1109/TMAG.2023.3239564](https://doi.org/10.1109/TMAG.2023.3239564). URL <https://hal.science/hal-03998693>.
- A5. Adel Razek Thermal effects of electromagnetic origin from heating processes to biological disturbances due to field exposure—A review. *Thermal Science and Engineering Progress*, 2023, 6 (1), pp.20. [10.24294/tse.v6i1.1950](https://doi.org/10.24294/tse.v6i1.1950)
- A6. Adel Razek Assessment and Categorization of Biological Effects and Atypical Symptoms Owing to Exposure to RF Fields from Wireless Energy Devices. *Applied Sciences*, 2023, 13 (3), pp.1265. [10.3390/app13031265](https://doi.org/10.3390/app13031265)
- A7. Adel Razek Assessment of EMF Troubles of Biological and Instrumental Medical Questions and Analysis of Their Compliance with Standards. *Standards*, 2023, 3 (2), pp.227-239. [10.3390/standards3020018](https://doi.org/10.3390/standards3020018)
- A8. Adel Razek Assessment of a Functional Electromagnetic Compatibility Analysis of Near-Body Medical Devices Subject to Electromagnetic Field Perturbation. *Electronics*, 2023, 12 (23), pp.4780. [10.3390/electronics12234780](https://doi.org/10.3390/electronics12234780)
- A9. Adel Razek Potential health effects of radiofrequency electromagnetic fields exposure. *Thermal Science and Engineering Progress*, 2023, 6 (1), [10.24294/tse.v6i1.1992](https://doi.org/10.24294/tse.v6i1.1992)
- A10. Adel Razek Image-Guided Surgical and Pharmacotherapeutic Routines as Part of Diligent Medical Treatment. *Applied Sciences*, 2023, 13 (24), pp.13039. [10.3390/app132413039](https://doi.org/10.3390/app132413039)
- A11. S.Y. He, A. Cozza, Y.Z. Xie, "Fault-Location Accuracy of Natural Frequencies Using Incomplete HVDC Station Models", *IEEE Transactions on Power Delivery* (2023).

- A12. Paul Lagouanelle, Fabio Freschi, Lionel Pichon. Adaptive Sampling for Fast and Accurate Metamodel-Based Sensitivity Analysis of Complex Electromagnetic Problems. IEEE Transactions on Electromagnetic Compatibility, 2023, 65 (6), pp.1820-1828. <10.1109/TEMPC.2023.3320285>. <hal-04242561>

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- A13. Yao Pei, Lionel Pichon, Yann Le Bihan, Mohamed Bensetti, and Philippe Dessante. Fast Shielding Optimization of an Inductive Power Transfer System for Electric Vehicles. IEEE Access, 10:91227-91234, 2022a. doi: [0.1109/ACCESS.2022.3198953](https://doi.org/10.1109/ACCESS.2022.3198953). URL <https://hal.science/hal-03768310>.
- A14. Y. Pei, L. Pichon, M. Bensetti, Y. Le Bihan, "Multiobjective optimization based on polynomial chaos expansions in the design of inductive power transfer systems", COMPEL- International journal for computation and mathematics in electrical and electronic engineering, ISSN: 0332-1649 , publication date: Avril 2022 <https://doi.org/10.1108/COMPEL-10-2021-0393>
- A15. W. Kabbara, M. Bensetti, T. Phulpin, A. Caillierez, S. Ludot et D.Sadarnac, "A Control Strategy to Avoid Drop and Inrush Currents during Transient Phases in a Multitransmitters DIPT System", MDPI *Energies* 2022, 15(8), 2911; <https://doi.org/10.3390/en15082911>
- A16. Adel Razek Biological and Medical Disturbances Due to Exposure to Fields Emitted by Electromagnetic Energy Devices—A Review. *Energies*, 2022, 15 (12), pp.4455. [10.3390/en15124455](https://doi.org/10.3390/en15124455)
- A17. Adel Razek, Review of Contactless Energy Transfer Concept Applied to Inductive Power Transfer Systems in Electric Vehicles. *Applied Sciences*, 2021, 11 (7), pp.3221. [10.3390/app11073221](https://doi.org/10.3390/app11073221).
- A18. Fatiha Mghar, Antoine Diet, Chadi Gannouni, Lionel Pichon, Olivier Meyer, et al.. Characterization of an Intra-Body Wireless Link in the UHF Band. *Progress In Electromagnetics Research M*, 2022, 111, pp.247-259. <10.2528/PIERM22031103>. <hal-03736516>.
- A19. Paul Clerico, Lionel Pichon, Xavier Mininger, Olivier Dubrunfaut, Florian Monsef, et al.. Assessment of Broadband Shielding Effectiveness of Composite Panels for Protective Enclosures. IEEE Transactions on Electromagnetic Compatibility, 2022, 65 (4), pp.1750-1757. <10.1109/TEMPC.2022.3199904>. <hal-03768311v2>

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- A20. K. Kadem, M. Bensetti, Y. Le Bihan, E. Labouré and M. Debbou, "Optimal Coupler Topology for Dynamic Wireless Power Transfer for Electric Vehicle", *Energies*, 14(13):3983, July 2021a. doi: [10.3390/en14133983](https://doi.org/10.3390/en14133983). URL <https://hal.archives-ouvertes.fr/hal-03285350>.
- A21. Y. Pei, Y. Le Bihan, M. Bensetti, and L. Pichon, "Comparison of Coupling Coils for Static Inductive Power-Transfer Systems Taking into Account Sources of Uncertainty", *Sustainability*, 13(11):6324, June 2021a. doi: [10.3390/su13116324](https://doi.org/10.3390/su13116324). URL <https://hal.archives-ouvertes.fr/hal-03250731>.
- A22. G. Al Achkar, L. Pichon, M. Bensetti, L. Daniel, "Homogenization of metal grid reinforced composites for near-field low-frequency magnetic shielding "

- Progress In Electromagnetics Research M, EMW Publishing, 2021, 99, pp.153-163. . doi: [10.2528/PIERM20052402](https://doi.org/10.2528/PIERM20052402). URL <https://hal.archives-ouvertes.fr/hal-03089059>.
- A23. K. Kadem, F. Benyoubi, M. Bensetti, Y. Le Bihan, E. Labouré and M. Debbou, "An Efficient Method for Dimensioning Magnetic Shielding for an Induction Electric Vehicle Charging System", Progress In Electromagnetics Research, Vol. 170, 153-167, 170:153{167, 2021b. doi:[10.2528/PIER21031903](https://doi.org/10.2528/PIER21031903). URL <https://hal.archives-ouvertes.fr/hal-03248083>.
- A24. Ghida Al Achkar, Lionel Pichon, Laurent Daniel. Homogenization of woven composites for shielding applications: the case of oblique incidence. Journal of Electromagnetic Waves and Applications, 2021, Vol. 36, n°4, pp. 568-578. <10.1080/09205071.2021.1975574>. <hal-03347225>.
- A25. Yu Liu, Delong He, Olivier Dubrunfaut, Anne Zhang, Lionel Pichon, et al.. In-situ Growing Carbon Nanotubes on Nickel Modified Glass Fiber Reinforced Epoxy Composites for EMI Application. Applied Composite Materials, 2021, 28 (3), pp.777 - 790. <10.1007/s10443-021-09894-y>. <hal-03197586>.
- A26. Yu Liu, Delong He, Olivier Dubrunfaut, Anne Zhang, Lionel Pichon, et al.. Hybrids of glass fibers coated with carbon nanotubes and nickel for high-performance electromagnetic wave absorption composites. Journal of Applied Polymer Science, 2021, 139 (9), pp.51727. <10.1002/app.51727>. <hal-03374095>.
- A27. Paul Clerico, Lionel Pichon, Xavier Mininger, Olivier Dubrunfaut, Chadi Gannouni, et al.. Design of a Lightweight Multilayered Composite for DC to 20 GHz Electromagnetic Shielding. Electronics, 2021, 10 (24), pp.3144. <10.3390/electronics10243144>. <hal-03507736>.
- A28. Paul Lagouanelle, Oriano Bottauscio, Lionel Pichon, Mauro Zucca. Impact of parameters variability on the level of human exposure due to inductive power transfer. IEEE Transactions on Magnetics, 2021, 57 (6), pp.1-4. <10.1109/TMAG.2021.3062702>. <hal-03154381>.
- A29. Xiaoxin Lu, Lionel Pichon, Jinbo Bai. Multiscale modeling and numerical analyses of the electric conductivity of CNT/polymer nanocomposites taking into account the tunneling effect. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2021, 34 (6), <10.1002/jnm.2955>. <hal-03347228>

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- A30. A Cozza, SY He, YZ Xie, "Surge Compression for Improved Fault Location Accuracy in Full Transient-Based Methods", IEEE Sensors Journal. 2020
- A31. 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.
- A32. 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>

- A33. 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.C.2019.2931764](https://doi.org/10.1109/TEM.C.2019.2931764). URL: <https://hal.archives-ouvertes.fr/hal-02313588>
- A34. 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
- A35. 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)
- A36. 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>
- A37. 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>
- A38. 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.C.2020.2965735](https://doi.org/10.1109/TEM.C.2020.2965735). URL <https://hal.archives-ouvertes.fr/hal-02522867>
- A39. 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>.
- A40. 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>.
- A41. Valentin Houchouas, Muriel Darces, Marc Hélier, Emmanuel Cottais and José 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).
- A42. Lionel Pichon, Electromagnetic analysis and simulation aspects of wireless power transfer in the domain of inductive power transmission technology.

Journal of Electromagnetic Waves and Applications, 34(13):1719{1755, 2020.
[doi: 10.1080/09205071.2020.1799870](https://doi.org/10.1080/09205071.2020.1799870). URL <https://hal.archives-ouvertes.fr/hal-02919639>.

- A43. 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>.
- A44. Yu Liu, Delong He, Olivier Dubrunfaut, Anne Zhang, Hanlu Zhang, et al.. GO-CNTs hybrids reinforced epoxy composites with porous structure as microwave absorbers. Composites Science and Technology, 2020, 200, pp.108450. {10.1016/j.compscitech.2020.108450}. {hal-02934148}

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- A45. 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
- A46. 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
- A47. 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 ...
- A48. 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. {10.30958/ajte.6-4-3}
- A49. Adel Razek , Lionel Pichon , Abelin Kameni , Ludovic Makong , Sahand Rasm Evaluation of Human Exposure owing to Wireless Power Transfer Systems in Electric Vehicles. Athens Journal of Technology & Engineering, 2019, 6 (4), 239-258.
- A50. Eva Dieudonné, Abelin Kameni, David Monchaux, and Lionel Pichon, Radio frequency attenuation by a rocket plume using diffraction theory and finite element modelling. Acta Astronautica, 158: 334-341, 2019.

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- A51. Moussa Kafal, Jaume Benoit, Andrea Cozza, and Lionel Pichon. Soft Fault Diagnosis in Wire Networks Using Time Reversal Concept and Subspace Methods Soft. International journal of digital information and wireless communications (IJDIWC), 8(2):85{89, 2018b. [doi: 10.17781/P002411](https://doi.org/10.17781/P002411). URL <https://hal-centralesupelec.archives-ouvertes.fr/hal-01802225>
- A52. Bouzid Kerrouche, Mohamed Bensetti, and Abdelhalim Zaoui, New EMI Model With the Same Input Impedances as Converter. IEEE Transactions on Electromagnetic Compatibility, pages 1 {10, July 2018. doi:

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- A53. Cozza, "Low frequency model-based identification of soft impedance faults in cables", IEEE Transactions on Instrumentation and Measurement 68 (10), 3524-3535 - 2018.
- A54. Adel Razek Towards an image-guided restricted drug release in friendly implanted therapeutics. European Physical Journal: Applied Physics, 2018, 82 (3), pp.31401. [10.1051/epjap/2018180201](https://doi.org/10.1051/epjap/2018180201).
- A55. Cozza, "Never trust a cable bearing echoes: Understanding ambiguities in time-domain reflectometry applied to soft faults in cables", IEEE Transactions on Electromagnetic Compatibility 61 (2), 586-589. 2018.
- A56. Abelin Kameni, Florent Loete, and Lionel Pichon. Time domain reflectometry model : analysis and characterization of a chafing defect in a coaxial cable. European Physical Journal: Applied Physics, 83, 2018. doi: 10.1051/epjap/2018170430. URL <https://hal.archives-ouvertes.fr/hal-01852189>.
- A57. P. Akiki, M-H. Hassan, M. Bensetti, P. Dessante, J-C. Vannier, D. Prieto and M. McClelland, "Multi-Physics Design of a V-shape IPM Motor. IEEE Transactions on Energy Conversion", February 2018a. doi: 10.1109/TEC.2018.2803072. URL <https://hal.archives-ouvertes.fr/hal-01713641>.
- A58. P.Akiki, M-H. Hassan, J-C. Vannier, M. Bensetti, D. Prieto, B. Dagus_e, and M. McClelland, "Non-Linear Analytical Model for a Multi-V-Shape IPM with Concentrated Winding", IEEE Transactions on Industry Applications, PP(99):1 { 1, January 2018b. doi: 10.1109/TIA.2018.2799175. URL <https://hal-centralesupelec.archivesouvertes.fr/hal-01698194>.

2. Communications dans des congrès internationaux

• 2023

- CI1. Hammen L., Pichon L., Le Bihan Y., Bensetti M., Fleury G. (2023). Immunity of active implantable medical devices to industrial magnetic field environments: impact of the field direction, BioEM2023, The 2nd Annual Conference Of BioEM, 18-23 juin 2023, Oxford (UK) (Royaume-Uni). Réf. HAL: [hal-04154897](https://hal.archives-ouvertes.fr/hal-04154897)
- CI2. Abelin Kameni, Den Palessonga, Zahraa Semmoumy and Mohamed Bensetti, Effective electromagnetic properties of composite material computed from neural network approach. In 13th International Symposium on Electric and Magnetic Fields, Marseille, 2023.
- CI3. Pei Y., Pichon L., Bensetti M., Le Bihan Y. (2023). Optimization of ferrite structures in inductive power transfer system for electric vehicles, 2023 IEEE INTERNATIONAL SYMPOSIUM ON ELECTROMAGNETIC COMPATIBILITY, SIGNAL & POWER INTEGRITY (EMC 2023), 31 juillet-4 août 2023, Grand Rapids, MI (États-Unis).. URL: <https://emc2023.org/>. DOI: <https://doi.org/10.1109/EMCSIP50001.2023.10241624>. Réf. HAL: [hal-04189128](https://hal.archives-ouvertes.fr/hal-04189128) - OA HAL.

- CI4. Yao Pei, Lionel Pichon, Mohamed Bensetti, Yann Le Bihan. OPTIMISATION DU BLINDAGE DE SYSTÈMES DE TRANSFERT D'ÉNERGIE SANS CONTACT POUR APPLICATION AUTOMOBILE. 21ème Colloque International et Exposition sur la Compatibilité ÉlectroMagnétique (CEM 2023), Jun 2023, Toulouse, France. <hal-04413880>
- CI5. Paul Lagouanelle, Charles Boulitrop, Lionel Pichon, F. Freschi, Marc Lambert. Gradient-based metamodel optimization for the design of 3F3 Ferrites Core in a WPT system. COMPUMAG 2023, the 24th International Conference on the Computation of Electromagnetic Fields, May 2023, Kyoto, Japan. <hal-04153335>

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- CI6. Pei Y., Bensetti M., Le Bihan Y., Pichon L., Kadem K. (2022). Comparison of Maximum Transmission Efficiency and Magnetic Flux Leakage for Different Coupling Coils in Inductive Power Transfer Systems, *The 7th Conference on Inductics (University-Industry)* , 10-11 mai 2022, Constantine (Algérie).. Réf. HAL: hal-03695332 - [OA HAL](#)
- CI7. Vinicius de Moraes, Wassim Kabbara, Mohamed Bensetti, and Tanguy Phulpin, " Modeling and Optimization of aNew Magnetic Coupler Topology for DIPT Systems". In 2022 IEEE 20th Biennial Conference on Electromagnetic Field Computation (CEFC), pages 1-2, Denver, United States, October 2022. IEEE. doi: 10.1109/CEFC55061.2022.9940633. URL <https://hal-centralesupelec.archives-ouvertes.fr/hal-04093791>.
- CI8. Amadou Bayaghiou Diallo, Mohamed Bensetti, Lionel Pichon, Christian Vollaie, and Arnaud Breard, "Scale Reduction for Rapid Prototyping of Wireless Power Transfer System for Electrical vehicules", In 2022 IEEE 20th Biennial Conference on Electromagnetic Field Computation (CEFC), pages 1-2, Denver, United States, October 2022. IEEE. doi: 10.1109/CEFC55061.2022.9940654. URL <https://hal-centralesupelec.archives-ouvertes.fr/hal-04118422>.
- CI9. Amadou Bayaghiou Diallo, Christian Vollaie, Arnaud Bréard, Mohamed Bensetti, and Lionel Pichon. "Co-simulation of Circuit/Circuit type Solvers for EMC Applications Using a New Relaxation Method", In EMC Europe, Göteborg, Sweden, September 2022. doi: 10.1109/EMCEurope51680.2022.9901244. URL <https://hal.science/hal-03779637>.
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- CI11. Lucien Hammen, Lionel Pichon, Yann Le Bihan, Mohamed Bensetti, and Gérard Fleury. " Testing immunity of active implantable medical devices to industrial magnetic field environments. In International Symposium and Exhibition on Electromagnetic Compatibility - EMC Europe, Göteborg, Sweden, September 2022. URL <https://hal.science/hal-03779559>.
- CI12. Wassim Kabbara, Mohamed Bensetti, Tanguy Phulpin, Antoine Caillerez, Serge Loudot, and Daniel Sadarnac, "Proposition and Comparison of Several Solutions for High Induced Voltage across Inactive Transmitting coils in a Series-Series Compensation", DIPT System. In EPE2022, Hanover, Germany, September 2022b. doi: 10.3390/xxxxx. URL <https://hal.science/hal-03786946>.

- CI13. Yao Pei, Karim Kadem, Lionel Pichon, Mohamed Bensetti, and Yann Le Bihan, "Performance Analysis of a 30 kW Dynamic Wireless Power Transfer System for Electric Vehicle. In Wireless Power Week (WPW), 2022, pages 844-848, Bordeaux, France, July 2022c. IEEE. doi:10.1109/WPW54272.2022.9901343. URL <https://hal.science/hal-03736610>.
- CI14. Ansaar Dada, Eric Labouré, Mohamed Bensetti, Xavier Yang, Benoît George, and Mathieu Caujolle. "Machine learning metamodeling of harmonic sources in LV distribution networks". In 20th International conference on harmonics and quality of power, Naples, Italy, May 2022. URL <https://hal.science/hal-03687768>.
- CI15. Paul Clerico, Lionel Pichon, Olivier Dubrunfaut, Xavier Mininger, Chadi Gannouni, et al.. Performances of multilayer composite materials for broadband shielding. 2022 IEEE International Symposium on Electromagnetic Compatibility & Signal/Power Integrity (EMCSI), Jul 2022, Spokane, United States. pp.54-58, (10.1109/EMCSI39492.2022.9889611). (hal-03788216)

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- CI16. Wassim Kabbara, Mohamed Bensetti, Tanguy Phulpin, Daniel Sadarnac, Antoine Caillierez, and Serge Loudot. Wireless charging system for an in-motion EV. In international conference on mobility challenges, Paris, France, December 2021. URL <https://hal.sorbonne-universite.fr/hal-03664903>.
- CI17. A. Dada, E. Labouré, M. Bensetti, X. Yang, F. Couronné, M. Caujolle, "Enhanced machine learning method for nonlinear harmonic source modelling", The 26th International Conference and Exhibition on Electricity Distribution, online conference 21-23 september 2021, DOI: [10.1049/icp.2021.1541](https://doi.org/10.1049/icp.2021.1541)
- CI18. Yao Pei, Lionel Pichon, Mohamed Bensetti, and Yann Le Bihan, "Multi-objective Optimization based on Polynomial Chaos Expansions in the Design of Inductive Power Transfer Systems", In 6th International Workshop on Optimization and Inverse Problems in Electromagnetism, Szczecin, Poland, September 2021b. URL <https://hal.archives-ouvertes.fr/hal-03374275>.
- CI19. Ghida Al Achkar, Mohamed Bensetti, Lionel Pichon, and Laurent Daniel, « Blindage Basse-Fréquence de Matériaux Composites à Grilles Métalliques », In 20ème congrès de Compatibilité Electromagnétique, Lyon, France, June 2021b. URL <https://hal.archives-ouvertes.fr/hal-03296903>.
- CI20. Paul Clerico, Lionel Pichon, Xavier Mininger, He Delong, Olivier Dubrunfaut, et al.. Design of a wide frequency band composite shield. 20th International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering, 2021, Lodz, Poland. (hal-03403007)
- CI21. Paul Lagouanelle, Fabio Freschi, Lionel Pichon. Identification of main factors impacting human exposure in inductive power transfer systems. Mathematical and Statistical Methods for Metrology, Jun 2021, Turin, Italy. (hal-03296346)
- CI22. Paul Lagouanelle, Giulia Di Capua, Nicola Femia, Fabio Freschi, Antonio Maffucci, et al.. Sensitivity analysis in dynamic WPT systems based on non-intrusive stochastic methods. International Conference on Synthesis, Modeling,

Analysis and Simulation Methods and Applications to Circuit Design, Jul 2021, Erfurt (virtual), Germany. <hal-03296266>

CI23. Ghida Al Achkar, Mohamed Bensetti, Lionel Pichon, Laurent Daniel. Blindage Basse-Fréquence de Matériaux Composites à Grilles Métalliques. 20ème congrès de Compatibilité Electromagnétique, Jun 2021, Lyon, France. <hal-03296903>

CI24. Etse Kokouvi, Lionel Pichon, Mohamed Touré, Mariem Ksouri. Efficient sensitivity analysis of the EMC BCI test. 20th International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering, 2021, Lodz, Poland. <hal-03779642>

CI25. Ghida Al Achkar, Lionel Pichon, Laurent Daniel. Composite materials for electromagnetic shielding applications: multiscale modeling via semi-analytical homogenization techniques. Coupled problems 2021, Jun 2021, On line, Italy. <hal-03296332>

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- CN2. Paul Clerico, Lionel Pichon, Xavier Mininger, Olivier Dubrunfaut, Florian Monsef, et al.. Assessment of Broadband Shielding Effectiveness of Composite Panels for Protective Enclosures. Journées scientifiques d’URSI-France - L’ÉNERGIE AU CŒUR DES ONDES RESSOURCES ET ENVIRONNEMENT : GESTION "INTELLIGENTE", Mars 2023, Gif-sur-Yvette, France. (hal-04411873)
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4. Conférences Invitées

- CINV1. Bensetti M. (2022). Systèmes de transfert d'énergie sans contact par induction dans le domaine automobile – Choix topologique et exposition au champ magnétique, *7ème Colloque sur l'inductique*, 10 mai 2022, CONSTANTINE (Algérie). Réf. HAL: [hal-03688165](https://hal.archives-ouvertes.fr/hal-03688165)
- CINV2. A. Cozza, "Time-Reversal Imaging Techniques for soft-fault detection in cable networks", 2018 IEEE Symposium on Electromagnetic Compatibility, Signal Integrity and Power Integrity (EMC, SI & PI).
- CINV3. L. Pichon, S. Hedia, J. Ben Hadj Slama, Time Reversal for Identification of Transient Sources in Power Electronics, General Assembly and Scientific Symposium, URSI GASS 2021 (Special Session Time reversal in electromagnetics), Rome, Italie.
- CINV4. Y. Pei, P. Lagouanelle, L. Pichon, Uncertainty quantification and metamodeling in the design of inductive power transfer systems, 2021 Joint IEEE International Symposium on Electromagnetic Compatibility, Signal & Power Integrity, and EMC Europe
- CINV5. L. Pichon, Workshop MICEV clôturant le projet européen en 2020 : Statistical approaches and dosimetry

5. Brevets :

- BR1. K. KADEM, É. LABOURÉ, M. BENSETTI, Y. LE BIHAN, M. DEBBOU, « Coupleur inductif et système de recharge par induction magnétique pour véhicules électriques et hybrides », Numéro d'enregistrement INPI : FR1903756, (GeePs/Vedecom)
- BR2. K. KADEM, É. LABOURÉ, M. BENSETTI, F. CHERIET, M. DEBBOU, « Piste de recharge inductive pour véhicules électrifiés et système de recharge dynamique l'incorporant », Numéro d'enregistrement INPI : FR1908818. (GeePs/Vedecom)

6. Chapitre d'ouvrage

Sassia Hedia, Bessem Zitouna, Jaleddine Ben, Lionel Pichon. Study of electromagnetic radiation sources using time-reversal: Application to a power electronic converter. Electromagnetic Compatibility, IntechOpen Book Series, 2021, Recent Topics in Electromagnetic Compatibility, 978-1-83969-668-8. (10.5772/intechopen.100611). (hal-03421029)

7. Ouvrage

Peter Ankarson, Oriano Bottauscio, Bob Clarke, Fabio Freschi, Roberta Guilizzone, et al.. Best practice guide for the assessment of EMF exposure from vehicle Wireless Power Transfer systems. 2021. (hal-03312964)