

**LISTA LUCRĂRILOR PUBLICATE****dr.ing. Claudia Violeta Pop**Departamentul de Masini si Actionari Electrice  
Universitatea Tehnică din Cluj-Napoca**Teza de doctorat**

Titlu: Electromagnetic Propulsion System with Two Transmission Stages

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**Lucrari Stiintifice**

1. **Claudia V. Pop, D. Fodorean, D.C. Popa** – *Structural Analysis of an In-Wheel Motor with Integrated Magnetic Gear Designed for Automotive Applications*, *Sustainability* 2022, 14(19), 12007.
2. **Claudia. V. Pop, M. Essaid, L. Idoumghar and D. Fodorean**, "Novel Differential Evolutionary Optimization Approach for an Integrated Motor-Magnetic Gear Used for Propulsion Systems," in *IEEE Access*, vol. 9, pp. 142114-142128, 2021, doi: 10.1109/ACCESS.2021.3119523.
3. **Claudia V.Pop, et al.** "Structural behavior evaluation of an in-wheel motor based on numerical and experimental approach. *Electrical Engineering (Springer)*, DOI: 10.1007/s00202-019-00774-0, Volume 102, Nr.1, pp.65-74, March 2020, ISSN 0948-7921.
4. **Claudia. V. Pop, D. Fodorean, C. Husar and C. Irimia**, "Noise and vibration analysis of an in-wheel motor with integrated magnetic gear dedicated for light electric application," *2019 8th International Conference on Modern Power Systems (MPS)*, Cluj Napoca, Romania, 2019, pp. 1-5, doi: 10.1109/MPS.2019.8759742.
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9. **Claudia V.Pop**; FODOREAN, Daniel. Magnetic multiplier for EV transmission—analytical and numerical aspects. *Acta Electrotehnica*, Volume 57, Number 3-4, 2016, ISSN 2344-5637
10. **Claudia. V. Pop** and D. Fodorean, "In-wheel motor with integrated magnetic gear for extended speed applications," *2016 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM)*, Anacapri, 2016, pp. 413-418, doi: 10.1109/SPEEDAM.2016.7525873.
11. **Claudia. V. Pop** and D. Fodorean, "Purely Electromagnetic Propulsion System With Two Transmission Levels—Design, Numerical, and Experimental Results," in *IEEE Transactions on Industrial Electronics*, vol. 70, no. 5, pp. 4494-4504, May 2023
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13. **Claudia V.Pop**, and D. Fodorean. "State of the art of Multiport Electrical Machines and Magnetic Gears with respect to Wind Power Generation Application." *RE&PQJ* 20.1 (2022).
14. D. Fodorean, **Claudia V. Pop** and D. -C. Popa, "Electromagnetic and Structural Analysis of an Induction Motor with Copper Rotor Bars used in Automotive Applications," *2021 IEEE 6th International Forum on Research and Technology for Society and Industry (RTSI)*, Naples, Italy, 2021, pp. 340-345