

**Din 2022–prezent:** Autor sau coautor a 13 lucrări științifice indexate în baze de date internaționale (ISI/BDI), dintre care:

- 7 articole publicate în reviste indexate Web of Science-WoS (ISI);
- 6 lucrări indexate în baze de date internaționale (BDI).

### **Lucrări științifice publicate în reviste indexate Web of Science-WoS (ISI)**

1. I. Fărcean, G. Proștean, A. Socalici, E. Ardelean, „Recovery processes of small and powdered iron-containing waste, from the steel industry”, *Acta Polytechnica Hungarica*, vol. 22, no. 5, pp. 53-69, March 2025, FI 1.4, Q2 (WOS:001516650800002).
2. I. Fărcean, G. Proștean, E. Ardelean, „Management of material flows in the steel industry. Case study: Elaboration of steel in an electric arc furnace”, *Acta Technica Napocensis Series: Applied Mathematics, Mechanics, and Engineering*, vol. 67, no. 2, pp. 323-332, Jun 2024, FI 0.1, Q4 (WOS:000953026700020).
3. I. Fărcean, G. Proștean, A. Socalici, E. Ardelean, M. Ardelean, „Development of a waste management strategy in a steel company”, *Sustainability*, vol. 16, no. 11, pp. 1-16, May 2024, FI 3.3, Q2 (WOS:001245351900001).
4. I. Fărcean, G. Proștean, E. Ardelean, „Management of material resources in the steel industry”, *U.P.B. Sci.Bull. Series B-Chemistry and Materials Science*, vol. 86, no. 1, pp. 236-250, March 2024, FI 0.3, Q4 (WOS:001196525500009).
5. A. Socalici, A. Bobora, C. Birtok Baneasa, I. Fărcean, O. Lupu, „Recovery of powdery waste with iron content in the steel industry”, *U.P.B. Sci.Bull. Series B-Chemistry and Materials Science*, vol. 86, no. 2, pp. 236-244, June 2024, FI 0.3, Q4 (WOS:001247485400019).
6. I. Fărcean, G. Proștean, E. Ardelean, „Life cycle analysis of steel made in the electric arc furnace with eccentric bottom tapping”, *U.P.B. Sci.Bull. Series B-Chemistry and Materials Science*, vol. 85, no. 3, pp. 219-230, August 2023, FI 0.3, Q4 (WOS:001052966300019).
7. I. Fărcean, G. Proștean, E. Ardelean, „Circular and green economy in the case of waste management that contain iron”, *Acta Technica Napocensis Series: Applied Mathematics, Mechanics, and Engineering*, vol. 65, no. 3, pp. 685-694, November 2022, FI 0.1, Q4 (WOS:000953026700020).

### **Lucrări științifice publicate în reviste de specialitate indexate BDI**

1. I. Fărcean, „Expanding the raw material base in the steel industry”, *International Journal on Engineering Energy and Electronics (IJEEE)*, vol. 2, no. 1, pp. 1-11, January 2024 (Google Scholars).
2. A. Bobora, O. Lupu, I. Fărcean, A. Socalici, „Valorification of ferrous sludges resulting from the steel industry”, *International Journal on Engineering Energy and Electronics (IJEEE)*, vol. 1, no. 1, pp. 38-43, June 2023 (Google Scholars).
3. I. Fărcean, G. Proștean, E. Ardelean, A. Socalici, „Management and characterisation of industrial waste containing iron”, *Acta Technica Corviniensis – Bulletin of Engineering*, Tome XVI, Fascicule 3, pp. 51-56, September 2023 (ProQuest).
4. I. Fărcean, G. Proștean, E. Ardelean, A. Socalici, A. Bobora, „Qualitative characterisation of small and powdery waste with iron content”, *Annals of Faculty of*

*Engineering Hunedoara – International Journal of Engineering*, Tome XXI, Fascicule 3, pp. 33-38, August 2023 (ProQuest).

5. I. Fărcean, G. Proștean, A. Socalici, „Methods and techniques used in recycling projects for waste containing iron”, *Acta Technica Corviniensis – Bulletin of Engineering*, Tome XV, Fascicule 4, pp. 49-54, October 2022 (ProQuest).

### **Lucrări științifice publicate în volumele unor manifestări științifice (Proceedings) indexate BDI**

1. I. Fărcean, G. Proștean, A. Socalici, „Sustainable development indicators in the steel industry”, *Journal of Physics: Conference Series - International Conference on Applied Sciences (ICAS 2022)*, vol. 2540, no. 1, pp. 1-12, May 2023 (SCOPUS).

### **Distincții onorifice și premii**

- **2025 – Medalie de Aur**, Salonul Internațional INVENTCOR, Deva, România.
- **2024 – Medalie de Aur**, Salonul Internațional INVENTCOR, Deva, România.
- **2023 – Medalie de Aur**, Salonul Internațional INVENTCOR, Deva, România.
- **2023 – Medalie de Aur**, Salonul Internațional INVENTCOR, Deva, România.
- **2022 – Certificat de apreciere**, Expoziția de Inventică „IDEA”, Szolnok, Ungaria.
- **2022 – Medalie de Bronz**, Salonul Internațional INVENTICA, Iași, România.
- **2018 – Diplomă „Student Eminent”**, Asociația Orizonturi Universitare, Timișoara, România.