



## LISTA DE LUCRĂRI ȘTIINȚIFICE

Candidat: Kacsó Alex-Barna

### a) Teza de doctorat

1. Titlul tezei: *Integrarea nanoparticulelor în aliaje metalice pe bază de Ti pentru aplicații biomedicale inteligente* – în curs de elaborare (student doctorand anul II). Domeniul: Inginerie Industrială, UMFST „George Emil Palade” din Târgu Mureș.

### b) Articole/studii in extenso, publicate în reviste din fluxul științific internațional principal

#### i. Articole în reviste cotate ISI

1. **Kacsó, A.-B.**; Matekovits, L.; Peter, I. Titanium Alloys at the Interface of Electronics and Biomedicine: A Review of Functional Properties and Applications. *Electron. Mater.* 2026, 7(1), 1. DOI: 10.3390/electronicmat7010001, ISSN: 2673-3978, FI: 1,64, Q3.
2. Peter, I.; Strnad, G.; **Kacsó, A.-B.**; Spotorno, R. Characterization of anodized Ti-based alloys: wettability, corrosion resistance, and biomechanical performance. *IEEE Access.* 2025, 13, 213508-213522. DOI: 10.1109/ACCESS.2025.3645698, ISSN: 2169-3536, FI: 3,6, Q2, autor corespondent.
3. **Kacsó, A.-B.**; Peter, I. A Review of Past Research and Some Future Perspectives Regarding Titanium Alloys in Biomedical Applications. *J. Funct. Biomater.* 2025, 16, 144. DOI: 10.3390/jfb16040144, ISSN: 2079-4983, FI: 5,2, Q2.

#### ii. Articole în reviste indexate BDI

1. **Kacsó, A.-B.**; Peter, I. Current Applications and Future Directions of Titanium-Based Biomaterials in Medicine. *Acta Marisiensis. Seria Technologica.* 2025, 22(2), 47-55. Indexat în BDI (EBSCO, DOAJ), DOI: 10.62838/amset-2025-0017.
2. Lăutariu, G. C.; **Kacsó, A.-B.** Reducing Defects and Enhancing Gear Performance through Advanced Quality Planning. *Acta Marisiensis. Seria Technologica.* 2025, 22(2), 8-13. Indexat în BDI (EBSCO, DOAJ), DOI: 10.62838/amset-2025-0011.
3. **Kacsó, A.-B.**; Peter, I. Evolution and Advancements in Titanium Alloys for Biomedical Applications: a Focus on Nanoparticle Enhancements. *Acta Marisiensis. Seria Technologica.* 2025, 22(1), 21-27. Indexat în BDI (EBSCO, DOAJ), DOI: 10.62838/amset-2025-0004.
4. **Kacsó, A.-B.** Optimization and design of a manufacturing line for automotive products. *Acta Marisiensis. Seria Technologica.* 2024, 21(2), 26-30. Indexat în BDI (EBSCO, DOAJ), DOI: 10.62838/amset-2024-0014.

### c) Publicații in extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate

Nu este cazul.



**d) Alte lucrări și contribuții științifice (Rezumate / Book of Abstracts la conferințe internaționale)**

1. **Kacsó, A.-B.**; Croitoru, C.; Peter, I. Effect of anodization voltage on ti6al4v nanotube formation and drug incorporation considerations. *BRAMAT 2026, 14th International Conference on Materials Science & Engineering*. Book of Abstracts, 2026, II.O.17, 46-47.
2. **Kacsó, A.-B.**; Peter, I. Smart nanostructured surfaces on  $\beta$ -Ti alloys for future drug-releasing implants. *UMFST, University Days, International Conference of PhD Students and Young Doctors*. Book of Abstracts, 2025, 8, 238. ISSN 2602-1609.
3. **Kacsó, A.-B.**; Peter, I. Unlocking the future: Nanoparticle integration in Ti-based metal alloys for advanced biomedical applications. *UMFST, University Days, International Conference of PhD Students and Young Doctors*. Book of Abstracts, 2024, 7, 196. ISSN 2602-1609.

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