

**LISTA PUBLICAȚIILOR REZULTATE ÎN URMA CERCETĂRII DOCTORALE,
PUBLICATE SAU ACCEPTATE SPRE PUBLICARE, SUB AFILIERE UPT**

Ing. Raul-Alexandru SZAKAL student doctorand

1. Lucrări științifice publicate în reviste indexate Web of Science-WoS (ISI)

1. **R. A. Szakal**, A. Doman, and S. Muntean, "Influence of the reshaped elbow on the unsteady pressure field in a simplified geometry of the draft tube," *Energies*, Article vol. 14, no. 5, 2021, Art. no. 1393., Impact Factor 2022: 3.004 (Clarivate Analytics), WOS:000628195000001
2. **R.A. Szakal**, D. Mecea, A. I. Bosioc, I. Borbáth, and S. Muntean, "Design and testing a magneto-rheological brake with cylindrical configuration" *Proceedings of the Romanian Academy - Series A: Mathematics, Physics, Technical Sciences, Information Science*, vol. 22, pp. 189-197, 06/30 2021, Impact Factor 2022: 1.523 (Clarivate Analytics), WOS:000667515100010

2. Lucrări științifice publicate în volumele unor manifestări științifice (Proceedings) indexate Web of Science-WoS (ISI) Proceedings

1. . R. F. Susan-Resiga, C. Popescu, **R. Szakal**, S. Muntean, and A. Stuparu, "A benchmark test case for swirling flows: Design of the swirl apparatus, experimental data, and numerical challenges," in *IOP Conference Series: Earth and Environmental Science*, 2019, vol. 240, WOS:000560282602052.
2. C. Tanasa, **R. Szakal**, D. Mos, T. Ciocan, and S. Muntean, "Experimental and numerical analysis of decelerated swirling flow from the discharge cone of hydraulic turbines using pulsating jet technique," in *IOP Conference Series: Earth and Environmental Science*, 2019, vol. 240, WOS:000560282600010.
3. **R. A. Szakal**, D. Susan-Resiga, S. Muntean, L. Vekas, *Magnetorheological Fluids Flow Modelling Used in a Magnetorheological Brake Configuration (2019 International Conference on Energy and Environment)*. 2019, pp. 403-407, WOS:000630902700084.
4. S. Muntean, D. C. Moș, **R. A. Szakal**, A. I. Bosioc, and R. Susan-Resiga, "Influence of the elbow shape on the unsteady pressure field in decelerated swirling flows," in *IOP Conference Series: Earth and Environmental Science*, 2021, vol. 774, WOS:000712043400116.
5. **R. A. Szakal**, S. Muntean, A. I. Bosioc, R. Susan-Resiga, and L. Vékás, "3D numerical investigations of the swirling flow in a straight diffuser for the variable speed values of the rotor obtained with a magneto-rheological brake," in *IOP Conference Series: Earth and Environmental Science*, 2021, vol. 774, WOS:000712043400019.
6. A. I. Bosioc, **R. Szakal**, C. Tanasa and R. Susan-Resiga, "Experimental Investigation of a free runner concept downstream of Francis turbine", in *IOP Conference Series: Earth and Environmental Science*, 2022, vol 1079(1).
în curs de indexare (2020 indexată, dovadă lucrarea 5 de mai sus prezentată la aceeași conferință).

3. Lucrări științifice publicate în reviste de specialitate indexate BDI (cu specificarea BDI)

1. A. I. Bosioc, T. Ardelean, **R. Szakal**, S. Muntean, I. Borbath, and L. Vékás, "Experimental investigations of a MR clutch for a centrifugal pump," in *Advanced Structured Materials* vol. 98, ed, 2019, pp. 253-263, **indexată capitol de carte Scopus**
2. **R. A. Szakal**, A. I. Bosioc, S. Muntean, D. Susan-Resiga, and L. Vékás, "Experimental investigations of a magneto-rheological brake embedded in a swirl generator apparatus," in *Advanced Structured Materials* vol. 98, ed, 2019, pp. 265-279, **indexată capitol de carte Scopus**.

Data: 25.07.2023

AVIZAT, Conducător științific	ÎNTOCMIT, Student doctorand
Dr.ing. Muntean Sebastian, CS I	ing. Raul-Alexandru Szakal