

Universitatea Națională de Știință și Tehnologie POLITEHNICA București

Facultatea: Știința și Ingineria Materialelor

Departamentul: Procesarea Materialelor Metalice și Ingineria Mediului

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Gradul didactic: Conferențiar

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

A1. N. Șerban, *Studii și cercetări referitoare la extrudarea unghiulară în canale egale (ECAE) a aliajelor de aluminiu / Studies and researches regarding the equal channel angular extrusion (ECAE) of aluminium alloys*, conducător științific: Prof.univ.dr.ing. Rami ȘABAN, U.P.B., București, 2012.

B. Cărți și capitole în cărți publicate în ultimii 10 ani

B1. Gh. Iacob, F. Niculescu, N. Șerban, D. A. Micu, *Compozite metalice pentru industriile critice*, Editura MATRIX ROM (COD CNCIS 39), ISBN 978-606-25-0782-4, București, 2023, 200 pag.;

B2. N. Șerban, *Procesarea materialelor metalice prin extrudare unghiulară în canale egale. Aspecte teoretice și aplicații practice*, Editura MATRIX ROM (COD CNCIS 39), ISBN 978-606-25-0434-2, București, 2019, 195 pag.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

C1. V. D. Cojocaru, N. Șerban, E. M. Cojocaru, N. Zărnescu-Ivan*, B. M. Gălbinașu, *The Effect of Solution Treatment Duration on the Microstructural and Mechanical Properties of a Cold-Deformed-by-Rolling Ti-Nb-Zr-Ta-Sn-Fe Alloy*, Materials, ISSN 1996-1944, vol. 17, iss. 4, 2024, 864, 15 pag., [doi:10.3390/ma17040864](https://doi.org/10.3390/ma17040864), Indexed in ISI - Web of Science Core Collection / Science Citation Index Expanded - [WOS:001174838200001](https://www.scopus.com/record/display.url?eid=2-s2.0-85185839519), SCOPUS (DOC ID: [85185839519](https://www.scopus.com/record/display.url?eid=2-s2.0-85185839519));

C2. R. E. Hendea, D. Răducanu*, A. Claver, J. A. García, V. D. Cojocaru, A. Nocivin, D. Stanciu, N. Șerban, S. Ivănescu, C. Trișcă-Rusu, R. S. Campian, *Biodegradable Magnesium Alloys for Personalised Temporary Implants*, Journal of Functional Biomaterials, ISSN 2079-4983, vol. 14, iss. 8, 2023, 400, 16 pag., [doi:10.3390/jfb14080400](https://doi.org/10.3390/jfb14080400), Indexed in ISI - Web of Science Core Collection / Science Citation Index Expanded - [WOS:001056367800001](https://www.scopus.com/record/display.url?eid=2-s2.0-85168784906), SCOPUS (DOC ID: [85168784906](https://www.scopus.com/record/display.url?eid=2-s2.0-85168784906));

C3. D. Răducanu, A. Nocivin, V. D. Cojocaru, N. Șerban, N. Zărnescu-Ivan, R. E. Irimescu*, B. M. Gălbinașu, *Microstructural Considerations of a Multi-Pass Rolled Ti-Nb-Ta-Zr Alloy*, Materials, ISSN

1996-1944, vol. 16, iss. 8, 2023, 3208, 15 pag., [doi:10.3390/ma16083208](https://doi.org/10.3390/ma16083208), Indexed in ISI - Web of Science Core Collection / Science Citation Index Expanded - [WOS:000977352300001](https://www.scopus.com/documentDetails.do?poolID=WOS:000977352300001), SCOPUS (DOC ID: [85156123636](https://www.scopus.com/documentDetails.do?poolID=85156123636));

C4. V. Andrei, M. Turcin, **N. Serban**, I. V. Balkan*, *Simultaneous influence of rolling temperature and solubilization quenching conditions on structure and properties of a Zicral type aluminum alloy (class 7075)*, U.P.B. Scientific Bulletin, Series B: Chemistry and Materials Science, ISSN 1454-2331, vol. 85, iss. 4, 2023, pp. 297-306, Indexed in ISI - Web of Science Core Collection / Emerging Sources Citation Index - [WOS:001126670800016](https://www.scopus.com/documentDetails.do?poolID=WOS:001126670800016), INSPEC, SCOPUS (DOC ID: [85181733156](https://www.scopus.com/documentDetails.do?poolID=85181733156));

C5. D. Răducanu, V. D. Cojocaru, A. Nocivin*, R. E. Hendea, S. Ivănescu, D. Stanciu, C. Trișcă-Rusu, **N. Serban**, S. I. Drob, R. S. Campian, *Microstructure Evolution during Mechanical Alloying of a Biodegradable Magnesium Alloy*, Crystals, ISSN 2073-4352, vol. 12, iss. 11, 2022, 1641, 17 pag., [doi:10.3390/cryst12111641](https://doi.org/10.3390/cryst12111641), Indexed in ISI - Web of Science Core Collection / Science Citation Index Expanded - [WOS:000894545900001](https://www.scopus.com/documentDetails.do?poolID=WOS:000894545900001), SCOPUS (DOC ID: [85149456656](https://www.scopus.com/documentDetails.do?poolID=85149456656));

C6. A. Dan, M. L. Angelescu, **N. Serban**, E. M. Cojocaru, N. Zărnescu-Ivan, V. D. Cojocaru*, B. M. Gălbinașu, *Evolution of Microstructural and Mechanical Properties during Cold-Rolling Deformation of a Biocompatible Ti-Nb-Zr-Ta Alloy*, Materials, ISSN 1996-1944, vol. 15, iss. 10, 2022, 3580, 12 pag., [doi:10.3390/ma15103580](https://doi.org/10.3390/ma15103580), Indexed in ISI - Web of Science Core Collection / Science Citation Index Expanded - [WOS:000803664300001](https://www.scopus.com/documentDetails.do?poolID=WOS:000803664300001), SCOPUS (DOC ID: [85130694801](https://www.scopus.com/documentDetails.do?poolID=85130694801));

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C8. D. Răducanu, V. D. Cojocaru, V. A. Răducanu*, A. Nocivin, **N. Serban**, I. Cinca, E. M. Cojocaru, L. Moldovan, C. Trișcă-Rusu, I. V. Balkan, *Design and Optimization of a Curved-Crease-Folding Process Applied to a Light Metallic Structure*, Processes, ISSN 2227-9717, vol. 9, iss. 7, 2021, 1110, 22 pag., [doi:10.3390/pr9071110](https://doi.org/10.3390/pr9071110), Indexed in ISI - Web of Science Core Collection / Science Citation Index Expanded - [WOS:000677018100001](https://www.scopus.com/documentDetails.do?poolID=WOS:000677018100001), SCOPUS (DOC ID: [85109162933](https://www.scopus.com/documentDetails.do?poolID=85109162933));

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