

Universitatea Tehnică din Cluj-Napoca
 Facultatea de Construcții
 Departamentul Construcții Civile și Management
 Asist.dr.ing. Iernutan Razvan Andrei

LISTA

lucrărilor științifice în domeniul disciplinelor din postul didactic

A – Teza de doctorat

„PEREȚI DIN ZIDĂRIE DE BETON CELULAR AUTOCLAVIZAT CONFINAȚI CU BETON ARMAT DISPERS”

conducător științific : Prof.dr.ing. Pop Ioan

Universitatea Tehnică din Cluj-Napoca, Facultatea de Construcții

Suținere publică: 16.01.2015.

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

CĂRȚI

1. **Iernutan Razvan**, – *Pereți din zidărie de beton celular autoclavizat confinați cu beton armat dispers*. UTCN, Cluj-Napoca, 2017, ISBN978-606-737-159-8 , 190pagini.
2. Alexandru Netea, Daniela Lucia Manea, Claudiu Aciu, Elena Jumate, Florin Babota, Luminița Monica (Molnar (cas.)) Pleșa, **Răzvan Ierņuțan**, *Materiale de Construcții Chimie*, Editura UT PRESS, loc. CLUJ-NAPOCA, an 2019, ISBN 978-606-737-400-1, nr pagini 313.

C – Lucrări indexate ISI/BDI publicate

c1) Articole / studii publicate în reviste de specialitate de circulație internațională recunoscute (cotate ISI)

1. **Răzvan Andrei Iernutan**, Florin Babota, *Autoclaved Cellular Concrete (ACC) Masonry with Vertical Hollows Confined with Disperse Reinforced Concrete*, 10th International Conference Interdisciplinarity in Engineering, INTER-ENG 2016, 6-7 October 2016, Tirgu Mures, Romania, Procedia Engineering Volume 181, Pages 300-307 (2017).
2. Babota F. **Iernutan R.** Moga L. Munteanu C. Tamas F.- *Determining the optimal dimension of fixed shadowing the optimal of diminishing the energy consumption of the buildings in Romania*, -16 Edition National Tehnical Scientific conference- Oradea 23 Mar.2017, Pages 117-122(<http://arhiconoradea.ro/Conferinta/Vol.2017/A323-FINAL.pdf>)
3. Raluca Fernea Istoan, Daniela Lucia Manea, Luminita Monica Molnar (Cas. Plesa), **Răzvan Ierņuțan**, Mihaela Dumitran, *Acoustic and thermal properties of hemp-cement building materials*, 12th International Conference Interdisciplinarity in Engineering, *Procedia Manufacturing* 32 (2019) 208–215, <https://doi.org/10.1016/j.promfg.2019.02.204>
4. Babota, F, **Iernutan, RA**, *Calculation and analysis of corrected thermal resistance in a common dwelling building in Romania, in various thermal insulation options - The exterior wall*, 12TH INTERNATIONAL CONFERENCE INTERDISCIPLINARITY

- IN ENGINEERING (INTER-ENG 2018), Procedia Manufacturing, Volume32, Page442-449, DOI10.1016/j.promfg.2019.02.238, Published2019, Indexed2019-06-24
5. **Iernutan, RA**; Babota, F, Istoan, R, *Carbon Fibre Reinforced Aluminium Mesh Composite Materials*, 12TH INTERNATIONAL CONFERENCE INTERDISCIPLINARITY IN ENGINEERING (INTER-ENG 2018) Book SeriesProcedia Manufacturing, Volume32, Page901-907, DOI10.1016/j.promfg.2019.02.301, Published 2019, Indexed 2019-06-24, Tirgu Mures, ROMANIA, Date OCT 04-05, 2018
 6. **Iernutan, RA**, Babota, F, *Numerical simulations for autoclaved aerated concrete (AAC) masonry modules reinforced with columns of disperse reinforced concrete*, 12TH INTERNATIONAL CONFERENCE INTERDISCIPLINARITY IN ENGINEERING (INTER-ENG 2018), Book SeriesProcedia Manufacturing, Volume32, Page908-915 DOI10.1016/j.promfg.2019.02.302, Published2019, Indexed2019-06-24, Document TypeProceedings Paper, Conference, LocationTirgu Mures, ROMANIA, DateOCT 04-05, 2018

c2) Studii publicate la conferințe indexate în baze de date internaționale de referință în domeniul ingineriei civile (DBLP, ACM, IEEE, SCOPUS)¹

1. **Ierņuțan R. A.**, Comparative stress - specific deformation relationship for aac masonry and aac confined masonry with disperse reinforced concrete pylons. *Journal of applied engineering sciences, University of Oradea, Volume 4 (17), Issue 2/2014.*
2. **Ierņuțan R. A.**, Roman Pintican N., "Experimental determination of mechanical properties of aac masonry with vertical hollows confined with disperse reinforced concrete", *Buletinul Institutului Politehnic din IAȘI, Universitatea Tehnică „Gheorghe Asachi” din Iași Tomul LX (LXIV), Fasc. 4, 2014.*
3. **Ierņuțan R. A.**, Roman Pintican M. N., Faur A., Dumitran M., "Rehabilitation of masonry buildings using seismic isolation systems in the base – case study by", *Buletinul Institutului Politehnic din IAȘI, 2014.*
4. Babota F., Ierņuțan R., Comparative consumption and cost analysis of heating using central heating unit (chu) respectively by condensation central heating unit (cchu) for buildings located in Romania, 17 th International Multidisciplinary Scientific GeoConference SGEM 2017 –Sofia, Bulgaria 2017
5. **Ierņuțan Razvan Andrei**, Plesa Luminita Monica (2023). Assessment of the Safety Level for a Structural Wall Belonging to a Building with an ACC Masonry Structure Confined by Dispersed Reinforced Concrete Columns. In: Moldovan, L., Gligor, A. (eds) *The 16th International Conference Interdisciplinarity in Engineering. Inter-Eng 2022. Lecture Notes in Networks and Systems, vol 605. Springer, Cham.* https://doi.org/10.1007/978-3-031-22375-4_22.
6. **Răzvan Andrei IERNUTAN**, Luminița Monica PLEȘA, Fixings that Ensure the Free Movement of the Structure for Resistance in Relation to Non-Structural Walls, *The Annals of "Dunarea de Jos" University of Galati, Fascicle IX, Metallurgy and Materials*

¹ indexate în:

[IEEE] - IEEE Xplore (<http://ieeexplore.ieee.org/Xplore/guesthome.jsp>)

[ACM] - ACM portal (<http://portal.acm.org>)

[DBLP] - (<http://www.informatik.uni-trier.de>)

[SCOPUS] - (<http://www.scopus.com>)

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<https://journals.indexcopernicus.com/search/article?articleId=3601763>

7. **Razvan Andrei IERNUTAN**, *Laminated Composite Materials Obtained by Lamination with Carbon Fiber*, 2022/9/15, Jurnal, The Annals of "Dunarea de Jos" University of Galati. Fascicle IX, Metallurgy and Materials Science, Volumul 45, Numărul 3, Pagini 37-41.

D – Lucrări publicate în reviste și volume de conferințe cu referenți (neindexate)

1. **Ierņuțan R. A.**, Jumate E., Molnar L., „Closing and division walls in buildings situated in seismic areas”, *First International Conference for PhD students in Civil Engineering, CE-PhD 2012*, Cluj-Napoca, Romania, 4-7 November 2012
2. **Ierņuțan R. A.**, Manea D. L., Aciu C., Babotă F., Molnar L. M., “Composite materials – Composite material reinforcements, reinforcement systems”, *C60 International Conference "Tradition and Innovation - 60 Years of Constructions in Transilvania"*, 2013
3. Manea D. L., Aciu C., Babotă F., **Ierņuțan R. A.**, Muntean L., Jumate E., “New building materials produced by the building materials’ them of the faculty of civil engineering of Cluj-Napoca”, *C60 International Conference "Tradition and Innovation - 60 Years of Constructions in Transilvania"*, 2013
4. Molnar L., Manea D. L., Aciu C., Babotă F., **Ierņuțan R. A.**, “Macroscopic properties of plastering mortars containing glass waste”, *C60 International Conference "Tradition and Innovation - 60 Years of Constructions in Transilvania"*, 2013
5. Babota F., Manea D. L., Aciu C., **Ierņuțan R.A.**, Molnar L., “Shading - the way for solar control and reduction of heat gain in buildings”, *C60 International Conference*, 7-9 November 2013, Cluj-Napoca, 9 November 2013
6. Aciu C., Manea D. L., Babota F., **Ierņuțan R.A.**, Molnar L., “Ecology and environmental protection in the building materials industry”, *C60 International Conference, Cluj-Napoca*, 7-9 November 2013
7. Claudiu Aciu, Daniela Lucia Manea, Elena Jumate, Florin Babota, **Răzvan Ierņuțan**, Luminita Pleșa, *Recycling of some waste materials in the composition of ecological mortars*, Proceedings of C65 International Conference – Tradition and Innovation – 65 Years of Construction in Transilvania, Editura U.T. PRESS, ISBN 978-606-737-326-4, pg. 61-62, 2018
8. **Răzvan Ierņuțan**, Daniela Lucia Manea, Claudiu Aciu, Elena Jumate, Florin Babota, Luminita Pleșa, Specific deformation relationship for AAC masonry and AAC confined masonry with disperse reinforced concrete pylons – Comparative stress, Proceedings of C65 International Conference – Tradition and Innovation – 65 Years of Construction in Transilvania, Editura U.T. PRESS, ISBN 978-606-737-326-4, pg. 65-66, 2018

9. Elena Jumate, Daniela Lucia Manea, Claudiu Aciu, Florin Babota, **Răzvan Ierņuan**, Luminita Pleřa, *The effects of powdered polymers in Portland cement based mortars by NMR*, Proceedings of C65 International Conference – Traditins and Innovation – 65 Years of Construction in Transilvania, Editura U.T. PRESS, ISBN 978-606-737-326-4, pg. 71-72, 2018

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