

Universitatea Tehnică din Cluj-Napoca
Facultatea de Construcții
Departamentul de Construcții Civile și Management
As.dr.ing. Elena Jumate

LISTA LUCRĂRILOR ȘTIINȚIFICE

A – Teza de doctorat

„Cercetări privind optimizarea compoziției mortarelor pe bază de ciment și polimeri”
conducător științific: Prof.dr.ing. Daniela Lucia Manea
Universitatea Tehnică din Cluj-Napoca
Susținere publică: 19.12.2013

B – Cărți publicate la edituri recunoscute

1. **Elena Jumate** – *Cercetări privind optimizarea compoziției mortarelor pe bază de ciment și polimeri*. Editura UTPRESS, Cluj-Napoca, 2015, ISBN 978-606-737-059-1, nr pagini 242.

C – Lucrări indexate ISI/ISI Proceedings

1. **E. Jumate**, D. Moldovan, R. Fechete and D. Manea. NMR relaxometry study of plaster mortar with polymer additives. *Processes in Isotopes and Molecules, AIP Conference Proceedings*, Vol. 1565(1), 2013, pp. 112-116, AIP Publishing, ISBN: 978-0-7354-1193-7.
2. **Elena Jumate**, Daniela Lucia Manea, Claudiu Aciu, Luminita Molnar, Radu Fechete. Innovative materials made by adding cellulose ethers to cement mortars. *Procedia Technology*, Vol. 19, 2015, pp 291 - 298, Published by Elsevier, ISSN 2212 – 0173.
3. Luminița Molnar, Daniela Manea, Claudiu Aciu, **Elena Jumate**. Innovative plastering mortars based on recycled waste glass. *Procedia Technology*, Vol. 19, 2015, pp 299 - 306, Published by Elsevier, ISSN 2212 – 0173.
4. Claudiu Aciu, Daniela Lucia Manea, Luminita Monica Molnar, **Elena Jumate**. Recycling of Polystyrene Waste in the Composition of Ecological Mortars. *Procedia Technology*, Vol. 19, 2015, pp 498 - 505, Published by Elsevier, ISSN 2212 – 0173.
5. Dana Maria Andreș, Daniela Lucia Manea, Radu Fechete, **Elena Jumate**. Clay mortar performance improvement by modifying the physical characteristics of wheat straw. *Procedia Technology*, Vol. 22, 2016, pp 335 - 342, Published by Elsevier, ISSN 2212 – 0173.
6. Dana Maria Andreș, Daniela Lucia Manea, Radu Fechete, **Elena Jumate**. Green plastering mortars based on clay and wheat straw. *Procedia Technology*, Vol. 22, 2016, pp 327 - 334, Published by Elsevier, ISSN 2212 – 0173.
7. **Elena Jumate**, Dumitrița Moldovan, Daniela Lucia Manea, Dan Eugen Demco, Radu Fechete. The Effects of Cellulose Ethers and Limestone Fillers in Portland Cement-Based Mortars by ¹H NMR relaxometry. *Applied Magnetic Resonance*, Vol. 47(12), 2017, pp 1353-1373, Published by Springer Vienna, ISSN 0937-9347.
8. **Elena Jumate**, Daniela Lucia Manea, Dumitrita Moldovan, Radu Fechete. The Effects of Hydrophobic Redispersible Powder Polymer in Portland Cement Based Mortars.

Procedia Engineering, Vol. 181, 2017, pp 316-323, Published by Elsevier, ISSN 1877-7058.

9. **E Jumate**, C Aciu, DL Manea, D Moldovan, R Chelcea, R Fechete. Plastering mortar with antibacterial and antifungal properties studied by 1H NMR relaxometry. *AIP Conference Proceedings*, Vol. 1917(1), 2017, pp 040007, AIP Publishing, ISBN 978-0-7354-1193-7.
10. Andrei Mustea, Daniela L Manea, **Elena Jumate**, Yvette A Orbán, Radu Fechete. Plaster mortars with polymer fibers and additives investigated by 1H NMR relaxometry. *AIP Conference Proceedings*, Vol. 1917(1), 2017, pp 040008, AIP Publishing, ISBN 978-0-7354-1193-7.

D - Reviste din țară recunoscute de către CNCSIS:

1. **Jumate Elena**, Manea Daniela Lucia. X-ray diffraction study of hydration processes in the Portland cement. *Journal of Applied Engineering Sciences*, Vol. 1 (14), 2011, pp. 79 – 86, Editura Universitatii din Oradea, ISSN 2247 – 3769.
2. **Jumate Elena**, Manea Daniela Lucia. Application of X Ray Diffraction (XRD) and Scanning Electron Microscopy (SEM) methods to the Portland cement hydration processes. *Journal of Applied Engineering Sciences*, Vol. 2 (15), 2012, pp. 35 – 42, Editura Universitatii din Oradea, ISSN 2247 – 3769.

E – Buletine științifice și conferințe internaționale

1. **Jumate Elena**, Manea Daniela Lucia, Studiul proceselor de hidratare a cimentului Portland prin difracția cu raze X, *Sesiune Națională De Comunicări Științifice Studențești*, Universitatea Tehnică din Cluj-Napoca, organizată în 6 mai 2011 la Facultatea de Construcții din Cluj-Napoca, Editura U.T.PRESS, ISSN 2247 – 2231.
2. Molnar Luminița Monica, **Jumate Elena**, Study of hydration processes of Portland cement paste using Nuclear Magnetic Resonance, Optical Microscopy and X- ray diffraction, *3rd Transylvanian NMR Workshop*, septembrie 2011.
3. Manea Daniela Lucia, Molnar Luminița Monica, Aciu Claudiu, Babotă Florin, Ierņuțan Răzvan, Muntean Lavinia, **Jumate Elena**, New Building materials produced by the team of building materials in the faculty of civil Engineering of Cluj-Napoca, *C60 International conference*, Tradition and Innovation - 60 years of Civil Engineering Higher Education in Transilvania, 7-9 November 2013, Cluj-Napoca, România, pag. 175 – 176.
4. **Jumate Elena**, Dumitrița Moldovan, Radu Fechete, Daniela Manea. The porosity and exchange processes in Portland cement pastes by 1D and 2D NMR relaxometry. *Proceedings of the First International Conference for PhD Students in Civil Engineering*, noiembrie, 4-7, 2012, Cluj-Napoca, Romania, pp. 421 – 427, ISBN 978-973-757-710-8.
5. Ierņuțan Răzvan, **Jumate Elena**, Molnar Luminița, Closing and division walls in buildings situated in seismic areas. *Proceedings of the First International Conference for PhD Students in Civil Engineering*, noiembrie, 4-7, 2012, Cluj-Napoca, Romania, pp. 487 – 492, ISBN 978-973-757-710-8.

Data:
29.05.2018

Semnătura:
As.dr.ing. Elena Jumate