

Listă de lucrări

Publicații didactice

Ioan Ardelean, **Mihai M Rusu** – Essential Physics for Engineers, U.T. Press, Cluj-Napoca, 2026, ISBN 978-606-737-831-3

Listă de lucrări

1. **M. M. Rusu**, K. Mostis, C. Costinas, I. Ardelean, Low-Field NMR for Carbon-Modified Cements: Dispersion and Hydration Studies. *Materials* **19**, 528 (2026).
2. **M. M. Rusu**, I. Ardelean, Relations Between the Printability Descriptors of Mortar and NMR Relaxometry Data. *Materials* **18**, 3070 (2025).
3. **M. M. Rusu**, R. A. Wahyuono, C. I. Fort, A. Dellith, J. Dellith, A. Ignaszak, A. Vulpoi, V. Danciu, B. Dietzek, L. Baia, Impact of drying procedure on the morphology and structure of TiO₂ xerogels and the performance of dye sensitized solar cells. *J. Solgel Sci. Technol.* **81** (2017).
4. I.-O. Toma, G. Stoian, **M.M. Rusu**, I. Ardelean, N. Cimpoșu, S.-M. Alexa-Stratulat, Analysis of Pore Structure in Cement Pastes with Micronized Natural Zeolite. *Materials* **16**, 4500 (2023).
5. **M. M. Rusu**, C. I. Fort, A. Vulpoi, L. Barbu-Tudoran, M. Baia, L. C. Cotet, L. Baia, Ultrasensitive Electroanalytical Detection of Pb²⁺ and H₂O₂ Using Bi and Fe—Based Nanoparticles Embedded into Porous Carbon Xerogel—The Influence of Nanocomposite Pyrolysis Temperatures. *Gels* **9**, 868 (2023).
6. I. Székely, Z. Kovács, **M. Rusu**, T. Gyulavári, M. Todea, M. Focșan, M. Baia, Z. Pap, Tungsten Oxide Morphology-Dependent Au/TiO₂/WO₃ Heterostructures with Applications in Heterogenous Photocatalysis and Surface-Enhanced Raman Spectroscopy. *Catalysts* **13**, 1015 (2023).
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8. **M. M. Rusu**, A. Vulpoi, C. Vilau, C. M. Dudescu, P. Pășcuță, I. Ardelean, Analyzing the Effects of Calcium Nitrate over White Portland Cement: A Multi-Scale Approach. *Materials* **16**, 371 (2022).
9. **M. M. Rusu**, D. Faux, I. Ardelean, Monitoring the Effect of Calcium Nitrate on the Induction Period of Cement Hydration via Low-Field NMR Relaxometry. *Molecules* **28**, 476 (2023).
10. **M. M. Rusu**, C. Vilau, C. Dudescu, P. Pascuta, F. Popa, I. Ardelean, Characterization of the Influence of an Accelerator upon the Porosity and Strength of Cement Paste by Nuclear Magnetic Resonance (NMR) Relaxometry. *Anal. Lett.*, 1–9 (2022).
11. **M. M. Rusu**, A. Vulpoi, I. Maurin, L. C. Cotet, L. C. Pop, C. I. Fort, M. Baia, L. Baia, I. Florea, Thermal Evolution of C–Fe–Bi Nanocomposite System: From Nanoparticle Formation to Heterogeneous Graphitization Stage. *Microscopy and Microanalysis*, 1–13 (2022).

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20. **M. Rusu**, M. Baia, Zs. Pap, V. Danciu, L. Baia, Structural investigations of TiO₂-WO₃-Au porous composites. *J. Mol. Struct.* **1073** (2014).

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