



(n.1957)

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Chimie anorganică
Chimia stării solide

Doctorat

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ALEXANDRA RALUCA IORDAN

Domenii de competență :

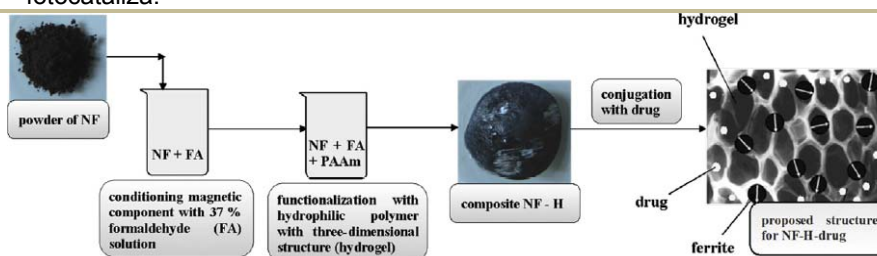
- **Chimie anorganică:** chimia metalelor, chimia nemetalelor, chimia compușilor coordinativi;
- **Materiale oxidice:** sinteză, caracterizare;
- **Cataliză eterogenă;**
- **Protecția mediului;**
- **Chimie bioanorganică.**

Domenii de cercetare :

- Oxizi polimetali: sinteză, caracterizare, aplicații în cataliză;
- Oxizi polimetali protecția mediului;
- Compozite de tip anorganic-anorganic;
- Compozite de tip anorganic-organic pentru eliberarea controlată a medicamentelor.

Cuvinte cheie :

alumină modificată, XPS, DRX, spectroscopie IR *in situ*, SEM, oxizi polimetali, ferite, sol-gel, eliberare controlată a medicamentelor, coating, cataliză heterogenă, fotocataliză.



Publicații (selectiv)

Iordan, A.R., Zaki, M.I., Kappenstein, C., Geron, C., XPS and in situ IR spectroscopic studies of CO/Rh/Al₂O₃ at high temperature probing the impact of the potassium functionalization of support, *Phys. Chem. Chem. Phys.*, 5, 1708, **2003**.

Iordan, A.R., Zaki, M.I., Kappenstein, C., Formation of carboxy species at CO/Al₂O₃ interfaces. Impacts of surface hydroxylation, potassium alkalization and hydrogenation as assessed by in situ FTIR spectroscopy, *Phys. Chem. Chem. Phys.*, 6(9), 2502, **2004**.

Iordan, A.R., Airimioaiei, M., Palamaru, M.N., Galassi, C., Sandu, A.V., Ciomagad, C.E., Prihor, F., Mitoseriu, L., Ianculescu, A., In situ preparation of CoFe₂O₄-Pb(ZrTi)O₃ multiferroic composites by gel-combustion technique, *Journal of the European Ceramic Society*, 29, 2807, **2009**.

Dumitrescu, A.M., Samoila, P.M., Nica, V., Doroftei, F., **Iordan, A.R.**, Palamaru, M.N., Study of the chelating/fuel agents influence on NiFe₂O₄ samples with potential catalytic properties, *Powder Technology*, 243, 9, **2013**.

Airimioaiei, M., Palamaru, M-N., **Iordan, A.R.**, Berthet, P., Decorse, C., Curecheriu, L., Mitoseriu, L., Structural Investigation and Functional Properties of Mg_xNi_{1-x}Fe₂O₄ Ferrites, *Journal of the American Ceramic Society*, 2014, 97, 519

Borhan, A.I., Samoila, P., Hulea, V., **Iordan, A.R.**, Palamaru, M.N., Photocatalytic activity of spinel ZnFe_{2-x}Cr_xO₄ nanoparticles on removal Orange I azo dye from aqueous solution, *Journal of the Taiwan Institute of Chemical Engineers*, 45, 1655, **2014**.

Dumitrescu, A.M., Slatineanu, T., Poiata, A., **Iordan, A.R.**, Mihailescu, C., Palamaru, M.N., Advanced composite materials based on hydrogels and ferrites for potential biomedical applications, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 455, 185, **2014**.

Dumitrescu, A.M., Borhan, A.I., **Iordan, A.R.**, Dumitru, I., Palamaru, M.N., Influence of chelating/fuel agents on the structural features, magnetic and dielectric properties of Ni ferrite, *Powder Technology*, 268, 95, **2014**.

Dumitrescu, A.M., Lisa, G., **Iordan, A.R.**, Tudorache, F., Petrila, I., Borhan, A.I., Palamaru, M.N., Mihailescu, C., Leontie, L., Munteanu, C., Ni ferrite highly organized as humidity sensors, *Materials Chemistry and Physics*, 156, 170, **2015**.