

IOANA AURELIA GORODEA

Research themes:

- **anorganic chemistry**: the chemistry of simple and mixed oxides
- **solid chemistry** : the chemistry of perovskites and ferrites
- **materials chemistry** : new oxides with magnetic and catalytic properties

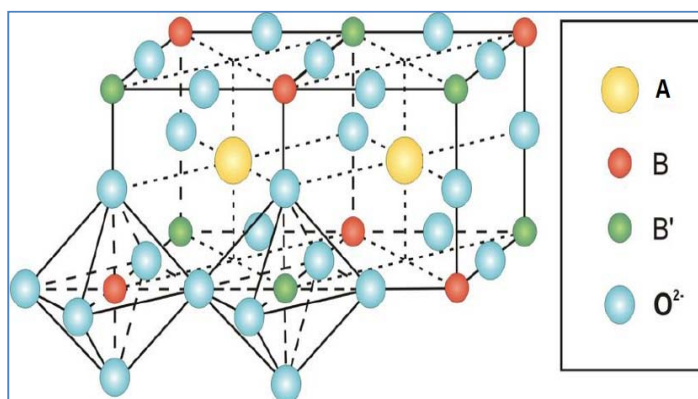
Inorganic chemistry: synthesis of new classes of mixed oxides using various substitutions of metal cations .

Solid chemistry synthesis by solid state reaction and sol- gel autocombustion of new compounds with double perovskites and ferrite structure

Chemistry of materials: structural characterization and study of magnetic , dielectric and catalytic properties for new class of mixed oxides .

Keywords:

- Ceramic method ;
- Sol- gel autocombustion
- X-Ray diffraction ;
- FT -IR spectroscopy ;
- Electron microscopy ;
- Magnetic measurements
- Dielectric and electrical transport measurements
- Catalytic properties



Publications (selection)

Perianu, E.A., Palamaru, M.N., Iordan, A.R., Ianculescu, A.C., **Gorodea, I.A.**, Combustion synthesis of oxides compounds $\text{Ca}_{2-x}\text{La}_x\text{MnMoO}_6$, *Revista de Chimie*, vol. 61, p.242-244, nr.3, **2010**.

Perianu, E.-A., **Gorodea, I.A.**, Gheorghiu, F., Sandu, A.V., Ianculescu, A.C., Sandu, I., Iordan, A.R., Palamaru, M.N., Preparation and Dielectric Spectroscopy Characterization of A_2MnMoO_6 (A = Ca, Sr and Ba) Double Perovskites, *Revista de chimie*, 62, No. 1, **2011**.

Gorodea, I.A., Influence of the B-site cation nature on crystal structure and magnetic properties of Ca_2BMoO_6 (B = Cr, La, Sm) double perovskite, *Acta Chemica Iasi*, 22_2, 145-154 (DOI: 10.2478/achi-2014-0012, **2014**.

Gorodea, I.A., Goanta, M., Toma, M., Impact of A cation size of double perovskite A_2AlTaO_6 (A= Ca, Sr, Ba) on dielectric and catalytic properties, *Journal of Alloys and Compounds*, 632, 805-809 **2015**.



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Inorganic chemistry

Solid chemistry

PhD

„Al. I. Cuza” University of Iași, 2010
Master study (Diplome d'Etudes Approfondies) of Inorganic Chemistry "From the molecule of the material" University of Paris-Sud, Orsay, France, 2001-2002