

**Lect. Dr. Nicoleta Cornei:**

**Domeniu de activitate:** chimie anorganica;

**Domeniul de cercetare:** chimie anorganica, chimia starii solide, analiza structurala prin difractie de raze X

**Cursuri predate:**

Elaborarea materialelor anorganice (curs predate in limba franceza)(Master)

Metode fizice de analiza (licenta)

Structura, reactivitatea si mecanisme de reactie in chimia anorganica (IIICH)

Chimie Bioanorganica. Aplicatii in medicina. (partea de aplicatii in medicina) (IIICH)

Mecanisme de reactie in chimia anorganica (III CH)

Materiale anorganice biocompatibile (II CPCF)

**Lista de lucrari semnificative:**

1. **N. Cornei**, N. Tancret, F. Abraham, O. Mentré, *Inorganic Chemistry*, **45**, 4886-4888, 2006, .IF 2012-4.601
2. **N. Cornei**, și M-L Craus, "Influence of the rare earth cation ( $Ln = La, Nd, Sm$ ) on the properties in the  $Ln_{0.44}Ho_{0.11}Sr_{0.45}MnO_{3\pm\delta}$  manganite oxides" - *J. of Alloys Compounds*, **368**, 58-61, 2004. IF-2012-2.289
3. M-L Craus, **N. Cornei**, C. Miță, I. Berdan, and M. N. Palamaru, - *Ceramics International*, **30(3)**, 447-452, 2004 IF 2012-1.751
4. D. Mardare, F. Iacomi, **N. Cornei**, M. Girtan, D. Luca, *Thin Solid Film*, **518(16)**, p. 4586-4589, 2010. IF 2012-1.89
5. D. Mardare, A. Yildiz, M. Girtan, A. Manole, M. Dobromir, M. Irimia, C. Adomnitei, **N. Cornei**, and D. Luca, *J of Applied Physics*, 112, 073502 (2012) IF2012-2.168
6. D. Gherca, N. Cornei, O. Mentré, H. Kabbour, S. Daviero-Minaud, A. Pui, In situ surface treatment of nanocrystalline  $MFe_2O_4$  ( $M=Mg, Mn, Co, Ni$ ) spinel ferrites using linseed oil, *Appl. Surface Science*, 287 (2013) 490– 498 ISI 2012 -2.103
7. A. Pui; D. Gherca, **N. Cornei**, *MATERIALS RESEARCH BULLETIN*, **48(4)**, 1357-1362 (2013) IF2012-2.105
8. I. Bulimestru, O. Mentré, N. Tancret, A. Rolle, N. Djelal, L. Burylo, **N. Cornei**, N. Popa and A. Gulea *J. of. Materials Chemistry*, **20**, 10724-10734, 2010 IF-2012-5.968