

Dr. CS III Petrisor Samoila

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Brainmap ID: U-1700-031G-3416

Experience in:

- ✓ Magnetic oxides synthesis by wet chemical methods
- ✓ Metallic catalysts synthesis by surface redox reactions
- ✓ Magnetic composites preparation
- ✓ Hybrid membranes development
- ✓ Heterogeneous catalysis
- ✓ Catalytic and photocatalytic testing
- ✓ Materials characterization methods: XRD, FTIR, TEM, SEM, TPR, TPO, VSM etc.

Scientific record:

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| Publications | 44 ISI articles: (cumulative IF: 150.2). |
| Books | 1 (sole author). |
| Book chapters | 1 (first author). |
| Patent request | 2 (1 as first author). |
| Conferences | over 60 communications. |
| Projects/Fellowships | 12 (4 as project/fellowship responsible; 8 as key/team member). |
| Citations | 595 (Google Academic); 491 (Scopus); 456 (WoS). |
| HIRSCH Index | 15 (Google Academic); 13 (Scopus); 13 (WoS). |

SELECTED SCIENTIFIC ARTICLES

- 1) P. Samoila*, C. Cojocaru, L. Sacarescu, P. Pascariu Dorneanu, A.A. Domocos, A. Rotaru, Remarkable catalytic properties of rare-earth doped nickel ferrites synthesized by sol-gel auto-combustion with maleic acid as fuel for CWPO of dyes, *Applied Catalysis B: Environmental* 202 (2017) 21–32.
- 2) P.Samoila*, L.Sacarescu, A.I.Borhan, D. Timpu, M. Grigoras, N. Lupu, M. Zaltariov, V. Harabagiu, Magnetic properties of nanosized Gd doped Ni–Mn–Cr ferrites prepared using the sol–gel autocombustion technique, *Journal of Magnetism and Magnetic Materials* 378 (2015) 92–97.
- 3) P. Samoila, M. Boutzeloit, C. Especel, F. Epron, P. Marecot, Relationship between the structural properties of supported bimetallic Pt–Rh catalysts and their performances for methylcyclopentane ring opening, *Journal of Catalysis* 276 (2010) 237–248.
- 4) M. Ignat, R. Rotaru, P. Samoila*, L. Sacarescu, D. Timpu, V. Harabagiu, Relationship between the components synthesis order of zinc ferrite-titania nanocomposites and their performances as visible-light-driven photocatalysts for relevant organic pollutant degradation, *Comptes Rendus Chimie*, 21 (2018) 263-269.
- 5) M. Ignat, P. Samoila*, C. Cojocaru, G. Soreanu, I. Cretescu, V. Harabagiu, Porous polymer/inorganic composite matrices as efficient desiccants for air dehumidification, *Applied Surface Science* 487 (2019) 1189–1197.