

## **FIERASCU Radu Claudiu**

*Dr. chim. Cercetator Stiintific I, Responsabil Laborator Roentgenografie, Responsabil Securitatea Radiologica in INCDCP-ICECHIM, Membru Consiliu Stiintific*

**Educatie:** Master In Chimie Fizica si Radiochimie Aplicata, Master in Stiinta Materialelor, Doctorat in Stiinta Materialelor, Program postuniversitar de formare si dezvoltare continua: *Eco-economie si dezvoltare durabila, Ingineria Mediului*

**Experienta profesionala:** specializat in caracterizarea analitica de matrici complexe (organice si anorganice), cu bune abilitati in rezolvarea problemelor legate de interpretarea rezultatelor obtinute din mai multe tehnici analitice si descifrare de formulari chimice; o vastă experienta in domeniul stiintei materialelor, tehnici analitice (tehnici bazate pe raze X - XRD, EDXRF si alte metode analitice: ICP-AES, FTIR, UV-Vis, analiza termica, cromatografie, etc.), caracterizarea catalizatorilor, polimerilor, obtinerea si caracterizarea extractelor naturale; sinteza si caracterizarea unor noi materiale (nano), metode de extractie pentru biomolecule din material vegetal, studii de mediu, studii inter si disciplinare trans, dezvoltarea de proiecte stiintifice..

**Experienta in proiecte stiintifice:** **Manager de proiect** - grant de cercetare, bursa doctorala CNCSIS; Grant post-doctoral CNCSIS, director de proiect si Responsabil proiect in PNIII, **membru in echipa de lucru la 20 de proiecte naționale;** membru in echipa de lucru la 1 **proiect international:**

- *Materiale apatitice inovatoare cu activitate antimicrobiana ridicata pentru materiale de constructii si conservarea patrimoniului cultural- PN-III-P2-2.1-PED-2016-0198*
- *Nanocompozite inovative core-shell pe baza de ferite/beta-ciclodextrina pentru indepartarea poluantilor organici si anorganici din enfluentii aposi - PN-III-P2-2.1-PED-2016-0251*
- *Depoluarea apelor cu continut de compusi organici greu biodegradabili (disruptori endocrini) prin procese de oxidare avansata utilizand catalizatori inovatori - PN-III-P2-2.1-PTE- 2016-0063*
- *Avant-gard design of nanomaterials and nanosystems with practical applications in the scientific conservation of Romanian cultural heritage*

**Publicatii:** mai mult de 75 lucrari indexate in baza SCOPUS (din care mai mult de 55 de articole ISI), 303 citari, Indice Hirsch 10, factor de impact cumulat mai mare de 53; mai mult de 150 de lucrari indexate in alta baze de date si / sau prezentate la conferințe internationale, autor / coautor 7 carti / capitole publicate la edituri nationale/ internaționale

- Fierascu I., Avramescu S.M., **Fierascu R.C.**, Ortan A., Vasilievici G, Cimpeanu C, Ditu L.M, Micro-analytical and microbiological investigation of selected book papers from the nineteenth century, Journal of Thermal Analysis and Calorimetry, 2017, 1-11, doi:10.1007/s10973-017-6370-9

- **Fierascu R.C.**, Fierascu I., Ortan A., Constantin F., Mirea D. A., Stasescu M., Complex archaeometallurgical investigation of silver coins from the XVIth-XVIIIth century, 2017 Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, 401, 18–24
- Sutan N.A., Fierascu I., **Fierascu R.C.**, Manolescu D.S., Soare L.C., Comparative analytical characterization and in vitro cytogenotoxic activity evaluation of *Asplenium scolopendrium* L. leaves and rhizome extracts prior to and after Ag nanoparticles phytosynthesis, 2016, Industrial Crops and Products, 83C, 379-386
- Ortan A., Fierascu I., Ungureanu C., **Fierascu R.C.**, Avramescu S.M., Dumitrescu O., Dinu-Pirvu C.E., Innovative phytosynthesized silver nanoarchitectures with enhanced antifungal and antioxidant properties, 2015, Applied Surface Science, 358, 540-548
- Fierascu I., Ungureanu C., Avramescu S.M., **Fierascu R.C.**, Ortan A., Soare L.C., Paunescu A., In vitro antioxidant and antifungal properties of *Achillea millefolium* L., 2015, Romanian Biotechnological Letters, 20 (4), 10626-10636
- Fierascu I., Bunghez I.R., **Fierascu R.C.**, Ion R.M., Dinu-Pirvu C.E., Nuta D., Characterization and antioxidant activity of phytosynthesized silver nanoparticles using *Calendula officinalis* extract, 2014, Farmacia, 62(1), 129-136

**Cerere de brevet:** *Compozitie de conservare si restaurare a suprafetelor monumentelor din creta si procedeul sau de realizare*, A 2015- 00071/02.02.2015

**Lucrari premiate:** UEFISCDI in cadrul programului "Premierea rezultatelor cercetarii - Articole;

**Membru in Consiliul editorial:** Current Trends in Natural Sciences

**Membru in asociatii profesionale:** Societatea de Chimie din Romania, Eurachem Romania, BALNET, Green Chemistry Network

**Cursuri de instruire:**

- „SmartLab Application training”, Rigaku Europe SE, Ettlingen, Germania, 2016
- “Entrepreneurship course”, USAMV Bucharest 2015
- “Process Safety Management”, Siemens Romania, 2013
- “Project Management” - EuroBestTeam – 2010
- “Proficiency Testing Seminar”- LGC Standards – 2008
- “European and national harmonized legislation in the field of dangerous chemical substances and preparations” - ICECHIM – 2008
- “Training of auditors in the laboratory quality system” - FiaTest – 2008
- “Work hygiene and safety” - SC Principio Consulting Ltd – 2007
- “Presentation of the technical requirements of ISO / IEC 17025:2005 - referential for accrediting testing laboratories and ensuring metrological traceability through reference materials” organized by RENAR – 2006
- “Quality assurance in testing laboratories according to ISO / IEC 17025:2005” - SC SEMQ MANAGEMENT SRL - 2006