

- CV -

**Nume:** Ruse Gh. Mircea

**Studii:** - Universitatea Politehnica Bucuresti, Facultatea de Tehnologie Chimica, Sectia Organica, Specializarea: Coloranti si Intermediari aromatici, per. **1975 -1980**

**Diploma: inginer chimist**, din anul 1980;

- Universitatea Politehnica Bucuresti, Facultatea de Tehnologie Chimica:  
Teza de doctorat: **COLORANTI METAL COMPLECSI**, per. **1992 - 1998**

**Diploma: doctor in chimie**, din anul **1999**;

**Atestare :** - **Cercetator stiintific grad I**, din anul **2001**;

**Atributii:** - Pregatirea de articole, brevete, de proiecte nationale si internationale, in scopul aplicarii rezultatelor in industrie si participarea la simpozioane, conferinte, brokeraje nationale/ internationale;

**Competente:** - Sinteza si caracterizarea fizico-chimica a colorantilor reactivi, ce vopsesc fibrele celulozice naturale (bumbac);

**(Expertiza)**

- Sinteza si caracterizarea fizico-chimica a colorantilor acizi, ce vopsesc fibrele proteice (lana, matase, poliamida);

- Sinteza si caracterizarea fizico-chimica a colorantilor metal-complecsi, ce vopsesc suporturile proteice naturale (lana, matase, poliamida, piele, blana, etc.);

- Sinteza si caracterizarea fizico-chimica a pigmentilor organici si anorganici, pentru materiale plastice, materiale de constructii, domenii speciale;

- Sinteza si caracterizarea fizico-chimica a intermediarilor aromatici, utilizati la prepararea colorantilor si pigmentilor organici;

- Microincapsularea colorantilor reactivi si metal-complecsi;

- Microgranularea pigmentilor organici;

- Prepararea colorantilor termocromici / fotocromici microincapsulati utilizati la realizarea materialelor textile/ netextile (piele) inteligente;

- Prepararea de materiale schimbatoare de faza, sub forma de microcompozite ce stocheaza energia termica, utilizate la imbunatatirea confortului termic al materialelor, in scopul realizarii de materiale textile/ netextile inteligente;

- Prepararea de materiale textile/ netextile (piele) inteligente receptive la stimuli externi (temperatura, umiditate, pH, lumina, radiatii electromagnetice, etc.);

- Prepararea de materiale inteligente pentru reglarea termica in cladiri solare pasive;

- Epurarea apelor reziduale colorate si a celor radioactive cu ajutorul rasinilor schimbatoare de ioni.

**Cursuri post** - Cursul de "Managementul Proiectelor" la Programul RELANSIN, in anul **2001**;

**universitare** - Cursul de „Eco-economie si Dezvoltare durabila”, la Programul POSDRU 53084, COMHIGHTECH, in anul **2013**.

## REZULTATE RUSE GH. MIRCEA ( per. 2012 – 2016)

### 1. BREVETE

- 9) L.C.Oproiu, A.A. Athanasiu, V. Albuiescu, **M. Ruse**, E. Ionita, M. Deaconu, “**The fabric with anti-allergic properties of bioactive/ physical barrier and the process of making it**”; Rom.Patent no. 128032 B1, **2014**;
- 10) Ionita Elena, Cristu Zoia, Mateescu Mariana, Deaconu Marian, Athanasiu A. Angela, Alifanti Constantin, Tolescu Ciprian, Oproiu L. Cornelia, **Ruse Mircea**, Faraon V. Alexandru, Filipescu Catalin, Cojocaru Mariana, Ivan Melania, “**Procedeu de decontaminare a apelor reziduale cu continut de coloranti, provenite din industria textila**”, Rom. Patent no. 127640, **2016**.

### 2. CARTI

- 1) S. Peretz, D.F. Anghel, E.L. Simion, **M. Ruse**, C. Stoian, M. Elisa, I. Feraru, „**Preparation of Fe<sub>3</sub>O<sub>4</sub> magnetic nano and micro-particles coated with polymers**”, in **Nanomaterials, Nanoparticles, Nanodevices**, Ed. Academiei Române, M. Zaharescu, H. Chiriac, D. Dascălu (Eds.), București **2016**, pp. 9-31. ISBN: 978-973-27-2643-3.

### 3. ARTICOLE

- 9) **Mircea Ruse**, Alexandrina Nuta, Anca A. Athanasiu, Constantin Alifanti, Elena Ionita, Loti C. Oproiu, Catalin Filipescu, “**Complex chromogen systems for cellulosic fibers**”, Journal of Materials Science and Engineering B 2 (2) (2012) 179-184, ISSN 1934-8959, Febr. 27. **2012**, SUA, IF: **1.56**;
- 10) **Mircea Ruse**, Anca A. Athanasiu, Loti C. Oproiu, Catalin Filipescu, “**Structure-color correlation study in the class of pre-formed acid azo chromium (1:1) complex dyes resulted from the same coupling component**”, Revista de Chimie , pp. 947, 66(7), **2015** ISSN 0034-7752, Romania, IF : **0.81**;
- 11) Aurelia Piscureanu, Dana Varasteanu, Irina Chican, **Mircea Ruse**, “**Aspects concerning the selection of ion exchange resin for low level radwaste waters decontamination**”, Revista de Chimie, pp.1819, 66(11) – **2015**, Romania, ISSN 0034-7752, IF : **0.81**;
- 12) **Mircea Ruse**, Anca A. Athanasiu, Loti C. Oproiu, Catalin Filipescu, “**Structure-color correlation study in the class of pre-formed acid azo chromium (1:1) complex dyes containing the sulfonic group in the diazotation component**”, Revista de Chimie , 67(1) – **2016**, Romania, ISSN 0034-7752, IF : **0.96**;
- 13) **Mircea Ruse**, Sandu Peretz, Valentine Raditoiu, Anca A. Athanasiu, Loti.C. Oproiu, Marian Deaconu, C. Filipescu, Raluca Senin, “**Amphiphilic polymeric microcomposites for fibers dyeing**”, Rev. Vlakna a textil (Fibers and Textiles), Pardubice University, **Czech Republic**, **2016**;
- 14) M. Deaconu, R. Senin, R. Stoica, A. Athanasiu, M Crudu, L. Oproiu, **M. Ruse**, C. Filipescu, “**Adsorption decolorization technique of textile / leather – dye containing effluents**”, International Journal of Waste Resources, **2016**, 6:2, 27.04.2016, ISSN 2252-5211, IF : **0.80**;
- 15) **Mircea Ruse**, Sandu Peretz, Anca A. Athanasiu, Loti.C. Oproiu, C. Filipescu, Raluca Senin, “**Colored polymeric microcomposites with minimal environmental impact**”, Revista de Materiale Plastice, Romania, in press., **2017**, IF : **0.90**
- 16) A. A. Athanasiu, M. Deaconu, M. Crudu, S. Doncea, R. Stoica, L. Oproiu, R. Senin, **M. Ruse**, D. Rosu, C. Filipescu, “**Synthesis and characterization of nanosized copper (II)-phtalocianine pigment (P BL 15:3) with the surface modified**”, la Revista de Chimie, Romania, in press, **2017**, IF : **0.96**.

### 4. COMUNICARI STIINTIFICE

- 8) Loti C. Oproiu, Viorel Albuiescu, Anca A. Athanasiu, Marian Deaconu, **Mircea Ruse**, Cezar-Doru Radu, “**New procedure to achieve a textile bio-active surface with anti-allergy properties**”, XXIII INTERNATIONAL CONGRESS – IFATCC, Budapest, Hungary, May 8-10, **2013**;
- 9) Anca A. Athanasiu, Marian Deaconu, Loti C. Oproiu, **Mircea Ruse**, “**Water based inkjet inks for textile printing**”, XXIII INTERNATIONAL CONGRESS – IFATCC, Budapest, Hungary, May 8-10, **2013**;
- 10) Loti C. Oproiu, Viorel Albuiescu, Anca A. Athanasiu, Marian Deaconu, Sanda Doncea, **Mircea Ruse**, “**Study on fixing increased reactive dyes used in functionalized cellulose textile dyeing with the reduction of wastewater load**”, International Symposium: Chemistry Priorities for a Lasting Development – PRIOCHEM, ICECHIM, Bucharest, Romania, Oct. 30, **2014**;
- 11) Irina Chican, Aurelia Piscureanu, Dana Varasteanu, **Mircea Ruse**, “**Cobalt and surfactant ions separation from aqueous solutions using PUROLITE ion exchange resins**”, Round Table, International Symposium:

- Chemistry Priorities for a Lasting Development - **PRIOCHEM**, ICECHIM, Bucharest, **Romania**, Oct. 30, **2014**;
- 12) **Mircea Ruse**, Aurelia Piscureanu, Dana Varasteanu, Irina Chican, **“Management of spent ion exchange material”**, Round Table, International Symposium, Chemistry Priorities for a Lasting Development-**PRIOCHEM**, ICECHIM, Bucharest, **Romania**, Oct. 30, **2014**;
  - 13) Sandu Peretz, C. Stoian, d.f. Anghel, E. Vasilescu, Gh. Zgherea, **Mircea Ruse**, **“Synthèse des microparticules d’oxide de fer enrobés de polymers et leur utilization pour l’adsorption des colorants”**, présenté a 8-ème Colloque Franco-Roumain de Chimie Appliquée-COFRoCA, Montpellier, **France**), 15-18 Sept. **2014**, 110, ISSN 20168-6382;
  - 14) Aurelia Piscureanu, Irina Chican, Dana Varasteanu, Mirela Dulama, **Mircea Ruse**, **“Aspects concerning the selection of ion exchange resin for low level radwaste waters decontamination”**, INGA – Scientific Conference, Bucharest, **Romania**, Nov. 10-11, **2014**;
  - 15) **Ruse Mircea**, Peretz Sandu, Raditoiu Valentin, Athanasiu. A. Anca, Oproiu C. Loti, Deaconu Marian, Filipescu Catalin, Senin Raluca, **“Coloured polymeric microcomposites with minimal environmental impact”**, **International Conference, XI PRIOCHEM**, Bucharest, **Romania**, Oct 29-30, **2015**;
  - 16) Deaconu Marian, Senin Raluca, Athanasiu A. Anca, Oproiu C..Loti, **Ruse Mircea**, Filipescu Catalin, Crudu Marian, **“Adsorption decolorization technique of textile/ leather – dyecontaining effluents”**, **International Conference XI PRIOCHEM**, Bucharest, **Romania**, Oct. 29-30, **2015**;
  - 17) Athanasiu A. Anca, Deaconu Marian, Doncea Sanda, Oproiu C. Loti, Crudu Marian, **Ruse Mircea**, Filipescu Catalin, Rosu Dan, **“Self-dispersible carbon black pigment (C.I. Pigm. Black 7), preparation methods, classic and newer areas of use”**, **International Conference XI PRIOCHEM**, Bucharest, **Romania**, Oct. 29-30, **2015**;
  - 18) Marian Deaconu, Raluca Senin, Anca Athanasiu, Marina Mateescu, **Mircea Ruse**, Loti Oproiu, **“Adsorption of azo dyes from industrial wastewaters on syntetic polymer adsorbents”**, **International Symposium „Environment and Industry” – SIMI 2015**, Oct. 29-30, **2015**;
  - 19) Irina Chican, Dana Varasteanu, **Mircea Ruse**, Z. Tsoleva, B. Slachev, L. Dobrev, **“Breakthrough curve studies for the removal of cobalt from aqueous solutions on purolite ion exchange resins”**, **International Conference XI PRIOCHEM**, Bucharest, **Romania**, Oct. 29-30, **2015**.
  - 20) Marian Deaconu, Raluca Senin, Marian Crudu, Anca Athanasiu, Loti Oproiu, **Mircea Ruse**, Catalin Filipescu **“Reduction of colour of acid and reactive dyestuff wastewater using macroporous resins”**, **PROCEEDINGS TEXTEH VII International Conference**, ISSN 2068-9101, vol .7, **2015**;
  - 21) **Mircea Ruse**, Sandu Peretz, Valentine Raditoiu, Anca A. Athanasiu, Loti.C. Oproiu, Marian Deaconu, C. Filipescu, Raluca Senin, **“Amphiphilic polymeric microcomposites for fibers dyeing”**, **XXIV International Congress – IFATCC**, Pardubice, **Czech Republic**, June 12-16, **2016**;
  - 22) Loti Cornelia Oproiu , Albulescu Viorel Liviu , Anca Angela Athanasiu, Deaconu Marian, Sanda Doncea, Radu Cezar Doru, **Mircea Ruse**, **“The reduction of waste waters loading by an increasing fixation of reactive dyes on functionalized cotton”**, **XXIV International Congress – IFATCC**, Pardubice, **Czech Republic**, June 12-16, **2016**;
  - 23) A. A. Athanasiu, M. Crudu, D. Rosu, S. Doncea, M. Deaconu, L. Oproiu, **M. Ruse**, C. Filipescu, **“Preparing a self-dispersible carbon-black pigment for natural leather dyeing”**, **XXIV International Congress – IFATCC**, Pardubice, **Czech Republic**, June 12-16, **2016**;
  - 24) L. Oproiu, A. A. Athanasiu, M. Deaconu, S. Doncea, D. Rosu, **M. Ruse**, C. Filipescu, D. Varasteanu, I. Chican, **“Ecological treatments in wool fibers processing”**, **XXIV International Congress – IFATCC**, Pardubice, **Czech Republic**, June 12-16, **2016**;
  - 25) A. A. Athanasiu, S. Doncea, M. Deaconu, L. Oproiu, M. Crudu, **M. Ruse**, C. Filipescu, **“Synthesis and characterization of nanosized copper (II) – phtalocyanine pigment (P PL 15:3) with the surface modified**, Book of Abstracts, ISSN 2285 8334/ ISSN – L 2285 8334, pg. 109’, **XII PRIOCHEM**, Bucharest, **Romania**, Oct. 27-28, **2016**.
  - 26) L. Oproiu, I. Chican, D. Varasteanu, A. A. Athanasiu, S. Doncea, M. Deaconu, **M. Ruse**, C. Filipescu, D.C. Radu, C. Munteanu, S. Florescu, G. Cristescu, **“New eco-agent for washing/ treatment of wool fiber”**, **XII PRIOCHEM**, Bucharest, **Romania**, Oct. 27-28, **2016**.

Signature,

Dr.ing. Mircea RUSE