

**Activitate 2007, 2008, 2009**

**TOTAL = 2542,05p**

**2. Articole științifice in extenso**

**142,31p**

**2.2 Reviste departamentale acreditate CNCSIS (15p)**

**8p**

1. **I. Carazeanu Popovici**, V. Ciupina, G. Prodan „Synthesis and structural characterization of  $\text{Li}_2\text{CoSiO}_4$ , as potential Li-battery cathode material” *University Annals of Chemistry* 19(1-2), 5-8, **2008** **15/3 =5**
2. **I. Carazeanu Popovici**, M. Girtu, V. Ciupina, G. Prodan, N. Taranu, “Sol-gel preparation and characterization of lanthanum titanate,  $\text{La}_2\text{Ti}_2\text{O}_7$ ” *Ovidius University Annals of Chemistry*, 18(2), 161-166, **2007** **15/5=3**

**2.4 Reviste nationale ISI (40p)**

**54p**

1. A. Dumbrava, C. Badea, G. Prodan, **I. Popovici**, V. Ciupina, „Zinc sulfide fine particles obtained at low temperature”, *Chalcogenide Letters*, 6(9), 437–443, **2009**, ISSN 1584-8663 **40/5=8**
2. **I. Carazeanu Popovici**, V. Ciupina, G. Prodan, M. Girtu, Synthesis and Characterisation of Nanocrystalline  $\gamma\text{-Y}_2\text{Si}_2\text{O}_7$  Powders, *Metalurgia International*, XIV(3\*) 25-28, **2009**, ISSN 1582-2214 **40/4=10**
3. **I. Carazeanu Popovici**, V. Ciupina, G. Prodan, M. A. Gîrțu “Structural characterisation of lanthanum aluminate synthesized by the Pechini method” *Journal of Optoelectronics and Advanced Materials*, 10 (11), 2942-2946, **2008**, ISSN1454-4164 **40/4=10**
4. C. Dumitrescu, M. Menicu, G. Voicu, **I. Popovici**, „Efectul adaosului de calcar asupra hidratarii si intaririi cimentului portland, in corelatie cu caracteristicile fizice si mecanice ale acestora”, *Revista Romana de Materiale/Romanian Journal of Materials*, **38** (3), 203 - 211, **2008** (ISSN 1583 – 3186) **40/4=10**
5. **I. Carazeanu Popovici**, M. Girtu, E. Chirila, V. Ciupina, G. Prodan, HRTEM study of nano- $\text{TiO}_2$  powder, *Revista de Chimie*, 59(4), 413-416, **2008** (ISSN 0034-7752) **40/5=8**
6. **I. Carazeanu Popovici**, E. Chirila, V. Popescu, V. Ciupina, G. Prodan „Low temperature chemical synthesis of  $\text{La}(\text{Co}_{1-x}\text{Fe}_x)\text{O}_3$  ( $x=0.6$ )”, *Revista de Chimie*, 58(8), 716-719, **2007** (ISSN 0034-7752) **40/5=8**

**2.5 Volume ale sesiunilor de comunicari stiintifice internationale (20p)**

**33.31p**

1. **I. Carazeanu Popovici**, V. Ciupina, G. Prodan, M. Girtu, „Synthesis of nanosized  $\text{TiO}_2$  powders at low temperature”, *Proceedings of the Nano-Sol-Net International Symposium: Trends in Organic Electronics and Hybrid Photovoltaics*, Eforie Nord, Romania, 159-164, **2008** (ISBN 978-973-614-414-1) **20/4=5**
2. **I. Carazeanu Popovici**, M. Girtu E. Chirila, V. Popescu, V. Ciupina, G. Prodan, “Sol-gel synthesis and characterisation of lithium metatitanate,  $\text{Li}_2\text{TiO}_3$ ”, *Proceedings BRAMAT, Bulletin of the Transilvania University of Brasov*, vol. 4, 187-192, **2007** **20/6=3.33**
3. V. Popescu, **I. Carazeanu Popovici**, E. Chirila, *Proceedings BRAMAT2007, Bulletin of the Transilvania University of Brasov*, vol. 4, 241-244, **2007** **20/3=6.66**
4. C. Oprea, **I. Carazeanu Popovici**, M. Girtu „Quantum chemical calculations of three electron acceptor molecules: TCNE, TCNQ AND HCBP”, *Proceedings BRAMAT2007, Bulletin of the Transilvania University of Brasov*, vol. 3, 409-414, **2007** **20/3=6.66**
5. **I. Carazeanu Popovici**, E. Chirila, C. Draghici “Lead removal from water by sorption using modified clays”, *Proceedings BRAMAT2007, Bulletin of the Transilvania University of Brasov*, vol. 4, 527-532, **2007** ISSN 1223-9631 **20/3=6.66**

6. **E Chirila**, C.Draghici, I. Popovici Carazeanu, M. Ursu, „Some aspects about groundwater monitoring in the central Dobrogea region”, Proceedings **EnvEdu 2006**, p.103-111, ISSN 1223-9631 **2007 (aparut 2008)** **20/4=5**

**2.7 Reviste internationale necotate ISI + Proceeding ISI (40p)**

**40/2=20p**

1. E.Chirila, **I. Popovici Carazeanu** „Studies about remediation of contaminated soils with toxic metals” in Simeonov Lubomir, Sargsyan Vardan, „Soil Chemical Pollution, Risk Assessment, Remediation and Security” (NATO Security through Science Series C: Environmental Security), ISBN: 978-1-4020-XXXX-X, ISSN 1871-4668 Springer, pp 138-149, **2008**

**2.8 Reviste internationale ISI (60p)**

**27p**

1. **I. Carazeanu Popovici**, E. Chirila, V. Popescu, V. Ciupina, G. Prodan „Sol-gel preparation and characterization of perovskite lanthanum lithium titanate”, **Journal of Material Science**, 42(10), 3373-3377, **2007** **60/5=12**
2. E.Chirila, T.Petisleam, D.P.Balaban, **I. Popovici Carazeanu**, „New results concerning accumulation factors in the Black seacoast ecosystem”, *Rapp. Comm. int. Mer medit.*, **38**, 249, ISSN 0373-434X, **2007** **60/4=15**

**3. Comunicari stiintifice internationale cu rezumatul publicat (10p)**

**28,24p**

**3.1.2.**

1. **I. Carazeanu Popovici**, V. Ciupina, G. Prodan, M.A. Girtu, „Synthesis and structural characterisation of  $\text{La}(\text{Mn}_x\text{Fe}_{1-x})\text{O}_3$  ( $x=0.6$ ) nanopowders obtained by sol-gel method”, 10<sup>th</sup> International Balkan Workshop On Applied Physics July 6-8, Book of Abstract, pag 94, (ISBN 978-973-614-507-0), **2009**, Constanta, Romania (poster S1-P80) **10/4=2,5**
2. **I. Carazeanu Popovici**, V. Ciupina, G. Prodan, M. A. Girtu, High-resolution transmission electron microscopy study of  $\text{La}_2\text{Si}_2\text{O}_7$  powder”, 10<sup>th</sup> International Balkan Workshop On Applied Physics July 6-8, Book of Abstract, p. 94, (ISBN 978-973-614-507-0), **2009**, Constanta, Romania (poster S1-P81) **10/4=2,5**
3. **I. Carazeanu Popovici**, V. Ciupina, G. Prodan, M. A. Girtu, “Low-temperature synthesis and characterization of  $\text{La}_2\text{Si}_2\text{O}_7$  powder”, CHIMIA 2009, May 13 – 16, **2009**, Constanta, Romania, Book of abstract, pag 91-92 (ISBN 978-973-614-500-1) **10/4=2,5**
4. **I. Carazeanu Popovici**, E. Chirila, V. Popescu, V. Ciupina, G. Prodan, Microstructural aspects of Portland limestone cement, CHIMIA 2009, May 13 – 16, **2009**, Constanta, Romania, Book of abstract, pag 93 (ISBN 978-973-614-500-1) **10/5=2**
5. N. Țăranu, **I. Carazeanu Popovici**, V. Simion, “Determination of paracetamol by UV-VIS spectrometry in pharmaceutical dosage forms”, CHIMIA 2009, May 13 – 16, **2009**, Constanta, Romania, Book of abstract, pag 133 (ISBN 978-973-614-500-1) **10/3=3,33**
6. **I. Carazeanu Popovici**, V. Ciupina, G. Prodan, M. Girtu, “Structural characterisation of lanthanum aluminate synthesized by modified Pechini method”, 9th International Balkan Workshop On Applied Physics July 7-9, Book of Abstract, pag 86, (ISBN 978-973-614-415-8) **2008**, Constanta, Romania (poster S1-P64) **10/4=2,5**
7. **I. Carazeanu Popovici**, V. Ciupina, G. Prodan, M. Girtu, Synthesis of nanosized  $\text{TiO}_2$  powders at low temperature, Nano-Sol-Net International Symposium: Trends in Organic Electronics and Hybrid Photovoltaics, Eforie Nord, Romania, poster B12, Book of Abstract, pag 13, **2008** **10/4=2,5**
8. C. Dumitrescu, M. Menicu, G. Voicu, **I. Popovici**, Efectul adaosului de calcar asupra hidratării și întăririi cimentului portland, în corelație cu caracteristicile fizice și mecanice ale cimentului și betonului”, Conferinta de Stiinta si Ingineria Materialelor Oxidice – CONSILOX, Timisoara, 10-12 sept. **2008** (poster) **10/4=2,5**
9. Dumitrescu C., Menicu M., G. Voicu, **I. Popovici**, “Liant hidraulic multifunctional pe baza de ciment Portland”, *Nanostructured Multifunctional Materials (NMM07)*, Romania, Sinaia, 18-20 oct. **2007** (poster) **10/4=2,5**

10. I. Carazeanu Popovici, M. Girtu, V.Ciupina, V.Popescu, G.Prodan, N.Taranu "Sol-gel preparation and characterisation of lanthanum titanate,  $\text{La}_2\text{Ti}_2\text{O}_7$ " Proceeding of "New Trends In Petroleum refining (NTPR)" Constanta, pag 57, **2007** (poster P8). **10/6=1,66**
11. Kancierzewska A., A. Fahlman, A. Baranzahi, E. Carlegrim, **I. Carazeanu-Popovici**, C. Oprea, M.A. Girtu, M. Fahlman "Nanocrystalline  $\text{TiO}_2$  Dye Sensitized Solar Cells with PEDOT as Hole Transporters", Proceeding of "New Research Trends In Material Science" **ARM-5**, Sibiu, Romania, **2007** (poster 5.77) **10/8=1,25**
12. **E.Chirila**, T.Petisleam, D.P.Balaban, I Popovici Carazeanu „New results concerning accumulation factors in the Black seacoast ecosystem”, 38th CIESM, Istanbul, 9-13 April, **2007** **10/4=2,5**

### **3.3 Conferinte invitate**

**75p**

1. "Synthesis and characterization of some photovoltaic nanomaterials", University Of Cyprus, Department of Chemistry, 10 Septembrie, **2009** 50p
2. E.Chirila, **I. Popovici Carazeanu** „Studies about remediation of contaminated soils with toxic metals" ARW NATO, Sofia, 23-26 May, **2007**, (lecture) 50/2=25p

### **4. Monografii, cursuri**

**137p**

1. **I. Carazeanu** „*Compusi tehnici anorganici. Consideratii teoretice si aplicatii practice*" Ovidius University Press, Constanta, **2003** (140 pagini - ISBN 973 -614 - 125 - X) 7x3=21 (3ani)
2. **Ionela Carazeanu**, "*Chimia nemetalelor. Lucrari practice si probleme*" Ovidius University Press, Constanta, **2002** (231 pagini - ISBN 973-644-003-6). 7x3=21 (3ani)
3. **I. Carazeanu** , "*Chimie generala. Principii teoretice si aplicatii practice*" Ovidius University Press, Constanta, **2002** (132 pagini - ISBN 973 - 614 - 124 - 1). 7x3=21 (3ani)
4. A. Dumbrava, **I. Carazeanu**, "*Chimie anorganica - Lucrari practice. Sinteze anorganice*" Ovidius University Press, Constanta, **2000** (128 pag- ISBN 973-9289-73-8). 3.5x3=10.5 (3 ani)
5. **I. Carazeanu**, "*Chimie anorganica. Baze teoretice*" Ovidius University Press, **1999** (206 pagini - ISBN 973 - 9367 - 78 - X). 1 5x2=30p (2ani)
6. **I. Carazeanu**, "*Chimie anorganica. Nemetale si metale*" Ovidius University Press, **1999** (316 pagini - ISBN 973-9367-79-8). 15x2=30p (2ani)
7. A.Dumbrava, **I.Carazeanu**"*Lucrari practice.Chimie anorganica.Partea I Chimie generala*", Ovidius University Press, **1998** (112 pagini - ISBN 973 - 9289 - 46 - 0). 3.5p (2007)

### **5. Alte rezultate stiintifice**

**20p**

5.4 Raport de cercetare pentru finalizarea contractelor 2007, 2008 2x10=20p

### **6. Citări în reviste internaționale (3p)**

21x3=63p

### **7. Activitate didactica**

**15p**

7.1 Amenajare lucrari de laborator didactic (15p pentru lab semestru) \_\_\_\_\_ 15p

- Master Chimie- CAPNA I

### **8. Granturi si contracte de cercetare**

**1807,5p**

8.2.1 Director proiect 2ani x10 = **20p**

8.2.2 Membru: 7(2007)+6(2008)+3 (2009) = 16 x3 = **48p**

8.3.2 Valoare incasata: 34 785 x 5p= **1739,5p**

1. "Designing novel materials for nanodevices: from theory to practice" proiect COST 232/2009, COST Action MP0901 - director dr. ing. V. Fruth (Academia Romana) - membru
2. „Proiectarea de noi pigmenti pentru celule solare cu  $\text{TiO}_2$  nanocristalin pe baza unor calcule de structura electronica" nr. 116/2008, PN II – capacitati M3 (DYESOL), International research grant; Colaborare bilaterala Romania – Ucraina, Director de proiect - Mihai Girtu – membru in echipa de cercetare 2008-2010
3. "Towards new photovoltaic materials: calculations, synthesis and measurements (COLSOL)" (Catre noi materiale pentru celule fotovoltaice: calcule, sinteza si masuratori) International research grant Cyprus-Romania Bilateral Research Project Directori de proiect: Mihai Girtu si Athanasios Nicolaidis, Perioada: 2008-2010 – membru in echipa de cercetare

4. "Generarea de noi cunostinte privind materialele cimentoide inalt performante, cu adaos calcaros, ecologice si economice- PERFORM-MAT-CIM", Contract CEEEX-M1-C2-456-2006 - **Responsabil Partener 2**, 2006-2008, valoare pt. Univ. Ovidius 60 000 RON  
**2007 – 33876; 2008 – 909 RON = 34785 x 5= 1739,5p**
5. „Tehnologie bazata pe TiO<sub>2</sub> nanocristalin pentru obtinerea de celule solare sensibilizate cu pigmenti cu eficienta ridicata”, membru , Contract CNCSIS 678/2006-2007, 58000 RON, membru in echipa de cercetare
6. "Promovarea cercetării științifice interdisciplinare în domeniul materialelor nanostructurate pentru celule solare din generația a treia prin colaborare europeană – NANO-SOL-NET" – Contract CEEEX-M3-C3-12 350 – nr. 196/2006, 2006-2009 - membru
7. "Proiect de cercetare asupra tehnologiilor energetice pe baza de hidrogen utilizabile in vederea valorificarii surselor energetice regenerabile din zona Dobrogei – Modulul I - HyRes-Dobrogea – CEEEX nr. 750/2006, durata: 08.2006-07.2008 - membru in echipa de cercetare
8. "Promovarea participarii la programe europene de cercetare din domeniul utilizarii carburantilor alternativi in transportul rutier" - Contract CEEEX, nr 166/2006, Modul III – Procar – Durata: 08.2006 – 07.2008 - - membru in echipa de cercetare.
9. Platforma HyRes – Platforma de cercetare pentru dezvoltare de celule de combustie de inalta temperatura dedicate utilizarii biomasei ca sursa energetica si valorificarii altor resurse energetice si regenerabile din zona Dobrogei"; Durata: 2006 – 2008 - membru in echipa de cercetare
10. "Dezvoltarea de noi concepte, tehnici si abilitati bazate pe metode sinergice de evaluare neinvaziva a materialelor noi si avansate, a materialelor micro si nanostructurate, estimari de ciclu de viata a structurilor realizate cu acestea". Contract CEEEX, nr 6110/2005, Modul I – Sinermat - Durata: 12.2005 – 10.2008, membru

Contracte internationale educationale

**I. Carazeanu Popovici** - participant, ARW NO: ESP.EAP.ARW. 982527 Soil chemical pollution - risk assessment, remediation and security, 23-26 May **2007**, Sofia, Bulgaria

**9. Alte activitati:**

**254p**

**9.4** \_\_\_\_\_ **45p**

- Membru in comisia de licenta Chimie 2007 – 2009 – 5x3=15
- Membru in comisia de disertatie masterat "Chimia si managementul calitatii produselor de consum si a mediului", 2007 - 2009 sesiunile februarie si iunie – 5x6=30

**9.6** \_\_\_\_\_ **5p**

- Membru in comitete stiintifice ale conferintelor nationale:
  - Chimia 2009

**9.7** \_\_\_\_\_ **9p**

- Membru in comitete de organizare ale conferintelor internationale:
- **Chimia 2009** 13-16 mai 2009 –internationala
- New trends in petroleum refining International Conference, 2007
- Nano-Sol-Net International Symposium: Trends in Organic Electronics and Hybrid Photovoltaics, Eforie Nord, Romania 2008

**9.11-12** **2007** – 5x2+5=15 \_\_\_\_\_ **15p**

**9.14-9.16** \_\_\_\_\_ **24p**

- Membru in comisia pentru obtinerea:
  - Definitivat 5x3=15; Gradul II 0; Gradul I 3x3=9

**9.18** \_\_\_\_\_ **18x3=54p**

- Lucrari de licenta / disertatie conduse in perioada 2007 - 2009 – **18 lucrari**

**9.19** \_\_\_\_\_ **6x1=6p**

Îndrumarea cercetării științifice studențești - 6

**9.21** \_\_\_\_\_ **2x3=6p**

- Referent carti si manuale didactice:
  - lucrari practice Chimie fizica (cinetica) – autori V. Popescu, A. Soceanu
  - lucrari practice Chimie fizica (electrochimie) – autori V. Popescu, A. Soceanu

**9.33** \_\_\_\_\_ **75p**

- Referent stiintific (recenzor) al revistelor:
  - **Nationale** : Analele Universitatii Ovidius **5x3=15**
  - **Internationale** **6x10=60**
  1. Journal of Physical Chemistry/ACS Publication 2007
  2. Materials Research Bulletin/Elsevier; 2007;
  3. Optical Materials/Elsevier, 2008;
  4. Journal of the American Ceramic Society/Elsevier; 2008
  5. Materials Chemistry and Physics/Elsevier, 2008;
  6. Materials Chemistry and Physics/Elsevier, 2009;

**9.3.4** Membru in comitetul stiintific al revistei Analele Universitatii Ovidius \_\_\_\_ 3x5 =15p

Prof.univ.dr.ing. Ionela Popovici  
27.01.2010