

1. INFORMATII PERSONALE

Nume: **Gabriela Carja**

Data si locul nasterii: 28 Noiembrie, 1963, Negresti, Romania

Pozitie academica ocupata in prezent: Profesor (Departamentul de inginerie chimica, Universitatea Tehnica "Gheorghe Asachi" din Iasi)

Adresa, numar de telefon, adresa de e-mail: Universitatea Tehnica "Gheorghe Asachi" din Iasi, Facultatea de Inginerie Chimica si Protectia Mediului, Blvd. D. Mangeron no 71, Iasi, RO-700050, Romania. Tel: +0040278680/2262, e-mail: gcarja@ch.tuiasi.ro

2. EDUCATIE

1999-2000 Postdoctoral UNESCO fellow, Tokyo Institute of Technology, Japan

1991-1996 studii doctorale la Universitatea Tehnica "Gheorghe Asachi" din Iasi

1982-1987 Facultatea de Chimie Industriala, Institutul Politehnic din Iasi

1982-1987 Liceul de matematica - fizica Mihail Kogalniceanu, Vaslui

3. EXPERIENTA PROFESIONALA

Invited professor, Tokyo Institute of Technology, Tokyo, Japan, June 2009

Visiting scientist, Tokyo Institute of Technology, Tokyo, Japan, September-November, 2005, October 2006, June-July 2007.

Visiting scientist, ENSCM, Ecole Nationale Supérieure de Chimie de Montpellier, Lab. Mat. Catalytiques et Catalyse, Montpellier, France, under a grant of French Environmental Agency, EGIDE, Montpellier, France, 2003-2004

Oxford University-visiting fellow for East-European Countries, under a Soros Foundation grant, September, Oxford, London, 1997

4. PREMII, DISTINCTII

- "Gheorghe Spacu" premiul Academiei Romane pentru lucrarea cu titlul: "Multifunctional applications of inorganic porous matrices", 2009

- Gala Premiilor in Educatie a Fundatiei Dinu Patriciu - premiul I, categoria cercetatorul anului, 2009

- Centennial Memorial Award of Tokyo Institute of Technology, Japan, 2005

- The Medal of Tokyo Institute of Technology for the research activity developed at the Japanese university

- Diploma award of "The 35th International Course for the Advanced Research in Chemistry and Chemical Engineering", 2000

- Silver Medal EUREKA Brussels, 2010.

5. ZECE PUBLICATII SELECTATE

1. **G. Carja** (corresponding author), A. Nakajima, S. Dranca, C. Dranca, K. Okada [TiO₂/ZnLDH as a Self-Assembled Nanocomposite with Photoresponsive Properties](#) **JOURNAL OF PHYSICAL CHEMISTRY C (ACS PRESS)**, 114 (2010) 14722-14728.

2. **G. Carja** (corresponding author), A. Nakajima, C. Dranca, K. Okada [Nanoparticles of nickel oxide: growth and organization on zinc substituted anionic clay matrix by one – pot route at room – temperature](#)

JOURNAL OF NANOPARTICLE RESEARCH (SPRINGER PRESS), 12 (2010) 3049-3056.

3. G. Carja, (corresponding author) Y. Kameshima, K., Okada
[Nanoparticles of iron and vanadium oxides supported on iron substituted LDHs: Synthesis, textural characterization and their catalytic behavior in ethylbenzene dehydrogenation](#)

MICROPOROUS AND MESOPOROUS MATERIALS (ELSEVIER PRESS), 115 (2008) 541-547.

4. G. Carja, (corresponding author) Y. Kameshima, , K. Okada, C. Dranca
[Nanosized silver-anionic clay matrix as nanostructured ensembles with antimicrobial activity](#)

INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS (ELSEVIER PRESS), 34 (2009) 534-539.

5. G. Carja (corresponding author), Y. Kameshima, C. Madhosoodana, K. Okada
[Mn - Ce / ZSM5 as a new superior catalyst for NO reduction with NH₃](#)

APPLIED CATALYSIS B (ELSEVIER PRESS), 73 (2007) 60-64.

6. G. Carja (corresponding author), R. Nakamura, H. Niiyama
[Tailoring the porous properties of iron containing mixed oxides for As \(V\) removal from aqueous solutions](#)

MICROPOROUS AND MESOPOROUS MATERIALS (ELSEVIER PRESS), 83 (2005) 94-100.

7. G. Carja, Delahay G., Signorile C, Coq B,
[Fe-Ce-ZSM-5 a new catalyst of outstanding properties in the selective catalytic reduction of NO with NH₃.](#)

CHEMICAL COMMUNICATIONS (ROYAL SOCIETY PRESS), 2004 (12) 1404 - 1405.

8. G. Carja (corresponding author), G. Delahay
[Mesoporous mixed oxides derived from pillared oxovanadates layered double hydroxides\(LDH\) as new catalysts for the process of the SCR of NO_x by ammonia](#)

APPLIED CATALYSIS B (ELSEVIER PRESS), 47 (1) (2004) 59-66.

9. G. Carja (corresponding author), R. Nakamura, T. Aida, H. Niiyama
[Mg/V/Al mixed oxides with mesoporous properties using layered double hydroxides as precursors; catalytic behavior for the process of ethylbenzene dehydrogenation to styrene under a CO₂ flow](#)

JOURNAL OF CATALYSIS (ACADEMIC PRESS), 2003, 218 (1) (2003) 104-110.

10. G. Carja (corresponding author), Nakamura R., Niiyama H.
[Copper and iron substituted hydrotalcites as catalysts precursors for methylamines synthesis](#)

APPLIED CATALYSIS A (ELSEVIER PRESS), 136 (2002) 91-102.

Book Chapter:

[Nanostructured assemblies of mesoporous matrices of layered double hydroxides – nanoparticles of iron oxides](#)

G. Carja, Y. Kameshima, A. Nakajima, K. Okada

Book title: **Mesoporous Materials: Properties, Preparation and Applications**
**NOVA SCIENCE PUBLISHER, New York, USA, ISBN-10 1607410516, editor
Lynn T. Burness.**

6. DOMENII DE INTERES STIINTIFIC

Materiale nanostructurate poroase (sinteza, caracterizare fizico-chimica, aplicatii)
Ansamble nanostructurate cu proprietati texturale controlate
Materiale nanostructurate cu aplicatii in cataliza "verde"

7. RESPONSABILITATI ACADEMICE COMPLEMENTARE

- Evaluator pentru FP7 grants (programul People).
- DC Raporteur la European Cooperation in Science and Technology -COST
domeniul: Fizica, materiale si nanostiinte
- Referent stiintific la jurnale internationale din domeniile de interes (e.g.
Applied Catalysis B, Journal of Catalysis, Chemistry of Materials, Chemical
Communication, Environmental Science and Technology).
- Head of the nanostructured layered materials group, Technical University
Gheorghe Asachi of Iasi.
- Membru al Consiliului Cercetarii Stiintifice din Invatamantul Superior
(CNCSIS) 2008-2011.
- Conducator de doctorat in domeniul Inginerie Chimica