

NUME: GABRIELA CARJA

POZITIE ACADEMICA ACTUALA: Profesor universitar, Departamentul de Inginerie Chimica, Facultatea de Inginerie Chimica si Protectia Mediului « Cristofor Simionescu », Universitatea « Gheorghe Asachi » din Iasi.

AFILIERE: Universitatea Tehnica « Gheorghe Asachi din Iasi », Departamentul de Inginerie Chimica, Bulevardul D. Mangeron 67, Iasi, Romania. **E-mail:** gcarja@tuiasi.ro.

**STUDII**

1982-1989 Licenta: Facultatea de Chimie Industriala, Institutul Politehnic Iasi.

1990-1996 Doctorat: Universitatea Tehnica "Gheorghe Asachi" din Iasi.

1997-1998 Postdoctoral: Instituto Superior Tecnico, Lisbon, Portugalia.

1999-2000 Postdoctoral " Course for the Advanced Research in Chemistry and Chemical Engineering", Tokyo Institute of Technology, Japonia.

EXPERIENTA PROFESIONALA & TITLURI ACADEMICE

1990-1996 Asistent, Universitatea Tehnica "Gheorghe Asachi" din Iasi, Catedra de Chimie-Fizica.

1997-2003 Lector, Universitatea Tehnica "Gheorghe Asachi" din Iasi, Catedra de Chimie Fizica.

2004-2007 Conferentiar, Universitatea Tehnica "Gheorghe Asachi" din Iasi, Catedra de Chimie Fizica.

2008-prezent Profesor de Chimie-Fizica, Universitatea Tehnica "Gheorghe Asachi" din Iasi, Departamentul de Inginerie chimica.

2008 - **Conducator de Doctorat in Domeniul Inginerie Chimica**, confirmat prin Ordinul Ministrului Educației, Cercetării și Tineretului MEdCT nr. 27403/28.02.2008, cu 9 teze de doctorat confirmate, 7 doctoranzi in stagiul și 2 teze in co-tutela cu: Universitatea din **Lille**, Franta si Universitatea din **Antwerp**, Belgia.

1997 Cercetator invitat la Universitatea **Oxford**, Anglia.

1999-2000 postdoctoral UNESCO Research Fellow, **Tokyo** Institute of Technology, Japonia si absolventa a cursului "Course for the Advanced Research in Chemistry and Chemical Engineering", Tokyo, Japonia.

Cercetator invitat **Tokyo** Institut of Technology, Japonia, Septembrie-Noiembrie 2005, Octombrie 2006, Iunie-August 2007, Septembrie 2009.

Profesor invitat angajat de Universitatea **Blaise Pascal**, Franta , Iunie, 2013.

Profesor invitat angajat de **Tokyo** Institute of Technology, Japonia, August-Octombrie 2012.

Profesor invitat la Universitatea **Antwerpen**, Belgia, Iunie 2015.

Cercetator invitat la Instituto Mexicano del Petroleo, , **Mexic** Mai-Iunie 2016.

Cercetator invitat la **Lille** University France, Noiembrie 2020.

PREMII (selectiv)

Premiul Academiei Romane „Gheorghe Spacu" 2009, pentru grupul de lucrari cu titlul: „Aplicatii multifunctionale ale matricilor anorganice mesoporoase”

Premiul I la Secțiunea Cercetătorul Anului, Gala Premiilor in Educație, București, 2009.

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

Medalia Tokyo Institute of Technology, Japan, pentru activitatea de cercetare desfasurata la universitatea japoneza.

Diploma **European Materials Research Society** 2014 pentru organizarea Symposium K E-MRS Fall Meeting: Inorganic nanoarchitectonics: from design and fabrication to sustainable solutions

together with Professor Hermelegildo Garcia (University of Valencia, Spain) and dr. Vanessa Prevot (University Blaise Pascal, France).

10 PUBLICATII SELECTATE

1. Darie M., Seftel EM., Mertens M., Ciocarlan RG., Cool P., **Carja G***. (2019) APPLIED CLAY SCIENCE, 182, 105250, (Elsevier Press, I. F. 3.89), Harvesting solar light on a tandem of Pt or Pt-Ag nanoparticles on layered double hydroxides photocatalysts for p-nitrophenol degradation in water.
2. **Carja G***, Grosu E., Mureseanu M., Lutic D. (2017) CATALYSIS SCIENCE and TECHNOLOGY, 7 (22), 5402-5412, (Royal Society of Chemistry Press, I.F. 5.726), A family of solar light responsive photocatalysts obtained using $Zn^{2+}Me^{3+}$ (Me= Al/Ga) LDHs doped with Ga_2O_3 and In_2O_3 and their derived mixed oxides: a case study of phenol/4-nitrophenol decomposition.
3. **Carja G***, Gilea D., Cool P., Seftel E.M. (2018) CHEMCATCHEM, 10 (7), 1598-1606, (Wiley Press, I.F. 4.803), In-situ synthesis of Bi_2O_3 nanoparticles on ZnMeLDHs (Me:Al/Cr) frameworks for the photocatalytic O_2 evolutions from water under solar-light activation.
4. Mikami G., Grosu E.F., Kawamura S. Yoshida Y., **Carja G***, Izumi Y. (2016) APPLIED CATALYSIS B ENVIRONMENTAL, 199, 260-271, (Elsevier Press, I. F. 14.229), Harnessing self-supported Au nanoparticles on layered double hydroxides comprising Zn and Al for enhanced phenols decomposition under solar light.
5. **Carja G***, Grosu E. F., Petrarean C., Nechita N. (2015) NANORESEARCH; 8 (11) pp. 3512-3523 (Springer Press, I.F. 8.893), Self-assemblies of plasmonic gold/layered double hydroxides with highly efficient antiviral effect against the hepatitis B virus.
6. Seftel E.M., Puscasu M.C., Mertens M; Cool P.; **Carja, G***. (2015) APPLIED CATALYSIS B-ENVIRONMENTAL, 164, pp 251-260, (Elsevier Press, I.F. 14.229), Fabrication of CeO_2 /LDH self-assemblies with enhanced photocatalytic performance: A case study on ZnSn-LDH matrix.
7. Kawamura S., Puscasu MC., Yoshida Y., Izumi Y., **Carja, G***. (2015) APPLIED CATALYSIS A, 504, 238-247, (Elsevier Press, I. F. 4.67), Tailoring assemblies of plasmonic silver/gold and zinc-gallium layered double hydroxides for photocatalytic conversion of carbon dioxide using UV-visible light.
8. **Carja G.**, Dartu L., Okada K., Fortunato E., (2013) CHEMICAL ENGINEERING JOURNAL, 222 pp. 60-66 (ELSEVIER PRESS, I.F. 8.355), Nanoparticles of copper oxide on layered double hydroxides and the derived solid solutions as wide spectrum active nano-photocatalysts.
9. **Carja, G.**, Birsanu, M., Okada, K., Garcia, H., (2013) JOURNAL OF MATERIALS CHEMISTRY A, 1, (32) pp: 9092-9098, (Royal Society Press, I.F. 10.737), Composite plasmonic gold/layered double hydroxides and derived mixed oxides as novel photocatalysts for hydrogen generation under solar irradiation.
10. **Carja G.**, Nakajima, A., Dranca, S., Dranca C., Okada K. TiO_2 /ZnLDH as a Self-Assembled Nanocomposite with Photoresponsive Properties JOURNAL OF PHYSICAL CHEMISTRY C (American Chemical Society Press) 2010 vol. 114 Issue: 35 pp: 14722-14728.

Indice Hirsch 27 (Google Scholar), **25** (Web of Science).

ALTE RESPONSABILITATI ACADEMICE (selectiv)

2010-2014. DC Raportor al Comisiei Europene COST domeniul: Fizica, materiale si nanostiinte.
Organizarea de conferinte Internationale: EUROCLAY 2019, Paris, Franta, Nano 2020 Scientific Federation, Noiembrie 2020, Frankfurt, Germany.

Membra a CNCSIS 2008-2011, CNCS 2011-2013, 2016 Comisia Stiinta Materialelor, Membra CNATDCU, vicepresedinta Comisie Stiinta Materialelor, 2010-2012.

Expert evaluator a programelor Europene FP7 si Horizon 2020.