

## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s)

**Cristina Lavinia NISTOR**

Address

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E-mail(s)

[REDACTED]; [cristina.nistor@icechim-pd.ro](mailto:cristina.nistor@icechim-pd.ro)

Nationality

Romanian

Date of birth

[REDACTED]

### Occupational field

**Chemistry / Polymeric Materials Science and Engineering / Eco-Nanotechnologies and Advanced Materials / Nanostructured Polymers and Composites / Hybrids, Colloids, Microemulsions, Bioeconomy**

### Work experience

01.05.2017 – present - Senior Researcher I - Polymeric Materials Science  
04.07.2013 – 01.05.2017 - Senior Researcher II - Polymeric Materials Science;  
01.01.2011 – 04.07.2013 - Senior Researcher III - Polymeric Materials Science;  
01.06.2006 - 01.01.2011 - Scientific Researcher - Polymeric Materials Science;  
06.10.2003 - 01.06.2006 - Research Assistant in Polymeric Materials Science.

Occupation or position held

**Senior Researcher I - Vice-leader of Heterogeneous Systems Team**

Name and address of employer

National Research & Development Institute for Chemistry and Petrochemistry ICECHIM  
Splaiul Independentei No. 202, 6<sup>th</sup> District, 0600021, Bucharest, Romania

Main activities and responsibilities

**Research activity** in the field of **chemical engineering and materials science**: synthesis, processing and characterization of (bio)polymers, of (nano)composites and structured (nano)hybrids; bio-mimetic "intelligent" coatings obtained through nano(bio)synthesis; surface functionalization; mesoporous (bio)materials; nanostructured polymers; silver-micro/nanoparticles and silver-polymer hybrids; (micro)encapsulation of (bio)active substances in silica particles; (micro)emulsion polymerization of functionalized monomers; hybrid polymer - magnetic nanoparticles; polymer-inorganic hybrids obtained by sol-gel process or melting intercalation processing; core-shell particles; environmentally responsive polymeric "intelligent" materials; host-guest hybrid systems; porous clay heterostructures; multifunctional polymer electrolytes; study of interface properties and structural changes in bulk materials or thin films; polymer polyurethane foams (polyurethane polyols and polyether polyols, grafted with styrene-acrylonitrile copolymers (SAN polyols)). **Analytical skills**: evaluation of particles' size (by DLS technique) and dispersions' zeta potential (by LDV technique); surface roughness characterization by contact angle (CA) measurements of the synthesized (nano)materials; evaluation of morphology and phase distribution by scanning electron microscopy (SEM), atomic force microscopy (AFM) and transmission electron microscopy (TEM); assessment of textural properties by N<sub>2</sub> adsorption-desorption method; use of thermal analysis techniques (TG and DSC) for materials characterization; FT-IR, UV-VIS, XRD, XPS and NMR spectroscopy, etc.

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| Management activities:                                         | <ul style="list-style-type: none"> <li>- Vice-leader of the "Heterogeneous Systems Team" from INCDCP-ICECHIM, <a href="http://www.icechim-pd.ro/en/syst_heter/sisteme_heterogene_en.html">http://www.icechim-pd.ro/en/syst_heter/sisteme_heterogene_en.html</a>;</li> <li>- Projects: <ul style="list-style-type: none"> <li>- <b>International projects</b> - key person (9): - FP6 "ENPONA"; FP7 "HARCANA"; ERANET.RUS PLUS "SNIFF"; ERANET COFUND-MANUNET III "DEMETRE"; ERANET ERA-IB2 "CONVERT- SI"; ERANET COFOUND - WATER WORKS "ProWspet"; ERANET - MANUNET II "TOX-HAZ-ASSESS"; ERANET-INCOMERA „BENDIS"; POSDRU/89/1.5/S/55216;</li> <li>- <b>National projects</b>: director (2), partner responsible (4), key person (&gt;30). <ul style="list-style-type: none"> <li>- Project director: 318 PED/ 03.08.2020;</li> <li>- Project director: TE/ 15.08.2020;</li> <li>- Project responsible: 3 PS/2019;</li> <li>- Project responsible: 94 BG/2016;</li> <li>- Project responsible: 118 BG/2016;</li> <li>- Project responsible: 154 PN II /2012.</li> <li>- POS-CCE projects (1) - "FOBICE"- key person;</li> <li>- POC projects (1) – "SECVENT" - key person.</li> </ul> </li> </ul> </li> <li>- Member of the Commission for Subsidy of Technical and Scientific Literature, coordinated by the Consultative Board for Research, Development and Innovation (Romanian Ministry of Research, Innovation and Digitization) (2017 – 2020).</li> <li>- Member of the Body of Experts for the certification of research and development activity - Romanian Ministry of Research, Innovation and Digitization (Ministerial Order no. 20242/13.02.2023)</li> </ul> |
| <b>Education and training</b>                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Dates                                                          | <b>June 2010 - March 2013</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Title of qualification awarded                                 | <b>Postdoctoral fellow</b> – European Social Fund– „Cristofor I. Simionescu" Postdoctoral Fellowship Programme (ID POSDRU/89/1.5/S/55216), Sectoral Operational Programme Human Resources Development 2007 – 2013, (Advanced research in the field of biomaterials)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Principal subjects/occupational skills covered                 | Biomaterials/New methodology for the synthesis of modeled organic-inorganic nano-materials by in situ generation of the inorganic network in the presence of the reactive precursors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Name and type of organization providing education and training | Institute of Macromolecular Chemistry "Petru Poni" Iasi, Romania                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Dates                                                          | <b>November 2005 - October 2009</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Title of qualification awarded                                 | <b>Doctor</b> in Engineering Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Principal subjects/occupational skills covered                 | Chemical Engineering – Modern syntheses of macromolecular compounds/Polyether-modified silica hybrids obtained by sol-gel process                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Name and type of organization providing education and training | University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Dates                                                          | <b>October 2003 - June 2005</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Title of qualification awarded                                 | <b>Master's degree</b> in Bioengineering and Biotechnology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Principal subjects/occupational skills covered                 | Biocompatible substances, systems and materials/ Analytical methods and techniques for characterization of collagen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Name and type of organization providing education and training | University Politehnica of Bucharest, Department of Bioengineering and Biotechnology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Dates                                                          | <b>September 1998 - June 2003</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Title of qualification awarded                                 | <b>Bachelor's degree</b> in Chemical Engineering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Principal subjects/occupational skills covered                 | Technology and synthesis of organic substances and macromolecular compounds; technology of monomer synthesis; macromolecular chemistry; biopolymers and biocomposites; polymer synthesis technology; polymer processing technologies; polymer composites; transfer phenomena in macromolecular compounds; science of oxide materials.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Name and type of organization providing education and training | University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Personal skills and competences

Mother tongue(s)  
Other language(s)  
Social skills and competences  
Organizational skills  
Other skills and competences

Romanian  
English, French  
Creativity, tenacity, teamwork abilities, perseverance, attention to details.  
Co-organizer at 4 international brokerage events for European projects.

### **Training stages abroad:**

- July 2012 – Centre for Research & Technology Hellas (CPERI), Thessaloniki, **Greece**;
- February and September 2012 – University of Cordoba, Department of Organic Chemistry, Cordoba, **Spain**.
- March 2007 - Université de Provence (Aix-Marseille 1), L'Unité de Formation et de Recherche Sciences de la Matière, Marseille, **France**;

### **Short training stages and courses:**

- January 2012 - „Open Courses on Biomaterials”, Montpellier, France;
- March 2012 – „Advances in biomaterials”, Viena, Austria;
- August 2011- Short training stage on Nuclear Magnetic Resonance at Eötvös Loránd University, Budapest, Hungary;
- March 2011 - “Bioactive/Biocompatible Polymeric Materials Spring Training Course”; Zabrze, Poland;
- April 2007 - Short training course in nanoparticles characterization at Malvern Instruments Ltd., Malvern, England;
- October 2005 - Summer Classes at Electronic Microscopy School -SME 2005- INFIM Bucharest

## Additional information

### **PhD thesis**

The PhD scientific title in Chemical Engineering was awarded in **27.11.2009**, . The title of the PhD thesis: “Modern syntheses of macromolecular compounds - Polyether-modified silica hybrids obtained by sol-gel process”.

- ORCID: <https://orcid.org/0000-0002-9200-5807>
- Research Gate: [https://www.researchgate.net/profile/Cristina\\_Nistor2/contributions](https://www.researchgate.net/profile/Cristina_Nistor2/contributions)
- Google Academic:  
<https://scholar.google.com/citations?user=WSWaa2UAAAAJ&hl=ro&oi=ao>
- BrainMap: <https://www.brainmap.ro/cristina-lavinia-nistor>
- Sci Profile: <https://sciprofiles.com/profile/143937>

### **Awards:**

**1. Excellence Award and Gold Medal** for the work “*Process for the preparation of a product with thermal energy storage properties based on a PEG<sub>6000</sub>-silica-carbon nanotubes composite material with stabilized shape*” - based on patent application no., a 00629/2022, **C.L. Nistor**, C.I. Mihăescu, C. Petcu, R. Ianchiş, I.C. Gifu, E. Alexandrescu, presented at the International Salon of Scientific Research, Innovation and Invention PRO INVENT, 21st edition, Cluj-Napoca, Romania, October 25-27 (2023);

**2. Excellence Award and Silver Medal** for the work “*Composition and process for obtaining composite hydrogels based on natural polysaccharides and their application in the three-dimensional printing process*” – based on patent application no. a 2022-00127/2022, Raluca Ianchis, Minodora Maria Marin, Rebeca Ieu Alexa, Ioana Catalina Gifu, Claudia Mihaela Ninciuleanu, Elvira Alexandrescu, Cristina Scomoresenco, Sabina Georgiana Burlacu, Catalin Ioanut Mihaescu, **Cristina Lavinia Nistor**, Cristian Petcu, Horia Iovu, presented at the European Exhibition of Creativity and Innovation EUROINVENT-, Iasi Romania May 11-13 (2023),

**3. Excellence Award and ProINVENT Medal** for the work “*Composition based on synthetic polymer and biopolymer with clay and its production process*” - based on patent application no. a 2018 00411/11.06.2018, Ianchiş Raluca, Gifu Ioana Catalina, Ninciuleanu Claudia Mihaela, Alexandrescu Elvira, Petcu Cristian, **Nistor Cristina Lavinia**, Niţu Sabina, presented at the International Salon of Scientific Research, Innovation and Invention PRO INVENT, 21st edition, Cluj-Napoca, Romania, October 25-27 (2023)

**4. Excellence Award and Gold Medal** for the work “Compositions and process for obtaining composite hydrogels based on natural polysaccharides and their application in the three-dimensional printing process” – based on patent application no. a 2022-00127/2022, R. Ianchis, M.M. Marin, R. Leu Alexa, I.C. Gifu, C.M. Ninciuleanu, E. Alexandrescu, C. Scmoroscenco, S.G. Burlacu, C.I. Mihaescu, **C.L. Nistor**, C. Petcu, H. Iovu, presented at the International Salon of Scientific Research, Innovation and Invention PRO INVENT, 20th edition, Cluj-Napoca, Romania, October 26-28 (2022).

**5. Special Prize** for the paper "Synthesis and Characterization of Green Crosslinked Hydrogels", M.M. Marin, I.C. Gifu, C. Ninciuleanu, E. Alexandrescu, C. Scmoroscenco, S. Burlacu, **C.L. Nistor**, C. Petcu, H. Iovu, R.L. Alexa, R. Ianchis; presented at the 4th International Conference on Emerging Technologies in Materials Engineering EmergeMAT, Bucharest, Romania, November 4-5 (2021);

**6. Special Award of the Romanian Society of Chemistry** for the paper "Innovative Hydrogel Based Inks with Application in Tissue Engineering", R. L. Alexa, H. Iovu, I.C. Radu, G. Vlasceanu, C.M. Ninciuleanu, E. Alexandrescu, C. Mihaescu, C. Scmoroscenco, **C. Nistor**, C. Petcu, R. Ianchis, presented at the conference Priorities of Chemistry for a Sustainable Development - PRIOCHEM XVI Edition, Bucharest, Romania, October 28-30 (2020),

**7. Special Prize** for the work “Synthesis of epoxysilane functionalized silica supports for humic acids immobilization”, M. Sándor, **C.L. Nistor**, V. Purcar, G. Szalontai, R. Stoica, A-M. Szöke, D. Donescu, J. Fazakas, presented at the international symposium *Chemistry Priorities for a Lasting Development PRIOCHEM*, Edition X, 30-31 October (2014).

**8. 1st Prize** for the work “Film forming nanohybrids with polyether polyols”, **C.L. Nistor**, D. Donescu, C. Petcu, V. Stefan, M. Ghiurea, S. Serban, C. Radovici, presented at the international symposium *Chemistry Priorities for a Lasting Development PRIOCHEM*, II-nd Edition, 26-27 October (2006).

#### Guest Editor - Special Issues:

1. International Journal of Molecular Science (IJMS) - Nanocomposites: Preparation, Properties and Applications, MDPI, 2023;
2. International Journal of Molecular Science (IJMS) - Application of Nanostructured Polymers and Composites, MDPI, 2023;
3. Pharmaceutics - Mesoporous Materials for Biomedical Application, MDPI, 2023;
4. Molecules - Advanced Polymer Nanocomposites for Energy Applications for a Sustainable Environment, MDPI, 2023.

**Reviewer** for publications belonging to prestigious publishers: Wiley, Elsevier, Springer., MDPI.

**h index** Google Scholars = 16; **i<sub>10</sub>-index** Google Scholars = 24; **Citations: 926.**

**h index** Scopus = 16; **Citations: 890.**

**71 ISI publications** with **691 citations** from the **Web of Science Core Collection.**

**Annexes** Publications, communications, patents and associated projects

**Date:**



**Signature:**

Dr. eng. Cristina Lavinia NISTOR



## Activity report\_Cristina Lavinia Nistor

### ISI Articles

1. Raluca Ianchis, Maria Minodora Marin, Rebeca Leu Alexa, Ioana Catalina Gifu, Elvira Alexandrescu, Gratiela Gradisteanu Pircalabioru, George Mihail Vlasceanu, George Mihail Teodorescu, Andrada Serafim, Silviu Preda, **Cristina Lavinia Nistor**, Cristian Petcu, „Nanoclay-reinforced alginate/salecan composite inks for 3D printing applications”, *International Journal of Bioprinting* **2024**, 10(1), 0967, <https://doi.org/10.36922/ijb.0967>;
2. **C.L. Nistor**, I.C. Gifu, E.M. Anghel, R. Ianchis, C.-D. Cirstea, C.A. Nicolae, A.R. Gabor, I. Atkinson, C. Petcu, *Novel PEG6000–Silica-MWCNTs Shape-Stabilized Composite Phase-Change Materials (ssCPCMs) for Thermal-Energy Storage*, *Polymers* **2023**, 15(14), 3022; <https://doi.org/10.3390/polym15143022>;
3. Katsina A.U., Mihai S., Matei D., Cursaru D.-L.; Şomoghi R., **Nistor C.L.**, *Construction of Pt@BiFeO<sub>3</sub> Xerogel-Supported O-g-C<sub>3</sub>N<sub>4</sub> Heterojunction System for Enhanced Visible-Light Activity towards Photocatalytic Degradation of Rhodamine B*, *Gels* **2023**, 9(6), 471; <https://doi.org/10.3390/gels9060471>;
4. Cristina Scamoroscenco, Mircea Teodorescu, **Cristina Lavinia Nistor**, Ioana Catalina Gifu, Cristian Petcu, Daniel Dumitru Banciu, Adela Banciu, Ludmila Otilia Cinteza, *Preparation and In Vitro Characterization of Alkyl Polyglucoside-Based Microemulsion for Topical Administration of Curcumin*, *Pharmaceutics* **2023**, 15(5), 1420; <https://doi.org/10.3390/pharmaceutics15051420>;
5. Maria Minodora Marin, Ioana Catalina Gifu, Gratiela Gradisteanu Pircalabioru, Madalina Albu Kaya, Rodica Roxana Constantinescu, Rebeca Leu Alexa, Bogdan Trica, Elvira Alexandrescu, **Cristina Lavinia Nistor**, Cristian Petcu, Raluca Ianchis, *Microbial Polysaccharide-Based Formulation with Silica Nanoparticles; A New Hydrogel Nanocomposite for 3D Printing*, *Gels* **2023**, 9(5), 425; <https://doi.org/10.3390/gels9050425>;
6. Ioana Cătălina Gifu, Raluca Ianchiş, **Cristina Lavinia Nistor**, Cristian Petcu, Irina Fierascu, Radu Claudiu Fierascu, *Polyelectrolyte Coatings—A Viable Approach for Cultural Heritage Protection*, *Materials* **2023**, 16(7), 2873; <https://doi.org/10.3390/ma16072873>;
7. Danuta Matei, Abubakar Usman Katsina, Sonia Mihai, Diana Luciana Cursaru, Raluca Somoghi, **Cristina Lavinia Nistor**, *Synthesis of Ruthenium-Promoted ZnO/SBA-15 Composites for Enhanced Photocatalytic Degradation of Methylene Blue Dye*, *Polymers* **2023**, 15, 1210. <https://doi.org/10.3390/polym15051210>.
8. Maria Minodora Marin, Madalina Albu Kaya, Durmus Alpaslan Kaya, Roxana Constantinescu, Bogdan Trica, Ioana Catalina Gifu, Elvira Alexandrescu, **Cristina Lavinia Nistor**, Rebeca Leu Alexa, Raluca Ianchis, *Novel Nanocomposite Hydrogels Based on Crosslinked Microbial Polysaccharide as Potential Bioactive Wound Dressings*, *Materials* **2023**, 16(3), 982; <https://doi.org/10.3390/ma16030982>;
9. Raluca Ianchis, Rebeca Leu Alexa, Ioana Catalina Gifu, Maria Minodora Marin, Elvira Alexandrescu, Roxana Constantinescu, Andrada Serafim, **Cristina Lavinia Nistor**, Cristian Petcu, *Novel Green Crosslinked Salecan Hydrogels and Preliminary Investigation of Their Use in 3D Printing*, *Pharmaceutics* **2023**, 15(2), 373; <https://doi.org/10.3390/pharmaceutics15020373>;
10. Florin Ciuprina, Denis Mihaela Panaitescu, Laura Enache, Celina Maria Damian, Ramona Marina Grigorescu, Augusta Raluca Gabor, Cristian Andi Nicolae, **Cristina Lavinia Nistor**, Roxana Trusca, *Control of Dielectric and Mechanical Properties of Styrenic Block Copolymer by Graphite Incorporation*, *Materials*, **2022**, 15(21), 7577; <https://doi.org/10.3390/ma15217577>.
11. Maria Antonia Tănase, Andreia Cristina Soare, Lia Mara Diţu, **Cristina Lavinia Nistor**, Catalin Ionut Mihaescu, Ioana Catalina Gifu, Cristian Petcu, Ludmila Otilia Cinteza, *Influence of the Hydrophobicity of Pluronic Micelles Encapsulating Curcumin on the Membrane Permeability and Enhancement of Photoinduced Antibacterial Activity*, *Pharmaceutics*, **2022**, 14(10), 2137; <https://doi.org/10.3390/pharmaceutics14102137>
12. Claudia Mihaela Ninciuleanu, Raluca Ianchiş, Elvira Alexandrescu, Cătălin Ionuţ Mihăescu, Sabina Burlacu, Bogdan Trică, **Cristina Lavinia Nistor**, Silviu Preda, Cristina Scamoroscenco, Cătălina Gifu, Cristian Petcu, Mircea Teodorescu, *Adjusting Some Properties of Poly(methacrylic acid) (Nano)Composite Hydrogels by Means of Silicon-Containing Inorganic Fillers*, *Int. J. Mol. Sci.* **2022**, 23(18), 10320; <https://doi.org/10.3390/ijms231810320>.
13. Rusen Edina, Diacon Aurel, Mitran Raul-Augustin, Dinescu Adrian, **Nistor Cristina**, Şomoghi Raluca, Cristian Boscomea Aurelian; Mănăilă-Maximean Doina, *E7 nematic liquid crystal encapsulated in a polymeric photonic crystal*, *European Polymer Journal*, **2022**, 17515, 111374.
14. I.R. Suica-Bunghez, I.C. Covaliu, A.A. Sorescu, **L.C. Nistor**, M. Constantin, I. Raut, R.M. Ion, *Silver nanoparticles obtained by eco-friendly method using *Galanthus nivalis* plant for wood conservation*, *Optoelectronics and Advanced Materials – Rapid Communications*, **2022**, 16/ 1-2, 79 – 89;
15. **Cristina Lavinia Nistor**, Catalin Ionut Mihaescu, Daniela Bala, Ioana Catalina Gifu, Claudia Mihaela Ninciuleanu, Sabina Georgiana Burlacu, Cristian Petcu, Mariana-Gratiela Vladu, Adi Ghebaur, Lenuta Stroe, Ludmila Otilia Cinteza, *Novel Hydrophobic Nanostructured Antibacterial Coatings for Metallic Surface Protection*, *Coatings*, **2022**, 12, 253. <https://doi.org/10.3390/coatings12020253>;
16. Ana-Alexandra Sorescu, Alexandrina Nuta, Rodica-Mariana Ion, Madalina Grigore, **Cristina-Lavinia Nistor**, Ioana-Raluca Suica-Bunghez, *“Purple Kohlraibi Peel, a Natural Material for Eco-Friendly Silver and Gold Nanoparticles”*, *Environmental Engineering and Management Journal*, **2021**, 20(4), 605-611
17. Anda I. Voicu, Sorina A. Garea, Adi Ghebaur, **Cristina L. Nistor**, Andrei Sarbu, Eugeniu Vasile, Raul Mitran, Horia Iovu, *New nanocarriers based on Porous Clay Heterostructures (PCH) designed for methotrexate delivery*, *Microporous and Mesoporous Materials*, **2021**, 328, 111434, <https://doi.org/10.1016/j.micromeso.2021.111434>.



18. C. Scamoroscenco, M. Teodorescu, A. Raducan, M. Stan, S.N. Voicu, B. Trica, C.M. Ninciuleanu, **C.L. Nistor**, C.I. Mihaescu, C. Petcu, L.O. Cinteza, "Novel gel microemulsion as topical drug delivery system for curcumin in dermatocosmetics", *Pharmaceutics*, **2021**, 13(4), 505.
19. M.A. Tanase, A. Raducan, P. Oancea, L.M. Ditu, M. Stan, C. Petcu, C. Scamoroscenco, C.M. Ninciuleanu, **C.L. Nistor**, L.O. Cinteza, "Mixed pluronic-cremophor polymeric micelles as nanocarriers for poorly soluble antibiotics-the influence on the antibacterial activity", *Pharmaceutics*, **2021**, 13(4), 435; <https://doi.org/10.3390/pharmaceutics13040435>;
20. C.M. Ninciuleanu, R. Ianchis, E. Alexandrescu, C.I. Mihaescu, C. Scamoroscenco, **C.L. Nistor**, S. Preda, C. Petcu, M. Teodorescu, "The effects of monomer, crosslinking agent, and filler concentrations on the viscoelastic and swelling properties of poly(methacrylic acid) hydrogels: A Comparison", *Materials*, **2021**, 14(91), 2305
21. M.A. Tanase, M. Marinescu, P. Oancea, A. Raducan, C.I. Mihaescu, E. Alexandrescu, **C.L. Nistor**, L.-I. Jinga, L.M. Ditu, C. Petcu, L.O. Cinteza, "Antibacterial and photocatalytic properties of ZnO nanoparticles obtained from chemical versus Saponaria officinalis extract-mediated synthesis", *Molecules*, **2021**, 26(71), 2072.
22. Raluca Ianchis, Claudia Ninciuleanu, Ioana Catalina Gifu, Elvira Alexandrescu, **Cristina Lavinia Nistor**, Sabina Georgiana Nitu, Cristian Petcu, Hydrogel-clay nanocomposites as carriers for controlled release, *Current Medicinal Chemistry*, **2020**, 27(6), 919-954, doi: 10.2174/0929867325666180831151055;
23. Ioana Cătălina Gifu, Monica Elisabeta Maxim, Ludmila Otilia Cinteza, Marcela Popa, Ludmila Aricov, Anca Ruxandra Leontieș, Mihai Anastasescu, Dan-Florin Anghel, Raluca Ianchiș, Claudia Mihaela Ninciuleanu, Sabina Georgiana Nițu, **Cristina Lavinia Nistor**, Cristian Petcu, "Antimicrobial Activities of Hydrophobically Modified Poly(Acrylate) Films and Their Complexes with Different Chain Length Cationic Surfactants", *Coatings*, **2019**, <https://doi.org/10.3390/coatings9040244>.
24. Ludmila Otilia Cinteza, Cristina Scamoroscenco, Sorina Voicu, **Cristina Lavinia Nistor**, Sabina Gerorgiana Nitu, Bogdan Trica, Maria Luiza Jecu, Cristian Petcu, "Chitosan-Stabilized Ag Nanoparticles with Superior Biocompatibility and Their Synergistic Antibacterial Effect in Mixtures with Essential Oils", *Nanomaterials (Basel)*, 8(10) **2018**, E826, <https://doi.org/10.3390/nano8100826>;
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#### Guest Editor - Special Issues:

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2. "How to Protect Water, Soil and Plants Production All Together (ProWspen)", COFUND-WATER WORKS ERANET, 14/06/2017-31/03/2020, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest, [Romania](#).
3. „Development of a demonstrator to produce next generation plant biostimulants based on root exudates (DEMETRE)”, ERA.NET - COFUND-MANUNET III, 2018-2019, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest, [Romania](#).

4. "Manufacturing of new analytical systems for toxin hazard assessment in dairy industry (TOX-HAZ-ASSESS)", ERANET – MANUNET II, 14/06/2017-13/06/2019, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest, [Romania](#).
5. "Conversion of phytogenic silica reach food industry by-products into value-added products (Convert-Si)", 2016-2018, ERANET – ERA - IB2, 62/2016, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest, [Romania](#).
6. "Surface plasmon resonance multi-sensor for real time illicit drugs detection (SNIFF)", 2016-2019, ERA.NET.RUS PLUS, 04.01.2016 - 30.06.2018, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest, [Romania](#).
7. European Social Fund– „Cristofor I. Simionescu" Postdoctoral Fellowship Programme (ID POSDRU/89/1.5/S/55216) (in biomaterials field), Sectoral Operational Programme Human Resources Development 2007 – 2013;
8. European Project FP7: [High Aspect Ratio Carbon-based Nanocomposites - HARCANA](#), 2008-2010, PC7-Large, Institute of Polymer Research, Germany;
9. European Project FP6: [Enhancement the quality participation at FP6 projects in the polymer nanomaterials field - ENPONA](#), 2005-2008, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest, [Romania](#).

#### National Projects:

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2. Advanced nanoparticle-based materials with synergistic effect on neuronal oxidative stress and beta-amyloid fibrillation for preventive treatment in Alzheimer's disease (Nanonerves), PN III – P2 - 2.1 – PED, 2020-2022, 318 PED/2020, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest, [Romania](#) — **project director**
3. New Intelligent Anti-Corrosion Coatings for Active Protection of Metallic Surfaces, Enhanced with Stimuli - Responsive Mesoporous Silica Nanocontainers Loaded with Organic Inhibitors (CorrAPEL), PN III-P1-1.1-TE, 2020-2022, TE 85/2020, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest, [Romania](#) – **project director**;
4. Advanced material based on push-pull extended  $\pi$ -conjugated azo-chromophores in functional matrices with enhanced NLO properties, PN III – P2 - 2.1 – PED, 2020-2022, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest, [Romania](#);
5. Innovative 3D Printed Nanocomposite Constructions Obtained from Marine Resources (Alginate, Salecan) and Natural Clay with Specific Applications in Bone Regeneration - 3D\_ALSAC, PN III – P2 - 2.1 – PED, 2020-2022, 332 PED/2020, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest, [Romania](#);
6. Research on the Risks Posed by Food Contact Materials, by Groups of Materials. Harmonization with European Legislation, project no. 3PS/ 28.08.2019 by Sectoral Research and Development Plan of Romanian Ministry of Education and Research, 2019-2020, IBA, - **partener team lider**;
7. Innovative technologies based on polymers for the obtaining of new advanced materials (NAPOLI 19), PN-III-P1-1.2-PCCDI, 2018-2020, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest, [Romania](#);
8. Contingency of CBRN hazards and improvement of national security resources, PN-III-P1-1.2-PCCDI, 2018-2020, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest, [Romania](#);
9. Emerging technologies for the industrial capitalization of 2D structures (graphene and nongraphenic), PN-III-P1-1.2-PCCDI, 2018-2020, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest, [Romania](#);
10. Closing the bioeconomy value chains by manufacturing market demanded innovative bioproducts (PRO-SPER), PN-III-P1-1.2-PCCDI, 2018-2020, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest, [Romania](#);
11. Smart materials for medical applications, PN-III-P1-1.2-PCCDI, 2018-2020, UNIVERSITY POLITEHNICA OF BUCHAREST;
12. Innovative green technologies for valorisation of lignocellulose (INTELLIGENCE), PN-III-P1-1.1-TE, 2018-2020, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest, [Romania](#);
13. Advanced Foliar Fertilizer for Vegetables Growing (LEGOFERT), PN-III-P2-2.1-PTE-2016-0023, 06/10/2016-01/10/2018, Coordinating institution: AFR FERT - PROTECT PLANT SRL, [Romania](#).
14. Novel anti-corrosion and anti-icing ZnO nanostructured materials obtained by ecofriendly methods – NOCORIC, PN-III-P2-2.1-PED-2016-1332, 03/01/2017-03/07/2018, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest, [Romania](#).
15. A next generation plant biostimulants product (NEXUS), PN-III-P2-2.1-PED-2016-0253, 17/08/2017-30/12/20, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest, [Romania](#)
16. Increasing performance/competitiveness by improving the technology of smart products fabrication with superior biocompatibility and antibacterial properties for cosmeo-medical applications (IntAntiB), 2016-2018, PNIII 94BG / 2016, University of Bucharest, Bucharest – **partner team responsible**, <http://www.unibuc.ro/n/cercetare/94BG-2016.php>;
17. Development and optimization of manufacturing technology for porous ceramics used in horticulture (CERAM F), 2016-2018, PNIII 19 BG / 2016, University Babes Bolyai, Cluj.
18. Contributions to enhancing the Sanimed SRL's competitiveness by the knowledge assimilation and potential production implementation of some 3D collagen-polymer hybrid matrices intended to tissue repair (3D-COLL-POL), 2016-2018, PNIII 118 BG / 2016, University of Bucharest, Bucharest— **partner team responsible**.
19. Optimization and validation of an advanced material and technology default based on biopolymer-modified clay as carriers for controlled release of doxorubicin in gastrointestinal tract (DOXACLAY), PN-III-P2-2.1-PED-2016-1896, 03/01/2017-02/07/2018, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest, [Romania](#)
20. New nanosized cellulose fillers for fully biodegradable packaging solutions (FULLBIOPACK), 2015-2017, PNII-RU-TE-2014-4-1139, 57/2015, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest, <http://icechim-rezultate.ro/proiect.php?id=23>

21. Drug delivery hybrids based on polymers and porous clay heterostructure (DELPOCLAY), 2012-2015, PNII 154/2012, Polytechnic University of Bucharest – **partner team responsible**, <http://www.tsocm.pub.ro/cercetare/DELPOCLAY/> ;
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23. Biocompatible innovative systems used as carriers for the controlled release of essential oils, PN.16.31.03.04, 2015-2017, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest
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25. Eco-friendly food packaging from last generation multifunctional bioplastics, 2012-2016, PN-II-PT-PCCA, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest;
26. Thermosensitive energy saving systems with tailored solar reflecting/absorbing properties for construction structures (THERMOSOLAR), 2012-2016, PN II Collaborative, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest, <http://www.thermosolar.roit.ro/> ;
27. [Eco-efficient solutions for plastic waste management using degradative potential of biological systems](#), 2008-2011, PN II, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest;
28. Construction elements of nanocomposites based on phase-change materials (PCM)-epoxy to store solar and waste energy used in buildings with low energy consumption (NANOSTOC), 2007-2010, PN II, Institute of Physical Chemistry I.G. Murgulescu Bucharest;
29. [Medical device for articular diseases treatment based on nanomaterials and magnetic field effects](#), (ARTROMAG), 2008-2011, PN II, Colentina Clinic Hospital– Institute of Medicine and Neuroscience N. Gh. Lupu Bucuresti;
30. Bioactive organic nanocomposites for food packaging (NABIECO), 2007-2009, PN II, National Research & Development Institute for Chemistry and Petrochemistry - ICECHIM Bucharest;
31. New Nanostructured Materials with Controlled Properties and Biomedical Applications (BIONANOMAT), 2005-2008, CEEX, INCDSB – Bucharest;
32. [Nanocomposites with electric and magnetic properties for high selective separative processes](#); (NEMSEPSSEL), PN II, 2007-2010, University Politehnica of Bucharest;
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35. Integrated Research Network for the Design of Knowledge-based Multifunctional Polymeric Materials, 2005-2008, CEEX, [Institute of Macromolecular Chemistry](#) Petru Poni Iasi, Romania;
36. [Multi-functional advanced materials with silver nano-powders addition](#) (NACOLAG), 2005-2008, CEEX, National Institute for R&D in Electrical Engineering ICPE-CA, Romania;
37. [Surface phenomena and organization in disperse systems with anisotropic fluids](#), 2005-2008, CEEX, National Institute for Laser, Plasma and Radiation Physics, Romania.

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