

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s)

Cristina Lavinia NISTOR

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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, 6th 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 N₂ adsorption-desorption method; use of thermal analysis techniques (TG and DSC) for materials characterization; FT-IR, UV-VIS, XRD, XPS and NMR spectroscopy, etc.

Management activities:	- Vice-leader of the "Heterogeneous Systems Team" from INCDCP-ICECHIM, http://www.icechim-pd.ro/en/syst_heter/sisteme_heterogene_en.html; - Projects: - International projects - 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 "ProWspen"; ERANET - MANUNET II "TOX-HAZ-ASSESS"; ERANET-INCOMERA „BENDIS"; POSDRU/89/1.5/S/55216; - National projects: director (2), partner responsible (4), key person (>30). - Project director: 318 PED/ 03.08.2020; - Project director: TE/ 15.08.2020; - Project responsible: 3 PS/2019; - Project responsible: 94 BG/2016; - Project responsible: 118 BG/2016; - Project responsible: 154 PN II /2012. - POS-CCE projects (1) - "FOBICE"- key person; - POC projects (1) – "SECVENT" - key person. - 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). - 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)
Education and training	
Dates	June 2010 - March 2013
Title of qualification awarded	Postdoctoral fellow – 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	November 2005 - October 2009
Title of qualification awarded	Doctor 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	October 2003 - June 2005
Title of qualification awarded	Master's degree 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	September 1998 - June 2003
Title of qualification awarded	Bachelor's degree 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
- 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 PEG₆₀₀₀-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; **i₁₀-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@BiFeO₃ Xerogel-Supported O-g-C₃N₄ 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 Scamorosenco, 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 Scamorosenco, 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 Boscornea Aurelian; Mănăilă-Maximean Doina, *E7 nematic liquid crystal encapsulated in a polymeric photonic crystal*, *European Polymer Journal*, **2022**, 17515, 111374.
14. I.R. Suica-Bunghuez, 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-Bunghuez, *“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. Scamorosenco, 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. Scamorosenco, 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. Scamorosenco, **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), 202.
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 Scamorosenco, 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>;
25. S.M. Doncea, I. Raut, **C.L. Nistor**, I.C. Bujanca, Synthesis and biomedical application of hydroxyapatite as carrier for loading and controlled delivery of antibiotics, *Revista de Chimie*, **2018**, 69(12) 3400-3405;
26. M. Mateescu, S.M. Doncea, I.Chican, **C.L. Nistor**, I.C. Bujanca, Synthesis of calcium carbonate micro particles using emulsion membrane process applied for drug release studies, *Revista de Chimie*, **2018**, 68(10) 2320-2324;
27. Cinteza Ludmila Otilia, Voicu Sorina Nicoleta, Popa Marcela, Marutescu Luminita, Nitu Sabina, Somoghi Raluca, **Nistor Cristina Lavinia**, Petcu Cristian, "Rational design of silver nanoparticles with reduced toxicity and enhanced antimicrobial activity", *Romanian Biotechnological Letters*, 23/4, 13878-13886 (**2018**);
28. Raluca Ianchis, Claudia M. Ninciuleanu, Ioana C. Gifu, Elvira Alexandrescu, Raluca Somoghi, Augusta Raluca Gabor, Silviu Preda, **Cristina Lavinia Nistor**, Sabina Nitu, Cristian Petcu, Madalina Icriverzi, Paula E Florian, Anca M Roseanu, "Novel Hydrogel-Advanced Modified Clay Nanocomposites as Possible Vehicles for Drug Delivery and Controlled Release", *Nanomaterials*, **7** (**2017**) 443, <https://doi.org/10.3390/nano7120443>.
29. Stefan-Ovidiu Dima, Denis-Mihaela Panaitescu, Csongor Orban, Marius Ghiurea, Sanda-Maria Doncea, Radu Claudiu Fierascu, **Cristina Lavinia Nistor**, Elvira Alexandrescu, Cristian-Andi Nicolae, Bogdan Trică, Angela Moraru, Florin Oancea, "Bacterial Nanocellulose from Side-Streams of Kombucha Beverages Production: Preparation and Physical-Chemical Properties", *Polymers*, 9/8 (**2017**) 374. doi:10.3390/polym9080374;
30. Mariana Voicescu, Sorana Ionescu, Jose M. Calderon-Moreno, **Cristina L. Nistor**, "Physicochemical characterization of 3,6-diHydroxyflavone binding BSA immobilized on PEG-coated silver nanoparticles", *Journal of Nanoparticle Research* **2** (**2017**) 19-38. <https://doi.org/10.1007/s11051-016-3727-0>.
31. M. Voicescu, S. Ionescu, **C.L. Nistor**, "Spectroscopic study of 3-Hydroxyflavone - protein interaction in lipidic bi-layers immobilized on silver nanoparticles", *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* **170** (**2017**) 1-8, <http://dx.doi.org/10.1016/j.saa.2016.06.039>.
32. M. Voicescu, S. Ionescu, O. Craciunescu, R. Tatia, L. Moldovan, V.S. Teodorescu, **C.L. Nistor**, "Synthesis, physicochemical characterization and cytotoxic properties of riboflavin loaded Myrj52-silver nanoparticles", *New Journal of Chemistry*, **41** (**2017**) 5533-5541.
33. M. Mateescu, S.M. Doncea, I.E. Chican, **C.L. Nistor**, Ina Bujanca, "Synthesis of calcium carbonate micro particles using emulsion membrane process applied for drug release studies", *Revista de Chimie*, 68(10) (**2017**) 2320-2324.
34. Anda Ionelia Mihai (Voicu), Sorina Alexandra Garea, Eugeniu Vasile, **Cristina Lavinia Nistor**, Horia Iovu, "Functionalization of porous clay heterostructures with silane coupling agents", *Materiale Plastice*, 54/2 (**2017**) 341-344.
35. Cătălin Ilie Spătaru, Raluca Ianchiș, Cristian Petcu, **Cristina Lavinia Nistor**, Violeta Purcar, Bogdan Trică, Sabina Georgiana Nițu, Raluca Șomoghi, Elvira Alexandrescu, Florin Oancea, Dan Donescu, "Synthesis of Non-Toxic Silica Particles Stabilized by Molecular Complex Oleic-Acid/Sodium Oleate", *Int. J. Mol. Sci.* 17/11 (**2016**), 1936, <https://doi.org/10.3390/ijms17111936>;
36. M. Sándor, **C.L. Nistor***, C. Petcu, V. Purcar, M. Vuluga, S.G. Nițu, B. Trică, D. Donescu, "Oxidative Degradation of Polyether Polyol - Silica Hybrids Prepared by Sol-Gel Process", *Revista de Chimie*, 64/10 (**2016**) 2053-2058.
37. W. Ballout, A. Périchaud, L. Caserta, M. Devassine, **C.L. Nistor**, R. Isakov, "Encapsulation methods for photo-polymerisable self-healing formulations", *Journal of Microencapsulation: Micro and Nano Carriers*, 33/4 (**2016**) 331-343. doi: <http://dx.doi.org/10.1080/02652048.2016.1194903>
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