

CURRICULUM VITAE

Name: Candu

First name: Natalia

Phone number: +40213051441

Place of birth: Republic of Moldova

Citizenship: Romanian

Title: PhD, 2011.

E-mail: natalia.candu@chimie.unibuc.ro

Web page: <https://unibuc.ro/user/natalia.candu/>

URL: <http://www.researcherid.com/rid/B-6076-2012>

<http://orcid.org/0000-0003-1012-5141>

EDUCATION

2007 - 2011: PhD, University of Bucharest, Faculty of Chemistry, Romania. Thesis title: "*Heterogeneous catalytic synthesis of fine chemicals intermediates*".

2005 - 2007 Master degree studied in French, University of Bucharest, Faculty of Chemistry, Bucharest, Romania. Dissertation title: "*Chemo- and Diastereoselective catalytic hydrogenation of intermediaries used in drugs synthesis of formoterol*".

2001 – 2005 Graduate in Chemistry, State University of Moldova, Faculty of Chemistry and Chemical Technology, Chisinau, Republic of Moldova. Graduation Thesis title: "*Coordination compounds of copper (II) with isatin-beta-thiosemicarbazones and sulfanilamides*".

PROFESSIONAL EXPERIENCE

2016-present: *Assistant Professor* at the University of Bucharest, Faculty of Chemistry, Department of Inorganic and Organic Chemistry, Biochemistry and Catalysis.

2016-present: *Researcher* at the University of Bucharest, Faculty of Chemistry, Department of Inorganic and Organic Chemistry, Biochemistry and Catalysis. Catalysis and Catalytic Processes Research Centre.

01.07.2018-2020: *Researcher* at the "Costin D. Nenitescu" Center of Organic Chemistry of Romanian Academy.

2008- 2016: *Research assistant* at the University of Bucharest, Faculty of Chemistry, Department of Inorganic and Organic Chemistry, Biochemistry and Catalysis, Catalysis and Catalytic Processes Research Centre.

RESEARCH STAGES

2018 (04.09-21.09.2018) Researcher at the Institut de Chimie de Nice, Université Nice Sophia Antipolis, in group of Prof. Veronique Michelet. Researcher stage was supported by the Ministère de l'Éducation, de la Recherche et des Affaires Étrangères (Brancusi Program) of France (PN-III-CEI-BIM-PM, nr. 80BM/2017).

2018 (25.06-29.06.2018) Participation to EFCATS School on Catalysis, Liblice Castle, Czech Republic.

2018 (19.02.-30.03) Researcher at the Catholic University of Leuven, in group of Prof. Bert Sels, organized by COST Action FP1306.

2016- Participation to summer school "2nd Training School" organized by COST Action FP1306 "LIGNOVAL", University of Leipzig, Leipzig, Germany, 29 - 30th August 2016.

2009- Scientific training session in authorship, the project "PhD School of Excellence - Increase visibility through scientific publication" financed by European Structural Funds and managed by CNCSIS.

ADMINISTRATIVE ACTIVITIES AND RESPONSIBILITIES

2025- Member of the organizing committee of the 14th International Congress of the Romanian Catalysis Society, Babes Bolyai University, Cluj-Napoca, Romania.

2022- Member of the organizing committee of the 13th International Congress of the Romanian Catalysis Society, University of Iasi, Romania.

2019- Member of the organizing committee of the 12th International Symposium of the Romanian Catalysis Society, University of Bucharest, Romania.

2008- present - Member of the Research Center **Catalysts and Catalytic Processes**. Team member of 12 national projects and one international project.

2010 - Member of the organizing committee of the 10th International Congress of the Romanian Catalysis Society, University of Iasi, Romania.

PRINCIPAL SCIENTIFIC ACTIVITIES

- **Catalysts synthesis**– metal on support, micro- and mesoporous materials, mono-metal or bimetal oxides, nanomaterials with magnetic properties.

- **Physicochemical characterization of the solids surface**: X ray diffraction (XRD), UV-Vis and Raman, FTIR and DRIFT studies, DLS, BET; TG-DTA, Screening of the catalysts.

- **Analytical methods** – analysis of the reactants and reaction products by gas-chromatography (TCD and FID, packed and capillary columns), liquid chromatography (HPLC and UPLC), mass spectrometry (MS, GC-MS, GC-MS-IR).

- **Catalytic synthesis**- hydrogenation reactions, isomerizations, alkylation, coupling reactions: C-C, C-N, C-O, synthesis of fine chemicals and pharmaceutical intermediates, biomass valorisation.

MAJOR ACHIEVEMENTS AND SCIENTIFIC DISSEMINATION

36 Articles

1. Candu, N., Coman, S., Parvulescu, V. I., El Haskouri, J., Amoros, P., Beltran, D., (2009) “Metal triflates incorporated in mesoporous catalysts for green synthesis of fine chemicals”, *Top. Catal.*, 52, 571–578 (IF= 2.226).
2. Parvulescu, V. I., Coman, S., Candu, N., El Haskouri, J., Amoros, P., Beltran, D., (2009) “Synthesis, characterization and catalytic behavior of SnTf/MCM-41 and SnTf/UVM-7 as new green catalysts for etherification reactions”, *J. Mat. Sci.*, 44, 6693–6700 (IF= 3.442).
3. Candu, N., Musteata, M., Coman, S. M., Parvulescu, V. I., El Haskouri, J., Amoros, P., Beltran, D., (2010): AlTf/UVM-7 – Highly active catalysts for the synthesis of non-ionic surfactants structures, *Chem Eng J*, 161, 363-370 (IF= 8,355).
4. Candu, N., Coman, S., Parvulescu, V. I., El Haskouri, J., Amoros, P., Beltran, D., (2010) “Synthesis, characterization and catalytic behavior of AlTf/UVM-7 as new green catalysts for the synthesis of fine chemicals, *Appl.Catal. A: general*, 372, 58–66 (IF= 4,630).
5. Candu, N., Wuttke, S., Kemnitz, E., Coman, S. M., Parvulescu, V. I., (2011) “Friedel-Crafts alkylations on nanoscopic inorganic fluorides”, *Appl. Catal. A: general*, 391, 169-174 (IF= 4,630).
6. Candu, N., Florea, M., Coman, S., Parvulescu, V. I. (2011): Benzylation of benzene with benzyl alcohol on zeolite catalysts, *Appl. Catal A: General*, 393, 206–214 (IF= 4,630).
7. Candu, N., Ciobanu, M., Filip, P., Haskouri, J.E., Guillem, C., Amoros, P., Beltran, D., Coman, S.M., Parvulescu, V.I. (2012): Efficient Sc triflate mesoporous-based catalysts for the synthesis of 4,4'-methylenedianiline from aniline and 4-aminobenzylalcohol, *J. Catal.*, 287, 76–85 (IF= 7,723).
8. Candu, N., Wuttke, S., Kemnitz, E., Coman, S. M., Parvulescu, V. I. (2012): Replacing benzyl chloride with benzyl alcohol in heterogeneous catalytic benzylation of aromatic compounds, *Pure and Applied Chemistry*, 84 (3), 427-437 (IF= 2.350)
9. Candu, N., Tudorache, M., Florea, M., Ilyes, E., Vasiliu, F., Mercioniu, I., Coman, S. M., Haiduc, I., Andruh, M., Parvulescu, V. I. (2013): Postsynthetic modification of a MOF structure for enantioselective catalytic epoxidation, *ChemPlusChem*, 78 (5), 443–450 (IF= 3.441).
10. Sazama, P., Wichterlová, B., Sklenák, Š., Parvulescu, V.I., Candu, N., Sádovská, G., Dědeček, J., Klein, P., Pashkova, V., Šťastný, P., (2014) ‘‘Acid and redox activity of template-free Al-rich H-BEA* and Fe-BEA*zeolites’’ *J. Catal.* 318, 22–33 (IF= 7,723).

11. Podolean, I., Negoi, A., Candu, N., Tudorache, M., Parvulescu, V. I., Coman, S. M. (2014): Cellulose capitalization to bio-chemicals in the presence of magnetic nanoparticle catalysts, *Topics Catal*, *57*, 1463-1469 (IF= 2.226).
12. Candu, N., Rizescu, C., Podolean, I., Tudorache, M., Parvulescu, V. I., Coman, S. M. (2015): Efficient magnetic and recyclable SBILC (Supported Basic Ionic Liquid Catalyst)-based heterogeneous organocatalysts for the asymmetric epoxidation of *trans*-methylcinnamate, *Catal. Sci. & Tech.*, *5*, 729-737 (IF= 5.726).
13. Primo, A., Esteve-Adell, I., Blandez, J. f., Dhakshinamoorthy, A., Alvaro, M., Candu, N., Coman, S., Parvulescu, V., Garcia, H. (2015): High catalytic activity of oriented 2.0.0 copper (I) oxide grown on graphene film, *Nature Commun.*, Article number: 8561 (IF= 11.880).
14. Primo A., Esteve-Adell I., Candu N., Coman S., Parvulescu V., Garcia H. (2016) "One Step Pyrolysis Preparation of Oriented 1.1.1 Gold Nanoplatelets Supported on Graphene and Six Orders of Magnitude Enhancement of the Resulting Catalytic Activity", *Angew. Chem. Int. Ed*, *55* (2), 607-612 (IF= 12.257).
15. Dinca A. S., Candu N., Shova S., Lloret F., Julve M., Parvulescu Vasile I., Andruh M., (2016) "A new chiral dimanganese(III) complex: synthesis, crystal structure, spectroscopic, magnetic, and catalytic properties" *RSC Advances*, *6*, 86569 – 86574 (IF= 3,049).
16. Candu N., Anita F., Podolean I., Cojocaru B., Parvulescu V. I., Coman S. M., (2017) "Direct conversion of cellulose to α -hydroxy acids (AHAs) over Nb-based magnetic nanocomposites" *Green Process Synth*, *6*: 255–264. (IF=0,782).
17. Candu N., Dhakshinamoorthy A., Apostol N., Teodorescu C. , Corma A., Garcia H. Parvulescu, V.I., (2017), "Oriented Au nanoplatelets on graphene promote Suzuki-Miyaura coupling with higher efficiency and different reactivity pattern than supported palladium" *J. Catal*, *352*, 59-66 (IF= 7,723).
18. El Fergani M, Candu N, Coman S.M, Parvulescu VI. (2017), "Nb-Based Zeolites: Efficient bi-Functional Catalysts for the One-Pot Synthesis of Succinic Acid from Glucose" *Molecules*, *22*, 2218 (IF=2.861).
19. Candu N., Paul D., Marcu I.C., Tudorache M., Parvulescu V.I., Coman S. M., (2018) "New organic-inorganic LDH composites: Synthesis, characterization and catalytic behavior in the green epoxidation of α , β -unsaturated esters" *Inorg. Chimica Acta*, *475* 127-132 (IF=2.046).
20. Candu N., Paul D., Marcu I.C., Parvulescu V.I., Coman S. M., (2018) "Levulinate-intercalated LDH: A potential heterogeneous organocatalyst for the green epoxidation of α , β -unsaturated esters" *Catal. Today*, *306*, 154-165 (IF=6.766).
21. Candu N., Simion A., Coman S. M., Primo A., Esteve-Adell I., Parvulescu V. I., G. Hermenegildo, (2018) "Graphene film-supported oriented 1.1.1 gold (0) versus 2.0.0 copper (I) nanoplatelets as very efficient catalysts for coupling reactions" *Top.Catal*. *61*, 1449–1457 (IF= 2.226).
22. Simion A., Candu N., Coman S. M, Primo A., Esteve-Adell I., Michelet V., Parvulescu Vasile I., Garcia H., (2018) Bimetallic Oriented (Au/Cu₂O) versus monometallic 1.1.1 Au (0) or 2.0.0 Cu₂O Graphene supported Nano-platelets as very

efficient Catalysts for Michael and Henry Additions'' Eur. J. Org. Chem. 6185-6190. (IF=3.029).

23. Candu N., El Fergani M., Verziu M., Cojocaru B., Jurca B., Apostol N., Teodorescu C., Parvulescu V. I., Coman S. M. (2019): Efficient glucose dehydration to HMF onto Nb-BEA catalysts, *Catal. Today*, 325, 109-116 (IF=6.766).
24. Candu N., Man I., Simion A., Cojocaru B., Coman S. M., Bucur C., Primo A., Garcia H., Parvulescu V. I., (2019) Nitrogen-doped graphene as metal free basic catalyst for coupling reactions, *J.Catal.*, 376, 238-247 (IF= 7,723).
25. N. Candu, A. Tompos, E. Talas, M. Tudorache, S. M. Coman (2019): Green catalytic synthesis of phenprocoumon, *STUDIA UBB, CHEMIA*, 64 (3), 47-58 (IF=0.305).
26. Suteu, R., Rat, C.I., Sivestru, C., Simion, A., Candu, N., Parvulescu, V.I., ; Sivestru, A., (2020): Hypercoordinated diorganoantimony(III) compounds of types [2-(Me₂NCH₂)C₆H₄](2)SbL and [PhCH₂N(CH₂C₆H₄)(2)]SbL (L = Cl, ONO₂, OSO₂CF₃). Synthesis, structure and catalytic behaviour in the Henry reaction, *Appl. Organomet. Chem.*, e5393. (IF=3.259).
27. Candu N., Cojocaru B., Coman S. M., Parvulescu V. I. (2020): Diastereoselective hydrogenation of Formoterol intermediate over M(Ir, Pd, Pt, Rh, Ru)/BEA zeolite catalysts, *Catal. Today*, SI: Fascinating catalysis: past, present and future, *Catal. Today*, 354, 100-108 (IF=6.766).
28. Szalad, H.; Candu, N.; Cojocaru, B.; Păsătoiu, T.D.; Andruh, M.; Pârvescu, V.I. (2020) ∞^3 [Cu₂(mand)₂(hmt)]-MOF: A Synergetic Effect between Cu(II) and Hexamethylenetetramine in the Henry Reaction. *Chemistry*, 2, 50-62.
29. Simion A., Candu N., Cojocaru B., Coman S., Bucur C., Forneli A., Primo A., Man I. C., Parvulescu V.I, Garcia H., (2020) ''Nanometer-thick films of antimony oxide nanoparticles grafted on defective graphenes as heterogeneous base catalysts for coupling reactions'' *J.Catal.*, 390, 135-149, (IF= 7,723).
30. El Fergani M., Candu N., Tudorache M., Granger P., Parvulescu V.I., Coman S.M., (2020), '' Optimized Nb-based zeolites as catalysts for the synthesis of succinic acid and FDCA'' *Molecules*, 25 (21), 4885 (IF=2.861).
31. El Fergani M., Candu N., Tudorache M., Bucur C., Djelal N., Granger P., Coman S.M., (2021), ''From useless humins by-product to Nb@graphite-like carbon catalysts highly efficient in HMF synthesis'' *Appl. Catal. A: General*, 618, 118-130. (IF= 4,630).
32. El Fergani M., Candu N., Granger P., Coman S.M., Parvulescu V.I.,(2022) ''Hierarchically MOx@Nb-zeolites for the selective oxidation of HMF to HMFC''', *Catal Today*, 405-406, 267-276 (IF=6.766).
33. El Fergani M., Candu N., Podolean I., Cojocaru B., Tudorache M., Parvulescu V. I., Coman S.M., (2022)''*Catalytic hydrotreatment of humins wastes over bifunctional Pd-based zeolite catalysts*'' *Catalysts*, 12(10), 1202 (IF=3.934).
34. Podolean, I., El. Fergani, M., Candu, N., Coman, S. M., Parvulescu, V. I., (2023) ''Selective oxidation of glucose over transitional metal oxides based magnetic core-shell nanoparticles'', *Catal Today*, 423, 113886 (IF=5.2).
35. Stoian G., Toma E. E., Oancea P., Candu N., Cojocaru B., Tudorache M., Coman S. M. (2024), ''*QDs-based nanocomposites for the 5-(hydroxymethyl)furfural photooxidation*'' *Rev. Roum. Chim.*, 2024, 69(5-6), 285-290, (IF=0.5).
36. Stan, D., Mirica, A.-C., Mocanu, S., Stan, D., Podolean, I., Candu, N., El Fergani, M., Stefan, L. M., Seciu-Grama, A.-M., Aricov, L., Brincoveanu, O., Moldovan, C., Bocancia-Mateescu, L.-A., & Coman, S. M. (2025). Hybrid Hydrogel Supplemented with Algal Polysaccharide for Potential Use in Biomedical Applications. *Gels* 2025, 11(1), (IF=5.3).

30 oral communications:

1. Parvulescu, V. I., Coman, S., Candu, N., El Haskouri, J., Amoros, P., Beltran, D., (2008): "*Metal triflates incorporated in mesoporous catalysts for green synthesis of fine chemicals*", Pre-symposium of 14th International Congress on Catalysis (ICC 14), 50th Anniversary of the Catalysis Society of Japan, 8-12 July, Kyoto, Japan (Oral Presentation).
2. Parvulescu, V. I., Coman, S., Candu, N., El Haskouri, J., Amoros, P., Beltran, D., (2008): "*Synthesis, characterization and catalytic behavior of SnTf/MCM-41 and SnTf/UVM-7 as new green catalysts for etherification reactions*", 6th International Mesoporous Materials Symposium (IMMS 2008), 8-11 September, Namur, Belgium (Oral Presentation).
3. Candu, N., Coman, S. M., Parvulescu, V. I., El Haskouri, J., Amoros, P., Beltran, D., (2009), "*AlOTf/UVM-7 – Highly active catalysts for the synthesis of non-ionic surfactants structure*", 6th World Congress on Catalysis by Acids and Bases, 10-14 May, Genova, Italy (Oral Presentation).
4. Candu, N., Protesescu, L., Kranjc, K., Kocevar, M., Coman S. M. (2012): "*Organocatalysts versus chiral organometallic catalysts in the asymmetric epoxidation of trans-methylcinnamate ester*", ORCA Meeting COST, Marseilles, France, 29-30 March (Oral Presentation).
5. Candu, N., Neculai, F., Tudorache, M., Parvulescu, V.I., Coman S.M., (2013) "*Magnetically nanoparticles with acid properties for levulinic acid synthesis from cellulose*", Second International Conference CATALYSIS FOR RENEWABLE SOURCES: FUEL, ENERGY, CHEMICALS CRS-2, 22-28 July 2013 Lund, Sweden (Oral Presentation).
6. Wuttke, S., Negoii, A., Candu, N., Gheorghe, N., Kuncser, V., Kemnitz, E., Parvulescu, V. I., Coman, S. M., (2013) "*Fast and selective cellulose saccharification to glucose on Sn-doped hydroxylated MgF₂ catalysts*", XIth European Congress on Catalysis (EUROPACAT), Lyon, France, 1-6 September, (Oral Presentation).
7. Candu, N., Negoii, A., Podolean, I., Tudorache, M., Parvulescu, V. I., Coman, S. M., (2013) Fine tuning of the magnetically nanoparticles catalysts properties for selective transformation of cellulose to value-added chemicals, The 6th Asia-Pacific Congress on Catalysis (APCAT-6), Taipei, Taiwan, 13-17 October, (Oral Presentation).
8. Candu, N., Podolean, I., Negoii, A., Parvulescu, V. I., Coman, S. M., (2014), "*The cellulose capitalization to bio-chemicals in the presence of magnetically nanoparticles catalysts*", 25th Organic Reactions Catalysis Society Meeting, Tucson, AZ, USA, March 2-6 (Oral Presentation).
9. Negoii, A., Candu, N., Podolean, I., Tudorache, M., Coman, S. M., Parvulescu, V. I., (2015), "*Efficient valorisation of cellulose to useful chemicals by using ruthenium based magnetic nanoparticles*", First Workshop of FP1306 COST Action „LIGNOVAL”, Belgrad, Serbia, February, 3-5, 2015 (Oral Presentation).
10. Candu, N., Rizescu C., Podolean I., Tudorache M., Marcu I. C., Wuttke S., Parvulescu V. I., Coman S. M. (2016) "*Design and synthesis of heterogeneous organocatalysts for green epoxidation reactions*", The 11th International Symposium of the Romanian Catalysis Society (ROMCAT 2016), Timisoara, June 06-08, Romania (Oral Presentation).
11. Candu, N., Anita F., Podolean I., Parvulescu V. I., Coman S. M., (2016) "*Design, synthesis and application of Nb-based magnetic nanocomposites for carboxylic acid synthesis*" The 2nd International Conference on Green Chemistry and Sustainable Engineering, Rome, July 20-22, Italy (Oral Presentation).

12. Candu N., Coman S.M., Primo A., Dhakshinamoorthy A. A., Alvaro M., Garcia H., Parvulescu V.I., (2017) Graphene film-supported oriented 2.0.0 and 1.1.1 nanoplatelets as very efficient catalysts for coupling , 3rd Workshop Challenging Organic Syntheses Inspired by Nature- from natural products chemistry to drug discovery, Krakow, Poland, March 2-3, 2017 (ORAL PRESENTATION).
13. Podolean I., Candu N., Tudorache M., Parvulescu V. I., Coman S. M., (2017) Successful development of benign catalytic oxidation methodologies for the synthesis of bio-succinic acid, Florence, Italy, EUROPACAT 2017, 27-31 August 2017 (SHORT ORAL PRESENTATION).
14. Candu N., Coman S M., Parvulescu V. I., (2017) Nb-BEA zeolites for one-pot conversion of glucose to HMF, 9th International Symposium on group of five elements New Delhi, India, 22- 24 november 2017 (ORAL PRESENTATION).
15. Candu N., Simion A., S.M. Coman, Primo A., Esteve-Adell I. Garcia H., Parvulescu V.I., (2018), Graphene film-supported oriented 1.1.1 gold (0) versus 2.0.0 copper (I) nanoplatelets as very efficient catalysts for Michael reactions, COST Action, Salini Resort, Malta, 1-2 March 2018 (ORAL PRESENTATION).
16. Candu N., Primo A., S.M. Coman, Garcia H., Parvulescu V.I., (2018) Graphene Film-Supported Oriented 1.1.1 Gold (0) Versus 2.0.0 Copper (I) Nanoplatelets as Very Efficient Catalysts for Michael Additions, Working Group Meeting, COST Action, Alcalá de Henares, Spain, 22-23 March 2018 (ORAL PRESENTATION).
17. Candu N., El Fergani M., Coman S. M., Parvulescu V. I., (2018) One-pot synthesis of succinic acid from glucose using Nb-based zeolites, EFCATS School on Catalysis, Liblice Castle, Czech Republic, 25-29 June 2018, (ORAL PRESENTATION).
18. Parvulescu V. I., Candu N., Coman S. M., Teodorescu C., Primo A., Garcia H. (2018) Oriented Au(111)/Graphene: an efficient catalyst for coupling reactions, The 8th Tokyo Conference on Advanced Catalytic Science and Technology (TOCAT8) 5 - 10 August 2018, Yokohama, Japan, (ORAL PRESENTATION).
19. Candu N., Chen X. , Coman S. M. , Michelet V, Garcia H. Parvulescu V.I. , (2018)''Cycloisomerization of γ -acetylenic acid to γ -Alkylidene Lactones using Au on graphene, COST Action CM1407 FINAL MEETING, December 13-14, 2018 Tenerife, Canary Islands, Spain (ORAL PRESENTATION).
20. Coman S.M, Candu N., El. Fergani M., Parvulescu V.I, (2019), ''Recent advances in production of succinic acid from glucose using Nb-based zeolites nanocomposites'', ISGC2019, May 13-17, La Rochelle, France. (ORAL PRESENTATION).
21. Candu N., El Fergani M., Tirsoaga A., Parvulescu, V. I. S. M. Coman, (2019) '' 5-Hydroxymethylfurfural (HMF) oxidation to dicarboxylic acids in the presence of (Mn, Co)-based Fe₃O₄@SiO₂ catalysts, The 12th International Symposium of the Romanian Catalysis Society (ROMCAT 2019), June 5-7, 2019, Bucharest, Romania (ORAL PRESENTATION)
22. Candu N., El Fergani M., Tirsoaga A., Parvulescu V. I., Coman S. M., (2019), ''The direct catalytic synthesis of dicarboxylic acids from glucose'' APCAT8, August 4-7, 2019, Bangkok, Taiwan. (ORAL PRESENTATION).
23. Candu N., Man I., Simion A., Garcia H., Parvulescu V.I., (2019), Suzuki Miyaura reaction catalyzed by gold nanoparticles on graphene'', ICCOS 2019, September 15-20, Moscow, Russia. (ORAL PRESENTATION).
24. El Fergani M., Podolean, I. Coman S. M., Parvulescu, V. I. Candu N., ''Non-precious metal-based magnetic catalysts using for the production of Diacids '' 5th EuChemS Conference on Green and Sustainable Chemistry (5thEuGSC), 26-29 september 2021(Virtual Conference) Greece. (ORAL PRESENTATION)
25. El Fergani M., Podolean I., Guzo N., Coman S. M., Tudorache M., Parvulescu V. I., Candu N., ''Magnetic core-multi-shell nanocomposites for green oxidation process of glucose'' Workshop-ul CoSolMat, 11-15 october 2021, Bucuresti Romania. (ORAL PRESENTATION).

26. M. El. Fergani, I. Podolean, S. M. Coman, V. I. Parvulescu, N. Candu, Selective oxidation of glucose over transitional metal oxides based magnetic core-shell nanoparticles, RomCat Conference 2022, The 13th International Symposium of the Romanian Catalysis Society, Baile Govora, Romania, 22-24 june 2022. (ORAL PRESENTATION).
27. M. El Fergani, N. Candu, M. Tudorache, P. Granger, V. I. Parvulescu, S M. Coman, From humins wastes to highly efficient Nb@graphite-like carbon catalysts: An exemplification of the circular economy concept, The 9th Tokyo Conference on Advanced catalytic Science and Technology (TOCAT 9), 24-29 July 2022, Fukuoka, Japan (hybrid) (Oral presentation)
28. M. El Fergani, N. Candu, M. Tudorache, P. Granger, V. I. Parvulescu, S. M. Coman, Biomass residues: from well-defined properties to potential applications, Summer school: Materials from biomass, 12-16 September 2022, NTNU in Trondheim, Norway (Oral presentation).
29. Coman S. M., Bordeiasu M., Licu C., El Fergani M., Candu N., Parvulescu V. I., Heterogeneous Catalyzed Valorization of Furanics: A Sustainable Bridge to Fuels and Chemicals, RomCat Conference 2025, The 14th International Symposium of the Romanian Catalysis Society, Cluj Napoca, Romania, 9-11 july 2025. (ORAL PRESENTATION).
30. El Fergani M., Candu N., Podolean I., Coman S. M., Catalytic Upgrading of Ulvan to Biochemicals Using Nb@Zeolites, RomCat Conference 2025, The 14th International Symposium of the Romanian Catalysis Society, Cluj Napoca, Romania, 9-11 july 2025. (ORAL PRESENTATION).

MEMBER OF THE PROFESSIONAL ASSOCIATION

- Romanian Catalysis Society

LANGUAGES

- Romanian (*native*)
- Russian (*bilingual*)
- English - very good speaking and writing
- French - good speaking and writing
- Germany –beginner

01.10.2025