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29. Valmet chiral-base ligands and their copper(II) complexes as organo, homogeneous and heterogeneous catalysts for Henry, cyanosilylation and aldol coupling reactions, Z. Arora, D.-I. Eftemie, A. Spinciu, C. Maxim, A.-M. Hanganu, M. Tudorache, B. Cojocaru, O.D. Pavel, P. Granger, M. Andruh, V.I. Pârvulescu, 4th HC3A Meeting, 20th - 21st January 2022, Barcelona, Spain.
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31. Organic alkalis as an alternative for eco-friendly mechano-chemical synthesis of Layered Double Hydroxides-type catalysts, O.D. Pavel, B.C. Jurca, R. Zăvoianu, R. Bîrjega, B. Cojocaru, V.I. Pârvulescu 15th European Congress on Catalysis, August 27 – September 1, 2023, Prague, Czech Republic.
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33. MXenes as Thermal Catalysts for the Aldol Condensation and Oxidative Coupling of Aniline Reactions, O. Pavel, C. Bala, B. Cojocaru, P. González-Durán, P. García-Aznar, L. Tian, G. Sastre, A. Primo, V. I. Parvulescu, H. Garcia, 29th Organic Reactions Catalysis Society Meeting, February 9-13, 2025, Myrtle Beach, SC, USA.

1. LDH-Type Catalysts Tailored by Organic Alkaline: A New Approach in Synthesis, O.D. Pavel, B. Cojocaru, R. Zăvoianu, V.I. Pârvulescu, 4th Symposium of the Romanian Catalysis Society, 9-11 July 2025, Cluj-Napoca, Romania

## INVITED LECTURES

1. Hybrid organic-inorganic composites for photocatalytic environment remediation, Invited Lecture la "Materials for Biomass Summer School", Norwegian University of Science and Technology, Trondheim, Norvegia. 12-16 September **2022**.
2. Nature inspired nanohybrids for environment remediation, International summer school on Nanosciences & Nanotechnologies – NANOSUM2024, Blaubeuren, Germany, June 16-21 **2024**.

## LUCRARI PREZENTATE IN REZUMAT LA CONFERINTE INTERNATIONALE

*First/correspondent author*

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8. Hydrogen photo-generation from sugar solutions, B. Cojocaru, V. Parvulescu, RomCat2013, May 2013, Cluj-Napoca.
9. Intermediate selectivity in the oxidation of phenols using plasmonic Au/ZnO photocatalysts, B. Cojocaru, F. Lin, C.A. Cadigan, M.N. Grecu, H.L. Xin, V.I. Parvulescu, R.M. Richards, 11th

International Symposium of the Romanian Catalysis Society, RomCat 2016, 06-08 June 2016, Timisoara, Romania

10. In depth study of the structure – photocatalytic activity relationship of lanthanide metal doped titania photocatalysts, B. Cojocaru, S.G. Ion, O.D. Pavel, D. Avram, V.I. Pârvulescu, 12th International Symposium of the Romanian Catalysis Society, RomCat 2019, Bucuresti, Romania, 5-7 Iunie 2019, poster 6, p. 85 – 86 <https://www.chimie.unibuc.ro/romcat/>
11. Photocatalytic decontamination of wastewaters using hybrid organic inorganic magnetic supramolecular catalysts, R. Mihailescu, O.D. Pavel, S. Ion, M. Tudorache, S. M. Coman, V.I. Parvulescu, B. Cojocaru\*, Contemporary Solutions for Advanced Catalytic Materials with a High Impact on Society (CoSolMat), 11th – 15th OCTOBER 2021, Bucharest, Romania, p. 93-94, Poster 5 <https://chimie.unibuc.ro/edu/greencam/index.php/workshop-2021>.
12. Supramolecular organic-inorganic magnetic materials with efficient effect on photocatalytic removal of antibiotics from water, S. Ion, N.C. Guzo, O.D. Pavel, M. Tudorache, S.M. Coman, V.I. Parvulescu, B. Cojocaru\*, The 13th International Symposium of the Romanian Catalysis Society (RomCat2022), June 22-24, 2022, Baile Govora, Romania p. 94 – 95, P11.
13. Efficient Removal of Antibiotics from Waste Water by Photocatalytically Active Supramolecular Organic–Inorganic Magnetic Composite, S.G. Ion, O.D. Pavel, N.Guzo, M. Tudorache, S. M. Coman, V.I. Parvulescu, B. Cojocaru\*, 15th European Congress on Catalysis (EuropaCat 2023), 27 august – 1 septembrie 2023, Praga, Republica Ceha.
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21. Lignin fragmentation over  $\text{Re@Co@Nb}_2\text{O}_5@\text{Fe}_3\text{O}_4$  catalysts, C.M. Opris, M. Tudorache, B. Cojocaru, V.I. Parvulescu, 11th International Symposium of the Romanian Catalysis Society, RomCat 2016, 06-08 June 2016, Timisoara, Romania
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23. Oxidation of amines to nitriles in presence of new metal-free catalyst, O.D. Pavel, B. Cojocaru, A. Tirsoaga, A. Primo, M. Puche, H. García, V.I. Parvulescu, 11th International Symposium of the Romanian Catalysis Society, RomCat 2016, 06-08 June 2016, Timisoara, Romania, poster P-32, p. 133 – 134.
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35. Mimicking Bifunctional Metal/Supported Catalysts Properties in Graphenes Via Engineering Active Sites By Hydrogen Plasma Irradiation, A. Primo, A. Franconetti, M. Magureanu, N. B. Mandache, C. Bucur, C. Rizescu, B. Cojocaru, V. Parvulescu and H. Garcia, The 17th International Congress on Catalysis, San Diego, CA, USA, 14-19 June 2020.
36. Organic alkalis as a viable alternative to conventional inorganic one in the hydrotalcite-type materials synthesis pathways, S.-D. Mihăilă, O.-D. Pavel, R. Zăvoianu, B. Cojocaru, B. Jurca, V. I. Pârvulescu, Horizons of Science: Forum of Diploma Thesis Conference, 7-8 June 2021, Poland [https://horyzontynauki.uj.edu.pl/en\\_GB/biezaca-edycja/program](https://horyzontynauki.uj.edu.pl/en_GB/biezaca-edycja/program)
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40. TiO<sub>2</sub>-Carbon Quantum Dots (CQDs) nanocomposites for photocatalytic purification of waste waters, N.C. Guzo, B. Cojocaru, J. Gościańska, V.I. Parvulescu, S.M. Coman, The 13th International Symposium of the Romanian Catalysis Society (RomCat2022), June 22-24, 2022, Baile Govora, Romania
41. A new path in the synthesis of Zn modified LDH used in Claisen-Schmidt condensation, O.D. Pavel, S.D. Mihăilă, B. Cojocaru, B.C. Jurca, G. Mitran, R. Zăvoianu, M.C. Corobea, R. Bîrjega, R. Tincu, V.I. Pârvulescu, The 13th International Symposium of the Romanian Catalysis Society (RomCat2022), June 22-24, 2022, Baile Govora, Romania p. 141 – 142, P35

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