GHEORGHITA MITRAN

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FIELD OF SPECIALIZATION

Material Chemistry, Catalysis, Environmental Chemistry

HIGHLIGHTS

Specialization in:

- Materials synthesis (especially based on Fe, Co, Zn, Mo, V, Mn) by a series of methods including impregnation, precipitation, sol-gel, gel combustion;
- Characterization of materials through numerous techniques including: XRD, NH_3-TPD, FT-IR, XPS, UV-Vis Spectroscopy, Raman Spectroscopy, Conductivity measurements;
- The study of solid materials as catalysts for a series of processes, such as: selective oxidation, dehydrogenation and combustion of alcohols and lower hydrocarbons, esterification, ketonization, steam reforming.

POSITIONS AND EMPLOYMENT

2021-Lecturer University of Bucharest, Faculty of Chemistry, Department of Inorganic, Organic Chemistry, Biochemistry and Catalysis

2003-2021 Assistant

September 2000- February 2003 Teacher, Middle School, Nicolae Titulescu, Bucharest

September 1997- September 2000 Teacher, High School, Mihai Bravu, Bucharest

October 1996- July 1997 Graduate Assistant (MS), Chemistry Department, University of Bucharest

September 1995- September 1996 Teacher, Middle School, Rotunda, Olt, Romania

EDUCATION

2013- Post-doctoral position in the project: "New possibilities for sustainable integration of biodiesel production. Valorisation of glycerol and omega acids-ω BIOGLYVAL"

April 2009 PhD, Chemistry, University of Bucharest, Bucharest, Romania

Dissertation: *Oxidative dehydrogenation of isobutane*

Adviser: Professor Ioan Sandulescu

July 1997 MS, Chemistry, University of Bucharest, Bucharest, Romania,

Thesis: *Catalytic depollution of water with ozone*

Adviser: Professor Ion Udrea

July 1995 BS, Chemistry, University of Bucharest, Bucharest, Romania,

Thesis: *The determination of conductivity of ZnO doped with Li_2O*

Adviser: Professor Alfred Szabo

RESEARCH EXPERIENCE

- Synthesis of Mo-V mixed oxides, supported and unsupported, by different methods
- Synthesis of mixed oxides derived from LDH by coprecipitation
- Synthesis of spinel type mixed oxides by coprecipitation
- Gained experience in catalysts characterization using different techniques: X-ray diffraction, TPD-NH_3, XPS, UV/Vis spectroscopy, measurements of electrical conductivity, gas chromatography (GC)

- Study of activity in oxidehydrogenation of isobutane and propane; combustion of methane and propane; esterification of acetic acid with propanol and butanol
- steam reforming of biomass renewable resources and biomass tar
- Supervision and evaluation the work of laboratory students

TRAINING EXPERIENCE

- School of catalysis 4nd EFCATS SCHOOL ON CATALYSIS – Tsars Village (St. Petersburg), September 2006, Russia
- Training Course "School of projects at University of Bucharest, 3rd edition, March 2005, Bucharest, Romania
- Secretary at 7rd Symposium of Catalysis, October, 2004, Bucharest, Romania
- Training Course "School of projects at University of Bucharest, 2rd edition, November 2003, Bucharest, Romania
- Training Course "Initiation in Information and Communication Technology" September 2001, Bucharest, Romania
- Training Course "Education Reform Issues" December 1999, Bucharest, Romania
- Training Course "Initiation and Training in Computer" March- June 1999, Bucharest, Romania

TEACHING EXPERIENCE

- Undergraduate Student Mentor, in 2003-2021 (27 students)
- 2021-Lecturer

- 2003-2021, Assistant, Department of Organic Chemistry, Biochemistry and Catalysis, University of Bucharest
- Teacher, 1997-2003, Middle School and High School, Bucharest, Romania

PROFESSIONAL AFFILIATIONS

- Romanian Chemical Society
- Romanian Catalysis Society

PUBLICATIONS

1. **Gheorghiţa Mitran**, Ştefan Neaţu, Octavian Dumitru Pavel, Adriana Urdă, Anca G. Mirea, Mihaela Florea, Florentina Neaţu, Iron-doped Co_3O_4 catalysts prepared by a surfactant-assisted method as effective catalysts for malic acid oxidative decarboxylation, *Catal. Sci. Technol*., 13, 4420-4434, 2023, https://doi.org/10.1039/D3CY00121K

2. **Gheorghiţa Mitran**, Tam Le Phuong Nguyen, Dong-Kyun Seo, Effect of solvent, in the sol–gel synthesis of $CoAl_2O_4$, on the structure and catalytic properties in 1,4-butanediol dehydrocyclization, *React. Chem. Eng*., 8, 1901–1913, 2023, https://doi.org/10.1039/D3RE00095H

3. **Gheorghiţa Mitran**, Luiza Izabela Jinga, Gianina Florentina Popescu-Pelin, Octavian Dumitru Pavel, Identification of active sites and the mechanism of reaction for malic acid conversion over Iron doped Co_3O_4 catalysts, Industrial & Engineering Chemistry Research, 61(49), 17810-17820, 2022, https://doi.org/10.1021/acs.iecr.2c02602

4. **Gheorghiţa Mitran**, Nguyen Tam Le Phuong, Dong-Kyun Seo, The influence of complexing agents on the cobalt-based catalysts properties and activities, Journal of Industrial and Engineering Chemistry, 114, 446-455, 2022, https://doi.org/:10.1016/j.jiec.2022.07.035

5. **Gheorghiţa Mitran**, Octavian-Dumitru Pavel, Dong-Kyun Seo, Heterogeneous catalysts for biomass-derived alcohols and acid conversion, Heterogeneous Catalysis: Materials and Applications, 2022, pp. 297–326, https://doi.org/10.1016/B978-0-323-85612-6.00010-3

6. **Gheorghiţa Mitran**, Adriana Urdă, Octavian Dumitru Pavel, Ștefan Neațu, Mihaela Florea, Florentina Neaţu, A green way for pyruvic acid synthesis from biomass-derived L-malic acid on tetrahedral versus octahedral cobalt sites/hematite, *Biomass Conversion and Biorefinery*, 2022, https://doi.org/10.1007/s13399-022-02513-1

7. **Gheorghiţa Mitran**, Shaojiang Chen, Wenyu Huang, Dong-Kyun Seo, "La-H-zeolites: efficient catalysts for acetic acid ketonic decarboxylation and esterification" *J Chem Technol Biotechnol*, 96, 2022-2032 (2021)

8. **Gheorghiţa Mitran**, Shaojiang Chen, Kevin Dolge, Wenyu Huang, Dong-Kyun Seo, "Ketonic decarboxylation and esterification of propionic acid over beta zeolites" *Microporous and Mesoporous Materials*, 310, 110628 (2021)

9. **Gheorghiţa Mitran**, Roba Saab, Nikolaos Gharisiou, Kyriaki Polychronopoulou, Maria Goula, "Molybdenum supported on carbon covered alumina: active sites for n-butanol dehydrogenation and ketonization" *Molecular Catalysis*, 495, 11115 (2020)

10. **Gheorghiţa Mitran**, Shaojiang Chen, Dong-Kyun Seo, „Selective oxidation of n-butanol to butyraldehyde over $MnCo_2O_4$ spinel oxides" *RSC Advances*, 10, 25125–25135 (2020)

11. **Gheorghiţa Mitran**, Florentina Neatu, Stefan Neatu, Mihaela Trandafir, Mihaela Florea, „VAlPOs as Efficient Catalysts for Glycerol Conversion to Methanol" *Catalysts*, 10, 728 (2020)

12. **Gheorghiţa Mitran**, Shaojiang Chen, Dong-Kyun Seo, „Role of oxygen vacancies and Mn^{4+}/Mn^{3+} ratio in oxidation and dry reforming over cobalt-manganese spinel oxides" *Molecular Catalysis*, 483, 110704 (2020)

13. **Gheorghiţa Mitran**, Shaojiang Chen, Dong-Kyun Seo, „Molybdenum Dopped Copper Ferrites as Active Catalysts for Alcohols Oxidative Coupling" *Materials*, 12, 1871 (2019)

14. **Gheorghiţa Mitran**, Daniel Mieritz, Dong-Kyun Seo, „Steam reforming of toluene as model of tar compounds over Mo catalysts derived from hydrotalcites" *Journal of Saudi Chemical Society*, 23, 916-924 (2019)

15. **Gheorghiţa Mitran**, Shaojiang Chen, Dong-Kyun Seo „The Oxidative Coupling Between Methanol and Ethanol Over Copper Ferrites with Vanadium" *Catalysis Letters*, 149 (8), 2043-2052 (2019)

16. **Gheorghiţa Mitran**, Florentina Neatu, Octavian D. Pavel, Mihaela M. Trandafir, Mihaela Florea, „Behavior of Molybdenum–Vanadium Mixed Oxides in Selective Oxidation and Disproportionation of Toluene", *Materials*, *12*(5), 748 (2019)

17. **Gheorghiţa Mitran**, Dong-Kyun Seo, Octavian Dumitru Pavel „Impact of molybdena and vanadia mixed based oxides on hydrogen production by steam reforming", *Frontiers in Ceramic Science*, 2, 1-32 (2018)

18. **Gheorghiţa Mitran**, Rawaz Ahmed, Emmanuel Iro, Saeed Hajimirzaee, Simon Hodgson, Adriana Urda, Maria Olea, Ioan-Cezar Marcu „Propane oxidative dehydrogenation over VOx/SBA-15 catalysts" *Catalysis Today*, 306, 260-267 (2018)

19. **Gheorghiţa Mitran**, Daniel G. Mieritz, Dong-Kyun Seo, "Hydrotalcites with vanadium, effective catalysts for steam reforming of toluene" *International Journal of Hydrogen Energy*, 42, 21732-21740 (2017)

20. **Gheorghiţa Mitran**, Daniel G. Mieritz, Dong-Kyun Seo „Highly Selective Solid Acid Catalyst $H_{1-x}Ti_2(PO_4)_{3-x}(SO_4)_x$ for Non-Oxidative Dehydrogenation of Methanol and Ethanol" *Catalysts*, 7, 95 (2017)

21. **Gheorghiţa Mitran**, Octavian Dumitru Pavel, Daniel Mieritz, Dong-Kyun Seo, Mihaela Florea, „Effect of Mo/Ce ratio in Mo-Ce-Al catalysts on the hydrogen production by steam reforming of glycerol" *Catalysis Science and Technology*, 6, 7902-7912 (2016)

22. **Gheorghiţa Mitran**, Octavian Dumitru Pavel, Mihaela Florea, Vasile Parvulescu, „Cross-coupling of p-xylene to 2,2′,5,5′-tetramethyl 1,1′-biphenyl on supported vanadia catalysts", *Applied Catalysis A: General,* 514, 71-82 (2016)

23. **Gheorghiţa Mitran**, Octavian Dumitru Pavel, Mihaela Florea, Daniel Mieritz, Dong-Kyun Seo, „Hydrogen production from glycerol steam reforming over molybdena-alumina catalysts" *Catalysis Communication*, 77, 83-88 (2016)

24. N. Hellaili, **Gheorghiţa Mitran**, I. Popescu, K. Bachari, I-C. Marcu, A. Boudjemaa, „Photoelectrochemical properties of AFe_2O_4 (A = Co, Cu, Zn) ferrospinels for water photoreduction", *J. Electroanal. Chem*. 742 47-53 (2015)

25. **Gheorghiţa Mitran**, Tatiana Yuzhakova, Ionel Popescu, Ioan Cezar Marcu, "Study of the esterification reaction of acetic acid with n-butanol over supported WO_3 catalysts", *Journal of Molecular Catalysis A: Chemical*, 396, 275-281 (2015)

26. **Gheorghiţa Mitran**, Octavian Dumitru Pavel, "Kinetics of acetic acid esterification with propanol in the presence of supported molybdena catalysts", *Reaction Kinetics, Mechanisms and Catalysis*, 114, 197-209 (2015)

27. **Gheorghiţa Mitran,** Octavian Dumitru Pavel, Ioan Cezar Marcu, "Molybdena-vanadia supported on alumina: Effective catalysts for the esterification reaction of acetic acid with n-butanol", *Journal of Molecular Catalysis A: Chemical*, 370, 104-110 (2013)

28. **Gheorghiţa Mitran**, Evá Makó, Ákos Rédéy, Ioan-Cezar Marcu, "Esterification of acetic acid with n-butanol using vanadium oxides supported on γ-alumina", *Comptes Rendus Chimie,* 15, 793-798 (2012)

29. **Gheorghiţa Mitran,** Thomas Cacciaguerra, Stéphane Loridant, Didier Tichit, Ioan-Cezar Marcu, "Oxidative dehydrogenation of propane over cobalt-containing mixed oxides obtained from LDH precursors", *Applied Catalysis A: General,* 417-418, 153-162 (2012)

30. Serghei Tanasoi, **Gheorghiţa Mitran**, Nathalie Tanchoux, Thomas Cacciaguerra, Francois Fajula, Ioan Sandulescu, Didier Tichit, Ioan-Cezar Marcu, "Transition metal-containing mixed oxides catalysts derived from LDH precursors for short-chain hydrocarbons oxidation", *Applied Catalysis A: General* 395, 78-86 (2011)

31. **Gheorghiţa Mitran**, Evá Makó, Ákos Rédéy, Ioan-Cezar Marcu, "Esterification of acetic acid with n-butanol using molybdenum oxides supported on γ-alumina", *Catalysis Letters* 140, 32-37 (2010)

32. **Gheorghiţa Mitran**, Ioan-Cezar Marcu, Adriana Urda, Ioan Sandulescu, "Oxidative dehydrogenation of isobutane over supported V-Mo mixed oxides", *Journal of the Serbian Chemical Society* 75(8), 1115-1124 (2010).

33. **Gheorghiţa Mitran**, Adriana Urda, Ioan Sandulescu, Ioan-Cezar Marcu, "Semiconductive properties of Mo-V-M-O (M= Zn, Ni, Cu, Sb) oxide catalysts for isobutane oxidehydrogenation", *Reaction Kinetics, Mechanisms and Catalysis* 99, 135-142 (2010).

34. Octavian Dumitru Pavel, Ruxandra Birjega, Emilian Angelescu, Mihaela Florea, **Gheorghiţa Mitran**, "Memory effect of Mg/Al modified hydrotalcite in cyanoethylation reaction", *Revista de Chimie* 51 (4), 395-399 (2010).

35. **Gheorghiţa Mitran,** Adriana Urda, Nathalie Tanchoux, Francois Fajula, Ioan-Cezar Marcu, "Propane oxidative dehydrogenation over Ln-Mg-Al-O catalysts (Ln= Ce, Sm, Dy, Yb)", *Catalysis Letters* 131, 250-257 (2009).

36. **Gheorghiţa Mitran**, Ioan-Cezar Marcu, Tatiana Yuzakova, Ioan Sandulescu, "Isobutane selective oxidation on V-Mo-O mixed oxide catalysts", *Journal of the Serbian Chemical Society*, 73 (1), 55-64 (2008).

37. **Gheorghiţa Mitran,** Ioan-Cezar Marcu, Adriana Urda, Ioan Sandulescu, "Oxidative dehydrogenation of isobutane over V-Mo-(Ni)-O catalysts", *Revue Roumaine de Chimie*, 53 (5), 383-390 (2008).

38. **Gheorghiţa Mitran**, Ioan-Cezar Marcu, Mihaela Florea, Ioan Sandulescu, "Mo-V-M-O (M = Ni, Cu, Zn, Sb, Ta) mixed metal oxides prepared by solid-solid reactions for oxidative dehydrogenation of isobutane", *Revue Roumaine de Chimie*, 53 (5), 391-397 (2008).

PRESENTATIONS

1. **G. Mitran**, D.K. Seo, O.D. Pavel, F. Neaţu, M. Florea, Dehydrogenation of 1,4-butanediol over cobalt aluminate synthesized by the sol-gel method, in the presence of different solvents, 15th European Congress on Catalysis, EuropaCat 2023, 27 august-1 septembrie, Praga, Cehia, Poster

2. **G. Mitran**, M. Florea, Ş. Neaţu, F. Neaţu, Surfactant assisted method for iron doped cobalt oxides preparation and their behavior in the oxidative transformation of malic acid, 8th International Workshop of Materials Physics, 2023, 17-19 mai, Magurele, Romania, P9, Poster

3. **G. Mitran**, D.K. Seo, O.D. Pavel, A. Urdă, The preparation method influences on the cobalt-based catalysts properties and activities, The 13th

International Symposium of the Romanian Catalysis Society, RomCat 2022, 22-24 iunie, Băile Govora, România, P30, Poster

4. **G. Mitran**, O.D. Pavel, A. Urdă, Malic acid oxidation over Fe doped Co3O4 catalysts, 22nd Romanian International Conference on Chemistry and Chemical Engineering, RICCCE 22, 7-9 septembrie 2022, Sinaia, România, Poster 10

5. **G. Mitran**, A. Urdă, M. Florea, O.D. Pavel, F. Neaţu, Cobalt and iron-based heterogeneous catalytic systems for malic acid conversion to value-added products, Conferinţa Naţională de Chimie, Ediţia XXXVI, 4-7 octombrie 2022, Călimăneşti-Căciulata, P.S.IV. – 19, Poster

6. **G. Mitran**, Cobalt based spinel oxides, efficient catalysts for both selective oxidation and dehydrogenation reactions, European Global Congress on Catalysis, Chemical Engineering and Technology, 14-15 noiembrie 2022, Roma, Italia, Online, Prezentare orală

7. O.D. Pavel, S.D. Mihăilă, B. Cojocaru, B.C. Jurcă, **G. Mitran**, R. Zăvoianu, M.C. Corobea, R. Bîrjega, R. Tincu, V.I. Pârvulescu, A new path in the synthesis of Zn modified LDH used in Claisen-Schmidt condensation, The 13th International Symposium of the Romanian Catalysis Society, RomCat 2022, 22-24 iunie, Băile Govora, România, Poster

8. **G. Mitran**, M. Florea, O.D. Pavel, A. Urda, F. Neatu, Malic acid oxidative dehydrogenation over iron-cobalt mixed oxides, The 2nd International Electronic Conference on Catalysis Sciences—A Celebration of Catalysts 10th Anniversary, 15-30 octombrie 2021, Poster, https://doi.org/10.3390/ECCS2021-11108

9. S.D. Mihăilă, B. Cojocaru, **G. Mitran**, M.C. Corobea, O.D. Pavel, R. Zăvoianu, A new approach in the synthesis of LDH-type materials used in the condensation reaction, The 2nd International Electronic Conference on Catalysis Sciences—A Celebration of Catalysts 10th Anniversary, Poster https://doi.org/10.3390/ECCS2021-11146

10. S.D. Mihaila, B. Cojocaru, B. Jurca, O.D. Pavel, **G. Mitran**, R. Zavoianu, V. Parvulescu, „New approaches in synthesis of 2D LDH-type materials used in the Claisen-Schmidt condensation", Contemporary Solution for Advanced Materials with high impact on Society, CoSolMat 2021, 11-15 octombrie, Bucuresti, Romania, Oral Presentation, https://chimie.unibuc.ro/edu/greencam/index.php/workshop-2021

11. G. Mitran, A. Urda, M. Florea, O.D. Pavel, F. Neatu, „Oxidative Dehydrogenation and Hydrogenation of Malic Acid over Transition Metal Oxides", Advances in Catalysis Engineering, December 20-21, 2021 - United Arab Emirates, Dubai, Oral Presentation, Paper Code 21AE120073

12. G. Mitran, F. Neaţu, O. D. Pavel, M.Florea „Glycerol steam reforming over alumina supported molybdena and molybdena-ceria catalysts" EuropaCat XIII, 27-31 august **2017**, Florence, Italy, P2 168.

13.N. Helaili, **G. Mitran**, I. Popescu, K. Bachari, I.-C. Marcu, A. Boudjemaa, „Hydrogen generation via water photo-reduction under visible light irradiation using ferrospinels AFe_2O_4 (A = Co, Cu, Zn)", 3rd International Symposium on Catalysis for Clean Energy and Sustainable Chemistry, 7-9 September **2016**, Madrid, Spain (poster).

14. G. Mitran, I. Popescu, T. Juzsakova, J.M. Millet, I.C. Marcu "Etude de la dehydrogenation oxidante du propane sur des catalyseurs du type M-$FePO_4$ (M=Cu, Co, Ni) " Colloque Franco-Roumain de Chimie Appliquée (CoFrRoCA), 29 iunie-01 iulie **2016**, Clermont Ferrand, Franta, (oral presentation)

15. G. Mitran, R. Ahmed, E. Iro, S. Hajimirzaee, S. Hodgson, A. Urda, M. Olea, I.C. Marcu "Propane oxidative dehydrogenation over VOx/SBA-15 catalysts", RomCat, 6-8 iunie **2016**, Timisoara, Romania, (oral presentation)

16. G. Mitran, O. D. Pavel, R. Zăvoianu, M. Florea, E. Angelescu, V. Pârvulescu "Valuable bioadditive of biodiesel by glycerol valorification", Green

Chemistry and Sustainable Engineering, Barcelona, Spain, 29-31 July, **2014** POSTER-GC-097

17. G. Mitran, O.D. Pavel, R. Zăvoianu, R. Bîrjega, F. Neațu, E. Angelescu, M. Florea, V.I. Pârvulescu,"Green olefins oxidation vs. hydrotalcites preparation methods", Green Chemistry and Sustainable Engineering, Barcelona, Spain, 29-31 July, 2014 POSTER-GC-096

18.O. D. Pavel, R. Zavoianu, **G. Mitran**, R. Birjega, F. Neatu, E. Angelescu "Increasing the yield for cyclohexene epoxidation using Mg_xAl solid base catalysts", TOCAT 7, Kyoto, Japan, 1-6 June 2014, POSTER3- GP 2111

19.O.D. Pavel, R. Zăvoianu, **G. Mitran**, F. Neatu, E. Angelescu,"Water vs alkaline solution in the reconstruction of HT-structure" , XIth European Congress on Catalysis, Lyon, France, 1 –6 September *2013*, POSTER3-T1-06

20. G. Mitran, N. Tanchoux, A. Urda, F. Fajula, D. Tichit, I.C. Marcu, " Transition metal-containing mixed oxides catalysts derived from LDH precursors for propane oxidative dehydrogenation" EuropaCat X, 27 august- 2 septembrie 2011, Glasgow, Anglia, ISOP 86.

21. I. Popescu, A. Urda, N. Tanchoux, **G. Mitran**, D. Tichit, I. Sandulescu, F. Fajula, I.C. Marcu " Catalyseurs Ln-Mg-Al-O (Ln= Ce, Sm, Dy, Yb) préparés à partir de precurseurs HDL pour l´oxydation totale des alcanes légers" Colloque Franco-Roumain de Chimie Appliquée (CoFrRoCA), 7-10 iulie 2010, Orléans, Franta, (oral presentation).

22. O.D. Pavel, E. Angelescu, R. Birjega, R. Zavoianu, **G. Mitran** "Modification Induced by Memory Effect in Physical-Structural Characteristic of NiMgAl Hydrotalcites " EuropaCat IX, 30 august- 4 septembrie 2009, Salamanca, Spania, P2-63

23. **G. Mitran**, N. Tanchoux, F. Fajula, I.C. Marcu "Propane Oxidative Dehydrogenation over Ln-Mg-Al-O Catalysts (Ln=Ce, Sm, Dy, Yb) " EuropaCat IX, 30 august- 4 septembrie 2009, Salamanca, Spania, P3-37

24. **G. Mitran**, I.C. Marcu, I. Sandulescu "Dehydrogenation Oxydante de l'Isobutane sur des Catalyseurs de Type M-V-Mo-O (M= Ni, Cu, Zn, Sb, Ta)", Cinquieme Colloque Franco-Roumain de Chimie Appliquée, CoFrRoCA, 25-29 Iunie 2008, Bacau, Romania, P 119

25. E Angelescu, O.D. Pavel, R. Barjega, **G. Mitran**, A. Angelescu "Epoxidation of Cyclohexene with Hydrogen Peroxide and Benzonitrile on Hydrotalcites and Hydrated-Induced "MEMORY EFFECT" on their Mixed Oxides" EuropaCat VIII, 26-31 Aug. 2007, Turku, Finland, P 5-38

26. **G. Mitran**, I.C. Marcu, A. Urda, M. Florea, I. Sandulescu "Oxidative Dehydrogenation of Isobutane over Supported and Unsupported V-Mo-O Catalysts", International Symposium of the Romanian Catalysis Society, RomCat, 21-23 Iunie, 2007, Bucuresti, Romania, p. 92

27. **G. Mitran**, I. Sandulescu, I.C. Marcu "Isobutane Selective Oxidation on V-Mo-O Mixed Oxide Catalysts", 4th EFCATS School on Catalysis, Catalysts design-from Molecular to Industrial level, 20-24, Sept. 2006, Tsars Village (St. Petersburg), Russia, P-62, p. 139

28. R. Zavoianu, A. Cruceanu, **G. Mitran**, M. Ropot, "Alpha-Methyl-Styrene Selective Hydrogenation on Cobalt-2,2 Bipyridine Complex Supported on Y Zeolite Catalyst", Symposium No 8, EuropaCat VII, Catalysis: a key to richer and cleaner society, 29 Aug.-1 Sept. 2005, Sofia, Bulgaria, P 5-39, p. 193

29. Cruceanu, E. Angelescu, R. Zavoianu, C. Preda, **G. Mitran** "Iron Complexes Supported on Solid Base Catalysts for Mercaptan Oxidation" 7rd Symposium of Catalysis, 7-8, Oct. 2004, Bucharest, p. 42