

# CURRICULUM VITAE

**Name** PARVULESCU  
**Forename** VASILE

**Position** Professor, Director of the Department of Organic Chemistry, Biochemistry and Catalysis  
Director of the Center of Catalysis and Catalytic Processes

**Institution** University of Bucharest, Faculty of Chemistry, Department of Organic Chemistry, Biochemistry and Catalysis

**Permanent address** B-dul Regina Elisabeta 4-12, Bucharest 030018, Phone: + 4021 4100241;  
Fax: + 4021 4100241

**Place of birth** Bucharest  
**Date of birth** 25 August 1954  
**Citizenship** Romanian

**Degrees** *Graduate*: June 1978, IPolitehnic Bucharest, Faculty of Chemical Technology, Chemistry  
*Master*: June 1979, IPolitehnic Bucharest, Faculty of Chemical Technology, Chemistry, in Catalysis  
*PhD*: November 1986, IPolitehnic Bucharest, Faculty of Chemical Technology, in Catalysis  
*Title* : Study of the correlation between the physico-structural properties and the activity and the selectivity of the supported bimetallic catalysts, Supervisor: Prof.Dr.Doc. I.V.Nicolescu

**Previous Positions :** Intreprinderea Vega: 1979 – 1980 Chemist  
IMNR Bucharest: 1980 -1983 Researcher  
1983-1987 Signor researcher  
1987- 1991 High signor researcher

University of Bucharest: 1991-1999 Associate Professor  
1999 Full Professor

**Experience:** Inorganic syntheses  
Environmental Catalysis  
Catalysts syntheses (sol-gel preparation, embedded colloids, mesoporous catalysts)  
Catalytic processes (hydrogenation, oxidation, environmental catalysis, catalysis on membranes, valorisation of biomass)  
Catalysts characterization  
Laser and Plasma Chemistry

**Member of professional societies:** President of The Romanian Catalysis Society  
*Member of:* Organic Reactions Catalysis Society, USA  
International Society of Mesoporous and Macroporous Materials

**Prizes:** The Prize of The Romanian Academy on 1990  
Proclaimed Knight of the National Order for Merit by the Romanian President

**Publications** 3 books: - V.I. Parvulescu, V. Parvulescu, E. Angelescu, Non-Conventional Catalysts and Catalytic Reactions, Ed. Univ. Bucharest, 2000  
- V.I. Parvulescu, S. Coman, Asymmetric Catalysis, Ed. Univ. Bucharest, 2002  
- P. Granger, V.I. Parvulescu (Eds) Past and Present in deNOx Catalysis: From Molecular Modelling to Chemical Engineering, Elsevier, Amsterdam, 2007.

216 papers ISI: from which:  
- 27 in Journals of the Romanian Academy of Sciences,  
- 189 in International journals  
- 7 monographies in international books and in Chem. Rev.  
- 131 contributions in Proceedings' in International Conferences  
- 25 accepted Patents  
- 15 plenary and key-note lectures in International Conferences  
- over 50 Oral Presentations in International Conferences  
- over 2700 citations in ISI journals  
Individual impact Factor: > 200  
Hirsch Factor: 22

**Projects:** **Director** of 109 Romanian Projects, 10 International Projects: 2 NATO, one FP6 (CONCORDE), 9 inter-governmental: 3 with Katolieke Universiteit Leuven (Belgium, Flemish), 3 with Universite Catholique de Louvain (Belgium, Wallonie), one with University Thessaloniki (Greece), one with University of Ljubljana (Slovenia), and one with the Institute of catalysis Pune (India)

**Fellowships** Alexander von Humboldt fellowship 1997, Max Planck, Muelheim, Germany  
Fellow EU, PECO, Universite Catholique de Louvain, Unite de Catalyse et des Materiaux Divises, Louvain-la-Neuve, 1993  
Fellow, Universite Catholique de Louvain, Unite de Catalyse et des Materiaux Divises, Louvain-la-Neuve, 1994  
NATO fellow, Universite Catholique de Louvain, Unite de Catalyse et des Materiaux Divises, Louvain-la-Neuve, 1994

### **Member of Scientific Boards**

President of the Division 1 for Mathematics and Nature sciences of the Romanian National Council for research (CNCSIS) 2000-2011  
Member of the Board of Applied Catalysis A General 2010  
Member of the board of Revue Roumaine de Chemie  
Member of the DC board of the COST Domain: CHEMISTRY AND MOLECULAR SCIENCES AND TECHNOLOGIES 2000-2011  
Member of the management committees of the Cost actions: D12, D24, D29, D41  
Rapporteur of the COST actions D33, D36 and D40  
Member of the board of several International Conferences (European Association of the Zeolites, International Congress of Mesoporous and Mesostructured Materials, International Conference of Catalysis, European Congress of Catalysis)

### **Guest Professor**

Institute of Coal Chemistry, Taixuan, China  
Laval Universite, Quebec, Canada  
Univerite de Lille (2002 si 2006)  
Universite Catholique de Louvain  
RTWH Aachen

### **Invited lecturer**

Ecole Polytechnic de Lausanne, Swiss  
Universite Catholique de Louvain, Belgium  
Katholieke Universitet Leuve, Belgium  
Institute of Coal Chemistry Taixuan, China  
Pennsilvania State University, Philadelphia, USA  
Eindhoven University, Eindhoven, The Netherlands  
Technische Universitet, Aachen, Germany  
Hereus BmbH, Hanau, Germany  
Laval Universite, Quebec, Canada  
Utrecht University, The Netherlands  
LG Company, South Korea  
Samsung Company, South Korea  
RTWH Aachen

### **Evaluator**

COST, ESF, NSF (USA), CNRS (FRANCE), IRELAND, Czech

## LIST OF PUBLICATIONS

### I. Papers in romanian journals

1. I. Săndulescu and V.Pârvulescu , Hydrogenation of Styrene in Chromtographic Pulse, Rev.Chim. (Bucuresti), 11,1086-1091 (1979).
2. I. Săndulescu, Xu Yandong and V.Pârvulescu , Hydrogenation of Styrene upon Pd and Pd-Mn/ $\gamma$ - Al<sub>2</sub>O<sub>3</sub> Catalysts, Rev.Chim.(Bucuresti), 4, 311-314 (1983).
3. I. Săndulescu, I.V.Nicolescu, Xu Yandong and V.Pârvulescu, Selectivity and other Properties of Pd, Mn, and Pd-Mn/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Catalysts for Styrene Hydrogenation, Rev.Roum.Chim., 28,669-682 (1983).
4. V.Pârvulescu, I.Săndulescu and S.Straja, An attempt of Explaining Hydrogenation/Dehydrogenation of Ethylbenzene-Ethylcyclohexane on Pd-Mn/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> and Mn/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Catalysts, Rev.Roum.Chim., 29,793-798(1984).
5. I. Săndulescu, V.Pârvulescu, E.Szabo, Al.Popa and I.V.Nicolescu, Styrene Hydrogenation on Supported Pd and Pd-Co/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Catalysts, Rev.Roum.Chim., 31,375-385(1986).
6. V.Pârvulescu, I.Săndulescu, N.Grecu, Cr.Contescu and I.V.Nicolescu, Effect of Palladium Concentration on the State and Activity of Pd/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Catalysts, Rev.Roum.Chim., 33,3-11(1988).
7. L.Frunzã, I.V.Nicolescu, V.Pârvulescu and I.Anger, IR Spectral Study of some Pd-M/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Catalysts by Pyridine and Carbon Monoxide Adsorption, Rev.Roum.Phys., 32,1015-1018(1987).
8. I.V.Nicolescu, V.Pârvulescu, V.Pârvulescu and I.Săndulescu, Hydrogenation of Stryrene on Bimetallic Supported Catalysts Catalysts Pd-M/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> (M = Mn,Fe,Co,Ni and Cu), Rev.Roum.Chim., 33,1041-1053 (1988).
9. I.V.Nicolescu, V.Pârvulescu, V.Pârvulescu and Em.Angelescu, Metallic Supported Catalysts Preparation from Precursors with Different Capacities of Immobilization on  $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Surface. I. Al<sub>2</sub>O<sub>3</sub> Impregnation with a Metallic Species, Rev.Roum.Chim., 35,145-159(1990).
10. I.V.Nicolescu, V.Pârvulescu, V.Pârvulescu and I.Săndulescu, Metallic Supported Catalysts Preparation from Precursors with Different Capacities of Immobilization on  $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Surface. II. Impregnation of the Pd/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Catalysts Support with the Second Metallic Component, Rev.Roum.Chim., 35,161-171(1990).
11. I.V.Nicolescu, V.Pârvulescu, V.Pârvulescu and Em.Angelescu, Metallic Supported Catalysts Preparation from Precursors with Different Capacities of Immobilization on  $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Surface. III. Study of Drying Step, Rev.Roum.Chim., 35, 173-184(1990).
12. V.Pârvulescu, V.Pârvulescu, M.Bîrjega and Em.Angelescu, Effects of Metal Ions Buffering on the Lanthanides Adsorption onto the  $\gamma$ -Al<sub>2</sub>O<sub>3</sub> and Pd/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub>, Progress in Catalysis, 1, 27-40 (1992).
13. V.Pârvulescu, M.Bîrjega, V.Pârvulescu, D.Macovei, A.Andrei, Em.Angelescu and I.V.Nicolescu, Selective Hydrogenation of Styrene upon Pd-Sm/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Catalysts. I.Preparation and Characterization of the Catalysts, Rev.Roum.Chim., 37,327-344 (1992).

14. V.Pârvulescu, Em.Angelescu and I.V.Nicolescu, Selective Hydrogenation of Styrene upon Pd-Sm/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Catalysts. II. Catalytic Activity., Rev.Roum.Chim., 37,453-459(1992).
15. Em.Angelescu, G.Pop, G.Pogonaru, R.Stănescu, G.Muscă and V.Pârvulescu, Conversion of C<sub>2</sub>-C<sub>4</sub> olefins to aromatic hydrocarbons catalysed by H-ZSM-5 and H-ZSM-5-M<sub>2</sub>O<sub>3</sub> zeolites (M=Ga, La, Y, In, Nd), Rev.Roum.Chim., 38,411-423(1993).
16. I.V.Nicolescu, V.Pârvulescu, V.Pârvulescu, and Em.Angelescu, A Method for Controlling the Second Metal Distribution within the Pd/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Catalyst Support, Rev.Roum.Chim., 38,965-974(1993).
17. Em.Angelescu, V.Pârvulescu, G.Muscă, F.Constantinescu, V.Dima, G.Gheorghe and G.Possa, Conversion of n-Butane and n-Butenes into Aromatic Hydrocarbons over M<sub>2</sub>O<sub>3</sub>-H-ZSM-5 zeolites (M=Ga, In, Tl), Progress in Catalysis, 1,32-43(1993).
18. Em.Angelescu, R.Stănescu,V.Pârvulescu, L.Botez and A.Angelescu, Dimerization of Ethylene on Organometallic Nickel Catalyst, Progress in Catalysis, 1,24-30(1993).
19. V.Pârvulescu, F.Vasiliu, C.Sîrbu, V.Pârvulescu and Em.Angelescu, Properties and Hydrogenation Activity of Pd-Dy/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Catalysts. I. Preparation and Characterization.,Rev.Roum.Chim., 39, 91-98(1994).
20. V.Pârvulescu, Properties and Hydrogenation Activity of Pd-Dy/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Catalysts. II. Hydrogenation of vinyl- and divinylbenzenes., Rev.Roum.Chim., 39, 99-106(1994).
21. V.Pârvulescu, Properties and Hydrogenation Activity of Pd-Dy/  $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Catalysts. III. Cyclohexene and Indene Hydrogenation., Rev.Roum.Chim., 39, 511-515(1994).
22. D.Dumitriu, E.Angelescu and V.I.Pârvulescu, Selectivity effects in catalytic oxidation on zeolites of organic substrates with hydrogen peroxide, Romanian Chemical Quarterly Reviews, 6, 113-131 (1998).
23. V. I. Pârvulescu, V. Pârvulescu, S. Gobolos, E. Talas and J. M. Margitfalvi, Hydrogenation of Indene on Pd/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> and Pd-Li/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Catalysts, Rev.Roum.Chim., 44 (1999) 1113-1119.
24. S. Coman, F. Vasiliu and V. I. Pârvulescu, Selective hydrogenation of unsaturated aromatic compounds upon Pd-Eu/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Catalysts, Rev.Roum.Chim., 47 (2002) 353-362.
25. V. I. Pârvulescu, Laser-assisted catalytic transformation of methyl-cyclopentane and methylcyclohexane on ZSM-5 zeolite, Rev.Roum.Chim., 49 (2004) 377-382.
26. M. Magureanu, N. B. Mandache, V. I. Pârvulescu, Toluene oxidation in a pulsed dielectric barrier discharge, J. Optoelectronics Adv. Materials, 7 (2005) 1623-1627.
27. C. Visinescu, F. Levy and V. I. Pârvulescu, Photocatalytic degradation of acetone on ZnO-doped TiO<sub>2</sub> films prepared by sputtering, Rev.Roum.Chim., 51 (2006) 827-833.

## Books

1. V. I. Pârvulescu, V. Pârvulescu and Em. Angelescu, Catalizatori și procese catalitice neconvenționale, Ed. Univ. Buc., 1992.
2. V. I. Pârvulescu, S. Coman and V. Pârvulescu, Cataliză Asimetrică, Ed. Univ. Buc., 1996.
3. P. Granger and V.I. Parvulescu, ***Past and Present in deNOx Catalysis: From Moleculae Modelling to Chemical Engineering***, Elsevier, Amsterdam, 2007
4. S.M. Coman and V.I. Parvulescu, Cataliza Acido-Bazica, Editura Academiei, 2010.

## Monographies

1. V.I.Pârvulescu, P.Gränge and B.Delmon, Catalytic removal of NO, **Review paper**, *Catal.Today*, 46 (1998) 233-317.
2. N.Fripiat, V.Pârvulescu, V.I.Pârvulescu and P.Gränge, Identification of active sites in basic oxynitride catalysts, **Review paper**, *Appl.Catal. A: General*, 181 (1999) 331-347.
3. V. I. Pârvulescu, D. E. De Vos and P. A. Jacobs, Heterogeneous Diastereoselective Reactions, in *Chiral Catalyst Immobilization and Recycling*, D. E. De Vos, V. Vankelecom and P. A. Jacobs (Eds.), Wiley-VCH Verlag GmbH, Weinheim, 283-306, 2000.
4. V.I. Pârvulescu, V. Marcu, Heterogeneous Photocatalysis, in *Surface and Nanomolecular Catalysis*, Ryan M. Richards (Editor), CRC Press - Taylor and Francis Group (FOST MARCEL DECKER), Boca Raton, Florida, Chapter 12, 2006.
5. S.M. Coman, G. Poncelet, V.I. Pârvulescu, Asymmetric catalysis by heterogeneous catalysts, in *Surface and Nanomolecular Catalysis*, Ryan M. Richards (Editor), CRC Press - Taylor and Francis Group (FOST MARCEL DECKER), Boca Raton, Florida, Chapter 14, 2006.
6. V. I. Pârvulescu, C. Hardacre, Catalysis in Ionic Liquids, *Chem. Rev.* 107 (2007) 2615-2665.
7. M. Magureanu and V.I. Pârvulescu, Plasma-assisted NO<sub>x</sub> abatement processes: a new promising technology for lean conditions, in P. Granger and V.I. Parvulescu (Eds), Past and Present in deNO<sub>x</sub> Catalysis: From Molecular Modelling to Chemical Engineering, Elsevier, Amsterdam, 2007, chapter 14: 345-379.

## II. Papers in international journals

1. Am.Arias, C.A.Basturnian, Z.Vasilievna, O.Serban, I.Sândulescu, V.Pârvulescu and I.V.Nicolescu, Influencia de Diferentes Parametros on la Conversion de Metilciclopentano y Cyclohexano con Zeolitas ZR 3,6 y ZR 37, *Rev.del Instituto del Petroleo (Mexico)*, 15, 91-99 (1983).
2. V.Pârvulescu, V.Pârvulescu, L.Frunzã, N.Grecu, C.Enache and Em.Angelescu, Selective Hydrogenation of Styrene on Pd-Ho/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> and Pd/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Catalysts, *Bull.Soc.Chim Belg.*, 102, 391- 399 (1993).
3. D.Macovei, V.Pârvulescu and C.M.Teodorescu, EXAFS Characterization of Dy and Pd-Dy on Alumina Catalysts, *React.Kinet.Catal.Lett.*, 52,81-86 (1993).
4. E.Segal, A.Andrei and V.Pârvulescu, DTA and X-Ray Diffraction Investigation of the Laser Irradiated CeO<sub>2</sub> powders, *J.Therm.Anal.*, 41,1063-1073 (1994).
5. V.Pârvulescu, D.Fãtu, A.Andrei and E.Segal, On the Changes Induced by Laser Irradiation of CrO<sub>3</sub> and K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> powders, *J.Therm.Anal.*, 44,147-159 (1995).
6. F.Vasiliu, V.Pârvulescu and C.Sãrbu, Trivalent Ce<sub>2</sub>O<sub>3</sub> and CeO<sub>2-x</sub> intermediate oxides induced by laser irradiation of CeO<sub>2</sub> powders, *J.Mater.Sci.*,29,2095-2101 (1994).

7. V.Pârvulescu, G.Filoti, V.Pârvulescu, N.Grecu, Em.Angelescu and I.V.Nicolescu, Styrene Hydrogenation on Supported Pd,Fe and Pd-Fe/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Catalysts, J.Mol.Catal.,89,267-282 (1994).
8. V.I.Pârvulescu, L.Frunzã, G.Catanã, R.Russu and V.Pârvulescu, Acidic and Textural Properties of H-ZSM-5 Impregnated with Gallium, Indium or Thallium, Appl.Catal.A, 121, 69-79 (1995).
9. V.I.Pârvulescu, F.Vasilu and E.Segal, Thermal Behaviour of CO<sub>2</sub> laser-irradiated CeO<sub>2</sub> doped with Yb<sub>2</sub>O<sub>3</sub>, J.Therm.Anal., 45, 1313-1322 (1995).
10. V.Pârvulescu, V.I.Pârvulescu, G.Popescu, A.Julbe, C.Guizard and L.Cot, Gas-Solid Oxidations with RuO<sub>2</sub>-TiO<sub>2</sub> and RuO<sub>2</sub>-SiO<sub>2</sub> Membranes, Catal.Today, 25, 385-389 (1995).
11. L.Frunzã, R.Russu, G.Catanã, V.Pârvulescu, G.Gheorghe, F.Constantinescu and V.I.Pârvulescu, Characterisation of ZSM-5 Samples Modified by Ions of Group IIIA, in Zeolites Science 1994: Recent Progress and Discussions, H.G.Karge and J.Weitkamp (Eds.),Stud. Surf.Sci.Catal., vol. 98, Elsevier Science B.V., Amsterdam, 1995, p.110-113.
12. V.I.Pârvulescu, V.Pârvulescu, S.Coman, C.Radu, D.Macovei, Em.Angelescu and R.Russu, Modified Ruthenium-Exchanged Zeolites for Enantioselective Hydrogenation,in Preparation of Catalysts VI, G.Poncelet et al. (Eds.),Stud. Surf.Sci.Catal., vol. 91, Elsevier Science B.V., Amsterdam, 1995, p.561-570.
13. V.I.Pârvulescu, P.Oelker, P.Gränge and B.Delmon, NO Decomposition over Bicomponent Cu-Sm-ZSM-5 Zeolites, Appl.Catal.B:Environmental, 16 (1998) 1-17.
14. V.I.Pârvulescu, V.Pârvulescu, D.Macovei and L.Frunzã, Hydrogenation of vinylbenzenes on Pd-Tm/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> and Tm/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> catalysts, J.Chem.Soc., Faraday Trans., 93, 1827-1837 (1997).
15. V.I.Pârvulescu, P.Gränge and B.Delmon, Effect of Co-exchanging with a Second Metal upon the Interaction of Nitric Oxide with Cu-ZSM-5 , J.Phys.Chem.B, 101, 6933- 6942 (1997).
16. F.Vasilu, C.Sârbu and V.I.Pârvulescu, Investigation of some phase transformations induced by CO<sub>2</sub> - laser irradiation in some rare-earth oxides, Solid State Ionics, 95, 107-112 (1997).
17. F. Cocu, S. Coman, C. Tănase, D.Macovei, and V.I.Pârvulescu, Diastereoselective hydrogenation of a prostaglandin intermediate over Ru supported on different molecular sieves, in „Heterogeneous Catalysis and Fine Chemicals IV“, H.U.Blaser, A.Baiker and R.Prins (Eds.), Stud.Surf.Sci.Catal. vol. 108, Elsevier Science B.V., Amsterdam, 1997, p.207-214.
18. V.Pârvulescu, S.Coman, L.Frunzã, D.Macovei, I.Sândulescu and V.I.Pârvulescu, Spillover Effects Induced by Rare-earth Metals on Pd/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub> in Vinylbenzenes Hydrogenation“, in "Spillover and migration of surface species on catalysts, Can Li and Qin Xin (Eds.), Stud.Surf.Sci.Catal. vol. 112, Elsevier Science B.V., Amsterdam, 1997, p.161-170.
19. V.Pârvulescu, M.Ruwet, P.Gränge and V.I.Pârvulescu, Sol-gel Synthesis of Cobalt-Niobia Catalysts, Solid State Ionics, 101-103, 137-141 (1997).
20. V.Pârvulescu, M. Ruwet, P.Gränge and V.I.Pârvulescu, Preparation, characterisation and catalytic behaviour of cobalt-niobia catalysts, J.Mol.Catal., 135, 75-88 (1998).
21. S.Coman, F.Cocu, J.F.Roux, V.I.Pârvulescu and S.Kaliaguine, Diastereoselective Hydrogenation of some Prostaglandins Intermediates and Compounds over MCM-41 Supported Ru, L.Bennevoit, F.Béland, C.Danumah, S.Giasson and S.Kaliaguine and

- (Eds.), Stud.Surf.Sci.Catal. vol. 117, Elsevier Science B.V., Amsterdam, 1998, p.501-509.
22. S.Coman, C.Bendic, M.Hillebrand, E.Angelescu, V.I.Pârvulescu, A.Petride and M.Banciu, Diastereoselective Hydrogenation of Cyclic- $\beta$ -Ketoesters over Modified Ru/Zeolite Catalysts, in Catalysis in Organic Reactions, F.Herkes (Ed.), Marcel Decker, New York, 1998, p. 145-157.
  23. D.Dumitriu, A.R.Bally, C.Ballif, V.I.Pârvulescu, P.E.Schmid, R.Sanjines and F.Levy, Reactive Sputtering as a tool for preparing Photocatalysts, in Preparation of Catalysts VII, B.Delmon, P.A.Jacobs, R.Maggi, J.A.Martens, P.Gränge and G.Poncelet (Eds.), Stud.Surf.Sci.Catal., vol. 118, Elsevier Science B.V., Amsterdam, 1998, p.485-494.
  24. V. Pârvulescu, R. Crăciun, F. Tiu, S. Coman, P. Gränge and V. I. Pârvulescu, Co-Nb<sub>2</sub>O<sub>5</sub>/SiO<sub>2</sub> Sol-Gel Catalysts: Preparation Implications on the Texture and Acidity of the Support and Dimension of the Metal Particle, in Preparation of Catalysts VII, B.Delmon, P.A.Jacobs, R.Maggi, J.A.Martens, P.Gränge and G.Poncelet (Eds.), Stud. Surf.Sci.Catal., vol. 118, Elsevier Science B.V., Amsterdam, 1998, p.691-698.
  25. V.Pârvulescu, V.I.Pârvulescu, C.Niculae, G.Popescu, A.Julbe, C.Guizard and L.Cot, Influence of the Preparation Variables on the Separative and Catalytic Properties of Ruthenium-Silica Membranes, in Preparation of Catalysts VII, B.Delmon, P.A.Jacobs, R.Maggi, J.A.Martens, P.Gränge and G.Poncelet (Eds.), Stud. Surf.Sci.Catal., vol. 118, Elsevier Science B.V., Amsterdam, 1998, p.205-212.
  26. V. Pârvulescu, S.Coman, P.Gränge and V. I.Pârvulescu, Preparation and Characterization of Sulfated Zirconia Catalysts obtained via various Procedures, Appl. Catal.A: General, 176 (1999) 27-43.
  27. S. Coman, V. Pârvulescu, P. Gränge and V. I. Pârvulescu, Transformation of C<sub>6</sub> Hydrocarbons over Sulfated Zirconia Catalysts, Appl. Catal. A: General, 176 (1999) 45-62.
  28. V.I.Pârvulescu, S.Coman, V.Pârvulescu and G.Poncelet, TG and DTA Investigation of ZrO<sub>2</sub>.SO<sub>4</sub><sup>2-</sup> Catalysts exposed to Hexane, Methylcyclopentane and Cyclohexane, Catal. Lett., 52 (1998) 231-238.
  29. V.Pârvulescu, S.Coman, P.Gränge and V.I.Pârvulescu, Mixed M<sub>2</sub>O<sub>3</sub>.ZrO<sub>2</sub>-SO<sub>4</sub><sup>2-</sup> (M=Ga, In, Tl) Catalysts: Preparation, Characterisation and Catalytic Behaviour in Dehydroisomerisation of n-Hexane, in Catalytic Activation and Functionalisation of Light Alkanes. Advances and Challenges, E.G.Derouane, J.Haber, F.Lemos, F.Ramoa-Ribeiro, and M.Guisnet (Eds.), vol.44, Kluwer Academic Publishers, 3.High Technology, Amsterdam, 1997, p.417-421.
  30. V.Pârvulescu, S.Coman, V.I.Pârvulescu, P.Gränge and G.Poncelet, Reaction of Hexane, Cyclohexane and Methylcyclopentane over Gallium-, Indium-, and Thallium-promoted Sulfated Zirconia Catalysts, J.Catal., 180 (1998) 66-84.
  31. V.I.Pârvulescu, D.Dumitriu and G.Poncelet, Hydrocarbon oxidation with hydrogen peroxide over germanic faujasites catalysts, J.Mol.Catal., 140 (1999) 91-105.
  32. S.Coman, F.Cocu, V.I.Pârvulescu, B.Tesche, H.Bönnemann, J.F.Roux, S.Kaliaguine and P.A.Jacobs, Stereocontrolled Hydrogenation of Prostaglandin Intermediates over Ru-MCM-41 Catalysts, J.Mol.Catal., 146 (1999) 247-256.
  33. V.Pârvulescu, P. Gränge and V.I.Pârvulescu, Preparation, characterization and catalytic properties of Co-Nb<sub>2</sub>O<sub>5</sub>-SiO<sub>2</sub> catalysts, Catal.Today, 57 (2000) 193-199.
  34. V.I.Pârvulescu, M.A.Centeno, O.Dupont, R.Bârjega, R.Ganea, B.Delmon and P.Gränge, Effect of the Support upon the Behavior of Cu in NO Decomposition Exemplified on Cu-ZSM-5 containing Zr, Catal.Today, 54 (1999) 507-519.



35. V.I.Pârvulescu, M.A.Centeno, P.Gränge and B.Delmon, NO Decomposition over Cu-Sm-ZSM-5 zeolites containing low exchanged copper, J. Catal., 191 (2000) 445-455.
36. V.I.Pârvulescu, S.Coman, P.Palade, D.Macovei, C.M.Teodorescu, G.Filoti, R.Molina, G.Poncelet and F.E. Wagner, Reducibility of ruthenium in relation with zeolite structure, Appl.Surf.Sci., 141 (1999) 164-176.
37. S. Coman, M. Florea, F. Cocu, V. I. Pârvulescu, P. A. Jacobs, C. Danumah and S. Kaliaguine Low metal loading Ru-MCM-41 stereocontrolled hydrogenation of prostaglandin intermediates, Chem. Commun., (1999) 2175-2176.
38. D. Dumitriu, A. R. Bally, C. Ballif, P. Hones, P. E. Schmid, R. Sanjines, F. Levy and V. I. Pârvulescu, Photocatalytic degradation of phenol by TiO<sub>2</sub> thin films prepared by sputtering, Appl. Catal. B: Environmental, 25 (2000) 83-92.
39. S. Boghosian, R. Fehrmann, J. Winnick, B. Bal'zhinimaev, V. I. Pârvulescu and Y. N. Zhukov, SO<sub>2</sub> and NO<sub>x</sub> abatement, Green Chemistry, 2 (2000) G26-G27.
40. H. Bönemann, U. Endruschat, B. Tesche, A. Rufínska, C. W. Lehmann, F. E. Wagner, G. Filoti, V. Pârvulescu and V. I. Pârvulescu, A SiO<sub>2</sub>-embedded nanoscopic Pd-Au alloy colloid, Eur. J. Inorg. Chem., (2000) 819-822.
41. V. I. Pârvulescu, V. Pârvulescu, S. Kaliaguine, U. Endruschat, B. Tesche and H. Bönemann, Hydrogenation of cinnamaldehyde on Ru-MCM and Ru-beta Catalysts, in Chem Ind. (Dekker) (Catalysis of Organic Reactions), M. E. Ford (Ed.), Marcel Decker, New York, 82 (2001) 301-306.
42. S. Coman, E. Angelescu, A. Petride, M. Banciu and V. I. Pârvulescu, Enantioselective catalytic hydrogenation of (6: 7,8: 9)-Dibenzobicyclo[3, 2, 2]nona-6, 8-dien-2-one on Ru-containing zeolites, in Chem Ind. (Dekker) (Catalysis of Organic Reactions), M. E. Ford (Ed.), Marcel Decker, New York, 82 (2001) 483-488.
43. M. Florea, M. Sevinci, V. I. Pârvulescu, G. Lemay and S. Kaliaguine, Ru-MCM-41 Catalysts for Diastereoselective Hydrogenation, Microporous and Mesoporous Materials, 44-45 (2001) 483-488.
44. S. Coman, F. Cocu, V. I. Parvulescu, D. De Vos and P. A. Jacobs, Chemoselective reduction of prostaglandin intermediates by liquid-phase hydrogen transfer on Pt-Sn/MCM-41 catalysts, Microporous and Mesoporous Materials, 44-45 (2001) 477-482.
45. S. Coman, F. Cocu, D. Oancea and V. I. Pârvulescu, Diastereoselective Hydrogenation of a Prostaglandinic Intermediate over Chirally Modified Pt/Al<sub>2</sub>O<sub>3</sub>, Catal. Today, 60 (2000) 185-192.
46. S. Coman, R. Carabă, F. Cocu, V. I. Pârvulescu, H. Bönemann, B. Tesche, C. Danumah and S. Kaliaguine, Diastereoselective hydrogenation of a prostaglandin intermediate over Ru supported on MCM - 41 and MCM-48, Stud. Surf. Sci. Catal., 130 (2000) 3471-3476.
47. V. I. Pârvulescu, H. Bonnemann, V. Pârvulescu, U. Endruschat, A. Rufinska, Ch. W. Lehmann, B. Tesche and G. Poncelet, Preparation and Characterization of Mesoporous Zirconium Oxide (I), Appl. Catal. A, 214 (2001) 273-288.
48. V. I. Pârvulescu, V. Pârvulescu, U. Endruschat, Ch. W. Lehmann, P. Gränge, G. Poncelet and H. Bönemann, Preparation and Characterization of Mesoporous Zirconium Oxide. Part 2, Microporous and Mesoporous Materials, 44-45 (2001) 221-226.
49. V. I. Pârvulescu, P. Gränge and B. Delmon, NO decomposition over physical mixtures of Cu-ZSM-5 with zeolites or oxides, Appl. Catal. B: Environmental, 33 (2001) 223-237.

50. V. I. Pârvulescu, E. Segal, B. Delmon and P. Grange, Effect of NO and oxygen upon the deactivation of Cu-ZSM-5 in NO decomposition, Stud. Surf. Sci. Catal., 133 (2001) 317-326.
51. A. N. Pârvulescu, B. C. Gagea, M. Alifanti, V. Pârvulescu, V. I. Pârvulescu, S. Nae, A. Răzuș, G. Poncelet and P. Grange, Silica-embedded tert-butyldimethylsilyltrifluoromethanesulfonate catalysts as new solid acid catalysts, J. Catal., 202 (2001) 319-323.
52. A. N. Pârvulescu, B. C. Gagea, V. Pârvulescu, V. I. Pârvulescu, G. Poncelet and P. Grange, Comparative behavior of silica-embedded tert-butyldimethylsilyltrifluoromethane-sulfonate and lanthanum triflate catalysts, Catal. Today, 73 (2003) 177- 185.
53. R. M. Caraba, S. G. Masters, K. M. Eriksen, V. I. Pârvulescu and R. Fehrmann, Selective Catalytic Reduction of NO by NH<sub>3</sub> over high surface area vanadia-silica catalysts, Appl. Catal. B: Environmental, 34 (2001) 191-200.
54. S. Oprescu, V. Pârvulescu, A. Petride, M. D. Banciu and V. I. Pârvulescu, Hydrogenolysis of 1,1a,6,10b-tetrahydro-1,6-methanodibenzo[a,e]cyclopropa[c] cycloheptene over silica- and zirconia-embedded Ru-colloids, J. Mol. Catal. A: Chemical, 186 (2002) 153-161.
55. F. Tiu, V. Pârvulescu, P. Grange and V. I. Pârvulescu, Effect of hydrogen spillover in hydrogenolysis and cracking of butane on Co-niobia-silica catalysts, in A. Guerrero-Ruiz and I. Rodriguez-Ramos (Eds.), Stud. Surf. Sci. Catal., 138 (2001) 251-258.
56. V. I. Pârvulescu, B. Delmon and P. Grange, Spillover of oxygen species in the catalysts for NO Decomposition, in A. Guerrero-Ruiz and I. Rodriguez-Ramos (Eds.) Stud. Surf. Sci. Catal., 138 (2001) 323-330.
57. S. M. Coman, V. I. Pârvulescu, M. De bruyn, D. E. De Vos and P. A. Jacobs, Reduction of prostaglandin unsaturated ketones to secondary allylic alcohols by hydrogen transfer over mesoporous supported PtSn catalysts, J. Catal., 206 (2002) 218-229.
58. G. Gelbard, T. Gauducheau, E. Vidal, V. I. Pârvulescu, A. Crosman and V. Pop, Epoxidation with peroxotungstic acid immobilized onto silica-grafted phosphoramides, J. Mol. Catal., 182-183 (2002) 251-266.
59. R. Preda, V. I. Pârvulescu, A. Petride, A. Banciu, A. Popescu and M. D. Banciu, Hydrogenolysis of 1,1a,6,10b-tetrahydro-1,6-methanodibenzo[a,e]cyclopropa[c] cycloheptene over Ru-zeolites, J. Mol. Catal., 178 (2002) 79-87.
60. V. I. Pârvulescu, V. Pârvulescu, S. Boghosian, S. M. Jung and P. Grange, SCR of NO with NH<sub>3</sub> over mesoporous V<sub>2</sub>O<sub>5</sub>-TiO<sub>2</sub>-SiO<sub>2</sub> catalysts with MS texture, J. Catal., 217 (2003) 172-185.
61. V. I. Pârvulescu, M. Alifanti, M. H. Zahedi-Niaki, P. Grange and S. Kaliaguine, A Comparison of SAPO, GaPSO, MgAPO and GaPO's as DENO<sub>x</sub> catalysts, in R. Aiello, G. Giordano, F. Testa (Eds.), Stud. Surf. Sci. Catal., 142 (2002) 823-830.
62. M. Alifanti, C. M. Visinescu, V. I. Pârvulescu, P. Grange and G. Poncelet, Preparation and Characterization of WO<sub>x</sub>-CeO<sub>2</sub> Catalysts, in E. Gaigneaux, D. E. De Vos, P. Grange, P. A. Jacobs, J. A. Martens, P. Ruiz, G. Poncelet, Stud. Surf. Sci. Catal., 143 (2002) 337-344.
63. V. I. Pârvulescu, C. M. Visinescu, M. H. Zahedi-Niaki and S. Kaliaguine, New evidences for the fluoride contribution in synthesis of gallium phosphates, in R. Aiello, G. Giordano, F. Testa (Eds.), Stud. Surf. Sci. Catal., 142 (2002) 367-374.
64. A. N. Pârvulescu, B. C. Gagea, M. Alifanti, V. Pârvulescu and V. I. Pârvulescu, Sol-gel synthesis of colloids and triflates containing hybrid type catalysts, in E. Gaigneaux, D.

- E. De Vos, P. Grange, P. A. Jacobs, J. A. Martens, P. Ruiz, G. Poncelet, Stud. Surf. Sci. Catal., 143 (2002) 177-184.
65. D.C. Radu, V. Pârvulescu, V. Câmpeanu, E. Bartha, A. Jonas, P. Grange and V. I. Pârvulescu, Chemoselective oxidation of 2-thiomethyl-4,6-dimethyl-pyrimidine and 2-thiobenzyl-4,6-dimethyl-pyrimidine over titania-silica catalysts, Appl. Catal. A: General, 242 (2003) 77-84.
66. B. C. Gagea, A. N. Pârvulescu, V. I. Pârvulescu, V. Pârvulescu, P. Grange and G. Poncelet, Isomerization of Cyclohexane and Hexane over Silica-embedded Triflate Derivatives Catalysts, ARKIVOC, 2 (2002) 32-41.
67. D. C. Radu, V. Câmpeanu, F. Bertinchamps, E. M. Gaigneaux and V. I. Pârvulescu, Oxidation of 2-thiobenzyl-4,6-dimethyl-pyrimidine with hydrogen peroxide over Mo oxides, Mo suboxides and mixed Mo-Sb oxides catalysts, Catal. Commun., 4(2003) 5-9.
68. I. Giakoumelou, R. M. Caraba, V. I. Pârvulescu and S. Boghosian, First *in situ* Raman study of vanadium oxide based SO<sub>2</sub> oxidation supported molten salt catalysts, Catal. Lett., 78 (2002) 209-214.
69. D. Dumitriu, R. Bârjega, L. Frunza, D. Macovei, T. Hu, Y. Xie, V. I. Pârvulescu and S. Kaliaguine, BiO<sub>x</sub> clusters occluded in a ZSM-5 matrix: preparation, characterization, and catalytic behavior in liquid phase oxidation of hydrocarbons, J. Catal., 219 (2003) 337-351
70. M. De bruyn, M. Limbourg, J. Denayer, G. V. Baron, V. I. Pârvulescu, P. J. Grobet, D. E. De Vos, P. A. Jacobs, Mesoporous Zr and Hf catalysts for chemoselective MPV reductions of unsaturated ketones, Appl. Catal. A: General, 254 (2003) 189-201.
71. M. De bruyn, S. Coman, R. Bota, V. I. Pârvulescu, D. E. De Vos, P. A. Jacobs, Chemoselective reduction of complex  $\alpha$ ,  $\beta$ -unsaturated ketones to allylic alcohols over Ir metal particles on beta zeolites, Angew. Chem., Int. Ed. Engl., 115 (2003) 5491-5494..
72. B. C. Gagea, A. N. Pârvulescu, V. I. Pârvulescu, A. Auroux, P. Grange, G. Poncelet, Alkylation of phenols and naphthols on silica-immobilized triflate-derivatives, Catal. Lett., 91 (2003) 141-144.
73. D. C. Radu, A. Ion, V. I. Pârvulescu, V. Câmpeanu, E. Bartha, D. Trong On, S. Kaliaguine, Oxidation of methyl-propyl-thioether with hydrogen peroxide using Ti-SBA-15 as catalyst, in S. -E. Park, R. Ryoo, W. -S. Ahn, C. W. Lee, J. -S. Chang (Eds.), Stud. Surf. Sci. Catal., 146 (2003) 609-613.
74. V. Pârvulescu, V. I. Pârvulescu, M. Alifanti, S. M. Jung, P. Grange, One pot synthesis of mesoporous ternary V<sub>2</sub>O<sub>5</sub>-TiO<sub>2</sub>-SiO<sub>2</sub> catalysts, in S. -E. Park, R. Ryoo, W. -S. Ahn, C. W. Lee, J. -S. Chang (Eds.), Stud. Surf. Sci. Catal., 146 (2003) 585-589.
- V. I. Pârvulescu, M. Florea, G. Gelbard, M. A. Centeno, G. Lamay and S. Kaliaguine, Epoxidation of cyclohexene and indene on silicalite embedded BiO<sub>x</sub>-clusters, in "Recent Advances in the Science and Technology of Zeolites and Related Materials", E. Van Steen, L.H. Callanan, M. Claeys, Stud. Surf. Sci. Catal. 154 (2004) 2647-2654.
76. V. Rives, M. del Arco, O. Prieto, A. Fetcu and V. I. Pârvulescu, Birnessites as very efficient catalysts for liquid oxidation of cyclohexane and cyclohexene, in "Recent Advances in the Science and Technology of Zeolites and Related Materials", E. Van Steen, L.H. Callanan, M. Claeys, Stud. Surf. Sci. Catal. 154 (2004) 2639-2646.
77. S. Coman, D. Radu, V. I. Pârvulescu, Z. Sobalik, D. E. De Vos, P. A. Jacobs, The diastereoselection properties of the Ru-BEA catalysts in the prostaglandin intermediates hydrogenation, Stud. Surf. Sci. Catal., in "Recent Advances in the Science and Technology of Zeolites and Related Materials", E. Van Steen, L.H. Callanan, M. Claeys, Stud. Surf. Sci. Catal. 154 (2004) 2696-2703.

78. A. Crosman, G. Gelbard, G. Poncelet and V. I. Parvulescu, Epoxidation of cyclohexene and indene with hydrogen peroxide in the presence of WO<sub>5</sub> onto hydroxyapatite as catalyst, Appl. Catal. A: General, 264 (2004) 23-32..
79. A.-S. Mamede, E. Payen, P. Grange, G. Poncelet, A. Ion, M. Alifanti, V. I. Pârvulescu, Characterization of WO<sub>x</sub>/CeO<sub>2</sub> catalysts and their reactivity in isomerization of hexane, J. Catal., 223 (2004) 1-12.
80. V. I. Parvulescu, C. Paun, V. Pârvulescu, M. Alifanti, I. Giakoumelou, S. Boghosian, S. B. Rasmussen, M. Eriksen, R. Fehrmann, Vanadia-silica and vanadia-cesium-silica catalysts for oxidation of SO<sub>2</sub>, J. Catal., 225 (2004) 24-36.
81. S. Budoace, V. Cimpeanu, V. Pârvulescu, M. A. Centeno, P. Grange, V. I. Pârvulescu Chemoselective oxidation of 2-thiomethyl-4,6-dimethyl-pyrimidine on nanostructured tantalum oxides, Catal. Today, 91-92 (2004) 221-225.
82. C. Paun, S. Boghosian, V. Pârvulescu, Ph. Massiot, M. A. Centeno, P. Grange, V. I. Pârvulescu, New vanadia-mesoporous catalysts for the oxidation of SO<sub>2</sub> in diluted gases, Catal. Today, 91-92 (2004) 35-39.
83. M. Musteata, V. Musteata, V. David, A. Medvedovici, B. Gagea, V. I. Pârvulescu, Heterogeneous synthesis of amido-type surfactants for bitumenes, C. R. Chimie, 7 (2004) 623-628..
84. V. Cimpeanu, V. I. Pârvulescu P. Amoros, D. Beltran, S. Johnson, C. Hardacre, Heterogeneous oxidation of pyrimidine- and alkylthioethers in ionic liquids over mesoporous Ti and Ti, Ge catalysts, Chem., Eur. J., 10 (2004) 4640-4646.
85. F. Iosif, S. Coman, V. I. Pârvulescu, P. Grange, S. Delsarte, D. De Vos, P. A. Jacobs, Ir-Beta zeolite as a heterogeneous catalyst for the one-pot transformation of citronellal to menthol, Chem. Commun., (2004) 1292-1293.
86. I. Giakoumelou, V.I. Pârvulescu, S. Boghosian, Oxidation of sulfur dioxide over supported solid V<sub>2</sub>O<sub>5</sub>/SiO<sub>2</sub> and supported molten salt V<sub>2</sub>O<sub>5</sub>-Cs<sub>2</sub>SO<sub>4</sub>/SiO<sub>2</sub> catalysts: Molecular structure and reactivity, J. Catal., 225 (2004) 337-349.
87. S. M. Coman, A. Dobre, M. D. Banciu, A. Petride, C. Cimpeanu, G. Poncelet, V.I. Pârvulescu, Transformation of 5-hydroxymethylene-5H-6,7-dihydrodibenzo[a,c]cyclohepten-6-one over Ru-containing BEA zeolites, J. Mol. Catal., A: Chemical, 220 (2004) 257-265.
88. I. Mandache, V.I. Pârvulescu, A. Popescu, L. Pârvulescu, M. D. Banciu, P. Amoros, D. Beltran, D. Trong On, S. Kaliaguine, Epoxidation of dibenzocycloalkenes on Ti-Ge-MCM-41 and Ti-SBA-15 catalysts, Microp. Mesop. Mater., 81 (2005) 115-124.
89. V. Cimpeanu, A. N. Parvulescu, V.I. Pârvulescu, D.T. On, S. Kaliaguine, J. M. Thompson, C. Hardacre, Liquid-phase oxidation of a pyrimidine thioether on Ti-SBA-15 and UL-TS-1 catalysts in ionic liquids, J. Catal., 232 (2005) 60-67.
90. M. Alifanti, M. Florea, S. Somacescu, V.I. Pârvulescu, Supported Perovskites for total oxidation of toluene, Appl. Catal. B: Environmental, 60 (2005) 33-39.
91. C.M. Visinescu, R. Sanjines, F. Lévy, V.I. Pârvulescu, Photocatalytic degradation of acetone by Ni-doped titania thin films prepared by dc reactive sputtering, Appl. Catal. B: Environmental, 60 (2005) 155-162.
92. C.M. Visinescu, R. Sanjines, F. Lévy, V. Marcu, V.I. Pârvulescu, Tantalum doped titania photocatalysts: preparation by dc reactive sputtering and catalytic behavior, J. Photochem. Photobiol., 174 (2005) 106-112.
93. V. Cimpeanu, C. Hardacre, V.I. Pârvulescu, J. Thompson, Stabilization of Ti-molecular sieves catalysts used in the selective sulfoxidation reactions by Ionic Liquids, Green Chem., 7 (2005) 326-332.

94. D.C. Radu, S.M. Coman, V.I. Pârvulescu, D. De Vos, P.A. Jacobs, Z. Sobalik, Investigation of acidic properties of Ir-\*BEA zeolites by Py-, DTBP-, and Qu-FTIR, in *Molecular Sieves: from Basic research to Industrial Applications*, J. Cejka, N. Zilkova, P. Nachtigall (Eds), Stud. Surf. Sci. Catal., 158 (2005) 909-916.
95. M. Magureanu, N.B. Mandache, P. Elloy, E.M. Gaigneaux, V.I. Pârvulescu, Plasma-assisted catalysis for volatile organic compounds abatement, Appl. Catal. B: Environmental, 61 (2005) 12-20.
96. A. N. Pârvulescu, G. Marin, K. Suwinska, V.Ch. Kravtsov, M. Andruh, V. Pârvulescu, V.I. Pârvulescu, A polynuclear complex, {[Cu(bpe)<sub>2</sub>](NO<sub>3</sub>)}, with interpenetrated diamondoid networks: synthesis, properties and catalytic behavior, J. Mater. Chem., 15 (2005) 4234-4240.
97. V. Cimpanu, V. Pârvulescu, V. I. Pârvulescu, M. Capron, P. Granger, J. M. Thompson, and C. Hardacre, Selective oxidation of a pyrimidine thioether using supported tantalum catalysts in ionic liquids, J. Catal., 235 (2005) 184-194.
98. B. C. Gagea, A. N. Pârvulescu, G. Poncelet, V. I. Pârvulescu, Alkylation of hydroquinone with tert-butanol over silica-immobilized triflate derivatives, Catal. Lett., 105 (2005) 219-222.
99. A. N. Pârvulescu, B. C. Gagea, G. Poncelet, V. I. Pârvulescu, Acylation of alcohols and activated aromatic compounds on silica embedded triflate catalysts, Appl. Catal. A: General, 301 (2006) 133-137.
100. M. Alifanti, M. Florea, V. Cortes-Corberan, U. Endruschat, B. Delmon, V. I. Pârvulescu, Effect of LaCoO<sub>3</sub> perovskite deposition on ceria based supports on total oxidation of VOC, Catal. Today, 112 (2006) 169-173.
101. M. Florea, A-S. Mamede, P. Eloy, V.I. Parvulescu, E. M. Gaigneaux High surface Mo-V-Nb-Te-O catalysts: preparation, characterization and catalytic behaviour in ammoxidation of propane, Catal. Today, 112 (2006) 139-142.
102. V. I. Pârvulescu, V. Pârvulescu, U. Endruschat, G. Filotti, F. E. Wagner, C. Kübel, R. Richards, Characterization and catalytic hydrogenation behavior of SiO<sub>2</sub>-embedded nanoscopic Pd, Au and Pd-Au alloy colloids, Chem., Eur. J., 12 (2006) 2343 - 2357.
103. V. Cimpanu, V. Pârvulescu, V.I. Pârvulescu, J. M Thompson, C. Hardacre, Thioethers oxidation on dispersed Ta-silica mesoporous catalysts in ionic liquids, Catal. Today, 117(2006) 126-132.
104. M. Alifanti, M. Florea, G. Filotti, V. Kuncser, V. Cortes-Corberan, V.I. Parvulescu, In Situ Structural Changes During Toluene Complete Oxidation on Supported EuCoO<sub>3</sub> Monitored with <sup>151</sup>Eu Mössbauer Spectroscopy, Catal. Today, 117 (2006) 329-336.
105. M. Magureanu, N.B. Mandache, E.M. Gaigneaux, C. Paun, V.I. Pârvulescu, Toluene oxidation in a plasma-catalytic system, J. Appl. Phys., 99 (2006) 301-308.
106. K. Kranjc, M. Kočevar, F. Iosif, S. M. Coman, V. I. Parvulescu, E. Genin, J.-P. Genêt, V. Michelet, Efficient and Green Access to Functionalized and Highly Constrained Heteropolycyclic Derivatives via Microwave-Accelerated Diels-Alder Cycloaddition and Heterogeneous Hydrogenation Sequence, Synlett (2006) 1075-1079.
107. D. Carriazo, C. Martín, V. Rives, A. Popescu, B. Cojocar, I. Mandache, V. I. Pârvulescu, Hydrotalcites Compositio as Catalysts: Preparation and their behavior on epoxidation of two bicycloalkenes, Micropor. & Mesopor. Mater., 95 (2006) 39-47.
108. V.I. Parvulescu, C. Visinescu, V. Parvulescu, V. Marcu, Francis Levy, Comparative photocatalytic behavior of Ta catalysts prepared by DC-sputtering, sol-gel and grafting in acetone degradation, Catal. Today, 118 (2006) 433.

109. A. N. Pârvulescu, B. C. Gagea, V. I. Pârvulescu, D. De Vos, P.A. Jacobs, Acylation of 2-methoxynaphtalene with acetic anhydride over silica-embedded triflate catalysts, Appl. Catal. A: General, 306 (2006) 159-164.
110. M. Magureanu, N. Mandache, V.I. Pârvulescu, Chlorinated organic compounds decomposition by non-thermal plasma, Plasma Chemistry and Plasma Processing, 27 (2007), 679-690.
111. C. Tiseanu, M.U. Kumke, V.I. Parvulescu, A. Gessner, B. Gagea, J. Martens Photoluminescence Response of Terbium-Exchanged MFI-Type Materials to Si/Al Ratio, Texture and Hydration State, J. Phys. Chem. B, 110 (2006) 25707-25715.
112. A. Ion, V.I. Pârvulescu, P.A. Jacobs, D. DeVos, Synthesis of symmetrical or asymmetrical urea compounds from CO<sub>2</sub> via base catalysis, Green Chem., 9 (2007) 158-161.
113. M. Florea, E.M. Gaigneaux, V.I. Pârvulescu, Preparation of Mo-V-Te-Nb mixed oxides using the template route, in Scientific Bases for the Preparation of Heterogeneous Catalysts, E. M. Gaigneaux, M. Devillers, D.E. de Vos, S. Hermans, P.A. Jacobs, J.A. Martens, P. Ruiz (Eds.), Stud. Surf. Sci. Catal. 162 (2006) 769-776.
114. M. Alifanti, M. Florea, V.I. Parvulescu, Ceria based oxides as supports for LaCoO<sub>3</sub> perovskite; catalysts for total oxidation of VOC, Appl. Catal. B: Environmental, 70 (2007) 400-405.
115. C. Paun, J. Barklie, P. Goodrich, H. Q. N. Gunaratne, A. McKeown, V. I. Pârvulescu, C. Hardacre, Supported and liquid phase task specific ionic liquids for base catalysed Knoevenagel reactions, J. Mol. Catal. A: Chem., 269 (2007) 64-71.
116. V. Cimpeanu, F. Bertinchamps, E. M. Gaigneaux, V. I. Pârvulescu, The role of crystalline structure of molybdenum oxide catalysts onto the activity and stability in sulfoxidation of thioethers, Appl. Catal. A: General, 325 (2007) 283-289.
117. C. Tiseanu, M.U. Kumke, V. I. Pârvulescu, A.S.R. Koti, B.C. Gagea, J.A. Martens, Time-resolved photoluminescence of terbium-doped microporous-mesoporous Zeolite-1 materials, J. Photochem. Photobiol., A: Chem. 187 (2007), 299-304.
118. S. Doherty, P. Goodrich, C. Hardacre, J.G. Knight, M.T. Nguyen, V. I. Pârvulescu, C. Paun, Recyclable Copper Catalysts based on Imidazolium-Tagged Bis(oxazolines): A Marked Enhancement in Rate and Enantioselectivity for Diels-Alder Reactions in Ionic Liquids, Adv. Synth. Catal. 349 (2007) 951-963.
119. V. I. Pârvulescu, V. Parvulescu, U. Endruschat, P. Granger, R. Richards, Mesoporous Pt-SiO<sub>2</sub> and Pt-SiO<sub>2</sub>-Ta<sub>2</sub>O<sub>5</sub> catalysts prepared using Pt colloids as templates, ChemPhysChem 8 (2007) 666-678.
120. C. Tiseanu, B. Gagea, V. I. Pârvulescu, V. Lorenz-Fonfria, A. Gessner, M.U. Kumke, Investigation of the Hydrophobization Efficiency of Terbium-Exchanged BEA Zeolites by Means of FT-IR, TGA, Physical Adsorption, and Time-Resolved Photoluminescence, Langmuir 23 (2007) 6781-6787.
121. L. Frunza, A. Schoenhals, S. Frunza, V.I. Parvulescu, B. Cojocar, D. Carriazo, C. Martin, V. Rives, Rotational Fluctuations of Water Confined to Layered Oxide Materials: Nonmonotonous Temperature Dependence of Relaxation Times, J. Phys. Chem. A 111 (2007) 5166-5175.
122. S. M. Coman, M. Florea, V.I. Parvulescu, V. David, A. Medvedovici, D. De Vos, P.A. Jacobs, G. Poncelet, P. Grange, Metal-triflate ionic liquid systems immobilized onto mesoporous MS41 materials as new and efficient catalysts for N-acylation, J. Catal. 249 (2007) 359-369.
123. M. Magureanu, N.B. Mandache, V.I. Parvulescu, Ch. Subrahmanyam, A. Renken, L. Kiwi-Minsker, Improved performance of non-thermal plasma reactor during

- decomposition of trichloroethylene: Optimization of the reactor geometry and introduction of catalytic electrode, Appl. Catal. B: Environmental, 74 (2007) 270-277.
124. C. Tiseanu, M.U. Kumke, V.I. Parvulescu, B.C. Gagea, J.A. Martens, Comparative time-resolved luminescence studies of Tb-ZSM-5 and Tb-MFI mesoporous materials, in *Recent Progress in Mesostructured Materials*, D. Zhao, S. Qiu, Y. Tang and C. Yu (Eds.), Stud. Surf. Sci. Catal. 165 (2007) 531-534.
125. M. Musteata, V. Musteata, A. Dinu, V.I. Parvulescu, V.T. Hoang, D. Trong-On, S. Kaliaguine, Acylation of fatty acids with amino-alcohols on UL-MFI type materials, in *Recent Progress in Mesostructured Materials*, D. Zhao, S. Qiu, Y. Tang and C. Yu (Eds.), Stud. Surf. Sci. Catal. 165 (2007) 535-538.
126. F. Iosif, V.I. Parvulescu, M. E. Perez-Bernal, R.J. Ruano-Casero, V. Rives, K. Kranjc, S. Polanc, M. Kocevar, E. Genin, J.-P. Genet, V. Michelet, Heterogeneous hydrogenation of bicyclo[2.2.2]octenes on Rh/TPPTS/LDH catalysts, J. Mol. Catal. A: Chem. 276 (2007) 34-40
127. M. Magureanu, N. Mandache, B. Nicolae, V.I. Parvulescu, Degradation of organic dyes in water by electrical discharges, Plasma Chem. & Plasma Proc., 27 (2007) 589-598.
128. S.M. Coman, G. Pop, C. Stere, V.I. Parvulescu, J. El Haskouri, D. Beltrán, P. Amorós, New heterogeneous catalysts for greener routes in the synthesis of fine chemicals, J. Catal. 251 (2007) 388-399.
129. M. Magureanu, N. B. Mandache, J. Hu, R. Richards, M. Florea, V.I. Parvulescu, Plasma-assisted catalysis total oxidation of trichloroethylene over gold nano-particles embedded in SBA-15 catalysts, Appl. Catal. B: Environmental 76 (2007) 275-281
130. M. Musteata, V. Musteata, A. Dinu, M. Florea, V.-T. Hoang, D. Trong-On, S. Kaliaguine, V. I. Parvulescu, Acylation of different amino derivatives with fatty acids on UL-MFI-type catalysts, Pure & Appl. Chem. 79 (2007) 2059-2068.
131. L. Mantarosie, S. Coman, V.I. Parvulescu, Comparative behavior of various lipases in benign water and ionic liquids solvents, J. Mol. Catal. A: Chemical 279 (2008) 223-229.
132. A. Ion, Ch. van Doorslaer, V.I. Parvulescu, P. Jacobs, D. De Vos, Green synthesis of carbamates from CO<sub>2</sub>, amines and alcohols. Green Chem. 10 (2008) 111-116.
133. C. Paun, S.M. Coman, V. I. Parvulescu, C. Hardacre, P. Goodrich, Acylation of sulfonamides using silica grafted 1-butyl-3-(3-triethoxysilylpropyl)-4,5-dihydroimidazolium ionic liquids as catalysts, Catal. Today, 131 (2008) 98-103.
134. C. Tiseanu, A. Gessner, M. Kumke, B. Gagea, V.I. Parvulescu, J. Martens, Photoluminescence spectra and dynamics of lanthanide-doped microporous-mesoporous materials, J. Lumin. 128 (2008) 751-753.
135. B. Cojocaru, M. Laferriere, E. Carbonell, V.I. Parvulescu, H. Garcia, J.C. Scaiano, Direct Time-Resolved Detection of Singlet Oxygen in Zeolite-Based Photocatalysts, Langmuir, 24 (2008) 4478-4481.
136. M. Verziu, B. Cojocaru, J. Hu, R. Richards, C. Ciuculescu, P. Filip, V.I. Parvulescu, Sunflower and rapeseed oil transesterification to biodiesel over different nanocrystalline MgO catalysts, Green Chem. 10 (2008) 373-381.
137. F. Neatu, A. Kraynov, V.I. Parvulescu, K. Kranjc, M. Kocevar, V. Ratovelomanana-Vidal, R. Richards, Synphos modified Pt nanoclusters, their heterogenization by silica sol-gel entrapment, and catalytic activity in hydrogenolysis of bicyclo[2.2.2]oct-7-enes and hydrogenation of ethyl pyruvate, Nanotechnology 19 (2008) 225702/1-225702/8.
138. A.S. Mamede, E. Payen, P. Granger, M. Florea, V.I. Parvulescu, WO<sub>x</sub>-CeO<sub>2</sub> and WO<sub>x</sub>-Nb<sub>2</sub>O<sub>5</sub> catalysts deactivation during hexane isomerization, AIChE J., 54 (2008) 1303-1312.

139. S. Doherty, P. Goodrich, C. Hardacre, V.I. Parvulescu, C. Paun, Efficient heterogeneous asymmetric catalysis of the Mukaiyama aldol reaction by silica- and ionic liquid-supported Lewis acid copper(II) complexes of bis(oxazolines), Adv. Synth. & Catal. 350 (2008) 295-302.
140. B. Cojocaru, V.I. Parvulescu, E. Preda, G. Iepure, V. Somoghi, E. Carbonell, M. Alvaro, H. Garcia, Sensitizers on Inorganic Carriers for Decomposition of the Chemical Warfare Agent Yperite, Environ. Sci. & Technol. 42 (2008) 4908-4913.
141. Z. Li, Ch. Kubel, V.I. Parvulescu, R. Richards, Size Tunable Gold Nanorods Evenly Distributed in the Channels of Mesoporous Silica, ACS Nano 2 (2008) 1205-1212.
142. F. Neațu, A. Kraynov, L. D'Souza, V.I. Pârvescu, K. Kranjc, M. Kočevár, V. Kuncser, R. Richards, Iron oxide colloids and their heterogenization by silica sol-gel entrapment: Catalytic and magnetic properties, Appl. Catal. A: General 346 (2008) 28-35.
143. C. Tiseanu, M.U. Kumke, V.I. Parvulescu, A. Gessner, B. Gagea, J. Martens, Europium(3+): An Efficient Luminescence Probe for the Si to Al Ratio and Silylation Effects in the Microporous-Mesoporous Zeogrid Materials, J. Phys. Chem. B 112 (2008) 10552-10562.
144. C. Tiseanu, V.A. Lorenz-Fonfria, V.I. Parvulescu, A. Gessner, M.U. Kumke, Photoluminescence study of terbium-exchanged ultrastable Y zeolites: Number of species, photoluminescence decays, and decay-associated spectra, J. Appl. Phys. 104 (2008) 033530/1-033530/9.
145. F. Neatu, K. Triantafyllidis, J.-P. Genet, V. Michelet, V.I. Parvulescu, Rh-TPPTS/LDH- A new heterogeneous catalyst for the synthesis of functionalized  $\gamma$ -lactone, in "Zeolites and Related Materials: Trends, Targets and Challenges", A. Gedeon, P. Massiani, F. Babonneau, Stud. Surf. Sci. Catal. 174 (2008) 1057-1062.
146. S. Neatu, V.I. Parvulescu, G. Epure, E. Preda, V. Somoghi, A. Damin, S. Bordiga, A. Zecchina, Photo-degradation of yperite over V, Fe and Mn-doped titania-silica photocatalysts, Phys. Chem. Chem. Phys. 10 (2008) 6562-6570.
147. F. Neatu, Z. Li, R. Richards, P.Y. Toullec, J.-P. Genet, K. Dumbuya, M.J. Gottfried, H.P. Steinrueck, V.I. Parvulescu, V. Michelet, Heterogeneous gold catalysts for efficient access to functionalized lactones, Chem. Eur. J. 14 (2008) 9412-9418.
148. F. Neatu, M. Besnea, V.G. Komvokis, J.-P. Genet, V. Michelet, K.S. Triantafyllidis, V.I. Parvulescu, Hydrotalcite docked Rh-TPPTS complexes as efficient catalysts for the arylation of 2-cyclohexen-1-one in neat water, Catal. Today 139 (2008) 161-167.
149. M. Magureanu, D. Piroi, N. B. Mandache, V.I. Parvulescu, Decomposition of methylene blue in water using a dielectric barrier discharge: Optimization of the operating parameters, J. Appl. Phys. 104 (2008) 103306/1-7.
150. M. Magureanu, D. Piroi, F. Gherendi, N. B. Mandache, V.I. Parvulescu, Decomposition of Methylene Blue in Water by Corona Discharges, Plasma Chem Plasma Process. 28 (2008) 677-688.
151. P. Goodrich, C. Hardacre, C. Paun, V. I. Parvulescu, I. Podolean, Ionic Liquid Effect on the Reversal of Configuration for the Magnesium(II) and Copper(II) Bis(oxazoline)-Catalysed Enantioselective Diels-Alder Reaction, Adv. Synth. Catal. 2008, 350, 2473 - 2476.
152. S. Neatu, E. Sacaliuc-Parvulescu, F. Levy, V.I. Parvulescu, Photocatalytic decomposition of acetone over dc-magnetron sputtering supported vanadia/TiO<sub>2</sub> catalysts, Catal. Today 142 (2009) 165-169.
153. V. Cimpeanu, M. Kocevar, V.I. Parvulescu, W. Leitner, Preparation of Rhodium Nanoparticles in Carbon Dioxide Induced Ionic Liquids and their Application to Selective Hydrogenation, Angew. Chem. Int. Ed., 48 (2009) 1085 -1088.



154. F. Neațu, V.I. Pârvulescu, V. Michelet, J.-P. Gênet, A. Goguet, C. Hardacre, Gold imidazolium-based ionic liquids, efficient catalysts for cycloisomerization of  $\gamma$ -acetylenic carboxylic acids, New J. Chem., 33 (2009) 102-106.
155. F. Neatu, Z. Li, R. Richards, P.Y. Toullec, J.-P. Genet, K. Dumbuya, M.J. Gottfried, H.P. Steinrueck, V.I. Parvulescu, V. Michelet, Heterogeneous gold catalysts for efficient access to functionalized lactones, Synfacts 1 (2009) 0114-0114.
156. S. M. Coman, C. Stere, J. El Haskouri, D. Beltran, P. Amoros, V. I. Parvulescu, „Green” Acylation of Aromatic Sulfonamides in Heterogeneous Catalysis, Catalysis of Organic Reactions, M.L. Prunier (Ed.), Taylor and Francis Group, Boca Raton, 2009, p. 425-434, Chem. Ind. 123 (2009) 425-434.
157. M. Florea, M. Alifanti, V. I. Parvulescu, D. Mihaila-Tarabaseanu, L. Diamandescu, M. Feder, C. Negri, L. Frunza, Total oxidation of toluene on ferrite-type catalysts, Catal. Today, 141 (2009) 361-366.
158. M. Verziu, M. Florea, S. Simon, V. Simon, P. Filip, V.I. Parvulescu, C. Hardacre, Transesterification of vegetable oils on basic large mesoporous alumina supported alkaline fluorides—Evidences of the nature of the active site and catalytic performances, J. Catal. 263 (2009) 56–66.
159. C. Tiseanu, V.I. Parvulescu, M.U. Kumke, S. Dobroiu, A. Gessner, S. Simon, Effects of Support and Ligand on the Photoluminescence Properties of Siliceous Grafted Europium Complexes, J. Phys. Chem. C 113 (2009) 5784-5791.
160. B. Cojocaru, Ș. Neațu, V.I. Pârvulescu, K. Dumbuya, H.-P. Steinrück, J.M. Gottfried, C. Aprile, H. Garcia, J.C. Scaiano, Band gap effect on the photocatalytic activity of supramolecular structures obtained by entrapping photosensitizers in different inorganic supports, Phys. Chem. Chem. Phys., 11 (2009) 5569-5577.
161. C. Tiseanu, M.U. Kumke, V.I. Parvulescu, J. Martens, Species-related luminescence-structure relationships in europium-exchanged mesoporous material, J. Appl. Phys. 105 (2009) 063521/1-063521/8.
162. M. Alifanti, G. Bueno, V. Parvulescu, V.I. Parvulescu, V. Cortes Corberan, Oxidation of ethane on high specific surface SmCoO<sub>3</sub> and PrCoO<sub>3</sub> perovskites, Catal. Today 143 (2009) 309–314.
163. B. Cojocaru, S. Neatu, V.I. Parvulescu, V. Somoghi, N. Petrea, G. Epure, M. Alvaro, H. Garcia, Synergism of activated carbon and undoped and N-doped TiO<sub>2</sub> in the photocatalytic degradation of chemical warfare soman, VX and yperite, ChemSusChem 2 (2009) 427-436.
164. N. Candu, S. Coman, V.I. Parvulescu, J. Haskouri, P. Amoros, D. Beltran, Metal Triflates Incorporated in Mesoporous Catalysts for Green Synthesis of Fine Chemicals, Top. Catal. 52 (2009) 571-578.
165. V.I. Parvulescu, S.M. Coman, N. Candu, J. El Haskouri, D. Beltran, P. Amoros, Synthesis, characterization and catalytic behavior of SnTf/MCM-41 and SnTf/UVM-7 as new green catalysts for etherification reactions, J. Mater. Sci. 44 (2009):6693–6700.
166. F. Neatu, S. Coman, V.I. Parvulescu, G. Poncelet, D. De Vos, P. Jacobs, Heterogeneous Catalytic Transformation of Citronellal to Menthol in a Single Step on Ir-Beta Zeolite Catalysts, Top. Catal. 52 (2009) 1292-1300.
167. A. Ion, V.I. Parvulescu, P. Jacobs, D. de Vos, Sc and Zn-catalyzed synthesis of cyclic carbonates from CO<sub>2</sub> and epoxides, Appl. Catal., A: General (2009), 363(1-2), 40-44.
168. S. Neatu, V.I. Parvulescu, G. Epure, N. Petrea, V. Somoghi, G. Ricchiardi, S. Bordiga, A. Zecchina, M/TiO<sub>2</sub>/SiO<sub>2</sub> (M = Fe, Mn, and V) catalysts in photo-decomposition of sulfur mustard Appl. Catal. B: Environ. 91 (2009) 546–553.

169. J. Hren, F. Pozgan, A. Bunic, V.I. Parvulescu, S. Polanc, M. Kocevar, An expeditious synthesis of b-pyrimidyl-a,b-didehydro-a-amino acid derivatives and pyrano[2,3-d]pyrimidines using microwave-assisted conditions, Tetrahedron 65 (2009) 8216–8221.
170. F. Neatu, P.Y. Toullec, V. Michelet, V.I. Parvulescu, Heterogeneous Au and Rh catalysts for cycloisomerization reactions of  $\gamma$ -acetylenic carboxylic acids, Pure & Appl. Chem. 81 (2009) 2387-2396.
171. N. Candu, S.M. Coman, V.I. Parvulescu, J. El Haskouri, P. Amoros, D. Beltran, Synthesis, characterization and catalytic behavior of AlTf/UVM-7 as new green catalysts for the glycols etherification reactions, Appl. Catal. A: General 372 (2010) 58–66.
172. S.M. Coman, V.I. Parvulescu, S. Wuttke, E. Kemnitz, Synthesis of Vitamin K1 and K1-Chromanol by Friedel–Crafts Alkylation in Heterogeneous Catalysis, ChemCatChem 2 (2010) 92–97.
173. C. Tiseanu, V.I. Parvulescu, B. Cojocaru, V.A. Lorenz-Fonfria, M. Kumke, A. Gessner, I. Enculescu, Polymer-microporous host interactions probed by photoluminescence spectroscopy, Phys.Chem.Chem.Phys. 12 (2010) 3031-3037.
174. C. Tiseanu, V.I. Parvulescu, C. Paun, S. Dobroiu, Optical properties of Nd<sup>3+</sup> doped ionic liquid immobilized on mesoporous silica support, J. Nanosci. Nanotechnol. 10 (2010) 2921-2925.
175. V.I. Pârvescu, B. Cojocaru, V. Pârvescu, R. Richards, Z. Li, C. Cadigan, P. Granger, P. Miquel, C. Hardacre, Sol–gel-entrapped nano silver catalysts-correlation between active silver species and catalytic behavior, J. Catal. 272 (2010) 92–100.
176. S. Neatu, B. Cojocaru, V.I. Parvulescu, V. Somoghi, M. Alvaro, H. Garcia, Visible-light C-heteroatom bond cleavage and detoxification of chemical warfare agents using titania-supported gold nanoparticles as photocatalyst, J. Mat. Chem. 20 (2010) 4050-4054.
177. M. Magureanu, D. Piroi, N.B. Mandache, V. David, A. Medvedovici, V.I. Parvulescu, Degradation of pharmaceutical compound pentoxifylline in water by non-thermal plasma treatment, Water Res. 44 (2010) 3445-3453.
178. M. Verziu, J. El Haskouri, D. Beltran, P. Amoros, D. Macovei, N.G. Gheorghe, C.M. Teodorescu, S.M. Coman, V.I. Parvulescu, Mesoporous Tin-Triflate Based Catalysts for Transesterification of Sunflower Oil, Top. Catal. 53 (2010) 763-772.
179. N. Candu, M. Musteata, S.M. Coman, V.I. Parvulescu, J. El Haskourib, P. Amoros, D. Beltran, Chem. Eng. J. 161 (2010) 363–370.
180. M. Alvaro, B. Cojocaru, A.A. Ismail, N. Petrea, B. Ferrer, F.A. Harraz, V.I. Parvulescu, H. Garcia, Visible-light photocatalytic activity of gold nanoparticles supported on template-synthesized mesoporous titania for the decontamination of the chemical warfare agent Soman, Appl. Catal. B: Environ. 99 (2010) 191–197.
181. C. Tiseanu, V.I. Parvulescu, V. Parvulescu, E. Cotoi, A. Gessner, M. Kumke, S. Simon, F. Vasiliu, J. Photochem. Photobiol. A: Chem. 215 (2010) 17-2.
182. B. Cojocaru, C. Tiseanu V.I. Parvulescu, Photoluminescence properties of terbium complexes bound to amorphous silica, J. Non- Cryst. Solids 356 (2010) 1854-1858.
183. A. Negoii, S. Wuttke, E. Kemnitz, D. Macovei, V.I. Parvulescu, C. M. Teodorescu, S.M. Coman, One-Pot Synthesis of Menthol Catalyzed by a Highly Diastereoselective Au/MgF<sub>2</sub> Catalyst, Angew. Chem. Int. Ed. 49 (2010) 8134 –8138.
184. F. Neațu, L. Proteșescu, M. Florea, V.I. Pârvescu, C.M. Teodorescu, N. Apostol, P.Y. Toullec, V. Michelet, Novel Pd heterogeneous catalysts for cycloisomerisation of acetylenic carboxylic acids, Green Chem. 12 (2010) 2145-2149.

185. N. Candu, S. Wuttke, E. Kemnitz, S.M. Coman, V.I. Parvulescu, Friedel–Crafts alkylations on nanoscopic inorganic fluorides, *Appl. Catal. A: General* **391** (2011) 169–174.
186. N. Candu, M. Florea, S.M. Coman, V.I. Parvulescu, Benzylolation of benzene with benzyl alcohol on zeolite catalysts, *Appl. Catal. A: General* **393** (2011) 206–214.
187. L. Protesescu, M. Tudorache, S. Neatu, M.N. Grecu, E. Kemnitz, P. Filip, V.I. Parvulescu, S.M. Coman, Unusual Behavior of a Novel Heterogeneous Chiral Dimer Cr(III)-Salen Complex in the Epoxidation/Epoxide Ring-Opening Reaction of trans-Methylcinnamate Ester, *J. Phys. Chem. C* **115** (2011) 1112–1122.
188. V.I. Parvulescu, V. Parvulescu, D. Ciuparu, C. Hardacre, H. Garcia, High-surface thermally stable mesoporous gallium phosphates constituted by nanoparticles as primary building blocks, *J. Catal.* **278** (2011) 111–122.
189. D.S. Gopala, R.R. Bhattacharjee, R. Haerr, B. Yeginoglu, O.D. Pavel, B. Cojocaru, V.I. Parvulescu, R.M. Richards, Synthesis and Characterization of Titanium Dioxide Phases in Mesostructured Silica Matrices with Photocatalytic Activity, *ChemCatChem* **3** (2011) 408–416.