

## **Lista de publicatii**

### **Prof. Simona Margareta COMAN**

#### **A) Brevete**

1. Kemnitz, E., Coman S. M., Rüdiger S., Wuttke, S (2007): Method for the synthesis of *dl*-[ $\alpha$ ]-tocopherol and means therefore, Eur. Pat. Appl, EP 07 020 498.7

#### **B) Carti**

1. Parvulescu, V. I, Coman, S., Parvulescu, V. (1996): Asymmetric Catalysis. University of Bucharest Ed., ISBN: 973-575-057-0, 150 pp.
2. Coman, S. M., Parvulescu, V. I. (2010): Cataliza acido-bazica, Romanian Academy Ed, ISBN: 978-973-27-1904-6, 349 pp

#### **C) Capitole de carti**

1. Coman, S. M., Poncelet, G. and Parvulescu, V. I. (2006): Chapter 14: Asymmetric catalysis by heterogeneous catalysts, In: Surface and nanomolecular catalysis, Ed. Richards, R. M., CRC PRESS-TAYLOR and Francis Group, Bocaraton, Florida, USA, ISBN: 1574444816, pages: 493-533
2. Coman, S. M., Parvulescu, V. I. (2013): Chapter 4: Heterogeneous catalysis for biodiesel production, In: The Role of Catalysis for the Sustainable Production of Bio-fuels and Bio-chemicals, Kostas Triantafyllidis, Angelos Lappas, M. Stöcker (Eds.), Elsevier Ltd., Oxford, UK, ISBN: 978-0-444-56330-9, pages: 93-136
3. Coman, S. M., Tudorache, M., Parvulescu, V. I. (2013): Chapter 4: Green catalysis methods - Catalysis for lignocellulosic biomass capitalization into chemicals, In: 'An introduction to green chemistry methods', Rafael Luque & Juan Carlos Colmenares (Eds.), Future Science Ltd, London, UK, doi: 10.4155/9781909453104, eISBN (PDF): 978-1-909453-10-4, pages: 54-68
4. Tudorache, M., Coman, S. M., Parvulescu, V. I. (2014): Section II: Biofuels from Biomass Valorization Using Nanomaterials, Chapter 7: Nano-heterogeneous design of biocatalysts for biomass valorisation, in: „Producing Fuels and Fine Chemicals from Biomass using Nanomaterials”, Rafael Luque and Alina Mariana Balu (Eds.), CRC Press, Taylor & Francis Group, eISBN (PDF): 978-1-4665-5340-8, pages: 163-181
5. Tudorache, M., Coman, S., Parvulescu, V. I. (2015): Chapter 9: Catalytic metal-/ bio-composites regarding as new opportunities for fine chemical derived from biomass, in: "Advanced Catalytic Materials", A. Tiwari and S. Titinchi (Eds.), WILEY-Schrivener Publishing, USA, ISBN: 978-1-118-99828-1, pages: 315-353
6. Kemnitz, E., Coman, S. M. (2016): Chapter 6: Nanoscaled Metal Fluorides in Heterogeneous Catalysis, in: “New materials for catalytic applications”, V.

- Parvulescu and E. Kemnitz (Eds.), Elsevier Ltd., Oxford, UK, ISBN 9780444635877, pages: 133-191
7. Coman, S. M., Parvulescu, V. I. (2017): Chapter: Core-Magnetic Composites for Catalytic Applications, In: Nanotechnology in Catalysis. Applications in the Chemical Industry, Energy Research, and Environmental Protection, Vol 2, Preparation and characterization of nanocatalysts, B. F. Sels, M. Van de Voorde (Eds.), 2017 Wiley-VCH Verlag GmbH & Co. KGaA. ISBN: 978-3-527-33914-3, pages: 145 - 178

#### D) Articole publicate

##### D1) Indexate BDI

1. Szabo, A., Coman, S. and Gutui, M. (1994): The electrical conductivity of the Fe-Zn-O catalytic system. *Progress in Catalysis*, 3, 41-54
2. Iosif, F. and Coman, S. (2004): One step synthesis of menthol from citronellal on Ir-beta catalysts. *Progress in Catalysis*, 13, 53-60
3. Parvulescu, V., Coman, S., Grange, P. and Parvulescu, V. I. (1997): Mixed  $M_2O_3.ZrO_2-SO_4^{2-}$  ( $M=Ga, In, Tl$ ) Catalysts: Preparation, Characterisation and Catalytic Behaviour in Dehydroisomerisation of n-Hexane. *Catalytic Activation and Functionalisation of Light Alkanes. Advances and Challenges*, Eds. Derouane, E.G., Haber, J., Lemos, F., Ramoa-Ribeiro, F. and Guisnet, M. (Kluwer Academic Publishers, 3.High Technology, Amsterdam), 44, 417-421 (Proceedings paper)
4. Coman, S., Bendic, C., Hillebrand, M., Angelescu, E., Parvulescu, V. I., Petride, A. and Banciu, M. (1998): Diastereoselective hydrogenation of cyclic beta-ketoesters over modified Ru/zeolite catalysts. *Catalysis of Organic Reactions*, Ed. Herkes, F. (Marcel Decker, New York), 75, 169-181 (Proceedings paper)
5. Coman, S., Angelescu, E., Petride, A., Banciu, M. and Parvulescu, V. I. (2001): Enantioselective catalytic hydrogenation of (6: 7,8: 9)-Dibenzobicyclo[3, 2, 2]nona-6, 8-dien-2-one on Ru-containing zeolites. *Catalysis of Organic Reactions*, Ed. Ford, M. E. (Marcel Decker, New York), 483-488
6. Coman, S. M. (2005): Ru/BEA catalysts for selective and stereoselective hydrogenation of prostaglandin intermediates. *Analele Universitatii din Bucuresti - Chimie*, 1-2, 33-40
7. Coman, Simona; Delsarte, Stephanie; Grange, Paul (2005): Green catalytic synthesis of amide esters in the presence of triflates-based catalysts, *Progress in Catalysis*, 14, 21-28
8. Coman, S. M., Stere, C., El Haskouri, J., Beltrán, D., Amorós, P., Parvulescu, V. I., (2009): “Green” acylation of aromatic sulfonamides in heterogeneous catalysis, in “Catalysis of Organic Reactions: Twenty-second Conference”, Michael L. Prunier (Ed), CRC Press, Taylor & Francis Group, pp. 425
9. Negoi, A., Zala, L., Clark, J. H., Luque, R., Coman, S. M., Parvulescu, V. I. (2012): “Efficiently Starbons (R) based catalysts for biomass valorisation “, in ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY , Conference: 244th













79. N. Candu, F. Anita, I. Podolean, B. Cojocaru, V. I. Parvulescu, S. M. Coman (2017): Direct conversion of cellulose to  $\alpha$ -hydroxy acids (AHAs) over Nb<sub>2</sub>O<sub>5</sub>-SiO<sub>2</sub> coated magnetic nanoparticles, *Green Processing and Synthesis*, 6, 255-264
80. M. Verziu, M. Serano, B. Jurca, V. I. Parvulescu, S. M. Coman, G. Scholz, E. Kemnitz (2017): Catalytic features of Nb-doped nanoscopic inorganic fluorides for an efficient one-pot conversion of cellulose to lactic acid, *Catal. Today*, <http://dx.doi.org/10.1016/j.cattod.2017.02.051>
81. Opris, C., Cojocaru, B., Apostol, N., Tudorache, M., Coman, S., Parvulescu, V., Duraki, B., Krumeich, F., van Bokhoven, J. (2017): Lignin fragmentation onto multifunctional Re@Co@Nb<sub>2</sub>O<sub>5</sub>@Fe<sub>3</sub>O<sub>4</sub> catalysts: the role of the composition and deposition route of rhenium, *ACS Catal.*, 7(5), 3257-3267
82. C. Rizescu, I. Podolean, J. Albero, V. I. Parvulescu, S. M. Coman, C. Bucur, M. Puche, H. Garcia (2017): N-doped graphene as metal-free catalyst for glucose oxidation to succinic acid, *Green Chem.*, 19, 1999-2005
83. C. Rizescu, I. Podolean, B. Cojocaru, V. I. Parvulescu, S. M. Coman, J. Albero, H. Garcia (2017): RuCl<sub>3</sub> supported on N-doped graphene as reusable catalyst for one-step glucose oxidation to succinic acid, *ChemCatChem*, 9(17), 3314-3321
84. P.A.Lazaridis, S.A.Karakoulia, C. Teodorescu, N. Apostol, D. Macovei, A. Panteli, A. Delimitis, S.M. Coman, V.I. Parvulescu, K.S.Triantafyllidis (2017): High hexitols selectivity in cellulose hydrolytic hydrogenation over platinum (Pt) vs. Ruthenium (Ru) catalysts supported on micro/mesoporous carbon, *Appl. Catal. B: Environmental*, 214, 1-14
85. N. Candu, D. Paul, I.-C. Marcu, M. Tudorache, V. I. Parvulescu, S. M. Coman (2017): New organic-inorganic LDH composites: synthesis, characterization and catalytic behavior in the green epoxidation of  $\alpha$ ,  $\beta$ -unsaturated esters, *Inorganica Chimica Acta*, doi.org/10.1016/j.ica.2017.07.027
86. S. M. Coman, I. Podolean, M. Tudorache, B. Cojocaru, V. I. Parvulescu, H. Garcia (2017): Graphene oxide as catalyst for the diastereoselective transfer hydrogenation of unsaturated ketones to secondary allylic alcohols, *ChemComm.*, 53, 10271-10274