

Curriculum Vitae

Ass. Prof. Ing. Štolcová Magdaléna, PhD.

E-mail: magdalena.stolcova@stuba.sk

Personal Information

Date of Birth: 1.6.1954

Place of Birth: Bratislava, Slovak Republic

Citizenship: Slovak Republic

Gender: female

Marital Status: widow

Children: two

Employment History

Work History

From 2004 – up to now

Associate professor in the field of Organic Technology and Fuel Technology, Institute of Organic Chemistry, Catalysis and Petrochemistry, Faculty of Chemical and Food Technology STU Bratislava

2001 – 2004

Senior Scientist (Grade II) at the Department of Organic Technology, FCHPT, STU, Bratislava

1992 – 2001

Researcher at the Department of Organic Technology, FCHPT, STU, Bratislava

1989 – 1991

Chief technologist in the Plant for the production of rubber chemicals, oil additives and products for plant protection products, Istrochem, Bratislava, SR

1985 – 1989

Technologist for rubber chemicals and additives in oils, Istrochem, Bratislava, SR

Academic Positions

Educator for the position of associate professor,

Guarantor of the course, lectures in the field, conducting seminars, labs and specialized laboratory practice, management of theses and bachelor projects, scientific and research activities in the field of organic catalysis and technology, participation at conferences, publications

Name and address of employer

Institute of Organic Chemistry, Catalysis and Petrochemicals, Faculty of Chemical and Food Technology STU Bratislava, Radlinského 9, 81237 Bratislava, Slovak Republic

Education

2004

Associate professor in the field of Organic Technology and Fuel Technology, Institute of Organic Chemistry, Catalysis and Petrochemistry, Faculty of Chemical and Food Technology STU Bratislava

2001

Researcher (level II), Slovak Academy of Science, Bratislava

Organisational skills and competences

I lead: PhD (3), Semester projects for Bachelor (34) Thesis (31), ŠVOČ (17)

Vice-President / Chairman of the Commission for state exams the first stage of university studies member of the Commission for state exams 2nd cycle degree programs and doctoral exam

Occupational skills and competence

Study of complex technological processes in the batch and flow reactor systems operating in the gas and the liquid phase, the mechanism of chemical reactions, preparation, evaluation, and characterization of organic and inorganic compounds - measurement and an evaluation of the ATR FT IR and DR UV-Vis spectrophotometry, determination of compounds by high performance liquid chromatography and gas chromatography, the evaluation of phase composition of crystalline materials, including the particle size from the XRD spectra, evaluation of the results from electron microscopes.

Computer skills and competences

Computer skills in Microsoft Office (Word, Excel, PowerPoint, CorelDraw), Origin, IsisDraw, in Web search, scientific databases (ScienceDirect, Scopus).

Additional information

Author of over 120 scientific and professional publications, 9 patents and copyright certificates, more than 290 SCI citations. Co-investigator or more than 80 research projects awarded by the Ministry of Education, foreign and domestic chemical companies participate or lead to 6 projects VEGA, VEGA 2 projects, 1 international EU project.

Annex

The ten most important publications in last five years:

1. Stanislav Vajíček; Magdalena Štolcová; Alexander Kaszonyi; Matej Mičušík; Pavol Alexy; Patrizia Canton; György Onyestyák; Szabolcs Harnos; Ferenc Lonyi; Jozsef Valyon, Gel-type ion exchange resin stabilized Pd-Bi nanoparticles for the glycerol oxidation in liquid phase, Journal of Industrial and Engineering Chemistry, 39 (2016) 77–86.
2. A.C. Badari, Sz. Harnos, F. Lónyi, Gy. Onyestyák, M. Štolcová, A. Kaszonyi, J. Valyon, A study of the selective catalytic hydroconversion of biomass-derived pyrolysis or fermentation liquids using propylamine and acetic acid as model reactants, Catalysis Communications 58 (2015) 1–5. Cited 1 times

3. Tatchanok Prapasawat, Milan Hronec, Magdaléna Štolcová, Anchaleeporn Waritswat Lothongkum, Ura Pancharoen, Suphot Phatanasri, Thermodynamic models for determination of the solubility of 2,5-bis(2-furylmethylidene)cyclopentan-1-one in different solvents at temperatures ranging from 308.15 to 403.15 K, *Fluid Phase Equilibria* 367 (2014) 57–62. Cited 11 times
4. Milan Hronec, Katarína Fulajtárova, Tibor Liptaj, Magdaléna Štolcová, Nad'a Prónayová, Tomáš Soták, Cyclopentanone: A raw material for production of C15 and C17 fuel precursors *Biomass and Bioenergy* 63 (2014) 291–299. Cited 12 times
5. Suren, S., Sunsandee, N., Stolcova, M., Hronec, M., Leepipatpiboon, N., Pancharoen, U., Kheawhom, S., Measurement on the solubility of adipic acid in various solvents at high temperature and its thermodynamics parameters, *Fluid Phase Equilibria* 360 (2013) 332 – 337. Cited 9 times
6. Onyestyák, G., Harnos, S., Klébert, S., Štolcová, M., Kaszonyi, A., Kalló, D., Selective reduction of acetic acid to ethanol over novel Cu 2In/Al₂O₃ catalyst, *Applied Catalysis A: General* 464-465 (2013) 313 – 321. Cited 9 times
7. Sunsandee, N., Hronec, M., Štolcová, M., Leepipatpiboon, N., Pancharoen, U., Thermodynamics of the solubility of 4-acetylbenzoic acid in different solvents from 303.15 to 473.15 K, (2013) *Journal of Molecular Liquids* 180 PP. 252 - 259 Cited 38 times.
8. Harnos, S., Onyestyák, G., Barthos, R., Štolcová, M., Kaszonyi, A., Valyon, J. Novel Cu and Cu 2In/aluminosilicate type catalysts for the reduction of biomass-derived volatile fatty acids to alcohols, *Central European Journal of Chemistry* 10 (2012) 1954 - 1962 Cited 6 times.
9. Onyestyák, G., Harnos, S., Kaszonyi, A., Štolcová, M., Kalló, D. , Acetic acid hydroconversion to ethanol over novel InNi/Al₂O₃ catalysts, *Catalysis Communications* 27 (2012) 159 – 163. Cited 12 times.
10. Róbert Polnišer, Magdaléna Štolcová, Milan Hronec, Milan Mikula, Structure and reactivity of copper iron pyrophosphate catalysts for selective oxidation of methane methane to formaldehyde and methanol, *Appl. Catal. A: Gen.* 400 (2011) 122-130. Cited 15 times

Doc. Ing. Magdaléna Štolcová, PhD.