

**MARIJA KAŠTELAN-MACAN**, Scientific Personal Identification Number: 20421

**Date and place of birth:** May 23, 1939, Dubrovnik, Croatia

**Affiliation:** University of Zagreb, Faculty of Chemical Engineering and Technology

**Status:** Professor emeritus

**Research fields:** Analytical separation technics; development and optimization of chromatographic systems and their application to environmental analysis.

**Academic background:**

- PhD in Chemistry, University of Zagreb, Faculty of Technology (1972.)
- MSc in Chemistry, University of Zagreb, Faculty of Technology (1968.)
- Degree in Chemical Engineering, University of Zagreb, Faculty of Technology, (1962.)

**Professional experience:**

- Professor emeritus (since 2008.), Faculty of Chemical Engineering and Technology
- Full Professor (1987.- 2007.)-present), Faculty of Chemical Engineering and Technology
- Associate Professor ((1982-1987.), Faculty of Technology
- Assistant Professor (1977-1982), Faculty of Technology
- Znanstvena suradnica (1975.-1977.), Faculty of Technology
- Assistant (1963-1975, Faculty of Technology

**Projects:**

National projects (project manager):

2015-2019 Fate of pharmaceuticals in the environment and during advanced wastewater treatment (PharmaFate), project participant

2007.-2014. Croatian terminology in analytical chemistry, Croatian Ministry of Science

2009.-2010. Building of Croatian chemical terminology, STRUNA, Croatian Science Foundation

2002.-2007. Chemometric optimization and evaluation of separation parameters, Croatian Ministry of Science

2002.-2004. Quality improvement of pharmaceutical preparations, Croatian Ministry of Science

1991.-1996. Achievement of optimal chromatographic resolution, Croatian Ministry of Science

1987.-1991. Phase interphase phenomena as the basis of advanced separation processes, Croatian Ministry of Science

International projects:

2004.-2007. Reduction of environment and health risks posed by emerging contaminants, through advanced treatment of municipal and industrial wastes, FP6 (project co-manager)

2007.-2010. Reduction of environmental risks posed by pharmaceuticals and their degradation products in process wastewaters through RO/NF membrane treatment, Unity through knowledge Fund, project manager

**Publications**

**HIRSCH INDEX:** 13 (Scopus, July 2015)

**Times cited:** 821 (Scopus, July 2015)

**CC papers:** 65

**Book chapters:** 19

**3 the most important publications in respectable peer reviewed scientific journals:**

1. D. Ašperger, V. Tišler, M. Zrnčić, D. Mutavdžić Pavlović, S. Babić, A.J.M. Horvat, M. Kaštelan-Macan, HPLC–DAD–FLD Determination of Veterinary Pharmaceuticals in Pharmaceutical Industry Wastewater with Precolumn Derivatization Using Fluorescamine, *Chromatographia*, **77**(2014)1059-1066. IF(2012)=1.370
2. M. Petrović, M. Kaštelan-Macan, A.J.M. Horvat, Thin-layer Chromatographic Behavior of Substituted Phenolic-compound on Silika-gel layers Impregnated with Al(III) and Cu(II), *Journal of Chromatography A*, **607**(1992) 163-167. IF(2002)=3.098
3. S. Turina, M. Trbojević, M. Kaštelan-Macan, Determination of Optimal Solvent Composition in Thin Layer Chromatography by Means of Numerical Analysis, *Analytical Chemistry*, **46**(1974)988-991. IF(2002)=5.094