

## 1. Personal information:

**Name and surname:** Neamtu Mariana

**Date and place of birth:** 18.11.1970, Strășeni, Republica Moldova

**Present academic position:** Senior Scientific Researcher I (Interdisciplinary Research Department, „Alexandru Ioan Cuza” University, Iași, Romania)

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## 2. Education:

1993 – 1997 – PhD Studies, “Gheorghe Asachi” Technical University of Iași

1988 – 1993 – Bachelor Studies, Faculty of Chemistry, State University of Republic of Moldova

## 3. Selected, peer-reviewed research work:

1. Nadejde C., Neamtu M., Hodoroaba V.-D., Schneider R.J., Ababei G., Panne U. (2016). Hybrid iron-based core-shell magnetic catalysts for fast degradation of bisphenol A in aqueous systems, *Chemical Engineering Journal*, 302, 587-594.
2. Neamtu M., Macaev F., Boldescu V., Hodoroaba V.-D., Nadejde C., Schneider R. J., Paul A., Ababei G., Panne U., (2016). Removal of pollutants by the new Fenton-like highly active catalysts containing an imidazolium salt and a Schiff base, *Applied Catalysis B: Environmental*, 183, 335-342.
3. Nadejde C., Neamtu M., Hodoroaba V.-D., Schneider R.J., Paul A., Ababei G., Panne U. (2015). Green Fenton-like magnetic nanocatalysts: synthesis, characterization and catalytic application, *Applied Catalysis B: Environmental*, 176, 667–677
4. Neamtu M., Grandjean D., Sienkiewicz A., Le Faucheur S., Slaveykova V., Velez Colmenares J., Pulgarín C., De Alencastro F. L. (2014). Degradation pathways of eight relevant micropollutants in different water matrices under exposure to UV<sub>254</sub>, simulated solar light irradiation and neutral photo-Fenton process – a comparative study, *Applied Catalysis B: Environmental*, 158-159, 30-37
5. Neamtu M., Ciumasu I. M., Costica N., Costica M., Bobu M., Nicoara M. N., Catrinescu C., Becker van Slooten K., De Alencastro L. F. (2009) Chemical, biological and ecotoxicological assessment of pesticides and persistent organic pollutants in Bahlui River, Romania, *Environmental Science and Pollution Research*, 16, S76-S85
6. Tercero Espinoza, L.A., Neamtu M., Frimmel F. H. (2007) The effect of nitrate, Fe(III) and bicarbonate on the degradation of bisphenol A by simulated solar UV-irradiation, *Water Research*, 41, 4479-4487
7. Neamtu M., Frimmel F. H. (2006) Degradation of endocrine disrupting Bisphenol A by 254 nm irradiation in different water matrices and effect on yeast cells, *Water Research*, 40, 3745-3750

8. Neamtu M., Catrinescu C., Kettrup A. (2004) Effect of dealumination of iron (III) - exchanged  $\gamma$  zeolites on oxidation of reactive yellow 84 azo dye in the presence of hydrogen peroxide, *Applied Catalysis: Environmental*, 51, 149-157.
9. Neamtu, M., Siminiceanu I., Yediler A., Kettrup A., (2002) Kinetics of decolorization and mineralization of reactive azo dyes in aqueous solution by UV/H<sub>2</sub>O<sub>2</sub> oxidation, *Dyes and Pigments*, 53, 93-99.
10. Neamtu, M., Siminiceanu I., Kettrup A., (2000) Kinetics of Nitromusk Compounds degradation in Water by Ultraviolet Radiation and Hydrogen Peroxide, *Chemosphere*, 40(12), 1407-1410

4. **Research interests:**

Organic chemicals in the environment, advances oxidation processes, chromatography, photochemistry, monitoring of hazardous chemicals.