

**Tentative Outline**  
**Special Issue for Current Organic Chemistry**  
*Guest Editor(s): Maria Włodarczyk-Makula*

**TITLE: Transformation of Persistent Organic Pollutions in  
the Environment**

**Aims & Scope:**

In the Thematic Issue “**Transformation of POPs in the environment**” the selected organic micropollutants listed by Stockholm convention as well as micropollutants listed in some other international and national law legislations will be described. There will also be characterized some other organic micropollutants that are not listed in current legislations but they cause hazard for health and people life due to their estrogenic biological activity, carcinogenic, mutagenic or teratogenic activity. The organic micropollutants include: polychlorinated dibenzodioxins PCDD, polychlorinated dibenzofurans PCDF, polychlorinated biphenyls PCBs, selected insecticides and pesticides, polycyclic aromatic hydrocarbons (PAHs), halogenated compounds (determination as AOX) and by-products of water treatment, di-2-ethylcyclophthalans DEHP, nonylphenols NPE and ethoxylated of nonylphenols compounds NPEO and some surfactants, such as linear alkylo benzosulphonans LAS. Moreover, the current topic is the presence in the environment emerging organic contaminants as well as biologically active substances so called as endocrine disrupting compounds such as: pharmaceuticals and cosmetics remains and bactericidal compounds (personal care products PCP), flame retardants Frs and preservatives and impregnates.

**Key words:** PCDD/PCDF, PAHs, PCBs, AOX, EDC

**Subtopics:**

- Sources of the afore mentioned micropollutants in water and soil environment
- Properties and their persistence as well as their influence on organisms indicators
- Current regulations concerning the presence of described micropollutants in water and soil environment
- Methodology of determination of the micropollutants
- Possibilities of removal of organic micropollutants in physical-chemical processes (the advanced oxidation, photodegradation, sorption as well as membrane methods together with their technological connections)
- Biodegradation of POPs (fates, degradation pathways, derivatives products of decomposition and metabolites)
- Information of the occurrence of organic micropollutants in surface and ground waters, sediments and soils.

**Approximate Schedule:**

- Manuscript Submission Deadline: June 2015 (extended July)
- Peer review Due: September 2015
- Revision Due: October 2015
- Notification of Acceptance by the Guest Editor: November 2015
- Final Manuscript Due: December 2015