

# Environmental Chemistry

## Topics for Individual Assignments

1. local and global changes of natural environment and climate
  - (a) impact of drought
  - (b) impact of severe rain events
2. anthropogenic impact on the environment
  - (a) Agricultural activities
  - (b) Industrial activities
3. water, air and soil pollution
  - a. river pollution
  - b. ozone pollution
  - c. industrial soils
  - d. agricultural soils
4. remediation and waste characterization
  - a. soil remediation
  - b. water treatment
  - c. waste valorization
5. environmental contaminants
  - a. metals and metalloids
  - b. other organic chemicals
6. chemical reactions and processes
  - a. water treatment
  - b. sludge treatment
7. chemical and biological transformations as well as physical transport of chemicals in the environment
  - a. Nitrogen: from fertilizers application till vegetables contamination with nitrate
  - b. Phosphorous: from soil application till water eutrophication