



Photocatalysis in Europe: Recent Advances and Future Prospects

Guest Editors:

Prof. Dr. Beata Tryba

Department of Catalytic and Sorbent Materials Engineering, Faculty of Chemical Technology and Engineering, West Pomeranian University of Technology in Szczecin, Pułaskiego 10, 70-322 Szczecin, Poland

Dr. Beata Zielińska

Nanomaterials Physicochemistry Department, Faculty of Chemical Technology and Engineering, West Pomeranian University of Technology, Szczecin Al. Piastow 45, 70-311 Szczecin, Poland

Deadline for manuscript submissions:

closed (31 December 2021)

Message from the Guest Editors

This Special Issue will be dedicated to new trends and achievements in research work focused on photocatalysis and photocatalytic materials. It will include design and preparation of new structural materials with unique properties, development of new techniques used for photocatalysts characterization, application, and possible commercialisation of the obtained results. Photocatalytic reactions in water, gas phase, as well as in the environment of the microorganisms will be considered, including also generation of hydrogen, selective synthesis of organics, and self-cleaning and photocatalytic surfaces. Construction of the reactors and application of different sources of lights will be discussed. The impact of the environmental conditions on the yield of the photocatalytic reactions and the comparison of the laboratory tests with their commercial application will be considered. Some comments on the application of existing ISO standards for the photocatalytic tests will be included.

