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Photoinduced Proton Transfer Processes Within Heterocyclic Structures

Guest Editors:

Dr. Julien Massue

Institut de Chimie et Procédés pour l'Energie, l'Environnement et la Santé (ICPEES), Groupe Chimie Organique pour les Matériaux, la Biologie et l'Optique (COMBO, UMR CNRS 7515, Ecole Européenne de Chimie, Polymères et Matériaux (ECPM), 25 Rue Becquerel, CEDEX 02, 67087 Strasbourg, France

Dr. Gilles Ulrich

Institut de Chimie et Procédés pour l'Energie, l'Environnement et la Santé (ICPEES), Groupe Chimie Organique pour les Matériaux, la Biologie et l'Optique (COMBO, UMR CNRS 7515, Ecole Européenne de Chimie, Polymères et Matériaux (ECPM), 25 Rue Becquerel, CEDEX 02, 67087 Strasbourg, France

Message from the Guest Editors

Photoinduced proton transfer processes important in nature and have been observed in many heterocyclic systems, such as in green fluorescent protein (GFP), isolated from the jellyfish Aeguorea Victoria. Over the years, a wide range of synthetic fluorophores have built upon this important elementary process to provide an important database of heterocyclic dyes displaying single. dual, or multiple photoinduced proton-transfer reactions, including excited-state proton transfer (ESPT), excitedstate intramolecular proton transfer (ESIPT), and protoncoupled electron transfer (PCET). Intense research has been devoted to the understanding and dynamics of these processes for fundamental knowledge but also to engineer innovative applications in the fields of sensing, data storage, security, and optoelectronics. Probes featuring proton(s) dynamics including tautomerism are now a major topic in a growing number of areas. This Special Issue targets scientific contributions (original research or reviews) at the crossroads of synthetic, analytical, physical, and theoretical chemistry.

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Specialsue









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Editor-in-Chief

Prof. Dr. Thomas J. Schmidt Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

Message from the Editor-in-Chief

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