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Photoresponsive Materials and Properties Performance Mechanism

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Deadline for manuscript submissions:
closed (31 July 2023)

Message from the Guest Editors

Dear Colleagues,

Linear or nonlinear photoresponsive organic chromophores or donor–acceptor conjugates may undergo intermolecular or intramolecular energy- or electron-transfer mechanisms leading to photonic or electronic transient states. The consequences of these activated energy and electron states in molecular or nanoparticle configurations may facilitate a wide range of application fields, spanning from multiphoton absorptions or light-tunable photonics, energy upconversion, photoinduced conductivity in optoelectronic fields, biological FRET fluorescence imaging and photodynamic agents, and photoactivated information storage to dielectric amplification at microwave frequencies. The underlying chemistry of these advanced phenomena observed on organic materials may be assisted by incorporation of core–shell nanoparticles in configuration or in molecular self-assembly format. This Special Issue on "Photoresponsive Materials and Properties Performance Mechanism" will place emphasis on recent new developments in these research fields.

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Message from the Editor-in-Chief

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