

Special Issue

Photodynamic Cancer Therapy: Organic Photosensitizers and Reactive Oxygen Species

Message from the Guest Editor

Dear colleagues,

The following topics are expected for this section:

- New generation of PSs to improve efficient photodynamic anti-tumor/cancer therapy;
- AIE PSs from the perspectives of anti-bacterial, anti-fungal and anti-viral aspects and anti-cancer;
- Two-dimensional carbon-based nanocarriers for drug delivery systems;
- Optoelectronic properties and quantum mechanics studies of photosensitive conjugated organic small molecules, efficient for solar cells;
- Molecular dynamics simulation of nanocarrier/multifunctional small molecules for the adsorption and co-loading of drugs from aqueous solutions for synergistic multi-therapy of cancer;
- COF-based nanomaterials in PDT and/or drug delivery systems and combinational therapy;
- COF-based photosensitizers efficient for nano-energy, nano-bio-energy, and solar bio-cells;
- Artificial intelligence systems for the above challenges.

The idea and contents were prepared by Dr. Marjan Rahimi. She is appointed as the coordinator of the special issue helping Doctor Abbas Amini in the tasks, e.g., contacting the fellows etc.

Guest Editor

Dr. Abbas Amini

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Deadline for manuscript submissions

closed (31 December 2023)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/176619

*International Journal of
Molecular Sciences*
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