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The Front Cover shows the polydopamine (PDA)-modified nano zerovalent iron (nZVI@PDA) offering high light-to-heat conversion and reactive oxygen species (ROS) generation efficiency under near-infrared irradiation, thus leading to a phototherapeutic effect against human breast cancer cells without side effects. The results also demonstrated that nZVI@PDA induced apoptosis in MCF-7 cells, suggesting that phototherapy induced by nZVI@PDA leads to irreversible damage of breast cancer cells. This study provides a facile method to develop an efficacious dual-modality nZVI@PDA for phototherapeutic treatment of breast cancer. More information can be found in the Full Paper by Chia-Hua Lin, Kun-Yi Andrew Lin et al.



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Dopamine-Modified Zero-Valent Iron Nanoparticles for Dual-Modality Photothermal and Photodynamic Breast Cancer Therapy

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