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Synthesis of New Zinc Phthalocyanine with Block Copolymers in Nanomedicine Applications

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Synthetic routes towards new conjugates of hydrophilic zinc phthalocyanine (ZnPc) with N-vinylpyrrolidone (NVP) and acrylic chloride (CIAC), are described. For this purpose, a copolymer of N-vinylpyrrolidone (NVP) with acrylic chloride (CIAC), according to the Friedel-Kravts method, was grafted to the benzene nucleus of zinc phthalocyanine (ZnPc). The paper contains the analysis of polymer analogs of NVP-CIAC-ZnPc with IR and UV-VIS spectroscopies.