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Surface functionalized  $SiO_2$  nanoparticles with cationic polymers via the combination of mussel inspired chemistry and surface initiated atom transfer radical polymerization: characterization and enhanced removal of organic dye

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## **ACCEPTED MANUSCRIPT**

Surface functionalized SiO<sub>2</sub> nanoparticles with cationic polymers via the combination of mussel inspired chemistry and surface initiatedatom transfer radical polymerization: characterization and enhanced removal of organic dye Qiang Huang<sup>a,#</sup>, Meiying Liu<sup>a,#</sup>, Liucheng Mao<sup>a</sup>, Dazhuang Xu<sup>a</sup>, Guangjian Zeng<sup>a</sup>, Hongye Huang<sup>a</sup>, Ruming Jiang<sup>a</sup>, Fengjie Deng<sup>a,\*</sup>, Xiaoyong Zhang<sup>a,\*</sup>, Yen Wei<sup>b,\*</sup>

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