**Cover letter**

Dear Editor,

Attached please find the manuscript with the kind request to consider it for publication in *Journal of the Serbian Chemical Society*.

The morphology of a semiconductor photocatalyst including shape and dimension has an important effect on its photocatalytic performance. Zinc ferrite (ZnFe2O4) has been regarded as an emerging semiconductor photocatalyst for the degradation of various organics and dyes in the past decade, due to its appropriate band gap (~1.9 eV), photochemical stability and low cost. Different morphologies can endow ZnFe2O4 with different particle dimensions and surface areas, which probably have significant influence on its photocatalytic efficiency. However, to date, the scientific reports on this research are scarcely published.

Here, we synthesized ZnFe2O4 photocatalyst with needle-, cube-, granule- and plate-like morphology to explore the nature of its morphology-dependent photocatalytic efficiency. ZnFe2O4 with different morphologies had different crystalline sizes and surface areas. The photocatalytic efficiency of ZnFe2O4 with different morphologies was evaluated using high-concentration Methyl Orange as the target. We found that the morphology-dependent photocatalytic efficiency of ZnFe2O4 was closely related with its crystalline size and surface area. The smaller the crystalline size was, the larger the surface area was, and the higher the photocatalytic efficiency was. We think that this manuscript would be appropriate for publication in *Journal of the Serbian Chemical Society*.

The highlights of this study are listed as follows:

* ZnFe2O4 with needle-, cube-, granule- and plate-like morphology was synthesized;
* ZnFe2O4 with different morphologies had different crystalline sizes and surface areas;
* The photocatalytic efficiency of ZnFe2O4 with different morphologies was evaluated;
* The photocatalytic efficiency was closely related with the crystalline size and surface area

Importantly, all authors solemnly claim that none of the material in this manuscript has been published or is under consideration for publication elsewhere in any form. All authors have no actual or potential conflict of interest including any financial, personal or other relationships with other people or organizations.

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Thank you so much.

Best regards,

Huan-Yan Xu