

Dear Editor,

Manuscript entitled “ZnO/CdO/ reduced graphene oxide and its high catalytic performance towards degradation of the organic pollutants”

Thank you very much for your recommendations. All corrections are highlighted with red color in manuscript.

Reviewer 1:

Please have the text proofed by a native English speaker

The manuscript corrected by native English speaker. All correction are red color.

Reviewer 2:

The advantage of this nanocomposite usage over other catalyst is not clear. A comparison with other studies to explain the possible novelty of this route would add to the importance of the publication. The authors need to add a new table to compare their results with published articles.

In order to justify the superior activity of ZnO/CdO/reduced graphene oxide, the present study is compared with some of other literatures for degradation of MO, RhB and MEF. The results is depicted in Table II. It is worth noting that few studies have focused on the degradation of more than three pollutants using semiconductor oxide nanoparticles and graphene during sonocatalytic reaction. In our case, four organic pollutants were removed efficiently using "ZnO/CdO/reduced graphene oxide" in the degradation.

TABLE II. Comparison of sonocatalytic performances of ZnO/CdO/reduced graphene oxide and some of other catalysts for removal of MEF, RhB, MO and 4-NA.

Entry	Catalyst	Degradation route	Different pollutants (% Degradation)	Reaction time (min)	Ref
1	ZnO-graphene	Visible light irradiation	MO (87)	180	44
2	Supported CuO-ZnO	Hg lamp(55W)	MEF (67)	200	45
3	Activated carbon	UV irradiation+ ozone	MEF (60)	120	46
4	SnO ₂ -reduced graphene oxide	Visible light irradiation	RhB (79)	175	47
5	H ₃ P ₁₂ W ₄₀ /TiO ₂	UV irradiation (250W)	4-NA (95)	120	48
6	TiO ₂ -coated censpheres	Solar light irradiation	4-NA (63)	180	49
7	α - Fe ₂ O ₃	Xenon arc lamp(300W)	RhB (79)	140	50
8	Nickel hydroxide	Different speed of agitation (300-500 rpm)	MO (80)	120	51
9	ZnO/CdO/reduced graphene oxide	Ultrasonic irradiation	MO(84), RhB(80), 4-NA(95) and MEF(93)	120	This work

Page 18-19 also was added the advantages of ZnO/CdO/ reduced graphene oxide;

The significantly enhanced sonocatalytic efficiency of ZnO/CdO/reduced graphene oxide rather than ZnO/CdO nanoparticles and rGO (in the absence of ZnO/CdO nanoparticles), is attributed to the triple function of the ZnO/CdO/reduced graphene oxide: (1) intimate contact between ZnO, CdO and rGO (2) the ultrafast electron transfer from ZnO/CdO nanoparticles to rGO which significantly hinders the recombination of charge carriers (3) the activation of the organic pollutant molecules via π - π interaction between the organic pollutants and rGO. Considering cheap raw materials, recoverable and the excellent sonocatalytic activity, ZnO/CdO/reduced graphene oxide can be potentially applied in the water purification industry.

In abstract, page 1; Line 11: “with ultrasonic irradiation” must be omitted.

Page 1; in abstract line 11 with ultrasonic irradiation was omitted.

Page 2; lines 40: “such” changed to “such as”.

Page 2; line 40 such was corrected to such as.

Page 2; lines 51: delete the “sonocatalyst”.

Page 2; line 51 sonocatalyst was deleted.

Page 17; lines 398-399: delete the parentheses.

Page 18; line 406-407 parentheses was deleted.

Sincerely Yours,

Maryam Lashanizadegan