

REVIEWER'S COMMENT FORM

No. Reviewer : -

PaperID : 11307

Title : Synthesis of Fe₃O₄ Nanocatalyst Capped Citric Acid (Fe₃O₄-CA) from Sargassum filipendula

LIST OF REVIEWER'S COMMENT

Page	Line number	Questions/Comments (in Indonesia or English)
		In their manuscript "Synthesis of Fe ₃ O ₄ Nanocatalyst Capped Citric Acid (Fe ₃ O ₄ -CA) from Sargassum filipendula, the authors synthesis nanoparticles Fe ₃ O ₄ assisted with Sargassum filipendula extract and then capped with Citric Acid as Stabilizer. I think, it suitable for publication in ALKIMIA Jurnal Ilmu Kimia dan Terapan with Mayor Revision related with no result and discussion about catalytic activity it material and need some improvement in English.
1	Abstract	In this section, the author show that "This nanocatalyst was also tested for the synthesis of pyrimidine-derived compounds at optimum conditions using 7.5% mol of catalyst, 50 °C for 6 hours, in order to obtain a yield of 83.2%." but in methodology and discussion method, author just showed until material synthesis.
1	Abstract	a lot of spelling mistakes, please check
1	Keywords	Nanokatalis ?
1	Introduction	add a paragraph explaining the synthesis of nanoparticles assisted with plant extracts (bio/green synthesis of nanoparticles)
1	Introduction	These nanoparticles can be used as materials for drug delivery systems (Drug Delivery System = DDS), catalysts, Magnetic Resonance Imaging (MRI), and cancer therapy [5]. Add reference: https://doi.org/10.47352/jmans.v1i1.9
1	Introduction	In order to be applied in these various fields, it is very important to consider the particle size, magnetic

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		properties, and surface properties of the nanoparticles themselves [4]. Add reference: https://doi.org/10.47352/jmans.v1i2.81
		Gambar → Figure
		Gambar 7 convert to table
		Discuss your result and compare with other research

REVIEWER'S COMMENT FORM

No. Reviewer : 02

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Sargassum filipendula

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Page	Line number	Questions/Comments (in Indonesia or English)
		It requires a more detail of <i>Sargassum filipendula</i> mentioned in the article, at least information about ecosystem and regency where the sample was taken. Because, different ecosystem leads to different concentrations of chemical contents/nutrients in the sample.
1	13	The word 'average' has to be added before words of radius and diameter of particle size stated in the abstract and the conclusion. Because it's not the exact size of the particle. And, it is better to use only one of the data, either radius or diameter of the particle only, not both of them. Because they served similar information.
6	160 - 161	SEM images of Fe ₃ O ₄ only need to be presented also. In order to show the transformation from SEM image showing granular grain (Fe ₃ O ₄) to SEM image showing granular and fiber grain (Fe ₃ O ₄ -CA)
6	175	The word 'average' has to be added before words of radius and diameter of particle size stated in the abstract and the conclusion. Because it's not the exact size of the particle.

		And, it is better to use only one of the data, either radius or diameter of the particle only, not both of them. Because they served similar information.
6	167	Fe ₃ O ₄ data in the EDX result need to be presented as well along with EDX result of Fe ₃ O ₄ -CA. The objective is to confirm that Fe ₃ O ₄ -CA is formed. It usually showed by increase in the composition of C.
2, 3	68, 88	Previous method utilised in the research as main references of the study are not mentioned. There is no sentence like “.....were prepared based on previous work with modification...”
6	175	Crystal size and average partikel size before and after Fe ₃ O ₄ -CA Nanocatalyst synthesised weren't shown. This is an essential data for comparison.