

Review Form 3

Journal Name:	Archives of Current Research International
Manuscript Number:	Ms_ACRI_128387
Title of the Manuscript:	Advances in safe processing of sugarcane bagasse for the generation of bio-products and biofuels: An overview
Type of the Article	

PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.		
Is the title of the article suitable? (If not please suggest an alternative title)		
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.		
Is the manuscript scientifically, correct? Please write here.		
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.		

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<p>Is the language/English quality of the article suitable for scholarly communications?</p>		
<p>Optional/General comments</p>	<p>Through a literature review, the authors present the scientific advances in the valorization of sugarcane residues. Two residues of this plant are recommended, namely bagasse (SB) and leaves (SL). After describing the entire plant, the authors focused on the composition of the residues, the bioprocesses for transforming these residues into high value-added products: xylitol, ethanol, antibiotics, single-cell proteins, hydrogen, livestock feed, alkaloids, pigments, various organic acids of interest and even a plant hormone. However, to maximize these products, technological and even biomass challenges must be met. In particular, the optimization of bioethanol production, which for the moment cannot compete with fossil fuel because of its still high cost. The authors propose as a perspective the simultaneous use of bagasse and leaves as raw materials in order to increase the production of these products. Before that, it would be advisable to pre-treat the leaves by removing silica and lignin, and especially to proceed with pilot tests in order to control all the production parameters. An integrated system is recommended in order to limit production costs, this by using existing bagasse pre-treatment facilities for sugar production. In short, the authors propose 7 essential characteristics for the optimized production of these high added value products.</p> <p>The topic is current, of social, economic and environmental interest. The synthesis of the literature data is satisfactory. The prospective proposals are coherent. However, for the article to be accepted for publication, the following recommendations are made to the authors:</p> <ol style="list-style-type: none"> 1. The summary should be reformulated and the instructions I gave in the manuscript should be taken into consideration 2. I find the conclusion weak compared to the important recommendations made by the authors in the text. It would be appropriate to take into consideration some of them in the conclusion 3. Densify the literature review with recent references (33 citations is not many for such an important study, especially a literature review!) 4. The references should be harmonized in accordance with the journal's recommendations <p>Once these instructions are taken into account, the article can be published.</p>	

PART 2:

	<p>Reviewer's comment</p>	<p>Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</p>
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

Reviewer Details:

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