

Invitation to review for Food Bioscience

Dari: Food Bioscience (em@editorialmanager.com)

Kepada: kgs.ahmadi@yahoo.com

Tanggal: Senin, 20 Maret 2023 pukul 16.42 WIB

Manuscript Number: FBIO-D-23-01023

1-methylcyclopropene and modified atmosphere packaging delayed the postharvest senescence of figs (*Ficus carica* L.) during cold storage through regulating the reactive oxygen species metabolism

Cailian Wang; Jiaming Du; Dehua Hou; Xiaohong Guo; Qianting Liu; Linwen Liu; Yu Fang; Liping Kou

Dear Dr. Ahmadi,

I would like to invite you to review the above referenced manuscript submitted by Liping Kou. Given your expertise in the area of the submitted study, I would kindly request your opinion of this manuscript as a reviewer. I hope you are able to accept my invitation.

The abstract for this manuscript is included below. If you are able to serve as a reviewer, kindly treat the manuscript and your review as confidential and do not share your review or information about the review process with anyone without the agreement of the editors and authors involved, even after publication. This also applies to other reviewers' "comments to author" which are shared with you on decision (and vice versa).

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I hope you will be able to review this manuscript.

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Kind regards,

Tatiana Pimentel

Associate Editor

Food Bioscience

Abstract:

1-methylcyclopropene (1-MCP) and modified atmosphere packaging (MAP) were employed to inhibit figs decay and postharvest senescence during storage. Fresh figs were treated or untreated with 1.5 $\mu\text{L/L}$ 1-MCP, then sealed with gas penetrated bags, and stored at 4 °C. Results indicated that treatment with 1-MCP and MAP inhibited fig decay and weight loss significantly, and slowed changes in O₂ and CO₂ partial pressures. 1-MCP and MAP also effectively retained the higher contents of total phenol, total flavonoid, ascorbic acid and glutathione in figs, and increased activities of ascorbate peroxidase, peroxidase, superoxide dismutase and catalase. The production of O₂· and H₂O₂ in figs was prevented, and color were retained in 1-MCP and MAP treatment. Moreover, the analysis of volatile components indicated that 1-MCP and MAP improved the flavor of figs during storage and reduced the loss of aroma compounds in figs. Therefore, treatment with 1-MCP and MAP significantly extended storage life of figs.

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Review for Food Bioscience - next steps

Dari: Food Bioscience (em@editorialmanager.com)

Kepada: kgs.ahmadi@yahoo.com

Tanggal: Selasa, 21 Maret 2023 pukul 06.03 WIB

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Manuscript Number:  FBIO-D-23-01023

1-methylcyclopropene and modified atmosphere packaging delayed the postharvest senescence of figs (*Ficus carica* L.) during cold storage through regulating the reactive oxygen species metabolism

Dear Dr. Ahmadi,

Thank you for agreeing to review the above referenced manuscript.

Timely reviews are of utmost importance to authors, therefore I would be grateful if you would please submit your review by Apr 03, 2023.

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Thank you in advance for your contribution and time.

Kind Regards,

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Food Bioscience

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Kepada: kgs.ahmadi@yahoo.com

Tanggal: Selasa, 21 Maret 2023 pukul 06.11 WIB

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Thank you for reviewing for Food Bioscience

Dari: Food Bioscience (em@editorialmanager.com)

Kepada: kgs.ahmadi@yahoo.com

Tanggal: Rabu, 29 Maret 2023 pukul 10.25 WIB

Manuscript Number: FBIO-D-23-01023

1-methylcyclopropene and modified atmosphere packaging delayed the postharvest senescence of figs (*Ficus carica* L.) during cold storage through regulating the reactive oxygen species metabolism

Cailian Wang; Jiaming Du; Dehua Hou; Xiaohong Guo; Qianting Liu; Linwen Liu; Yu Fang; Liping Kou

Dear Dr. Ahmadi,

Thank you for reviewing the above referenced manuscript. I greatly appreciate your contribution and time, which not only assisted me in reaching my decision, but also enables the author(s) to disseminate their work at the highest possible quality. Without the dedication of reviewers like you, it would be impossible to manage an efficient peer review process and maintain the high standards necessary for a successful journal.

You will shortly receive a notification from Elsevier's reviewer recognition platform, which provides you with a link to your "My Elsevier Reviews" private profile page, certificates, editor recognition as well as discounts for Elsevier services.

I hope that you will consider Food Bioscience as a potential journal for your own submissions in the future.

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Tatiana Pimentel

Associate Editor

Food Bioscience

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Review for Food Bioscience - manuscript revision decision

Dari: Food Bioscience (em@editorialmanager.com)

Kepada: kgs.ahmadi@yahoo.com

Tanggal: Rabu, 12 April 2023 pukul 04.14 WIB

Manuscript Number: FBIO-D-23-01023

1-methylcyclopropene and modified atmosphere packaging delayed the postharvest senescence of figs (*Ficus carica* L.) during cold storage through regulating the reactive oxygen species metabolism

Dear Dr. Ahmadi,

Thank you for reviewing the above referenced manuscript. With your help, I have reached a revise decision on this manuscript.

The anonymised comments to author, from all reviewers, are included below. You can also access this information by logging into Editorial Manager as a reviewer.

Thank you for your contribution and time in reviewing this manuscript, which not only assisted me in reaching my decision, but also enables the author(s) to disseminate their work at the highest possible quality. Please note you may be asked to review the revision of this paper in the future.

I am grateful to you for your assistance as a reviewer for Food Bioscience.

Kind regards,

Tatiana Pimentel
Associate Editor
Food Bioscience

Comments to author:

Associate editor. Dear authors. The reviewers raised some concerns about the paper. Please, revise it accordingly.

HIGHLIGHTS

- All bullets have the similar construction. Please, change to be more informative

GENERAL COMMENTS

- Abbreviations should be included full at the first citation. Please, revise all the manuscript
- L. 189- Why did the authors use only 15 people in sensory evaluation? And why only students? Please, include the approval for human studies (approval number).
- Discussion should be improved.

Reviewer #1: This is a good research that should interest readers. In this study Cailian Wang and colleagues investigated the combination effect of 1-methylcyclopropene and modified atmosphere packaging on the postharvest senescence of figs (*Ficus carica* L.) during cold storage by assessing the reactive oxygen species metabolism and other physicochemical properties.

Abstract

A background to study makes the abstract session more informative, this should therefore be included.

Introduction:

There are some grammatical and punctuation errors that should be corrected.

Materials and method:

Please reconstruct line 94-96

Line 94: Is 'SiLuHongYu' part of the scientific name or a local name or a breed, please clarify. The statement as it is may be confusing.

Section 2.1: grouping condition should be well stratified to give clearer context and for ease of reproducibility.

Line 115 and 116: were figs in the COM group also analyzed?

Some of the abbreviations used should be defined at the first mention.

Line 160: Recast Statement for clarity.

Result and Discussion

Please check for grammatical errors

- * Table legend should be explicit, defining some of the symbol representations.
- * Figure 1 A and B does not have the COM treatment group, why? It will be good it is included for better comparison or a good reason why the group was excluded should be stated in section 3.1.
- * Line 303: recast statement to avoid misinterpretation
- * Line 316: What does the section title mean "related enzyme" mean in that context.
- * Section 3.6, Line 357-364: Please discuss the result more clearly, the statement sounds vague. Also it will be good to state in clear terms what the symbols represent and a narrative of the trends.

Conclusion

Please emphasize the benefit of the combination treatment, and some of the scientific implications in the preservation, rather than discussing the result again.

Reviewer #2: Thanks a lot for your invitation to review this manuscript "1-methylcyclopropene and modified atmosphere packaging delayed the postharvest senescence of figs (*Ficus carica* L.) during cold storage through regulating the reactive oxygen species metabolism" (FBIO-D-23-01023). I think that this work could be accepted for publication after major revision. The detailed comments were shown as follows:

1. The title is confusing.
2. The introduction section is more than 10% of the manuscript.
3. English needed revision.
4. Texture analysis is required.
5. Water activity measurement is required.
6. Evaluation of Vit C stability is required.
7. Evaluating the phenol/flavonoid stability is required.

Reviewer #3: I think this manuscript is interesting and proper to publish

Reviewer #4: Manuscript FBIO-D-23-0102

Title: 1-methylcyclopropene and modified atmosphere 1 packaging delayed the postharvest senescence of figs (*Ficus carica* L.) during cold storage through regulating the reactive oxygen species metabolism
The manuscript of Wang et al., describes the effect of 1-MCP and MAP on the quality of fig during storage. The manuscript need significant improvement and lack in novelty. The statistics used are not adequate. Conclusion should be improved. I suggest major revisions of this manuscript, as suggested below:

Comment 1: The title is too long. Please rewrite the title.

Comment 2: In the highlights section do not repeat the same terms used in the title.

Comment 3: The abstract is too simple, especially regarding methods description, number of fruit used for each replication, etc.

Comment 4: The introduction section describes several studies regarding figs and 1-MCP used in postharvest, but lacks in describing the main hypothesis and the novelty of the manuscript. This section should be significantly improved.

Comment 5: The number of fruit used for each evaluation is confuse. Please let it clear for the reader.

Comment 6: The statistical analyses performed is not adequate. Why the authors used Duncan's test? This is a very obsolete statistic test. I suggest redo the statistics using Tukey's test, which is a stronger test.

Comment 7: The statistics should be doing in a two-way ANOVA. The One-way ANOVA is wrong.

Comment 8: The results are generally well described according the figures and tables, but the statistical significance is not adequate as describe above.

Comment 9: There is almost no discussion in this manuscript. I suggest to the authors increase significantly the discussion in order to better explain the results obtained.

Comment 10: The conclusion section appears more a summary of the results than a conclusion. Please rewrite this section.

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Cailian Wang; Jiaming Du; Dehua Hou; Xiaohong Guo; Qianting Liu; Linwen Liu; Yu Fang; Liping Kou

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Abstract:

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AHMADI KGS

in recognition of the review contributed to the journal

The Editors of Food Bioscience



Food Bioscience

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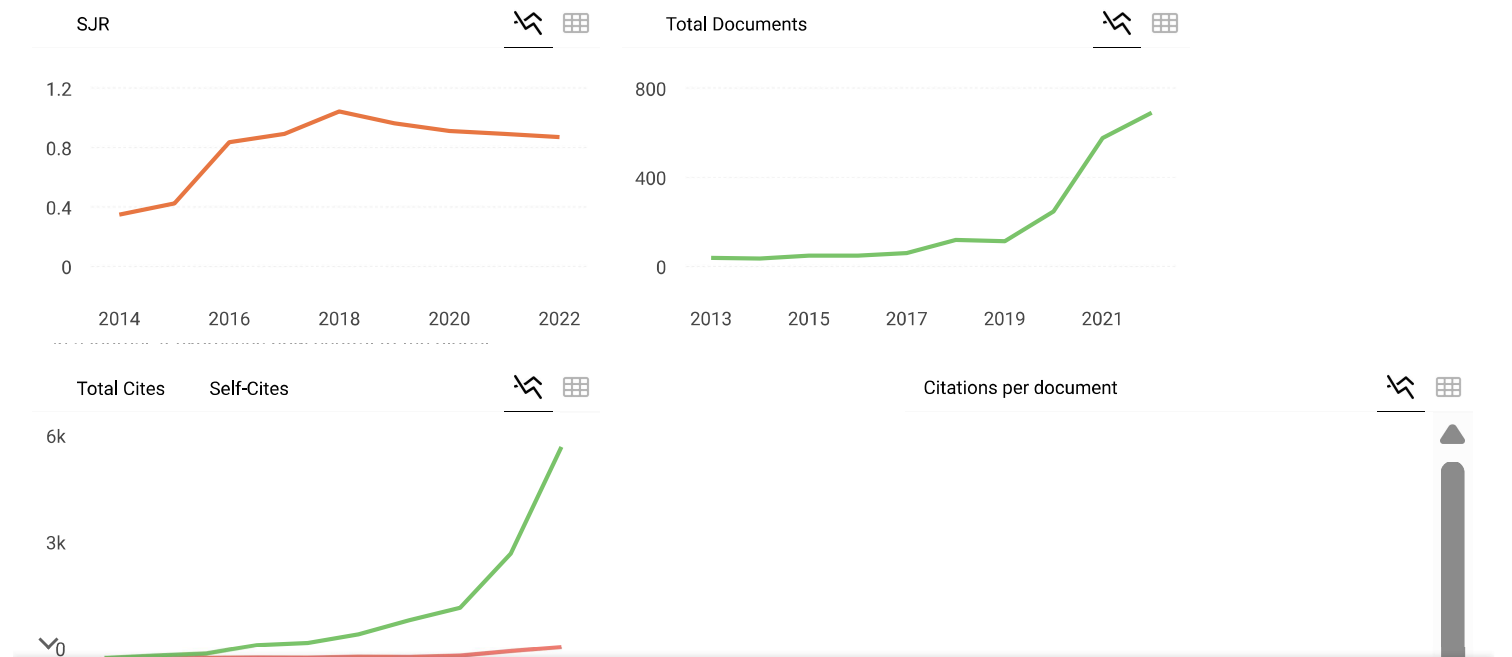
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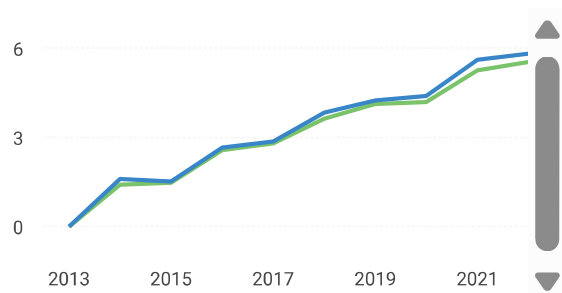
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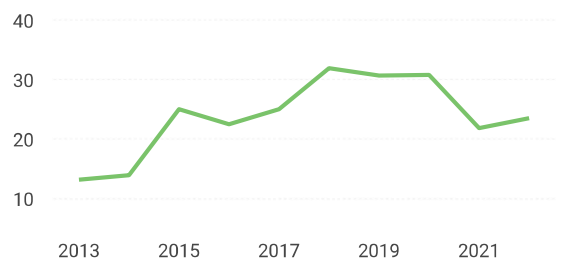


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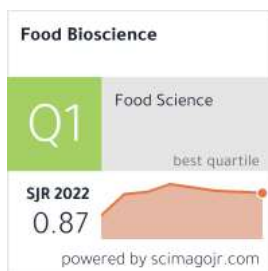
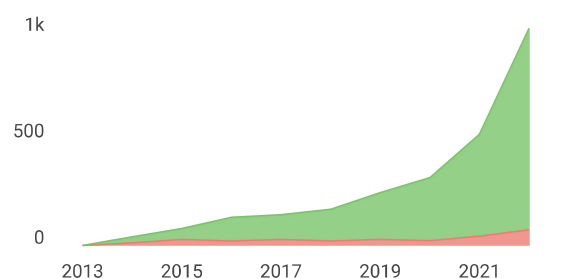
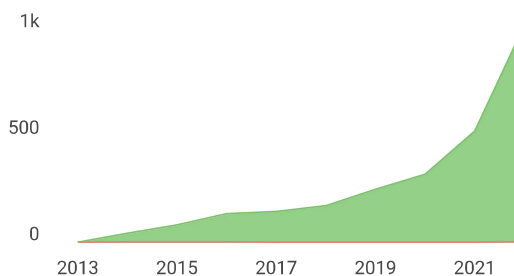
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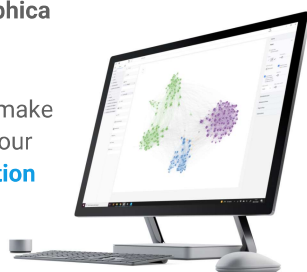
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