

Review Form 1.6

Journal Name:	Asian Journal of Applied Chemistry Research
Manuscript Number:	Ms_AJACR_93256
Title of the Manuscript:	Process technology for production of hydrogen-rich water and water characterizing by highly negative oxidation reduction potential
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journalajacr.com/index.php/AJACR/editorial-policy>)

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PART 1: Review Comments

	Reviewer's comment	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)
Compulsory REVISION comments	Good study	
Minor REVISION comments	<p>It needs Minor corrections to be acceptable :</p> <ol style="list-style-type: none">1- Table (2) : you carried out these data by any statistical program ??2- There is no explanation of results in curve (4) ?3- There is no clear explanation of data or results in figure (5) ?4- Reference No.4 in any year ???? it is not clear , there is print error : <p>An R, Luo S, Zhou H, Zhang Y, Zhang L, Hu H, Li P. Effects of hydrogen-rich water combined with vacuum precooling on the senescence and antioxidant capacity of pakchoi (<i>Brassica rapa</i> subsp. <i>Chinensis</i>)., Scientia Horticulturae. 2021;89;110469. DOI:10.1016/j.scienta.2021.110469</p> <p>5- I accepted paper after Minor corrections</p>	<ol style="list-style-type: none">1. The physicochemical values of the measurements listed in Tables 1 and 2 are given with a standard deviation. A corresponding change has been made to the text.2. A discussion of the results regarding Figure 4 has been added to the text3. A discussion of the results regarding Figure 5 has been added to the text <p>As a result of hydrogen saturation into water in a steel tank (Method 1) and glass bottles (Method 2), water with dissolved hydrogen is obtained with an OPR value of -480 and -502 mV, respectively. After about 5 minutes, the ORP value of the water decreases to obtain stability after about 20 minutes. After seven days, the water in both the tank and glass bottles is characterized by high negative ORP values of -450 mV in the tank and -380 mV in glass bottles, respectively. Simultaneously with the water ORP measurements, the content of hydrogen gas in the water was determined.</p> <p>As a result of hydrogen saturation into water in a steel tank (Method 1) and glass bottles (Method 2), a system with hydrogen concentration of 12 and 10 mg/L (ppm) is obtained, respectively. The concentration of hydrogen both in the tank (Method 1) and in closed glass bottles (Method 2) systematically decreases during the first hour. On the other hand, significant differences in the concentration of hydrogen in water are observed over a longer period of time. In the tank, the concentration of hydrogen in the water dropped to 9 mg / L within 7 days, i.e. by 35%, while in closed glass bottles after two days the concentration of hydrogen in water was undetectable.</p> <p>4.Reference no 4 was corrected. An R, Luo S, Zhou H, Zhang Y, Zhang L, Hu H, Li P. Effects of hydrogen-rich water combined with vacuum precooling on the senescence and antioxidant capacity of pakchoi (<i>Brassica rapa</i> subsp. <i>Chinensis</i>). Scientia Horticulturae. 2021;289;110469. DOI:10.1016/j.scienta.2021.110469</p>
Optional/General comments		

PART 2:

	Reviewer's comment	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)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	