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| Journal Name: | [**International Research Journal of Pure and Applied Chemistry**](https://journalirjpac.com/index.php/IRJPAC) |
| Manuscript Number: | **Ms\_IRJPAC\_144869** |
| Title of the Manuscript: | **Study of estimation of iron content in water using conductometric method** |
| Type of the Article | **Original Research Article** |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **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.** | This communication describes the development of an uncomplicated and dependable conductometric method for the estimation of iron in natural water, effectively eliminating any shortcomings in relation to the existing spectrophotometric and titration methodology. Given its general applicability, and lack of pH or temperature dependency, this method is applicable to environmental scientific research and periodic water quality monitoring. | Thanks. |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | Change the title of the article if possible, "Determining Iron Content in Water Using a Conductometric Method" | Title has been changed. |
| 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. | The abstract is clear and contains informative content. However, data for key results of investigation such as accuracy, sensitivity, detection range, or validation from another source would do much more to show that the conductometric method is effective. The background could be reduced so to keep the focus on being novel and showing the findings. | The abstract is changed accordingly. |
| Is the manuscript scientifically, correct? Please write here. | The manuscript is scientifically sound that the proposed conductometric approach is logically explained scientifically and presents experimental validation with calibration curves that agrees with expected results. | Thanks. |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The references are adequate but not fully recent if possible last five years references include. | The suggestion is taken care of in the revised manuscript. |
| Is the language/English quality of the article suitable for scholarly communications? | Yes | Thanks. |
| Optional/General comments | The manuscript proposes an interesting and practical solution to estimating dissolved iron in water, using conductometric measurements, which will be beneficial in environmental monitoring. | Thanks. |

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| **PART 2:** | | |
|  | Reviewer’s comment | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in detail)*  No ethical issues |  |