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| Book Name: | **[Chemistry and Biochemistry: Research Progress](https://www.bookpi.org/bookstore/product/chemistry-and-biochemistry-research-progress-vol-1/)** |
| Manuscript Number: | **Ms\_BPR\_5055** |
| Title of the Manuscript:  | **Study of Nature of Chemical Reactions using pH-Meter** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**International Research Journal of Pure and Applied Chemistry, 25(4): 116-120, 2024.**

**DOI: 10.9734/irjpac/2024/v25i4870**

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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 *(Please correct the manuscript and highlight that part in the manuscript. 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 manuscript is of great importance to the scientific community because it presents an approach to understanding the nature of the reactions of bases and acids by measuring the metric pH. This is done by knowing the number of steps in which equilibrium occurs, whether in one step or more, to understand the complex reaction mechanisms that are difficult to distinguish by the normal method. This work contributes to the development of analytical chemistry and reaction monitoring and also has practical applications in many fields, such as environmental treatment, pharmaceutical preparations, and chemical processes related to industry.** |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **The title of the article is appropriate and reflects what the manuscript contains.** |  |
| 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. | * **Add to the Abstract the results of the metric pH at which the various compounds form in both acidic and basic media.**
* **Describe the methodology more clearly.**
 |  |
| **Is the manuscript scientifically, correct? Please write here.**  | **The manuscript is distinguished by its scientific integrity and organization. The use of pH metrics, spectroscopy, and chromatography is suitable for studying compounds formed in acidic and alkaline media.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | **Yes, the references are sufficient and up-to-date.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | **Conducting a professional language edit to eliminate grammatical errors and improve readability.** |  |
| Optional/General comments | **The results are well presented, but the discussion of the results lacks a comparison with the existing literature.** |  |

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| **PART 2:**  |
|  | Reviewer’s comment | Author’s comment *(if agreed with the 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?**  |  |  |

**Reviewers:**

**Radwan Mohamed Ali, Al-Azhar University, Egypt**