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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\_5922** |
| Title of the Manuscript: | **Marcus Cross-Relationship Probed by Time-Resolved CIDNP** |
| 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.**

**Journal of International Journal of Molecular Sciences, 24: 13860, 2023.**

**DOI:** [**https://doi.org/10.3390/ijms241813860**](https://doi.org/10.3390/ijms241813860)

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| PART 1: Comments | | |
|  | Reviewer’s comment | 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.** | **I found the manuscript to be well written, providing the experimental output and theoretical relevance to the study. This manuscript focusing on probing Marcus Cross relationship via the spectroscopic technique, Time-resolved (TR)- CIDNP marks its significance by able to probe the DEE reaction rates and temperature dependence of short-lived radicals. Scientic community will benefit with such studies were the authors are able to relate their theorectical mechanisms with their experimental findings, and show its differences with reasons.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **I found the title to be very generic, it can also specify where exactly is this time-resolved advanced spectroscopy is used.**  **“Marcus Cross-Relationship Probed by Time-Resolved CIDNP to study the DEE reactions of short-lived radicals.”** |  |
| 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. | **Yes, the abstract written is comprehensive. Need not to be rewritten.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Yes** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **Many reference added are old and also because it is citing various equations and theories. I suggest to add few more recent references in the experimental sections and methodology. It will ehance the authencity of the work.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes |  |
| Optional/General comments |  |  |

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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 details)* |  |

**Reviewer details:**

**Jhilmil Swapnalin, India**