

Paramesh Chandra

5th September, 1994

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🌐 <https://paramphy.github.io/param/>

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Employment History

2024 – ···· 📌 **Research Associate I**, Dept. of Life Science, Shiv Nadar University.

Education

- 2018 – 2024 📌 **Ph.D. Physics, Visva-Bharati.**
- 2017 📌 **Qualified Gate AIR 800.**
- 2015 – 2017 📌 **M.Sc. Physics, Visva-Bharati** CGPA: 6.9/10.
- 2012 – 2015 📌 **B.Sc. in Physics, University of Calcutta** 59.6/100.
- 2010 – 2012 📌 **Class XII, WBCHE** 83/100.
- 2010 📌 **Class X, WBBSE** 83/100.

Skills

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| Languages | 📌 Strong reading, writing, and speaking competencies in English, Bengali, and Hindi. |
| Technical Skills | 📌 UV-Vis spectroscopy, XRD, SEM, Electrical, and Dielectric Characterization, XPS. |
| Coding | 📌 C, C++, Python, R, \LaTeX , Matlab, Scilab, LabVIEW. |
| Software | 📌 SCAPS-1D, Quantum-Expresso, SRIM, TRIM, Origin, Word processors. |
| Web Dev | 📌 Jekyll, Github-pages, HTML, Wix. |
| Misc. | 📌 Academic research, teaching, training, consultation, \LaTeX , Docker, Notion, Linux, HPC handling, and publishing. |
| IoT | 📌 Arduino, Raspberry Pi. |

Research Publications

Journal Articles

- 1 Nandi, A., Giram, H. S., Patel, V. P., Mehera, R., Das, S., Choudhary, D. K., ... Das, N. (2023). Single-step synthesis of zno nanoparticles using a phytosynthesis route and its characterization. *Zeitschrift für Naturforschung A*, 0(0). 🔗 doi:10.1515/zna-2023-0255
- 2 Chandra, P., & Mandal, S. K. (2023). Observation of Negative Photoconductivity in $(\text{CH}_3\text{NH}_3)_3\text{Bi}_2(\text{Br}_x\text{Cl}_{1-x})_9$: Correlating Ion Migration, Stability, and Efficiency in Mixed Halide Perovskite Solar Cell. *J. Phys. Chem. C*. Publisher: American Chemical Society. 🔗 doi:10.1021/acs.jpcc.3c06427
- 3 Nandi, A., Mehera, R., Mandal, M., Chandra, P., Mandal, S. K., Begum, N. A., ... Das, N. (2023). Effects of biosynthesized ZnO nanoparticles on oxidative stress parameters in *saccharomyces cerevisiae*. *Journal of Physics and Chemistry of Solids*, 185, 111748. 🔗 doi:10.1016/j.jpccs.2023.111748



- 4 Nandi, A., Chandra, P., Mandal, S., & Das, N. (2023). One-step synthesis of zno nanoparticles using phytosynthesis route and its characterization. (*Communicated*).
- 5 Chandra, P., Saha, S., & Mandal, S. K. (2022). A dielectric study of Br-doped lead-free methylammonium bismuth chloride $(\text{CH}_3\text{NH}_3)_3\text{Bi}_2\text{Br}_x\text{Cl}_{9-x}$. *Applied Physics A*, 128(6), 541.
[doi:10.1007/s00339-022-05677-9](https://doi.org/10.1007/s00339-022-05677-9)
- 6 Saha, S., & Chandra, P. (2022). Spin state bistability in (Mn, Zn) doped $\text{Fe}(\text{phen})_2(\text{NCS})_2$ molecular thin film nanocrystals on quartz. *Physica B: Condensed Matter*, 414128. [doi:10.1016/j.physb.2022.414128](https://doi.org/10.1016/j.physb.2022.414128)
- 7 Chandra, P., & Mandal, S. K. (2021). Morphology controlled $(\text{CH}_3\text{NH}_3)_3\text{Bi}_2\text{Cl}_9$ thin film for lead free perovskite solar cell. *Physica B: Condensed Matter*, 625(April 2021), 413536. Publisher: Elsevier B.V.
[doi:10.1016/j.physb.2021.413536](https://doi.org/10.1016/j.physb.2021.413536)

Conference Proceedings



- 1 Chandra, P., Saha, S., & Mandal, S. (2022, July 6). Frequency and temperature-dependent dielectric characteristics of lead-free br doped perovskites $(\text{CH}_3\text{nh}_3)_3\text{bi}_2\text{cl}_9$ and $(\text{CH}_3\text{nh}_3)_3\text{bi}_2\text{br}_x\text{cl}_{9-x}$. Journal Abbreviation: Materials Today: Proceedings Publication Title: Materials Today: Proceedings.
[doi:10.1016/j.matpr.2022.06.413](https://doi.org/10.1016/j.matpr.2022.06.413)

Miscellaneous Experience

Maintaining educational websites

- For Arduino  <https://arduino-doc.readthedocs.io/en/latest/>
- For C++  https://paramphy.github.io/c_site_minima/

Teaching Experience

- 2020  Has taught C++, Python, and Arduino to numerous students from physics backgrounds.
- Masters' Dissertation  Has guided 4 students for there master's dissertation.

References

Dr. Swapan K. Mandal

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Visva-Bharati,
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Dr. Rajkumar Singha

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Prof. Mrinal Pal

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