

Priya Shrivastava, PhD

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Overview

- Looking for exciting research opportunities in a lab where I can develop my technical skills beyond PhD)
- Awarded PhD degree in Feb 2020 from IIT Bombay, India (PhD registered in Jan 2014, Submitted PhD thesis in Sept. 2019)

Education

2020 **Indian Institute of Technology Bombay**

Thesis Title: Experimental and Computational Studies of Environmentally Benign Perovskite Absorbers for Solar Cells

2010 **Dayalbagh Educational Institute, Faculty of Science, Agra**

Master's in Science with specialization in Electronics, First with Distinction

2008 **Dayalbagh Educational Institute, Faculty of Science, Agra**

Bachelor's in Science, First with Distinction

Skills

Software: SCAPS-1D, VASP, GULP, XMAKEMOL, Avogadro, WXDragon, Schrodinger Material Science Suite, Xpert Highscore plus, Origin Lab, Quantum Espresso, Xcrysden, FullProf, Linux, Microsoft Office Suite. User of high-performance cluster at IIT Bombay and Param Yuva II supercomputer

Honors & Awards

- 2014 Selected for Oral Paper Presentation in prestigious International Conference, Materials Research Society (MRS), Fall & Exhibits 2014, Boston, USA
- 2013-2018 All India Joint CSIR-UGC NET JRF Fellowship for five years.
- 2009 Summer Research Fellowship by Indian Academy of Sciences
- 2009 Faculty Topper in essay writing competition on "Application of Systems Theory to Novel fields and Dimensions" Organized by DEI-Dayalbagh Chapter of System Society of India on 14 Jan 2009.

Scientific Publications

- "First principles study of $\text{Cs}_2\text{Ti}_{1-x}\text{M}_x\text{Br}_6$ ($\text{M}=\text{Pb}, \text{Sn}$) and numerical simulation of the solar cells based on $\text{Cs}_2\text{Ti}_{0.25}\text{Sn}_{0.75}\text{Br}_6$ perovskite" **Priya Shrivastava (Corresponding and First Author)**, K.R. Balasubramaniam, Parag Bhargava in **International Journal of Energy Research (Wiley) (2020)**, (IF – 5.16)
<https://onlinelibrary.wiley.com/doi/abs/10.1002/er.6339>
- "Effect of Br-doping and choice of precursor solvent on morphology of lead free $(\text{CH}_3\text{NH}_3)_3\text{Bi}_2\text{I}_9$ perovskites" **Priya Shrivastava (Corresponding and First Author)**, K.R. Balasubramaniam, Parag Bhargava in **Journal of Renewable and Sustainable Energy (AIP)**. (2018)(IF- 2.2).
<https://doi.org/10.1063/1.503093>

- “Sn(IV) inserted lead free perovskite materials (MA₃(Bi_{1-x}Sn_x)₂I₉) as light absorbers: Band gap engineering and enhanced photovoltaic performance” **Energy Technology (Wiley) (2021)**. Khursheed Ahmad, Praveen Kumar, **Priya Shrivastava**, Shaikh M Mobin. <https://doi.org/10.1002/ente.202100717> (IF: 3.63) (Collaboration with IIT Indore)
- Looking beyond single electron extraction in cathode materials for Lithium ion batteries” Anish Suresh Sankhe, Sumit Saxena, **Priya Shrivastava**, Shobha Shukla **Journal of Power Sources (Elsevier) (2015)**. (IF – 9.12) <http://dx.doi.org/10.1016/j.jpowsour.2015.01.061>

Personal Details

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Languages	Proficient in English and Hindi
Nationality	Indian