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## Publications

### Relevant to Thesis Work

1. **Asim Aftab**, Md. Imteyaz Ahmad, Role of additives  $\text{SnX}_2$  (X= F, Cl) and anti-solvents on the microstructure of PV absorber  $\text{FASnI}_3$  films, *Mater. Lett.* 275 (2020) 128071.
2. **Asim Aftab**, Md. Imteyaz Ahmad, A review of stability and progress in tin halide perovskite solar cell, *Solar Energy* (2021)
3. Sooraj Kumar, **Asim Aftab**, M.I. Ahmad, Compact Titania films by spray pyrolysis for application as ETL in perovskite solar cells, *J. Electron. Mater.* (2020).
4. **Asim Aftab**, Sooraj Kumar, Satyabrata Jit, Md Imteyaz Ahmad, Stable  $\text{FAMAPb}(\text{I,Br})_3$  PV Absorber Layer through Low-Temperature Radiative Annealing, (Communicated)
5. **Asim Aftab**, Md Imteyaz Ahmad, Improving Microstructure and Stability of  $\text{FAMAPbI}_3$  Perovskite Layer Using Bilayer  $\text{TiO}_2/\text{SnO}_2$  Electron Transport Layer, (Communicated)
6. **Asim Aftab**, Md Imteyaz Ahmad, Tin oxide as Efficient Electron Transport Materials for Perovskite solar cell. (To be submitted).
7. **Asim Aftab**, Md Imteyaz Ahmad, Towards enabling the stability of perovskite solar cell using triple cation system. (Communicated)
8. **Asim Aftab**, R Murshed, Md Imteyaz Ahmad Role of Electron Transport Layers on Photovoltaic performance of Sn-based Perovskite Solar Cells: A review (Communicated)

### Collaboration Work

1. Anurag Kumar, G. Sharma, **Asim Aftab**, M.I. Ahmad, Flash assisted synthesis and densification of five component high entropy oxide ( $\text{Mg, Co, Cu, Ni, Zn}$ )O at 350 °C in 3 min, *J. Eur. Ceram. Soc.* 40 (2020) 3358–3362.

## **International Conference Presentations**

### **Relevant to Thesis Work**

- 1 Asim Aftab**, Sooraj Kumar, Md Imteyaz Ahmad “Development of Tin-based Organic-Inorganic Perovskite Solar cell” Oral Presentation Paper ID 82-2019-98, 82<sup>nd</sup> Annual Session of Indian Ceramic Society by Indian Ceramic Society Jamshedpur Chapter. 9& 10<sup>th</sup> January, 2019 The Wave International, Jamshedpur (Jharkhand) India
- 2 Asim Aftab**, Sooraj Kumar, Md Imteyaz Ahmad “Effect of additives on the microstructure of organic-inorganic tin halide based PV absorber layer” Oral presentation Paper ID .P-0312 in 3<sup>rd</sup> ICSEP 2019 19<sup>th</sup> December 2019 to 21<sup>st</sup> December 2019, KIIT University, Bhubaneswar, (Orissa) India

### **Collaboration Work**

- 1.** Anurag Kumar, **Asim Aftab**, Sooraj Kumar, Md. Imteyaz Ahmad, “Highly transparent and conductive window for CIGS solar cell”, Materials & Technologies for Energy Conversion and Storage (M-TECS 2018), BARC Mumbai, September 26-29, 2018.
- 2.** Anurag Kumar, Maurya Sandeep Pradeep Kumar, Sooraj Kumar, **Asim Aftab**, Md. Imteyaz Ahmad Highly Conductive Aluminium Doped Zinc Oxide Thin Film by Solution Processing Route, Oral presentation, 10<sup>th</sup> International Conference on Materials for Advanced Technologies (ICMAT 2019) 23 - 28 June 2019 | Marina Bay Sands, Singapore.

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