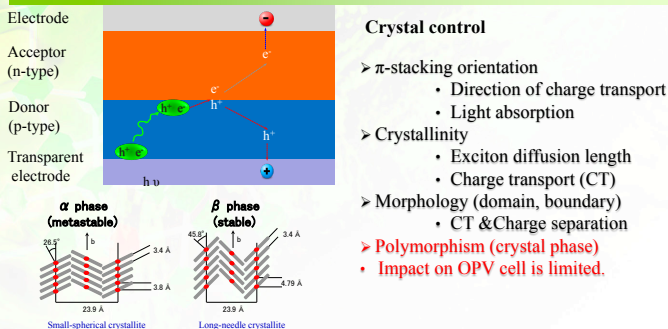


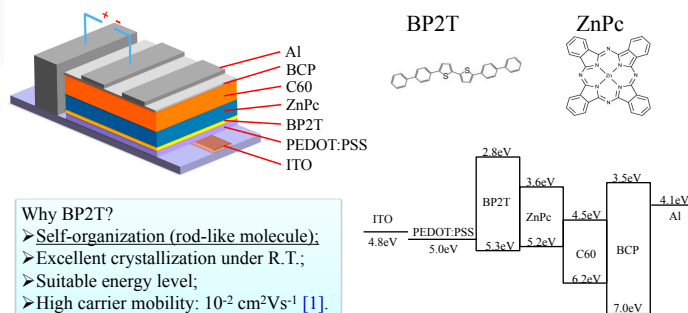
Polymorphic control of Zinc Phthalocyanine for Organic Photovoltaic Cell

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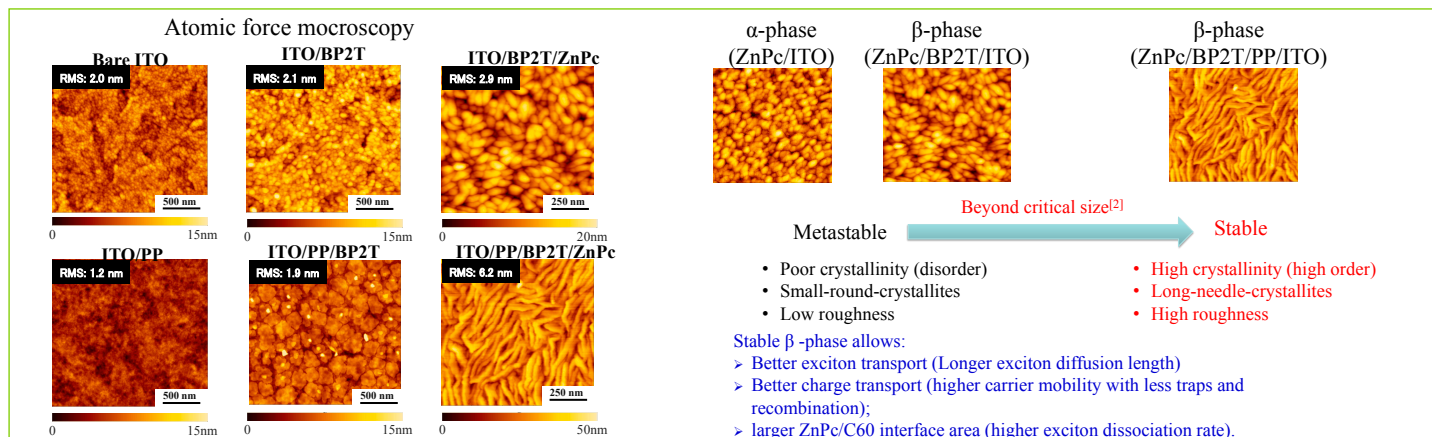
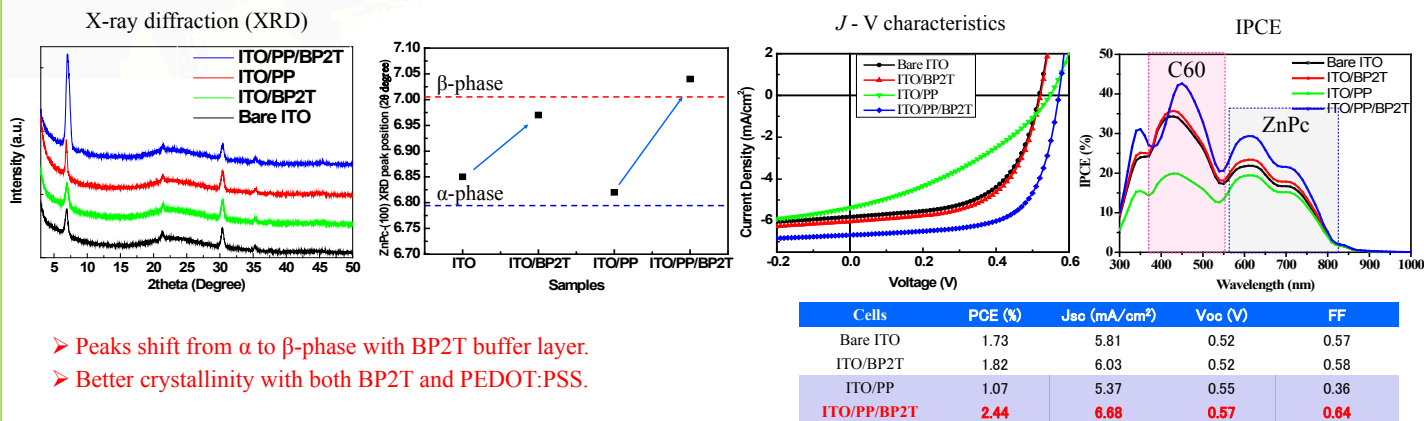
INTRODUCTION



EXPERIMENTS



RESULTS&DISCUSSION



CONCLUSION

- Stable β -phase ZnPc was realized on BP2T under R.T.;
 - Rough ITO surface hinders BP2T crystal growth resulting metastable β -phase ZnPc;
 - Stable β -phase ZnPc is favorable for efficient OPV cells;
 - Metastable α -phase
- stable β -phase ZnPc
- PCE 1.07% $\xrightarrow{150\% \text{ increased}}$ 2.44%

REFERENCES

- [1] B. Yu, et al. Adv. Mater. **22**, 1017 (2010).
- [2] F. Iwatsu, J. Phys. Chem. **92**, 1678 (1988).

Acknowledgment

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