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**Powder Aerosol Deposition of Polymer-Ceramic Composites:
Influence of Powder Preparation on Film Structure**

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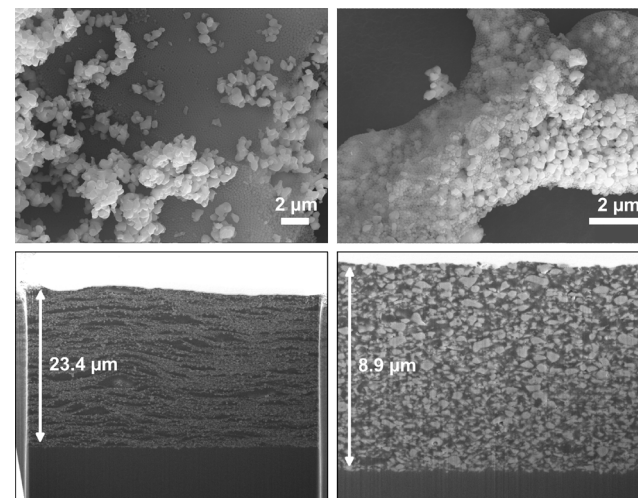
Highlights of This Poster Presentation

➤ Target

- Fabrication of **TiO₂/Polystyrene composite thin films** by powder aerosol deposition (PAD)
- Investigation of the influence of composite powder preparation on the film properties.

➤ Conclusion

- Successful combination of polymer processing and PAD powder preparation
- Polymer distribution controls deposition mechanism and film structure
- **Free-standing composite thin films** made by sacrificial layer approach



Composite feedstock powders and corresponding FIB-SEM cross-sections of PAD films on PC substrates.