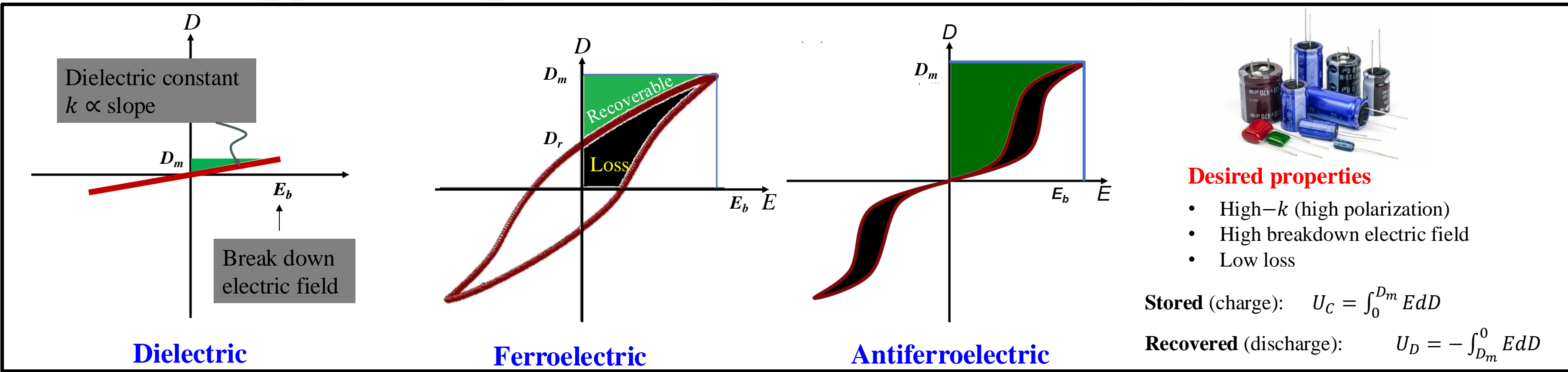


Growth Dynamics & Electrical Properties of Organic Molecular Films: Croconic & Squaric Acid

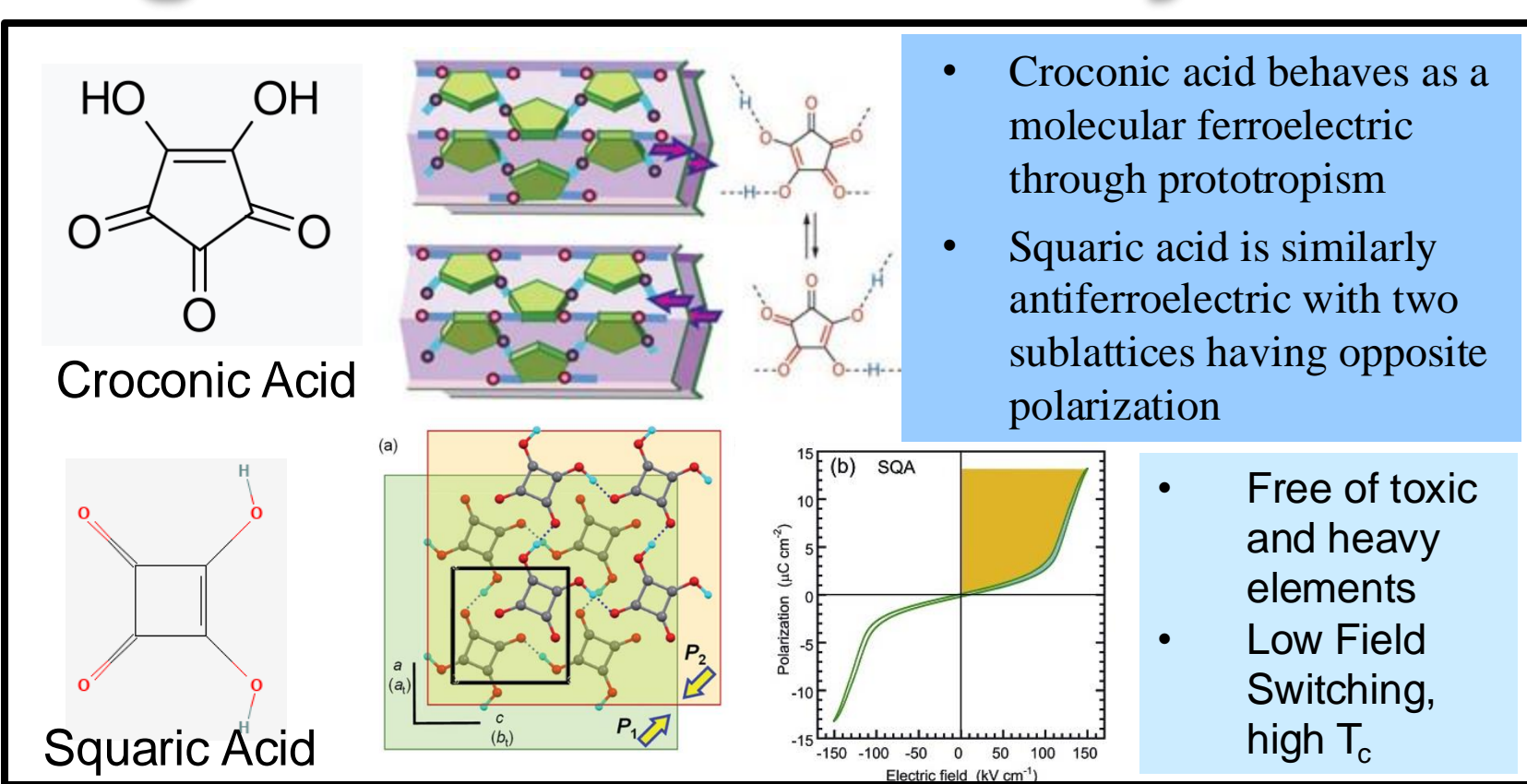
Bibek Tiwari, Yuanyuan Ni, Xiaoshan Xu

Department of Physics and Astronomy and Nebraska Center for Materials and Nanoscience, University of Nebraska, Lincoln, NE 68588.

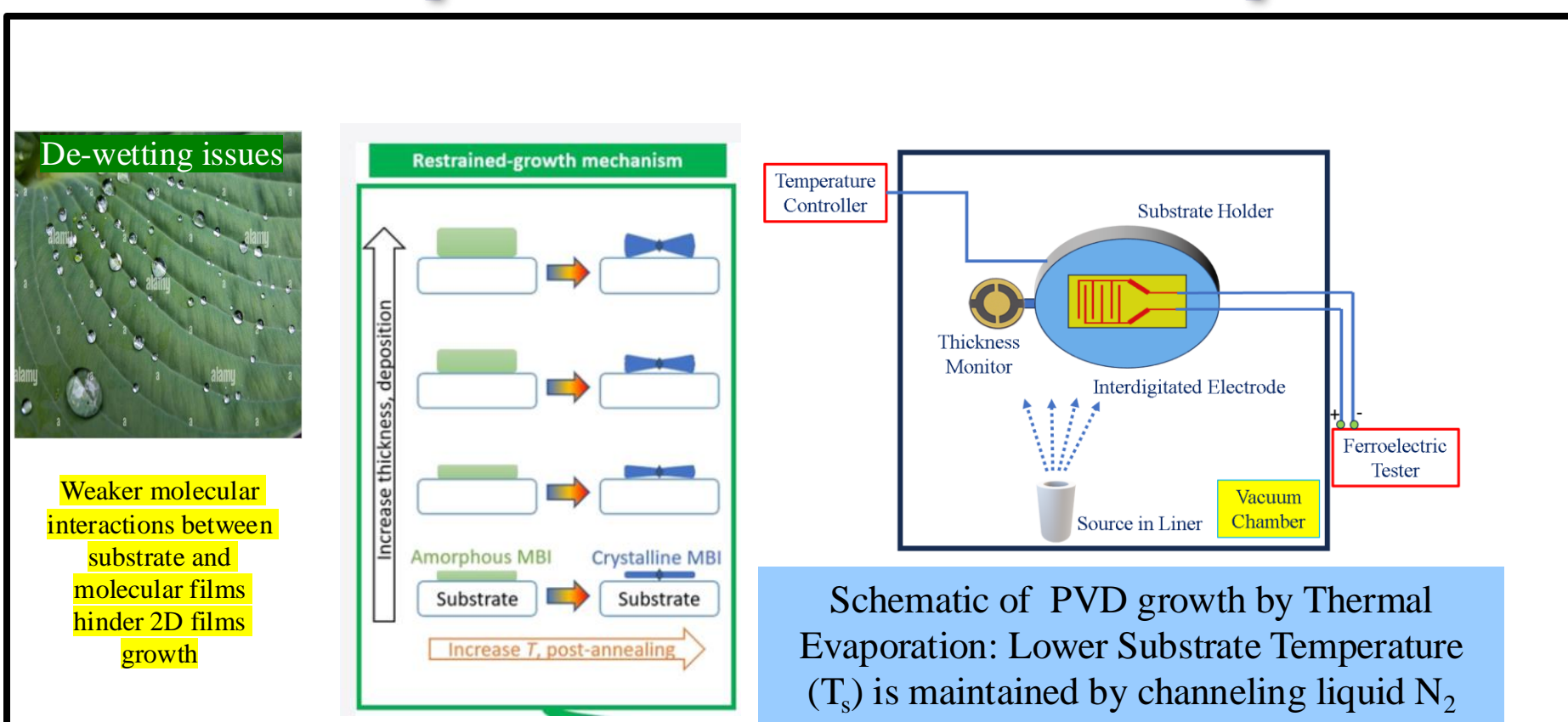
Energy Storage Principle for Device Applications



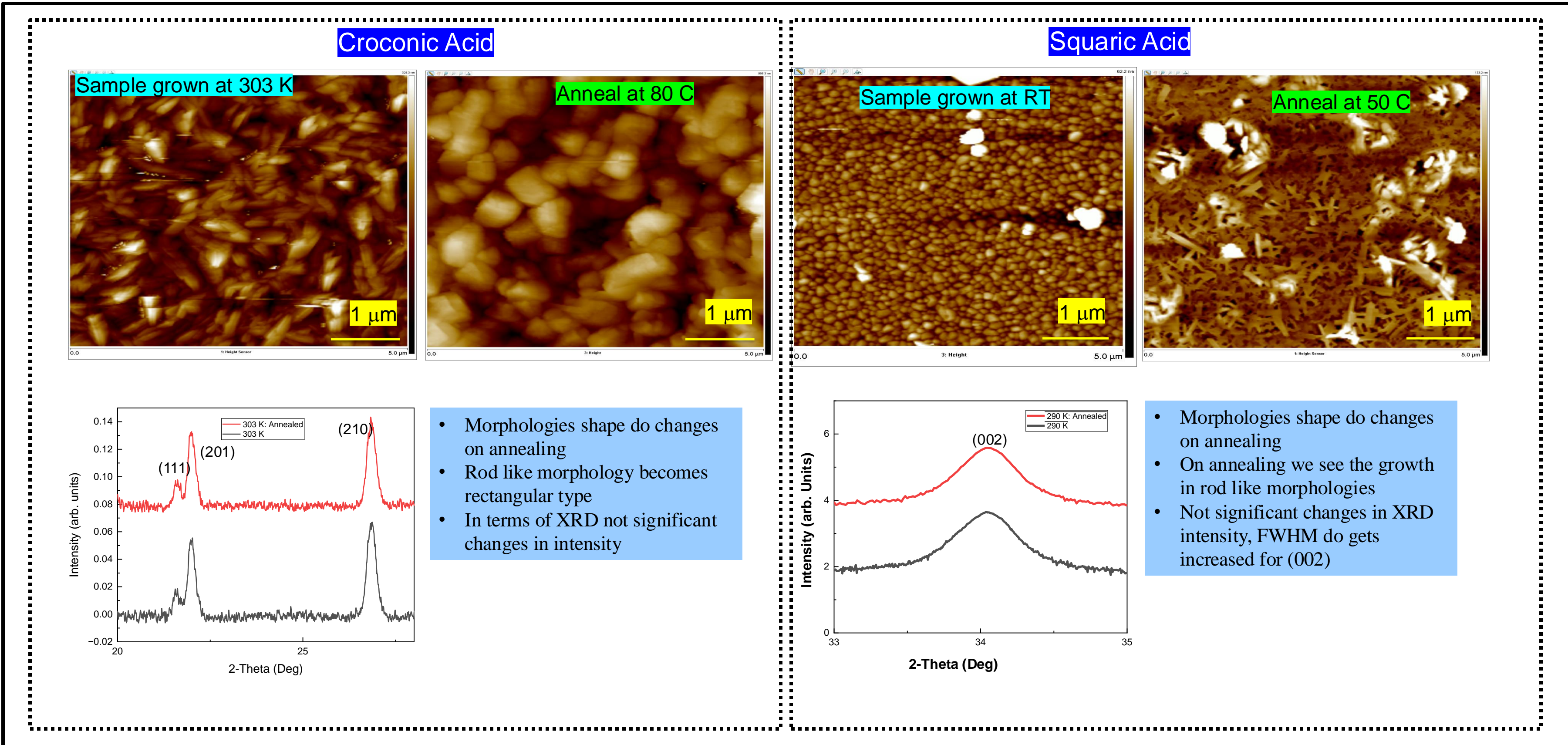
Organic Molecular Systems



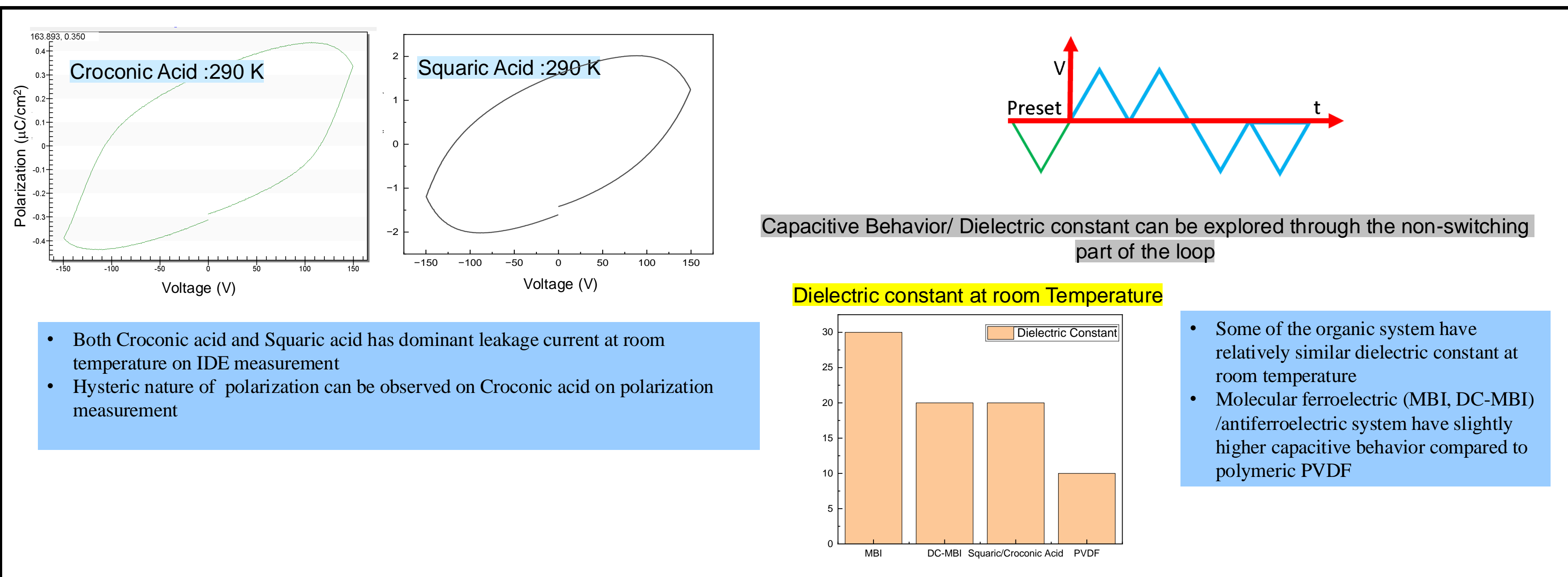
Experimental Setup



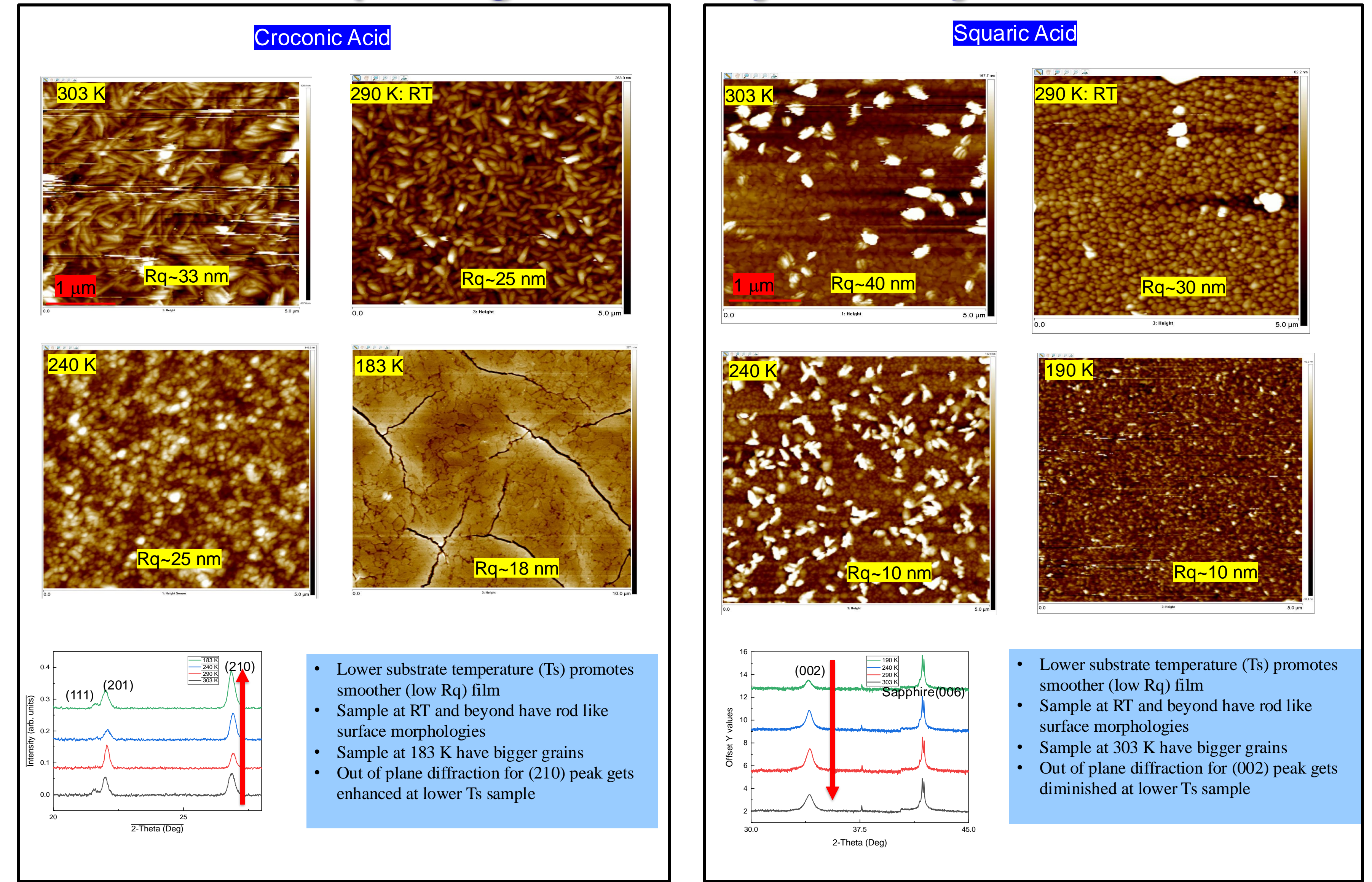
Effect of Annealing on Surface Morphology



Electrical Measurement



Surface Morphologies and Crystallinity at various Ts



Future Directions

- Robust deposition technique with controlled nucleation finds application in generic organic film deposition
- Towards organic spintronics for energy efficient devices
- Organic system are sensitive to light thereby the area of photovoltaic applications seems promising

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