**Ultra high conductivity silver coating for flexible electromagnetic interference shielding and Joule heating thin film.**

# Introduction

1. Need for AR structures
2. **Main Novelty?**

### Application to Solar

# Result and discussion

## Fig.1:

### (a) Glasswing vs glass reflection

#### Two surfaces

### (b) Transmittance spectra

## Fig.2: Reflectance from PV cells

### GaAs, Silicon bare; glass cover on silicon; CdTe (with glass), GW on silicon

## Fig.3 Reflectance spectra for different geometries

### (a) Vs wavelength

### (b) Vs. angle of incidence

#### Incidence available modifier

## Fig. 4 Map

### Locations

## Fig. 5 Annual Energy gains

# Theoretical Paper

## Reflection vs wavelength vs incidence angle

### Just compare standard AR glass to glasswing nanocone AR

## Four different locations

### Pittsburgh: 40.4 degrees North

### Penryn, UK: 50.1 degrees North

### Rockhampton, Australia: 23.4 South

### Chennai, India: 13.1 degrees North

## Annual Tilts

### Assume optimal tilt

### Tilt flat

# Experimental

## Reflection

### vs wavelength

### vs incidence angle

## Reflectance on various structures vs wavelength; vs incidence angle?

### Silicon

#### Bare

#### Glass cover

#### Glass cover with AR

#### Glasswing

### CdTe

### GaAs

## Power conversion efficiency vs incidence angle

## Use data for various geographical locations

# Journals

## Nature Communication: 17.69

# Similar work