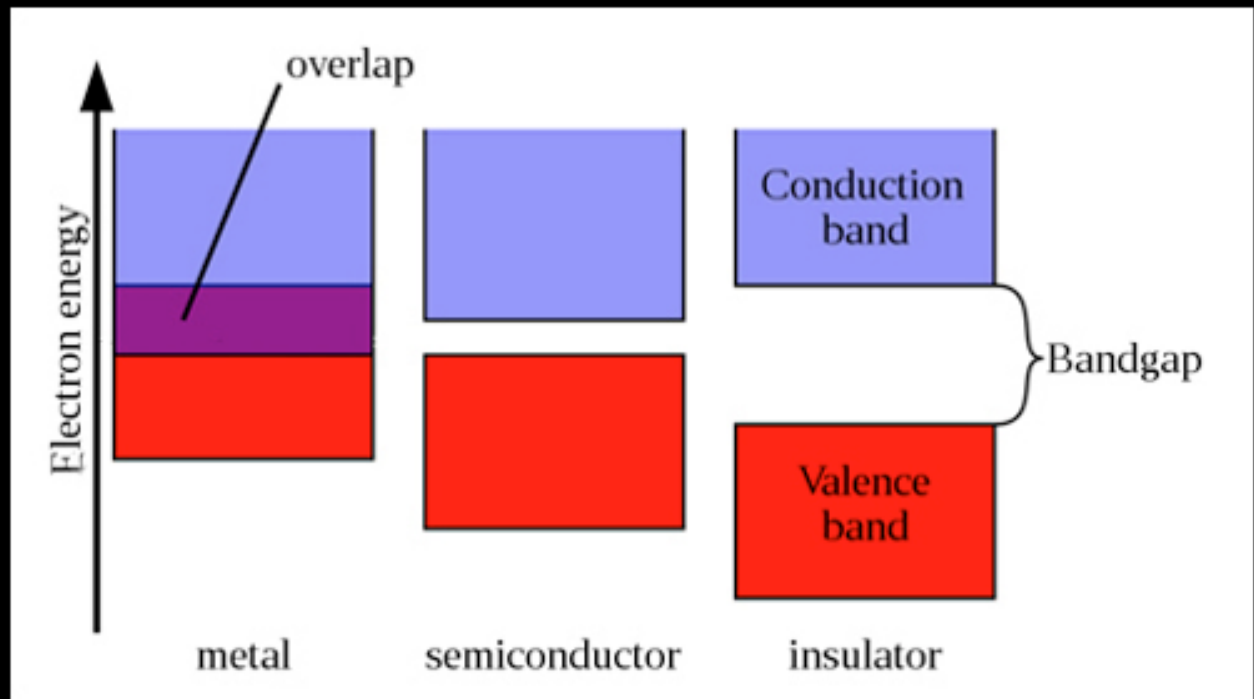


Zinc Oxide and its Photovoltaic Properties for its use in Solar Cells

Presentation by Jill Kozlowski
Researching under Dr. Ian Sellers,
Vince Sidewhite, and Yang

Definitions

- RTA: Rapid Thermal Annealer
 - Crystal Lattice Structure
- Band Gap
- Doping

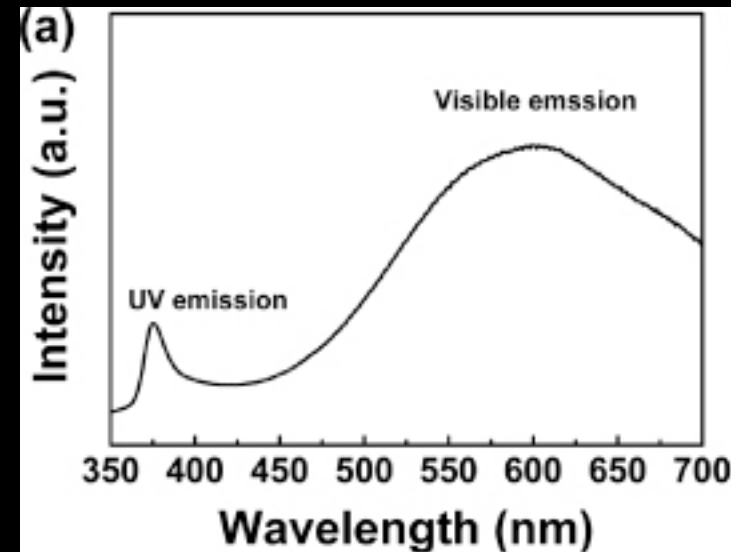


Significance

- Goal is find most efficient solar cell materials
- Practical Applications:
 - Renewable energy in general
 - Buildings, small electronic devices
 - Space Ships

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- 6 ZnO samples, 5 went in the RTA
- Comparison study at 4K
 - Samples not uniform
- Individual temperature dependent studies



Conclusion

- No data analysis yet, but there are a few trends
- Questions?