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Research Interests

My primary research interest is in the field of renewable energy. In particular, I am interested in the research on bio/organic solar cells and supercapacitors. In my opinion, employing new materials can push the limits in solar cells and energy storage devices, beyond to what other technologies can offer. Furthermore, using emerging materials, new devices with special features can be developed to address some of the existing challenges in the application of renewable energy.

Recent Publications

- **Takshi A**, Yaghoubi H, Tevi T, and Bakhshi S (2015). Photoactive Supercapacitors for Solar Energy Harvesting and Storage. *Journal of Power Sources*, vol. 27, pp. 621-626.
- Ebrahimi H, Yaghoubi H, Giammattei F, and **Takshi A**. (2014) Electrochemical Detection of Piezoelectric Effect from Misaligned Zinc Oxide Nanowires Grown on a Flexible Electrode. *Electrochimica Acta*, vol. 134, pp. 435-441.
- Yaghoubi H, Lafalce E, Jun D, Jiang X, Beatty JT, and **Takshi A** (2015). Large Photocurrent Response and External Quantum Efficiency in Biophotoelectrochemical Cells Incorporating Reaction Center Plus Light Harvesting Complexes, *Biomacromolecules*, vol. 16 (4), pp. 1112-1118.
- Tevi T, Yaghoubi H, Wang J, and **Takshi A** (2013). Application of poly (p-phenylene oxide) as blocking layer to reduce self-discharge in supercapacitors, *Journal of Power Sources*, vol. 241, pp. 589-596.
- Tevi T and **Takshi A** (2015). Modeling and Simulation Study of the Self-discharge in Supercapacitors in Presence of a Blocking Layer. *Journal of Power Sources*, vol. 273, pp. 857-862.