

Sustainably Co-locating Agricultural and Photovoltaic Electricity Systems (SCAPES) --- Dr. Paul Mwebaze

Reading list

1. Gomez-Casanovas, N., Mwebaze, P., Khanna, M., Branham, B., Time, A., DeLucia, E. H., Bernacchi, C. J., Knapp, A. K., Hoque, M. J., Du, X., Blanc-Betes, E., Barron-Gafford, G. A., Peng, B., Guan, K., Macknick, J., Miao, R., & Miljkovic, N. (2023). Knowns, uncertainties, and challenges in agrivoltaics to sustainably intensify energy and food production. *Cell Reports Physical Science*, 101518.
<https://doi.org/10.1016/j.xcrp.2023.101518>. [Students are encouraged to read the paper's summary, introduction, land use efficiency, optimizing AV design, Table 1, profitability, Table 2 and future direction sections.]
2. Schweiger, A. H., & Pataczek, L. (2023). How to reconcile renewable energy and agricultural production in a drying world. *PLANTS, PEOPLE, PLANET*, pp. 3.10371.
<https://doi.org/10.1002/ppp3.10371>. [Read through abstract, introduction and economics aspects in sections 4.1-4.2]
3. U.S. Department of Energy. 2021. "The Solar Futures Study." NREL/FS-6A20-80826. National Renewable Energy Lab. (NREL), Golden, CO (United States).
<https://www.osti.gov/biblio/1820105-solar-futures-study>. [Students should read the executive summary only.]