

# Stanford

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## Viswanath Pasumarthi

Postdoctoral Scholar, Photon Science, SLAC

### Bio

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#### HONORS AND AWARDS

- Gandhian Young Technological Innovation (GYTI) Award, Society for Research and Initiatives for Sustainable Technologies and Institutions (2019)

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, S.U.N.Y. State University of New York at Buffalo , Chemical Engineering (2020)
- Master of Technology, Indian Institute of Technology, Guwahati , Chemical Engineering (2014)
- Bachelor of Technology, National Institute of Technology, Calicut , Chemical Engineering (2012)

#### STANFORD ADVISORS

- Thomas Jaramillo, Postdoctoral Faculty Sponsor
- Michal Bajdich, Postdoctoral Research Mentor

#### LINKS

- GitHub: <https://github.com/vpasumarthi/>
- ResearchGate: [https://www.researchgate.net/profile/Viswanath\\_Pasumarthi](https://www.researchgate.net/profile/Viswanath_Pasumarthi)

### Publications

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#### PUBLICATIONS

- **Charge carrier transport dynamics in W/Mo-doped BiVO<sub>4</sub>: first principles-based mesoscale characterization** *JOURNAL OF MATERIALS CHEMISTRY A*  
Pasumarthi, V., Liu, T., Dupuis, M., Li, C.  
2019; 7 (7): 3054–65
- **Bimodal hole transport in bulk BiVO<sub>4</sub> from computation** *JOURNAL OF MATERIALS CHEMISTRY A*  
Liu, T., Pasumarthi, V., LaPorte, C., Feng, Z., Li, Q., Yang, J., Li, C., Dupuis, M.  
2018; 6 (8): 3714–23
- **Multiscale modelling strategies and experimental insights for the solvation of cellulose and hemicellulose in ionic liquids**  
Mohan, M., Viswanath, P., Banerjee, T., Goud, V. V.  
TAYLOR & FRANCIS LTD.2018: 2108–28
- **Interfacial insights on the dibenzo-based crown ether assisted cesium extraction in [BMIM][Tf<sub>2</sub>N]-water binary system** *JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY*  
Biswas, R., Pasumarthi, V., Banerjee, T., Ghosh, P., Ali, S., Joshi, J. M.  
2017; 311 (1): 427–38
- **Self-spinning nanoparticle laden microdroplets for sensing and energy harvesting** *NANOSCALE*

Bhattacharjee, M., Pasumarthi, V., Chaudhuri, J., Singh, A., Nemade, H., Bandyopadhyay, D.  
2016; 8 (11): 6118–28

- **Detection of organic vapours employing droplets having nanoparticles**

Bhattacharjee, M., Pasumarthi, V., Chaudhuri, J., Singh, A., Nemade, H., Bandyopadhyay, D., IEEE  
IEEE.2016: 110–13