

List of Publications

Journals

1. Yadav Anant, **Piyush Choudhary**, Neelam Atri, Sebastian Teir, and Srikanth Mutnuri. "Pilot project at Hazira, India, for capture of carbon dioxide and its bio fixation using microalgae." *Environmental Science and Pollution Research* 23, no. 22 (2016): 22284-22291. [SCI- Accepted & Published]
2. Gulagi, Ashish, **Piyush Choudhary**, Christian Breyer. "Electricity system based on 100% renewable energy for India and SAARC." *PloS One* 12, no. 7 (2017): e0180611. [SCOPUS- Accepted & Published]
3. **Choudhary Piyush**, Rakesh K Srivastava and Somnath De "Integrating Greenhouse gases (GHG) Assessment for Low Carbon Economy Path: Live Case Study of Indian National Oil Company," *Journal of Cleaner Production*, 2018. [SCI and SCOPUS- Accepted & Published]
4. **Choudhary Piyush**, Rakesh K Srivastava and Somnath De 'Techno-Commercial Analysis of an Algal-Solar-Natural Gas based Hybrid System for Indian Oil and Gas Industrial Applications , *Journal of Cleaner Production* [SCI-Second Review]
5. **Choudhary Piyush**, Rakesh K Srivastava and Som Nath Mahendra 'A Review of Developments in Material, Tracker, and Control Techniques of Solar Photovoltaic Technology' *Journal of Green Energy & Environment*. [SCI- Under review]

Conference papers

1. **Choudhary Piyush** and Som Nath Mahendra. "Feedback control and simulation of DC-DC Cuk converter for solar photovoltaic array." In *Electrical, Computer and Electronics Engineering (UPCON), 2016 IEEE Uttar Pradesh Section International Conference on*, pp. 591-596. IEEE, 2016[SCOPUS- Accepted & Published].
2. **Piyush Choudhary** et al 2017 Sustainable Solution for Crude Oil and Natural Gas Separation using Concentrated Solar Power Technology *Materials Science and Engineering* 225 (2017) 012134 doi:10.1088/1757-899X/225/1/012134[SCOPUS-Accepted & Published]
3. **Choudhary Piyush**, Rakesh K Srivastava and Somnath De, "Solar Powered Induction Motor Based Water Pumping System: A Review of Components, Parameters and Control Methodologies" in *Electrical, Computer and*

Electronics Engineering (UPCON), 2017 IEEE Uttar Pradesh Section International Conference. IEEE, 2017[SCOPUS-Accepted & Published].

Workshop / Seminar/ Expert Lecture

1. **Choudhary Piyush** et al., CO₂ from industrial off-gases for algae cultivation, Poster presented at Algae Biomass Summit 2015, September 29 - October 2, Washington, DC
2. Attended International Oil & Gas Conference and Exhibition- The PETROTECH-2016, during 05-07 Dec 2016 at New Delhi.
3. Participated in National Workshop of Solar Rooftop, held during June, 2016, Vigyan Bhawan, New Delhi
4. Attended Next Generation workshop on 'Off-grid renewable energy solutions: in partnership with International Finance Corporation (IFC) and ET CSR, June 2016 in New Delhi.
5. **Choudhary Piyush** et al., Carbon uptake by algae – Explained the results from pilot tests on vent gas sequestration with algae at a gas refinery plant, Algae as Carbon Capturer (CCSP WP6 mini-seminar), Helsinki Finland, 22.4.2015
6. **Piyush Choudhary**, 'Solar Energy & Bio Energy, R&D Projects', attended Finnish-Indo Cleantech Business Seminar, Helsinki, Finland 12.6.2013
7. Regular visit as Expert and deliver lecture(s) on Renewable Energy to fresh recruited graduate trainee of ONGC at ONGC Academy, Dehradun.
8. Participation as a Distinguished Speaker at the Session (CleanTech./Finland, Nov 12, 2013, 1700-1830 hrs.) at the GITA Platform at Hotel Lalit, Barakhamba Road, New Delhi.
9. Expert lecture on 'New Energy Systems: Renewable and Cleaner Energy for Sustainable Development' organized by Petrotech Society India , 2nd July 2013, Delhi
10. Participation as expert during Short Term Course on "Recent Advances in Control and Energy Systems (RACES-2017)" Sponsored by TEQIP-II from 25th Feb – 03rd March, 2017 at Madan Mohan Malaviya University of Technology, Gorakhpur, India