List of Publications

Articles published in journal/book:

- A.K. Patel, N.K. Acharya. Study of Gas Transport Phenomenon in Layered Polymer Nanocomposite Membranes. In: K. Nayak, Smita Mohanty, Lakshmi Unnikrishnan. Trends and Applications in Advanced Polymeric Materials, Scrivener Publishing LLC (2017) 191-206
- A.K. Patel, N.K. Acharya, Metal Coated and Nanofiller Polycarbonate for Hydrogen Transport, International Journal of Hydrogen Energy, 43 (2018) 21675-21682.

Manuscripts under review:

- 1. M. S. Paghdar, **A.K. Patel** and N.K. Acharya, A New Way to Determine Freezing Behavior of Polymer Blends (2018).
- A.K. Patel, N.K. Acharya, Study of CO₂ Plasticization and Selectivity by Pt-Pd Coated Polycarbonate (2018).
- 3. **A.K. Patel**, S.D. Patel and N.K. Acharya, Nanosilica doped blend polymer membrane for gas permeation and separation (2019).

Conference Presentations

- Oral presentation on "Study of Gas Flow across Polymer Nanocomposites Membrane using Sensor" in an International Conference entitled "International program on Application of Nano-Materials in Textile" during 23-25 April 2015 at Department of Textile Engineering, (MSU), Vadodara.
- Oral presentation on "Study of Gas Transport Phenomenon in Layered Polymer Nanocomposite Membrane" in an International Conference entitled "Advancement in Polymeric Materials (APM-2016)" during 12-14 February 2016 at Central Institute of Plastic Engineering and Technology (CIPET), Ahmedabad.
- 3. Oral presentation on "Effect of Nanocoating on Mass Transport for Polymer Membrane" in a National Conference entitled "Recent Scenario in Science and Technology (RSST-2016)" during 27th February 2016 at Faculty of Technology and Engineering (MSU), Vadodara.
- Poster presentation on "Metal Coated and Nanofiller Polycarbonate Membrane for Hydrogen Transport" in a National Conference entitled "Recent Trends on Membranes and Separation Technology (RTMST 2017)" during 22-23 November 2017 at CSIR-CSMCRI, Bhavnagar.
- Poster presentation on "Gas permeation through polymer blends and blend composite membranes" in an International Conference entitled "The 6th IWA-Regional Membrane Technology Conference (IWA-RMTC 2018)" during 10-12 December 2018 at Faculty of Technology and Engineering (MSU), Vadodara.
- Poster presentation on "Nanocomposite Thermally Rearranged (TR) HAB-6FDA Membranes for Gas Separation" in a National Conference entitled "Indo-German Bilateral Workshop on Membranes for Water and Energy" during 18-20 February 2019 at CSIR-CSMCRI, Bhavnagar.