

Publications Based on the Thesis

■ Refereed International Journals

1. P. K Najeeb and U. Kadhane, Relative stability of naphthalene, quinoline and isoquinoline under high energy electron impact, *International Journal of Mass Spectroscopy* **414**, 23-30 (2017).
2. P. K Najeeb and U. Kadhane, Delayed extraction time-of-flight mass spectrometer with electron impact for PAH studies, *Journal of Instrumentation* **12**, 03009 (2017).
3. P. K. Najeeb, T Sairam, M. V Vinitha, Sarita Vig, Anudit Kala, U. Kadhane, Pragya Bhat and C. P Safvan, Exploring metastable decay dynamics of polycyclic aromatic nitrogen containing hydrocarbons upon HCN evaporation, *Journal of Physics Conference Series* **875**, 2004 (2017).
4. P. K. Najeeb, M. V Vinitha, Sarita Vig, Anudit Kala, U. Kadhane, Pragya Bhat and C. P Safvan, Structural effects on naphthalene and its derivative in collision with fast electrons and protons, (*Under review, Physical Review A (Ref. No. AN11343)*).
5. P. K. Najeeb, M. J. Anitha and U. Kadhane, High voltage fast MOSFET switch for electro-optical applications, (*To be submitted*).
6. P. K. Najeeb and U. Kadhane, Performance of an electron impact ionisation (e,2e) experimental setup for electron-ion coincidence measurement of large molecules, (*Under preparation*).

■ Conference Presentations

1. P. K. Najeeb, U. Kadhane, Design and construction of experimental set-up to study electron impact ionization (e,2e) processes in large molecules by using coincidence method, *20th National conference on atomic and molecular physics (NCAMP-XX), IIST, Thiruvananthapuram, India, 9-12 December 2014.*

2. P. K. Najeeb, U. Kadhane, Energetics of Electron Impact Excitation of PAH's (Polyaromatic Hydrocarbons), *International symposium on "Global Human Resource Program Bridging across Physics and Chemistry"*, TMU, Tokyo, Japan, 29th January 2016.
3. P. K. Najeeb, U. Kadhane, Developments of electron-ion coincidence set-up for e, 2e process measurements, 21st National conference on atomic and molecular physics (NCAMP-XXI), PRL, Ahmedabad, India, 03-06 January 2017.
4. P. K. Najeeb, U. Kadhane, Relative stability of naphthalene, quinoline and isoquinoline under high-energy electron impact, 21st National conference on atomic and molecular physics (NCAMP-XXI), PRL, Ahmedabad, India, 03-06 January 2017.
5. P. K. Najeeb, U. Kadhane, Structural studies of large molecule under electron impact with delayed extraction time-of-flight mass spectrometry, 29th Kerala Science Congress, Mar Thoma College, Thiruvalla, Kerala, India, 28-30 January 2017.
6. P. K. Najeeb, T. Sairam, M. V Vinitha, Sarita Vig, Anudit Kala, U. Kadhane, Pragya Bhat and C. P Safvan, Exploring metastable decay dynamics of polycyclic aromatic nitrogen-containing hydrocarbons upon HCN evaporation, 30th International Conference on Photonic Electronic and Atomic Collisions (ICPEAC-XXX), Cairns, Australia, 26 July - 1 August 2017.
7. P. K. Najeeb, U. Kadhane, Electron-ion coincidence set-up for large molecule spectroscopy, 19th International Symposium on Polarisation and Correlation in Electronic and Atomic Collisions (e, 2e), Palmcove, Australia, 1-4 August 2017.
8. P. K. Najeeb, U. Kadhane, Stability of polycyclic aromatic hydrocarbons and polycyclic nitrogen heterocycles under electron impact, 19th International Symposium on Polarization and Correlation in Electronic and Atomic Collisions (e, 2e), Palmcove, Australia, 1-4 August 2017.