

## Curriculum Vitae

### Permanent address

No.18  
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### Communication details

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### Ms.SaranyaAshokkumar

D.O.B : 20/04/ 1989  
Nationality: Indian  
Gender : Female  
Blood group: A<sub>1</sub>+  
Marital status: Married



## Academics

Ph.D in Catalysis Chemistry  
M.Sc., in Chemistry (79%)  
B.Sc., in Chemistry (81 %)

A.V.C.College, Mannampandal, (2013-2019)  
T.B.M.L.College, Porayar (2009-2011)  
T.B.M.L.College, Porayar (2006-2009)

Project Associate under the guidance of **Prof.B.Viswanathan & K.R.Krishnamurthy**, National Centre for Catalysis Research,IIT-Madras,Chennai-36.Title: Solar fuels by photo electro catalytic reduction of carbon dioxide to hydrocarbons.(April 2019-Septemper 2019)

**Ph.D :** Application of metal nanoparticles for selective hydrogenation reactions:Studies on Pd Co and Ni based mono and bimetallic catalysts.(July 2013-April 2019) Ph.D in Catalysis Chemistry, under the supervision of **Prof. G. Vivekanandan**, A.V.C.College, Mannampandal-609 305 Mayiladuthurai.

**Project Associate:** Anchoring of stabilized cobalt nanoparticles on metal oxide support (march 2012-June 2013) under the guidance of **Prof.B.Viswanathan &K.R.Krishnamurthy**, National Centre for Catalysis Research,IIT-Madras,Chennai-36.

**M.Sc Thesis :** Conversion of Light Naphtha to special Boiling Point Spirit (SBP)-Value Added Product under the guidance of **Dr.P.Martin Deva prasath**, T.B.M.L.College, Porayar-609 307.

## Publications

1. Bimetallic Co-Ni/TiO<sub>2</sub> catalysts for selective hydrogenation of cinnamaldehyde  
**Saranya Ashokkumar**, Vivekanandan Ganesan, Krishnamurthy K. Ramaswamy and Viswanathan Balasubramanian, **Research on Chemical Intermediates** **44(2018) 6703**.
2. Studies on palladium based bimetallic catalysts-Pd-M/TiO<sub>2</sub> (M=Cu, Ag & Au): Selective hydrogenation of 1-heptyne  
**A Saranya**, G Vivekanandan, K Thirunavukkarasu, K R Krishnamurthy & B Viswanathan, **Indian Journal of Chemistry Sec A**,**58A(2019)271-280**.

## Honors and awards

- Overall School 1<sup>st</sup> rank holder during High school.
- Gold medalist in undergraduate and postgraduate(University Rank Holder)

## Oral and Posters presented in Conferences

Selective hydrogenation of 1-heptyne on Pd-Au Bimetallic nanoparticles supported on Titania, **22nd National Symposium on Catalysis**, CSIR-Central Salt & Marine Chemicals Research Institute, Bhavnagar, Gujarat, January 7-9, 2015 (Oral)

Partial hydrogenation of 1-heptyne over bimetallic Pd-Au catalyst-Influence of catalyst preparation method, **10th Mid-Year Chemical Research Society of India (CRSI) Symposium** in chemistry, NIT-Trichy, July 23-25, 2015. (Poster)

Selective hydrogenation of cinnamaldehyde over Co-Ni bimetallic catalysts, **Royal Society for Chemistry-NIT Symposium**, NIT-Trichy, Nov-5, 2016(Poster)

Palladium based bimetallic catalysts (Pd-M, M=Cu, Ag & Au)for selective hydrogenation of 1-heptyne, **7th Asia-Pacific Congress on Catalysis (APCAT-7)**, The Lalit Mumbai, Mumbai, January 17-21, 2017(Oral)

Ni-Co bimetallic catalysts for selective hydrogenation of cinnamaldehyde, **23rd National Symposium on**

## Scientific Packages Known

- Chemcraft
- ChemDraw

## References

1. **Prof. B.Viswanathan**,  
Chair Professor,  
National Centre for Catalysis Research,  
Indian Institute of Technology Madras,  
Chennai -600 036.  
E-mail: [bviswanathan@gmail.com](mailto:bviswanathan@gmail.com)
2. **Prof. K.R.Krishnamurthy**  
Chair Professor,  
National Centre for Catalysis Research,  
Indian Institute of Technology Madras,  
Chennai-600036.  
E-mail:[krkonda1949@gmail.com](mailto:krkonda1949@gmail.com)

**3. Prof. G. Vivekanandan,**  
Associate Professor &Head  
Department of Chemistry  
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I declare that the information furnished here is true to the best of my knowledge and belief.

A.saranya