

Dr Akshat Tanksale

Work Experience

- 01/2015 – Current: **Senior Lecturer** (Academic Level C)
Department of Chemical Engineering, Monash University
Teaching (40%), Research (40%), Administration (20%) – Director of Graduate Research

Research Supervision

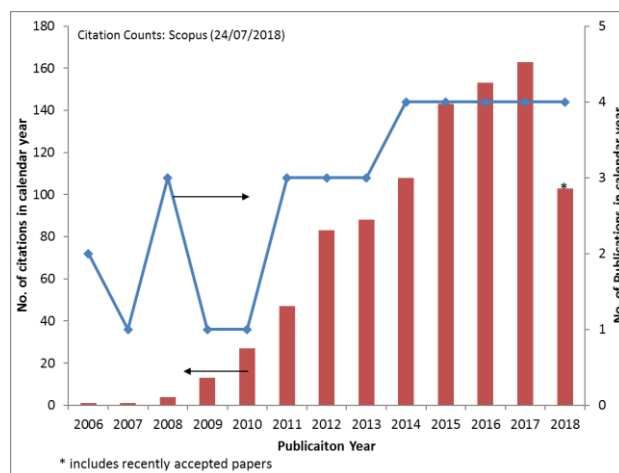
- Supervised 5 PhD students and 1 Research Masters student from commencement to completion
- Currently 1 PhD students are under examination
- Currently supervising 8 PhD students

Selected Awards

- Selected by the Australian Academy of Science for **2012 Theo Murphy High Flyers Think Tank**
- Selected by the Australian Academy of Technological Sciences and Engineering (ATSE) for the **2010 Australia-Japan Emerging Research Leaders Exchange Program**
- Selected by ATSE for the **2010 Australia-India Science and Technology Award** (sole Australian) to visit National Chemical Laboratories, Pune, India for a period of up to 12 weeks

Research Impact

- **Peer Reviewed Papers** = 38
- **Peer Reviewed Papers** (without PhD supervisor) = 23
- **Invited Oral Presentations at International Conferences** = 7, including 1 Keynote Talk
- **Citations** = 936, with h-index = 15 (Scopus, 23/07/2018)



Qualifications

2008: PhD in Chemical Engineering, University of Queensland, Brisbane Australia. **Dean's Award for Outstanding Research Higher Degree Thesis** from the office of Dean, UQ Graduate School

Patent Applications

1. A. Tanksale and F.L. Chan, Dimethoxymethane production via direct hydrogenation, Australian Provisional Patent, 2018, PCT/AU2018/050746
2. A. Tanksale, Y. Shastri, P. Gholkar, Catalytic conversion of microalgae into hydrogen rich syngas using reactive flash volatilization, Indian Provisional Patent, 2017, Application Number 201721042669
3. A. Tanksale, Y. Shastri, P. Gholkar, Catalytic conversion of microalgae into methane rich syngas using reactive flash volatilization, Indian Provisional Patent, 2017, Application Number 201721042668
4. A. Tanksale, A. Hoadley, A.M.Bahmanpour, Method and System for Direct Conversion to Formaldehyde, Australian Provisional Patent, 2013, Application number 2013902445

Selected Publications

Journal Publications (* senior /corresponding author)

1. F.L. Chan, G. Altinkaya, N. Fung, **A. Tanksale***, Low temperature hydrogenation of carbon dioxide into formaldehyde in liquid media, *Catalysis Today*, 2017, Article in Press, DOI: 10.1016/j.cattod.2017.06.012. [*IF = 4.636, ranked 6/72 (Applied Chemistry)*]
2. A.M. Bahmanpour, A. Hoadley, S. Mushrif **A. Tanksale***, Hydrogenation of Carbon Monoxide into Formaldehyde in Liquid Media, *ACS Sustainable Chemistry and Engineering*, 2016, 4(7), 3970-3977. [*Cited 7 times, IF = 5.267, ranked 9/135 (Chemical Engineering), 4/29 (Green & Sustainable Science & Technology)*]
3. F.L. Chan, **A. Tanksale***, Catalytic Steam Gasification of Pinewood and Eucalyptus Sawdust Using Reactive Flash Volatilization, *Applied Catalysis B: Environmental*, 2016, Volume 187, Pages 310-327 [*Cited 8 times, IF = 8.328, ranked 1/50 (Environmental Engineering), 3/135 (Chemical Engineering)*]
4. A.M. Bahmanpour, A. Hoadley, **A. Tanksale***, Formaldehyde Production via Hydrogenation of Carbon Monoxide in Aqueous Phase, *Green Chemistry*, 2015, 17 (6), 3500 – 3507 [*Cited 10 times, IF = 6.852, ranked 1/29 (Green & Sustainable Science & Technology), 16/163 (Multidisciplinary Chemistry)*]
5. **A. Tanksale**, J. N. Beltramini, J. A. Dumesic, G. Q. Lu, “Effect of Pt and Pd Promoter on Ni Supported Catalysts - A TPR/TPO/TPD and Microcalorimetry Study”, *Journal of Catalysis*, 2008, 258, 366-377 . [*Cited 100 times, IF = 7.354, Ranked 4/135 (Chemical Engineering)*]

Selected Grants

Total grants attracted: AU\$5 million

Chief Investigators	Project Title	Grant Scheme	Amount AU\$('000)
Akshat Tanksale , Alan Chaffee, Samir Mushrif, Andrew Hoadley, Jinghua Guo	A Novel Method for High Purity Formaldehyde Production from Carbon Oxides, 2017 – 2019	ARC Discovery	388
Gil Garnier, Warren Batchelor, George Simon, Akshat Tanksale , Sankar Bhattacharya, Kei Saito, Wei Shen, Prof; Bradley Ladewig, Antonio Patti, Warwick Raverty, Anthony Mackay, Thomas Clark, Tristen Branson, Joseph Tascone, Jacob Chretien,	ARC Research Hub for BioProcessing Advanced Manufacturing, 2014 - 2017	ARC Industry Transformation Research Hub	1633
Akshat Tanksale , Gil Garnier, Victoria Haritos	Overcoming current barriers in lignocellulosic advanced biofuels production through a combination of biological and chemical catalysis, 2014 – 2015	CSIRO Flagship Collaboration Fund	200
Mainak Majumder, Akshat Tanksale	Modular Bench Scale Graphene Making Facility, 2014 – 2015	Strategic Energy Resources industry grant	381