



Mark SAEYS

Curriculum Vitae

Laboratory for Chemical Technology
Ghent University
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Positions Held

1998	Visiting scientist at the University of Virginia with Prof. M. Neurock
2003	Visiting scientist at the MIT with Prof. W. H. Green, Jr.
2003-2012	Assistant professor, NUS (the tenure cycle at NUS is 9 years)
2013-2014	Associate professor, NUS
2014-present	Odysseus full professor (hoogleraar), Ghent University
2005-2014	Adjunct appointment at the Institute for Materials Research and Engineering, Singapore
2006-2014	Singapore-MIT Alliance (SMA) Fellow
2006-2014	Associate Director for Academic Affairs, SMA-CPE program
2007-2011	Visiting professor of chemical engineering, MIT

Academic Qualifications

1995	Kandidaat Burgerlijk Ingenieur (BS Engineering), Ghent University, Belgium
1998	Burgerlijk Scheikundig Ingenieur (MS Chemical Engineering), Ghent University
2002	Ph.D. in Chemical Engineering, Ghent University

Honors and Awards

2002	ExxonMobil Chemical Benelux Award
2003	R. A. Glenn Award, American Chemical Society
2013	Odysseus Group I Award, FWO Flanders

Selected Research Funding

2016	IOF hefboom financiering CO ₂ conversion, € 55,000.
2015	H2020-Spire. Adrem. Adaptable Reactors for Resource and Energy Efficient Methane Valorisation, € 6M.
2013	Type I Odysseus Programme. Modelling-guided Design of Selective Catalytic Processes, € 2,479,000, FWO Vlaanderen, PI
2013	CO ₂ Utilization by Catalytic Hydrogenation with Solar Hydrogen: from Molecules to Reactors, National University of Singapore, S\$38,000, PI

2012 Investigation of constrained polyphosphane ligands effects on challenging C–C and C–O bond formations: a theoretical and experimental approach, French Embassy Singapore, S\$60,000, PI
2012 Modeling Atmospheric Chemistry and Stratospheric Pollution, European Aeronautic Defence and Space Company, S\$107,000 and 1 PhD student (in-kind), PI
2012 Development of a Roadmap for Carbon Capture and Storage/Utilization, S\$93,000, Author
2012 Materials Design for CO₂ Capture and Conversion to Fuels and Petrochemicals, S\$569,000, co-PI
2011 Computational study of Fischer-Tropsch Synthesis on Cobalt catalysts, Stichting Shell Research, Euro 240,000, PI
2011 AtMol, European Framework 7 program, Euro 10 Million, collaborator through IMRE

Graduated Students

Jing XU, **Ph.D. 2008**. Present: Associate Professor, State Key Laboratory of Chemical Engineering, East China University of Science and Technology, China
Won Keon HONG, **M.Eng. 2009**. Present: Process engineer, GE Tech, Singapore
Wenjie SUN, **Ph.D. 2011**. Present: Postdoctoral Fellow, Genome Institute of Singapore, A-Star, Singapore
Kong Fei TAN, **Ph.D. 2011**. Present: Process engineer, Prosep Asia Pacific
Mingkun ZHUO, **Ph.D. 2013**. Present: Lecturer at Republic Polytechnic
Gavin CHUA, **Ph.D. 2013** Present: Senior Officer, A-Star Joint Council
Ravi TIWARI, **Ph.D. 2013** Present: Research Fellow, Institute for High Performance Computing, Singapore
Quang Thang TRINH, **PhD 2014**, Present: Research Fellow, Nanyang Technological University
Arghya BANERJEE, **PhD 2015**, Present: Research Fellow, Nanyang Technological University

Service

As the Associate Director for Academic Affairs of the Chemical and Pharmaceutical Engineering Program of the Singapore-MIT Alliance, I am responsible for student recruitment and for developing and organizing the innovative Dual Masters curriculum between NUS and MIT.

Session chair, Computation method and fundamental theory of catalysis, ICC Seoul, 2008
Organizer, Architecture & Design of Molecule Logic Gates and Atom Circuits workshop, Barcelona, 2012
Session chair, computational catalysis, NAM 2013
Organiser, ACS Symposium “Clusters in Catalysis”, ACS March 2014
Organiser, 7th Singapore Catalysis Forum, May 2014
Guest editor, Special issue on Catalytic materials and catalysis for low carbon technology, Catalysis Today, Sept 2014.
Organiser, ACS Symposium “Fischer-Tropsch Catalysis – from fundamentals to industrial practice”, ACS March 2016
Member, working group “Renewable Carbon”, Royal Flemish Academy of Belgium, 2015
Session chair, CCU - Closing the carbon loop: Carbon dioxide Capture and Utilisation, Brussels Sustainable Development Summit, 2015