

Urban and GreenTech - Carbon Utilization/Conversion

No.	A*STAR Supervisor's Name	University Supervisor's Name	Project Title
1	Dr. Chen Luwei A*STAR, Institute Of Chemical And Engineering Sciences	Associate/Prof Sibudjing Kawi National University of Singapore	Simultaneous Capture & Utilization of CO2 from Flue Gas to Syngas via Integrated Catalysis-Membrane Process
2	Dr. Zhang Yugen A*STAR, Institute of Bioengineering and Nanotechnology	Prof. Xie Jianping, Prof. Yan Ning, Prof. Li Zhi National University of Singapore	Breathing Poly-MOF/COFs Capture CO2 and Convert to Construction Materials and Commodity Chemicals
3	Dr Low Sze Choong Jonathan, Dr Ng Yen Ting, A*STAR, Singapore Institute of Manufacturing Technology Dr. Hippalgaonkar Kedar A*STAR, Institute of Materials Research and Engineering	Assistant/Prof Wang Xiaonan National University of Singapore	Renewable CO2-based Chemical Production

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4	Dr. Zhang Yugen A*STAR, Institute of Bioengineering and Nanotechnology	Associate/Prof Jiang Jianwen National University of Singapore	Molecular Design of Metal-Organic Frameworks for CO2 Conversion
5	Dr. Alexander Genest A*STAR, Institute of High Performance Computing	Assistant/Prof Sergey KOZLOV National University of Singapore	Novel catalysts for CO2 conversion to methanol
6	Dr. Tan Teck Leong A*STAR, Institute of High Performance Computing	Assistant/Prof Sergey KOZLOV National University of Singapore	Single-atom alloy catalysts for selective CO2 conversion
7	Dr Armando Borgna A*STAR, Institute Of Chemical And Engineering Sciences	Associate/Prof Sibudjing Kawi National University of Singapore	CO2 hydrogenation to liquid fuels / chemicals at ambient condition using plasma-catalysis-membrane system

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8	Dr. Zhang Yugen A*STAR, Institute of Bioengineering and Nanotechnology	Associate/Prof Li Zhi National University of Singapore	Methanol production from CO ₂ catalysed by formate dehydrogenase with cofactor recycling
9	Dr. Zhang Yugen A*STAR, Institute of Bioengineering and Nanotechnology	Associate/Prof Li Zhi National University of Singapore	Enzymatic synthesis of valuable chemicals from CO ₂
10		Prof Liu Xiaogang National University of Singapore	Transition-Metal Catalyzed C-H Carboxylation by Sustainable Utilization of Carbon Dioxide
11	Dr. Shermin Goh A*STAR, Institute of Materials Research and Engineering	Associate/Prof. Jason Yeo National University of Singapore	Converting Carbon Dioxide to Materials with Electricity

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12	Dr. Shermin Goh A*STAR, Institute of Materials Research and Engineering	Associate/Prof. Jason Yeo National University of Singapore	Versatile Polymers from Carbon Dioxide
13	Dr Alex M. van Herk A*STAR, Institute Of Chemical And Engineering Sciences	Associate/Prof. Ling Xing Yi Nanyang Technological University	Using Plasmonic Platforms to Convert CO2 to Sustainable Chemicals
14	Dr. Jason Lim A*STAR, Institute of Materials Research and Engineering	Associate/Profs GOTO Atsushi and ZHAO Yanli Nanyang Technological University	Synthesis of Functional Polymers from Carbon Dioxide as a C1 Feedstock
15	Dr. Bu Jie A*STAR, Institute Of Chemical And Engineering Sciences	Prof Iftekhar Abubakar KARIMI National University of Singapore SUTD Prof. Lynette Cheah Singapore University of Technology and Design	Development of Techno-Economic Assessment Framework for the Evaluation and Implementation of Green and Sustainable Technologies in Urban Environments