

Paper 130: M.M. Hasan, M.G. Rasul, R. Wessling and M.B. Uddin (2025), Hydrogen recovery from waste plastics derived syngas via pyrolysis and palladium membrane separation.

Presenter:

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MOHAMMAD RASUL obtained his PhD from The University of Queensland (Australia). Currently, he is a Professor of Mechanical Engineering at the School of Engineering and Technology, Central Queensland University, Australia. He is the recipient of Vice-Chancellor and Dean's awards for outstanding researchers in the excellence in research category, and awards for higher degree by research supervision, good practice in learning and teaching, and 2024 & 2025 Engineering and Technology in Australia leader award.

Professor Rasul is specialised in clean energy. He has over 20 years of research experience in clean energy including pyrolysis, waste-to-energy, hydrogen, biofuels and energy and emission analysis for sustainable development. He has made significant contributions in research with over 550 publications, >23,500 citations and H-Index of 75. He has secured over \$7M research grants, supervised 41 Research Higher Degree (PhD/Masters) students to completion. He is in the top 2% researchers and number 5 among the highly ranked scholars in the world in Biofuels/Biodiesel research which is within top 0.05% researchers in this area. He is best scientist in the world standing at 1541 in world ranking and 91 in the country (Australia) ranking in the field of Engineering and Technology. He is ranked 815 out of 313,936 (0.26%) researchers in the ENERGY sub-category in the world.

He is recognised, both nationally and internationally, through his varied roles and activities, for example, editor of the Australian Journal of Mechanical Engineering, section editor of Encyclopedia of Renewable Energy, Sustainability and The Environment (Elsevier), editorial board member of several journals and technical and scientific committee member of a couple of dozen conferences. He frequently creates attention of media and community engagement through his expert opinion and interview by different media, such as ABC 7 TV, ABC 7 News, ABC Tropical North, ABC Capricornia FM, Morning Bulletin and News Mail.