



HSIAO-KANG MA

Professor Ma is Professor of Mechanical Engineering and a Researcher of Research Center of Climate Change and Sustainable Development at National Taiwan University since 1987. Now he is the Board Member and Asia Liaison of Semiconductor Thermal Measurement, Modeling and Management Symposium, the Board Member of Experts Meeting on Solid Waste Management in Asia and Pacific Islands, Chairman of Taiwan Carbon Capture Storage and Utilization Association(TCCSUA), Committee Member of Environment Impact Assessment(EIA) of Taiwan EPA, and Board member of Ho-Pin Power Company. His research is directed to energy systems and the associated environmental impacts with activity ranging from combustion (boilers, furnaces, and incinerators) to advanced energy systems (Hybrid PEM fuel cell electrical car, micro-pump, and rotary engine). His current research encompasses the development and application to model combustors, combustion synthesis of $\text{SiO}_2/\text{SiC}/\text{TiO}_2$ nano-particles, micro-diaphragm pump with piezoelectric device, micro-valve, micro-diaphragm flow channel with piezoelectric effect in PEMFCs/SOFCs, e-waste recycling/recovery, and energy/environment policy. Research by Professor Ma has been documented in over 250 publications. He is also a specialist on the combustion/heat transfer/energy/environment areas in Taiwan. He was the Board Member of the Steering Committee International Electronics Recycling Congress in Switzerland in 2008-2017. He was the Board Member of Taiwan Power Company in Taiwan in 2009-2017. He was Chairman of Chinese Boiler Association in Taiwan in 2008-2010, President of Chinese Taipei Section of the Combustion Institute in 2008-2010, CEO of Institute of Environment and Resources (Taiwan) in 1998-2000, board member of TMMC, CTCI in 1990s and was chairman of Foundation for Obsolete appliance Recycling and Management (Taiwan) in 1997-98. And, he was Research Engineer of Energy and Environmental Research Co. (Irvine, USA) in 1985-87. He received the Ph.D. degree in Mechanical Engineering from the University of Illinois, USA.