Work-in-Progress Poster Program	
Paper ID	Topic Authors
P0101	Theoretical investigation for reaction mechanism of Al/CO/O ₂ system Nozomu Yonetani, Tatsuo Oguchi
P0201	Preparation of nano-thermite by aluminum nanoparticles containing triphenylphosphine protective layer You-Chi Jian, Wan-Lien Hsu, Chao-Wei Huang, Ming-Hsun Wu
P0301	Development of a TDLAS system for quantifying CO ₂ concentration in flue gas Chun-Wei Wu, Bao-Wen Chang, Ming-Hsun Wu
P0302	Mid-infrared interband cascade laser sensor for temperature and CO concentration measurement in laminar premixed flames using heterodyne phase-sensitive dispersion spectroscopy Weitian Wang, Zihao Song, Zhenhai Wang, Ning Zhu, Xing Chao
P0303	Sorting and decontamination of e-waste plastics Pallab Das, Jong-Min Lee
P0401	Study of DC electric field on flame behavior and emission with hydrogen and methane fuel in co flow non premixed flame Byeong Hun Seok, Jun Seok Kim, Sung Hwan Yoon, Jungho Whang, Dae Geun Park
P0402	Experimental and theoretical study of critical laminar burning velocity on the destabilization of ammonia planar flames propagating downwards in tubes transitioning to parametric instability Jerric R. Delfin, Feng Guo, Osamu Fujita
P0501	Investigation of flame-vortex interaction and combustion noise in a backward-facing-step burner Ji Hun Yeo, Nam Il Kim, Hui Man Yang
P0701	Numerical study of a high-pressure hydrogen tank burst at different heights from the ground and its hazards on humans Dinesh Myilsamy, Paulo Cardozo Soares Amaral, Chang Bo Oh

Work-in-Progress Poster Program	
Paper ID	Topic Authors
P0801	The combustion process of a single wood pellet under convective oxy-fuel atmospheres with steam addition Hsien-Tsung Lin, Guan-Bang Chen, Yei-Chin Chao
P0802	Experimental study of coal/ammonia co-firing using bench-scale furnace system Taeyoung Chae, Won Yang, Jaewook Lee, Kyoungil Park
P0901	Relationship between mixing ratio and flame spread rate of cellulose/polypropylene composites Takuya Yamazaki, Taisuke Kawasaki, Koki Matsumoto, Daiki Matsugi, Tsuneyoshi Matsuoka, Yuji Nakamura
P0902	Experimental observations of downward flame spread along thin wire in various gravity fields using a centrifuge Yusuke Konno, Shoryu Ishikawa, Nozomu Hashimoto, Osamu Fujita
P1001	Fluidized properties of a mixture of basic oxygen furnace slag with iron ore in a fluidized-bed chemical looping system Cetera Chen, Seng-Rung Wu, Heng-Wen Hsu
P1002	Parametric study of radiant tube burner by CFD modeling Chien-Shun Lin, Chien-Chou Tseng, Ming-Hsun Wu
P1003	Effects of unburned gas humidification on flashback, NOx emission, and thermal efficiency in boilers with hydrogen premixed flame burners <i>Hui Man Yang, Nam Il Kim, Ji Hun Yeo</i>
P1004	Numerical simulation of ammonia combustion in a 760kW combustion furnace Kenji Tanno, Hiroaki Watanabe, Takayuki Nishiie, Kazuki Tainaka, Hiroyuki Nishida, Maromu Otaka, Masayoshi Kimoto

Work-in-Progress Poster Program	
Paper ID	Topic Authors
P1006	CO ₂ emissions of combustion in plastic-IPGCC and plastic-IGCC Beom-hui Lee, Seong-kyun Im
P1007	Study on the reforming of carbon dioxide/methane mixture with waste heat recovery Wei-Cheng Chiu, You-Ming Chang, Cheng-You Wu, Cheng-Hsun Liao, Chun-Yi Kuo, Shuhn-Shyurng Hou
P1008	Numerical simulation of CH ₄ /H ₂ combustion in an industrial pilot scale heating furnace Zong-Yu Pan, Fang-Hsien Wu, Guan-Bang Chen, Ming-Hsun Wu, Ta-Hui Lin
P1009	Data-driven model for NOx emission control of a rod-mill furnace Weidong Hsieh, Tingshuo Chen, Weiyu Chen, Yihsien Lin
P1201	Design of a high-pressure spray combustion test rig for gas turbine combustors Qi-Wei Zeng, Chen-Yu Lien, Ming-Hsun Wu
P1202	Combustion instability characteristics with pilot burner operating condition in fractal grid low-swirl multi-nozzle combustor Jinseong Kim, Jihwan Ahn, Keeman Lee
P1203	Development of a finite volume Helmholtz equation solver for a large-scale combustion instability problems Namsu Kim, Young Tae Guahk, Changbog Ko, Taesong Lee
P1204	Linear burn rate of SHP163 gel propellant Yu-Jia Chen, I-You Tsai, Ming-Hsun Wu
P1301	Electrolytic decomposition of HAN-based propellants under elevated pressures Yu-Ting Chou, Guo-Zheng Yang, Ming-Hsun Wu
P1302	Catalytic decomposition of HAN-based monopropellants with hexaaluminates Kuan-Io Lao, Yan-Ze Song, Ming-Hsun Wu