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ID	Title	Authors	Time	Room
P0101	Theoretical investigation for reaction mechanism of Al/CO/O ₂ system	Nozomu Yonetani, Tatsuo Oguchi	18th May 09:15-10:00	Poster Area
P0201	Preparation of nano-thermite by aluminum nanoparticles containing triphenylphosphine protective layer	You-Chi Jian, Wan-Lien Hsu, Chao-Wei Huang, Ming-Hsun Wu, Chia-Ting Lin	18th May 09:15-10:00	Poster Area
P0301	Development of a TDLAS system for quantifying CO ₂ concentration in combustion gas	Chun-Wei Wu, Bao-Wen Chang, Ming-Hsun Wu	18th May 09:15-10:00	Poster Area
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	18th May 09:15-10:00	Poster Area
P0303	Sorting and decontamination of e-waste plastics	Pallab Das, Jong-Min Lee	18th May 09:15-10:00	Poster Area
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	18th May 09:15-10:00	Poster Area
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	18th May 09:15-10:00	Poster Area
P0501	Investigation of flame-vortex interaction and combustion noise in a backward-facing-step burner	Ji Hun Yeo, Nam Il Kim, Hui Man Yang	18th May 09:15-10:00	Poster Area
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	18th May 09:15-10:00	Poster Area
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	18th May 09:15-10:00	Poster Area
P0802	Experimental study of coal/ammonia co-firing using bench-scale furnace system	Taeyoung Chae, Won Yang, Jaewook Lee, Kyoungil Park	18th May 09:15-10:00	Poster Area
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	18th May 09:15-10:00	Poster Area

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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	18th May 09:15-10:00	Poster Area
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	18th May 09:15-10:00	Poster Area
P1002	Parametric study of radiant tube burner by CFD modeling	Chien-Shun Lin, Chien-Chou Tseng, Ming-Hsun Wu	18th May 09:15-10:00	Poster Area
P1003	Effects of unburned gas humidification on flashback, NOx emission, and thermal efficiency in boilers with hydrogen premixed flame burners	Hui Man Yang, Nam Il Kim, Ji Hun Yeo	18th May 09:15-10:00	Poster Area
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	18th May 09:15-10:00	Poster Area
P1006	CO ₂ emissions of combustion in plastic-IPGCC and plastic-IGCC	Beom-Hui Lee, Seong-Kyun Im	18th May 09:15-10:00	Poster Area
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	18th May 09:15-10:00	Poster Area
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	18th May 09:15-10:00	Poster Area
P1009	Data-driven model for NOx emission control of a rod-mill furnace	Weidong Hsieh, Tingshuo Chen, Weiyu Chen, Yihsien	18th May 09:15-10:00	Poster Area
P1201	Design of a high-pressure spray combustion test rig for gas turbine combustors	Qi-Wei Zeng, Chen-Yu Lien, Ming-Hsun Wu	18th May 09:15-10:00	Poster Area
P1202	Combustion instability characteristics with pilot burner operating condition in fractal grid low-swirl multi-nozzle combustor	Jinseong Kim, Jihwan Ahn, Keeman Lee	18th May 09:15-10:00	Poster Area
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	18th May 09:15-10:00	Poster Area
P1204	Linear burn rate of SHP163 gel propellant	Yu-Jia Chen, I-You Tsai, Ming-Hsun Wu	18th May 09:15-10:00	Poster Area

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P1301	Electrolytic decomposition of HAN-based propellants under elevated pressures	Yu-Ting Chou, Guo-Zheng Yang, Ming-Hsun Wu	18th May 09:15-10:00	Poster Area
P1302	Catalytic decomposition of HAN-based monopropellants with hexaaluminates	Kuan-lo Lao, Yan-Ze Song, Ming-Hsun Wu	18th May 09:15-10:00	Poster Area