

# AJCPP2021 Program at a Glance (Session Code)

Color	Topic Categorie
	1. Fuel/Combustion
	2. Jet Engine/Gas Turbine
	3. Ramjet/SCRamjet Propulsion
	4. Rocket Propulsion
	5. Electric/Hybrid Propulsion
	6. Space Propulsion
	7. Innovative Systems
	Electric Propulsion (INVITED SESSION)

✳ Korea Standard Time (UTC+09:00)

March 4(Thu) 2021						
Time	Room A	Room B	Room C	Room D	Room E	Room F
8:30	<b>4A1</b> Fuel/Combustion I Chair: Prof. Yoshinari Kobayashi	<b>4B1</b> Jet Engine/Gas Turbine I Chair: Prof. Juan Du		<b>4D1</b> Rocket Propulsion I Chair: Dr. Sunil Kang	<b>4E1</b> Space Propulsion I Chair: Prof. Weizong Wang	<b>4F1</b> Hall Thruster - 1 Chair: Prof. Naaji Yamamoto
8:40						
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10:00						
	Break					
10:10	<b>Opening Ceremony</b> Opening Speech - Prof. Youngbin Yoon (Chair, AJCPP2021) Welcome Speech - Prof. Hee-Jang Moon (President, KSPE) Congratulatory Message I - Prof. Jianzhong Xu (Academician Professor, CAS) Congratulatory Message II - Prof. Kimiya Komurasaki (Chair, JSAS Propulsion division)					
10:40	<b>[PL I] 10:40-11:20</b> <b>Space Propulsion System with Green Propellants</b> <b>Prof. Sejin Kwon (KAIST, Korea)</b> Chair: Prof. Kyu Tae Kim					
11:20	<b>[PL II] 11:20-12:00</b> <b>3D Printed Liquid Rocket Engines: Advancing Performance And Size</b> <b>CEO. Max Haot (Launcher, USA)</b> Chair: Dr. Keejoon Lee					
13:00	<b>4A2</b> Fuel/Combustion II Chair: Prof. Hidefumi Kataoka	<b>4B2</b> Jet Engine/Gas Turbine II Chair: Prof. Yun Wu	<b>4C2</b> Ramjet/SCRamjet Propulsion I Chair: Dr. Inyoung Yang	<b>4D2</b> Rocket Propulsion II Chair: Prof. Oh Chae Kwon	<b>4E2</b> Space Propulsion II Chair: Prof. Chihiro Inoue	<b>4F2</b> New EP Technology Chair: Prof. Naaji Yamamoto
13:10						
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14:40	Break					
14:50	<b>4A3</b> Fuel/Combustion III Chair: Prof. Xin Hui	<b>4B3</b> Jet Engine/Gas Turbine III Chair: Prof. Zhiheng Wang	<b>4C3</b> Jet Engine/Gas Turbine IV Chair: Prof. Koji Okamoto	<b>4D3</b> Rocket Propulsion III Chair: Prof. Jaick Yoh	<b>4E3</b> Space Propulsion III Chair: Prof. Koichi Mori	<b>4F3</b> Hall Thruster - 2 Chair: Prof. Hul Liu
15:00						
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16:20	Break					
16:30	<b>4A4</b> Fuel/Combustion IV Chair: Prof. Yuying Liu	<b>4B4</b> Jet Engine/Gas Turbine V Chair: Prof. Daesik Kim	<b>4C4</b> Ramjet/SCRamjet Propulsion II Chair: Prof. Riheng Zheng	<b>4D4</b> Rocket Propulsion IV Chair: Prof. Masanori Saito	<b>4E4</b> Electric/Hybrid Propulsion I Chair: Prof. Kyoungjin Kim	<b>4F4</b> Pulsed Plasma Thruster Chair: Prof. Xie Kan
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18:00						

March 5(Fri) 2021						
Time	Room A	Room B	Room C	Room D	Room E	Room F
8:40	<b>5A1</b> Ramjet/SCRamjet Propulsion III Chair: Prof. Seong-kyun Im	<b>5B1</b> Jet Engine/Gas Turbine VI Chair: Prof. Takehiro Himeno	<b>5C1</b> Jet Engine/Gas Turbine VII Chair: Prof. Kun Du	<b>5D1</b> Rocket Propulsion V Chair: Prof. Hongjip Kim	<b>5E1</b> Innovative Systems I Chair: Prof. Kyu Tae Kim	<b>5F1</b> Diagnostics Chair: Prof. Shigeru Yokota
8:50						
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10:20	Break					
10:30	<b>[PL III] 10:40-11:20</b> <b>Research and Development Progress of JAXA Kakuda Space Center</b> <b>Dr. Makoto Yoshida (JAXA, Japan)</b> Chair: Dr. Mitsuo Imamura					
11:20	<b>[PL IV] 11:20-12:00</b> <b>Supersonic and Hypersonic Curved Compression System and its Inverse Design</b> <b>Prof. Kunyuan Zhang (Nanjing University, China)</b> Chair: Prof. Riheng Zheng					
13:00	<b>5A2</b> Ramjet/SCRamjet Propulsion IV Chair: Prof. Shinji Nakaya	<b>5B2</b> Jet Engine/Gas Turbine VIII Chair: Prof. Zhongguo Sun	<b>5C2</b> Jet Engine/Gas Turbine IX Chair: Prof. Huanxin Lai	<b>5D2</b> Rocket Propulsion VI Chair: Prof. Hiroshi Terashima	<b>5E2</b> Innovative Systems II Chair: Prof. Donghyuk Shin	<b>5F2</b> Ion Engine Chair: Prof. Junxue Ren
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14:20						
14:30						
14:40	Break					
14:50	<b>5A3</b> Fuel/Combustion V Chair: Prof. Tae Seon Park	<b>5B3</b> Jet Engine/Gas Turbine X Chair: Prof. Haihu Liu	<b>5C3</b> Jet Engine/Gas Turbine XI Chair: Prof. Jing Ren	<b>5D3</b> Rocket Propulsion VII Chair: Prof. Kyubok Ahn		<b>5F3</b> EP Analysis Chair: Prof. Liu Yue
15:00						
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16:20	Break					
16:30	<b>5A4</b> Ramjet/SCRamjet Propulsion V Chair: Prof. Jeong-Yeol Choi	<b>5B4</b> Jet Engine/Gas Turbine XII Chair: Dr. Naoki Tari	<b>5C4</b> Jet Engine/Gas Turbine XIII Chair: Prof. Seongman Choi		<b>IOC Meeting</b> (Only IOC&LOC Member)	<b>5F4</b> EP others Chair: Prof. Jichul Shin
16:40						
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18:10	<b>Closing Ceremony</b> Statistics of AJCPP2021 Introduction of AJCPP2023 Closing Remarks - Prof. Youngbin Yoon (Chair, AJCPP2021)					

✳ General Executive Session Chairs (TPC Members): Prof. Hyunrok Do, Prof. Bok Jik Lee, Prof. Hyoung Jin Lee

# AJCPP2021 Detailed Program (Presentation Code)

	March 4(Thu) 2021							March 5(Fri) 2021						
	Room A	Room B	Room C	Room D	Room E	Room F		Room A	Room B	Room C	Room D	Room E	Room F	
8:30							8:30							
8:35	4A1-1	4B1-1		4D1-1	4E1-1	4F1_1	8:35							
8:40							8:40							
8:45							8:45	5A1-1	5B1-1	5C1-1	5D1-1	5E1-1	5F1_1	
8:50							8:50							
8:55	4A1-2	4B1-2		4D1-2	4E1-2	4F1_2	8:55							
9:00							9:00							
9:05							9:05	5A1-2	5B1-2	5C1-2	5D1-2	5E1-2	5F1_2	
9:10							9:10							
9:15	4A1-3	4B1-3		4D1-3	4E1-3	4F1_3	9:15							
9:20							9:20						5F1_3	
9:25						4F1_4	9:25	5A1-3	5B1-3	5C1-3	5D1-3	5E1-3		
9:30							9:30							
9:35		4B1-4		4D1-4			9:35						5F1_4	
9:40							9:40							
9:45							9:45	5A1-4	5B1-4	5C1-4	5D1-4	5E1-4		
9:50							9:50						5F1_5	
9:55							9:55							
10:00			Break				10:00							
10:05							10:05	5A1-5	5B1-5	5C1-5	5D1-5	5E1-5	5F1_6	
10:10							10:10							
10:15			Opening Ceremony (Samda Hall)					10:15						
10:20							10:20							
10:30							10:30							
-			[PL I] / 10:40-11:20 Space Propulsion System with Green Propellants Prof. Sejin Kwon (KAIST, Korea)					-			[PL III] Room C / 10:40-11:20 Research and Development Progress of JAXA Kakuda Space Center Dr. Makoto Yoshida (JAXA, Japan)			
-			[PL II] / Samda Hall / 11:20-12:00 3D Printed Liquid Rocket Engines: Advancing Performance And Size CEO. Max Haot (Launcher, USA)					-			[PL IV] Room C / 11:20-12:00 Supersonic and Hypersonic Curved Compression System and its Inverse Design Prof. Kunyuan Zhang (Nanjing University, China)			
13:00							13:00							
13:05	4A2-1	4B2-1	4C2-1	4D2-1	4E2-1	4F2_1	13:05	5A2-1	5B2-1	5C2-1	5D2-1	5E2-1	5F2_1	
13:10							13:10							
13:15							13:15							
13:20							13:20	5A2-2	5B2-2	5C2-2	5D2-2	5E2-2	5F2_2	
13:25	4A2-2	4B2-2	4C2-2	4D2-2	4E2-2	4F2_2	13:25							
13:30							13:30							
13:35						4F2_3	13:35						5F2_3	
13:40							13:40	5A2-3	5B2-3	5C2-3	5D2-3	5E2-3		
13:45	4A2-3	4B2-3	4C2-3	4D2-3	4E2-3	4F2_4	13:45							
13:50							13:50						5F2_4	
13:55							13:55							
14:00						4F2_5	14:00	5A2-4	5B2-4	5C2-4	5D2-4	5E2-4	5F2_5	
14:05	4A2-4		4C2-4	4D2-4	4E2-4		14:05							
14:10							14:10							
14:15							14:15							
14:20							14:20	5A2-5	5B2-5	5C2-5	5D2-5			
14:25							14:25							
14:30			4C2-5	4D2-5	4E2-5		14:30							
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14:45			Break					14:45			Break			
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15:00							15:00	5A3-1	5B3-1	5C3-1	5D4-1		5F3_1	
15:05	4A3-1	4B3-1	4C3-1	4D3-1	4E3-1	4F3_1	15:05							
15:10							15:10							
15:15						4F3_2	15:15	5A3-2	5B3-2	5C3-2	5D4-2		5F3_2	
15:20	4A3-2	4B3-2	4C3-2	4D3-2	4E3-2		15:20							
15:25							15:25							
15:30						4F3_3	15:30						5F3_3	
15:35							15:35							
15:40							15:40	5A3-3	5B3-3	5C3-3	5D4-3		5F3_4	
15:45		4B3-3	4C3-3	4D3-3		4F3_4	15:45							
15:50							15:50						5F3_5	
15:55							15:55							
16:00							16:00	5A3-4		5C3-4	5D4-4			
16:05				4D3-4			16:05							
16:10							16:10							
16:15							16:15							
16:20			Break					16:20	Break					Break
16:25							16:25				5D4-5			
16:30	4A4-1	4B4-1	4C4-1	4D4-1	4E4-1	4F4_1	16:30	5A4-1	5B4-1	5C4-1			5F4_1	
16:35							16:35							
16:40							16:40							
16:45							16:45							
16:50							16:50						5F4_2	
16:55	4A4-2	4B4-2	4C4-2	4D4-2	4E4-2	4F4_2	16:55	5A4-2	5B4-2	5C4-2				
17:00							17:00							
17:05							17:05						5F4_3	
17:10						4F4_3	17:10							
17:15	4A4-3	4B4-3	4C4-3	4D4-3	4E4-3		17:15	5A4-3	5B4-3	5C4-3			5F4_4	
17:20							17:20							
17:25						4F4_4	17:25							
17:30							17:30							
17:35	4A4-4	4B4-4	4C4-4	4D4-4	4E4-4	4F4_5	17:35	5A4-4	5B4-4	5C4-4			5F4_5	
17:40							17:40							
17:45							17:45							
17:50							17:50						5F4_6	
17:55			4C4-5	4D4-5	4E4-5		17:55		5B4-5	5C4-5				
18:00							18:00							
18:05							18:05							

**March 4(Thu) 2021**

Room A / 08:30 - 09:30		Room B / 08:30 - 09:50		Room C / 13:00 - 14:40		Room D / 08:30 - 09:50		Room E / 08:30 - 09:30		Room F / 08:30 - 09:35	
<b>[4A1] Fuel/Combustion I</b>		<b>[4B1] Jet Engine/Gas Turbine I</b>		<b>[4C2] Ramjet/SCRamjet Propulsion I</b>		<b>[4D1] Rocket Propulsion I</b>		<b>[4E1] Space Propulsion I</b>		<b>[4F1] Hall Thruster - 1</b>	
Session Chair : Yoshinari Kobayashi (Gifu U.)		Session Chair : Juan Du (Institute of Engineering Thermophysics)		Session Chair : Inyoung Yang (KARI)		Session Chair : Sunil Kang (KARI)		Session Chair : Weizong Wang (Beihang U.)		Session Chair : Naoji Yamamoto (Kyushu U.)	
1	Numerical Investigation of the Fuel Primary Atomization by Crossflow under Gas Turbine Engine Combustor Conditions [Presenting Author] Taisuke Nambu (JAXA)	1	Aerodynamic Influence of Screens on A Rectangular Inlet [Presenting Author] Xufei Wang (Northwestern Polytechnical University)	1	Simulation of roughness element induced Mach 6 boundary layer transition using-Reθ transition model based on IDDES method [Presenting Author] Miaorong Yi (CARDC)	1	Experimental and Numerical Study on Feasibility of S&N Class Hybrid Rocket Motor using the Low-Melting-Point Thermoplastic Fuel [Presenting Author] Yo Kawabata (Chiba Institute of Technology)	1	Acceleration Characteristics of Laser-ablation Plasmas by Electrostatic Field [Presenting Author] Takato Ogasawara (Tokai University)	1	[Invited] Research progress of the cusped field hall thruster with large throttling ability in HIT [Presenting Author] Hui Liu (Harbin Institute of Technology)
2	Characterization of Spray Formed in Gas Assisted Atomizers [Presenting Author] Abhilash Suryan (College of Engineering Trivandrum)	2	Numerical Investigation of Serpentine Inlet with an Internal Bump [Presenting Author] Yubo He (Northwestern Polytechnical University)	2	Study of flow control of inward turning hypersonic inlet [Presenting Author] Weixing Wang (Nanjing University)	2	Effects of Post-Chamber Length on Combustion Characteristics of Paraffin Fuel-Based Hybrid Rocket [Presenting Author] Junggi Seo (Korea Aerospace University)	2	Characteristics of Laser Sustained Plasma Using Krypton mixed Gases for Laser Propulsion [Presenting Author] Kazuyoshi Ishikawa (Shizuoka University)	2	Measured Ionization and Acceleration Zones in an Anode Layer Type Hall Thruster RAJINE6 [Presenting Author] Rei Kawashima (The University of Tokyo)
3	Study on the influence of spin combination on the aerodynamic atomization field of premembrane air nozzle [Presenting Author] Wei Gao (Chinese academy of Sciences)	3	Numerical Study of normal shock/boundary layer interaction within a Supersonic bump inlet [Presenting Author] He-Xia Huang (Nanjing University)	3	Experimental and Numerical Study of the Supersonic Air Intake with an Angle of Attack for High-Mach Integrated Control Experiment (HIMCO) [Presenting Author] Manami Fujii (Waseda University)	3	Characteristic-Exhaust-Velocity Efficiency of Hybrid Rocket Fuel Grain with a Star-Fracrable Swirl Port [Presenting Author] Yuki Funami (National Defense Academy)	3	Braking Rotation in Vacuum Using Laser Pulse Ablation [Presenting Author] Yusuke Nakamura (Nagoya University)	3	Structure of ion acceleration region in cylindrical Hall thruster plasmas based on ion diagnostics [Presenting Author] Gwaneta Doh (KAIST)
4	Wind Tunnel Experimental Study of a Supersonic bump inlet [Presenting Author] Jia Cai (Nanjing University)	4	Effect of the Inflow Angle on the Performance of the Supersonic Air Intake with Side Clearance for High Mach Integrated Control Experiment (HIMCO) [Presenting Author] Shogo Ogura (Waseda University)	4	Measurement of Oxidizer to Fuel Ratio for Control of an Altering-intensity Swirling Oxidizer Flow Type Hybrid Rocket [Presenting Author] Pyoma Yuhana (Tokai University)	4	Verification of Measuring Droplet Diameter using Image Analysis Method with triplet impinging injector [Presenting Author] Donggeun Lee (Korea Aerospace University)	4	Hardware-in-the-Loop Simulation Results of Water Resistojet Propulsion System AQUARIUS Integrated into 6U EQUULEUS [Presenting Author] Masaya Murahara (The University of Tokyo)	4	Study on the advantage and disadvantage of Hall thruster with magnetically shielded configuration [Presenting Author] Yanan Xu (Shanghai Institute of Space Propulsion)
Room A / 13:00 - 14:20		Room B / 13:00 - 14:00		Room C / 15:00 - 16:00		Room D / 13:00 - 14:40		Room E / 13:00 - 14:40		Room F / 13:00 - 14:20	
<b>[4A2] Fuel/Combustion II</b>		<b>[4B2] Jet Engine/Gas Turbine II</b>		<b>[4C3] Jet Engine/Gas Turbine III</b>		<b>[4D2] Rocket Propulsion II</b>		<b>[4E2] Space Propulsion II</b>		<b>[4F2] New EP Technology</b>	
Session Chair : Hidefumi Kataoka (Osaka Prefecture U.)		Session Chair : Yun Wu (Air Force Engineering U.)		Session Chair : Koji Okamoto (The U. of Tokyo)		Session Chair : Oh Chae Kwon (Sungkyunkwan U.)		Session Chair : Chihiro Inoue (Kyushu U.)		Session Chair : Naoji Yamamoto (Kyushu U.)	
1	Strong Shock Induced Combustion on Heterogeneous Granular Energetic Materials of Cylindrical Sticks with Various Radius [Presenting Author] Sangyeop Han (Defence Agency for Technology and Quality)	1	The effect of turbulence models on near-stall flow prediction in a transonic fan stage [Presenting Author] Takuya Karatsu (IHI Corporation)	1	Influence of Fillet R to Turbulence Structure with Massively Separated Cascade [Presenting Author] Naoki Tani (IHI Corporation)	1	Quantitative Mass Flow Analysis of Breakup Instability in a Gas-centered Swirl Coaxial Injector [Presenting Author] Hyeontaek Jo (Seoul National University)	1	Fundamental Tests of the Propellant Supply System of the Electric-pump Cycle for Space Propulsion Systems [Presenting Author] Wonkeun Ki (Chungnam National University)	1	[Invited] An Overview of Electric Propulsion Activities in Japan [Presenting Author] Ikkoh Funaki (JAXA)
2	Prediction of lifetime and stability for titanium-based pyrotechnics based on chemical kinetic mechanisms of combustion [Presenting Author] Juyoung Oh (Seoul National University)	2	Optical Measurement of Supersonic Jet Noise Using Laser and 2-D Position Sensitive Detector [Presenting Author] Ayuki Yamamura (The University of Tokyo)	2	Effect of changeable vane stagger angle on Decoupling Reverse Flow of Integrated Power Unit [Presenting Author] Aashish Kalika (Nanjing University)	2	Frequency Analysis of Spray Oscillation Phenomenon from SLM Processing Swirl Coaxial Injector [Presenting Author] Jonghyeon Ahn (Chungbuk National University)	2	A dual launch scheme for deep space mission using a smallsat-dedicated launch vehicle [Presenting Author] Daeban Seo (KARI)	2	Micro-Propulsion and Electric Propulsion Activities at the University of Tokyo, Space Propulsion Laboratory [Presenting Author] Hiroyuki Koizumi (The University of Tokyo)
3	Numerical modeling on the Agglomerated Al dust combustion using Discrete Element method [Presenting Author] Hanyoung Choi (Korea Aerospace University)	3	Experimental Study of Jet Nozzle Exhaust Gas Infrared Signal by Mixing External Air [Presenting Author] Joo Milee (Jeonbuk National University)	3	The Effect of Surface Finishing on the Profile Loss of a Low Speed Axial Compressor Stator [Presenting Author] Guillaume Pallot (IHI Corporation)	3	Effects of recess length on GH2/GDX combustion flow fields of a rocket injector [Presenting Author] Toru Ota (Hokkaido University)	3	Hardware-in-the-Loop Simulation Results of Water Resistojet Propulsion System AQUARIUS Integrated into 6U EQUULEUS [Presenting Author] Masaya Murahara (The University of Tokyo)	3	Study on electrodynamic tether de-orbiting system for space debris removal [Presenting Author] Fuwen Liang (Beijing Institute of Technology)
4	Combustion behaviour of tungsten based pyrotechnic delay composition subjected to hydrothermally aging [Presenting Author] Gnanaprakash Kanagaraj (Seoul National University)	4	Numerical investigation of three-dimensional scramjet inlet flowfield at Mach 5 [Presenting Author] Yoonsik Park (Seoul National University)	4	Dynamic simulation of the integrated model of auxiliary power unit and air turbine starter [Presenting Author] Ran Liu (Nanjing University)	4	Hot-firing tests of a methane engine thrust chamber with an uni-element shear coaxial injector [Presenting Author] Cheolwoong Kang (Chungbuk National University)	4	Numerical investigation on combustion modes of impinging hypersonic propellants [Presenting Author] Masashi Ono (Hokkaido University)	4	Development of a Racetrack Shaped Anode-layer Thruster [Presenting Author] Kohei Fukagawa (Gifu University)
Room A / 15:00 - 15:40		Room B / 15:00 - 16:00		Room C / 16:30 - 18:10		Room D / 15:00 - 16:20		Room E / 15:00 - 15:40		Room F / 15:00 - 16:00	
<b>[4A3] Fuel/Combustion III</b>		<b>[4B3] Jet Engine/Gas Turbine III</b>		<b>[4C4] Ramjet/SCRamjet Propulsion II</b>		<b>[4D3] Rocket Propulsion III</b>		<b>[4E3] Space Propulsion III</b>		<b>[4F3] Hall Thruster - 2</b>	
Session Chair : Xin Hui (Beihang U.)		Session Chair : Zhiheng Wang (Xi'an Jiaotong U.)		Session Chair : Riheng Zheng (Beihang U.)		Session Chair : Jae-ick Yoh (Seoul National U.)		Session Chair : Koichi Mori (Nagoya U.)		Session Chair : Hui Lu (Harbin Inst. Tech.)	
1	Experimental study the interaction between shockwave and flame of ethylene in cavity-based supersonic combustor at low conditions [Presenting Author] Pengfei Xiong (CARDC)	1	Effect of Secondary Flow Channel Thermal Insulation Layer on Aerodynamic and Infrared Radiation Characteristics of the Asymmetric Conformal Nozzle [Presenting Author] Jin Bai (Northwestern Polytechnical University)	1	Numerical Investigation on Real-Gas Effect of Inward Turning Inlet at Mach 12 [Presenting Author] Chunliang Dai (Nanjing University)	1	Conceptual Design of Lox-Kerosene Engine System for Upper-stage of Small Satellite Launch Vehicle [Presenting Author] Young In Choi (KARI)	1	Numerical Analysis of Plasma Detachment in a Magnetic Thrust Chamber for Laser Fusion Rocket using Fully Particle-in-cell Simulation [Presenting Author] Tomihiko Kojima (Kyushu University)	1	A Plume Mode change in a 50 W-class Hall thruster [Presenting Author] Dongho Lee (KAIST)
2	Effects of dilution on the laminar burning velocity of surrogate fuel [Presenting Author] Kazuki Okuhigashi (Osaka Prefecture University)	2	Numerical Study on Effects of Swirler Core Blockage Ratios of a Low-Swirl Model Combustor [Presenting Author] Hwanghui Jeong (NEXTOam)	2	Analysis of multiple shock waves in a constant area isolator of a scramjet engine [Presenting Author] Jintu K. James (Andong National University)	2	Analysis of the matching law of primary rocket jet parameters of RBCC [Presenting Author] Siyuan Huang (CARDC)	2	Analysis of the lunar regolith thrust system and its feasibility for orbit correction maneuvers [Presenting Author] Naoji Muta (Kyushu Institute of Technology)	2	Deflection of the magnetic field in a 100 W magnetically shielded Hall thruster with permanent magnets [Presenting Author] Guangchuan Zhang (Beihang University)
3	Experimental study of NOx emission characteristic of model micromixer combustor with various mixing types. [Presenting Author] Jaehong Choi (Seoul National University)	3	Application of Ray Tracing Method in Analyzing the Electromagnetic Scattering of Double S-shaped Nozzles [Presenting Author] Xiang Gao (Northwestern Polytechnical University)	3	Interaction of Supersonic Streamwise Vortices and Incident Shock Wave [Presenting Author] Shingo Shichiri (Osaka Prefecture University)	3	Development of a Hybrid Burn-back Method in a 3-D Numerical Analysis for Solid Rocket Motor [Presenting Author] Seok-Hwan Oh (Inha University)	3	Thermal modeling of Hall thruster channel using two-dimensional hybrid particle-in-cell simulation [Presenting Author] Gwanyoung Jung (Korea Aerospace University)	3	Thermal modeling of Hall thruster channel using two-dimensional hybrid particle-in-cell simulation [Presenting Author] Gwanyoung Jung (Korea Aerospace University)
4	Study of Fluidic Thrust Vector Control Based on Dual-Throat Nozzle Concept [Presenting Author] Kexin Wu (Andong National University)	4	Shock Oscillation Control in an Isolator Using Boundary layer Suction [Presenting Author] Vignesh Ram Petha Sethuraman (Andong National University)	4	Numerical Study on the Effect of Angle of Attack on the Intake for Silent Supersonic Transport of Propulsion/Airplane Integrated Design [Presenting Author] Toahya Yokoi (Waseda University)	4	A study of Design and Dynamic Test on Pyroshock-reduced Separation Device [Presenting Author] Yeungoo Lee (Agency for Defense Development)	4	One-dimensional hybrid Particle-in-Cell simulation for 50 W class Hall thruster plasmas [Presenting Author] Jeehong Park (KAIST)	4	[Invited] Investigation on The Performance of Laser Ablation Pulsed Plasma Thruster [Presenting Author] Moge Wang (National University of Defense Technology)
Room A / 16:30 - 17:50		Room B / 16:30 - 17:50		Room C / 18:10 - 19:00		Room D / 16:30 - 18:10		Room E / 16:30 - 18:10		Room F / 16:30 - 17:50	
<b>[4A4] Fuel/Combustion IV</b>		<b>[4B4] Jet Engine/Gas Turbine IV</b>		<b>[4C5] Ramjet/SCRamjet Propulsion III</b>		<b>[4D4] Rocket Propulsion IV</b>		<b>[4E4] Electric/Hybrid Propulsion I</b>		<b>[4F4] Pulsed Plasma Thruster</b>	
Session Chair : Yuying Lu (Beihang U.)		Session Chair : Daesik Kim (Gangneung-Vonju National U.)		Session Chair : Riheng Zheng (Beihang U.)		Session Chair : Masanori Saito (Nihon U.)		Session Chair : Kyoungin Kim (Kumoh National Institute of Technology)		Session Chair : Xie Kan (Beijn Inst. of Tech.)	
1	A Study on Combustion Instability Characteristics in Acoustically Coupled/Decoupled Condition [Presenting Author] Donghyun Hwang (Chungbuk National University)	1	Numerical Analysis of Two Interacting Lean Premixed Combustors [Presenting Author] Jaehyun Nam (Seoul National University)	1	Numerical Investigation on Real-Gas Effect of Inward Turning Inlet at Mach 12 [Presenting Author] Chunliang Dai (Nanjing University)	1	Experimental Study of Torque Around the Thrust Axis on a Rotating Detonation Engine [Presenting Author] Satoru Sawada (Nagoya University)	1	Conceptual and Experimental Study on Electric Aircrafts Using PEFC [Presenting Author] Fumiya Arai (Waseda University)	1	[Invited] Investigation on The Performance of Laser Ablation Pulsed Plasma Thruster [Presenting Author] Moge Wang (National University of Defense Technology)
2	High Pressure Combustion Rig Test of an Airblast Combustor [Presenting Author] Shaun Kim (Hanwha Aerospace)	2	Effect of Secondary Flow Channel Thermal Insulation Layer on Aerodynamic and Infrared Radiation Characteristics of the Asymmetric Conformal Nozzle [Presenting Author] Jin Bai (Northwestern Polytechnical University)	2	Analysis of multiple shock waves in a constant area isolator of a scramjet engine [Presenting Author] Jintu K. James (Andong National University)	2	Numerical Analysis and Experimental Validation of a Typical Detonation Transfer Joint used in Launch Vehicles [Presenting Author] Abhilash Suryan (College of Engineering Trivandrum)	2	Feasibility Study of Electric Propulsion System for Aircraft based on Cycle-Analysis and Weight Estimation [Presenting Author] Ryuki Oshima (The University of Tokyo)	2	Plasma Characteristics of the Ablative Pulsed Plasma Thruster [Presenting Author] Yang Ou (National University of Defense Technology)
3	Experimental study of NOx emission characteristic of model micromixer combustor with various mixing types. [Presenting Author] Jaehong Choi (Seoul National University)	3	Numerical Study on Effects of Swirler Core Blockage Ratios of a Low-Swirl Model Combustor [Presenting Author] Hwanghui Jeong (NEXTOam)	3	Interaction of Supersonic Streamwise Vortices and Incident Shock Wave [Presenting Author] Shingo Shichiri (Osaka Prefecture University)	3	Experimental Study on Collision and Deposition of Alumina Droplet on Solid Wall [Presenting Author] Zhiwei Ma (Beijing Institute of Technology)	3	Flame-holding range of hydrogen/steam mixture in a reactor of SOFC/GT combined system [Presenting Author] Yuta Inoue (Nihon University)	3	Investigation of the plasma plume asymmetrical characterization in a pulsed plasma thruster [Presenting Author] Zhe Zhang (Beihang University)
4	Study of Fluidic Thrust Vector Control Based on Dual-Throat Nozzle Concept [Presenting Author] Kexin Wu (Andong National University)	4	Application of Ray Tracing Method in Analyzing the Electromagnetic Scattering of Double S-shaped Nozzles [Presenting Author] Xiang Gao (Northwestern Polytechnical University)	4	Numerical Study on the Effect of Angle of Attack on the Intake for Silent Supersonic Transport of Propulsion/Airplane Integrated Design [Presenting Author] Toahya Yokoi (Waseda University)	4	A Eulerian-Eulerian numerical study on the two-phase flow in SRM under light acceleration [Presenting Author] Li Qiang (Northwestern Polytechnical University)	4	Starting Test of SOFC-Gas Turbine Combined Cycle Engine for Aircraft Propulsion [Presenting Author] Takayuki Kojima (JAXA)	4	Thrust and Ion Flow Measurement of an Inductive Electrodeless Plasma Thruster [Presenting Author] Hokuto Sekine (The University of Tokyo)
5	Shock Oscillation Control in an Isolator Using Boundary layer Suction [Presenting Author] Vignesh Ram Petha Sethuraman (Andong National University)	5	Shock Oscillation Control in an Isolator Using Boundary layer Suction [Presenting Author] Vignesh Ram Petha Sethuraman (Andong National University)	5	Shock Oscillation Control in an Isolator Using Boundary layer Suction [Presenting Author] Vignesh Ram Petha Sethuraman (Andong National University)	5	Effects of Reverse Injection applied in Gas-Liquid Pinfile Injector [Presenting Author] Dae Han Kim (Seoul National University)	5	2D Full Engine Cycle Simulation for Microwave Rocket [Presenting Author] Ayuto Manabe (The University of Tokyo)	5	Performance Improvement of 8J Electromagnetic Coaxial Pulsed Plasma Thruster [Presenting Author] Reo Noda (The University of Yamaguchi)

