

# ACCM13 | 13th Asian-Australasian Conference on Composite Materials (ACCM13)

Day 1 (Aug 27): Rooms A-E

Time	Registration				
8:30	Registration				
9:15	Opening remarks / Room S (1st floor: RY103)				
9:20-10:30 (70 min)	<b>Plenary Lecture 1 / Room S (1st floor: RY103)</b> Shape Memory Polymer Composites: Programmability, 4D Printing and Applications		<b>Speaker:</b> Prof. Jinsong Leng* and Prof. Yanju Liu (*Harbin Institute of Technology/People's Republic of China)		<b>Chair:</b> Prof. Tetsusei Kurashiki (Osaka University/Japan)
10:30-10:45	Break				
	Room A (1st floor: RY107)	Room B (2nd floor: RY207)	Room C (2nd floor: RY208)	Room D (2nd floor: RY204)	Room E (2nd floor: RY203)
<b>Morning 1 Session: 10:45-12:00</b>	<b>Keynote Lecture 1:</b> Prof. Mai Yiu Wing (The Hong Kong Polytechnic University/Hong Kong, China) Chair: Prof. Asami Nakai (Gifu University/Japan)	<b>Functional Composites: Nanocomposites</b> Chair: Prof. Qingbin Zheng (The Chinese University of Hong Kong, Shenzhen/China)	<b>Manufacturing/Processing: 3/4D Printing and Additive Manufacturing</b> Chair: Prof. Xiaoyong Tian (Xi'an Jiaotong University/China)	<b>Simulation&amp;Testing: Optimization Design/Modeling and Simulation</b> Chair: Prof. Tatsuro Kosaka (Kochi University of Technology/Japan)	<b>Joint Session</b> Chair: Dr. Hayato Nakatani (Osaka Metropolitan University/Japan)
12:00-13:00	Lunch time				
13:00-14:10 (70 min)	<b>Plenary Lecture 2 / Room S (1st floor: RY103)</b> Fibre-Reinforced Nanocomposites for Extreme Environments		<b>Speaker:</b> Prof. Chun Hui Wang (University of New South Wales, Sydney/Australia)		<b>Chair:</b> Prof. Mai Yiu Wing (The Hong Kong Polytechnic University/China)
14:10-14:25	Break / Corporate Exhibition (1st floor: RY102)				
	Room A (1st floor: RY107)	Room B (2nd floor: RY207)	Room C (2nd floor: RY208)	Room D (2nd floor: RY204)	Room E (2nd floor: RY203)
<b>Afternoon 1 Session: 14:25-15:40</b>	<b>Keynote Lecture 2:</b> Prof. He Chaobin (National University of Singapore/Singapore) Chair: Dr. Masaaki Nishikawa (Kyoto University/Japan)	<b>Functional Composites: Nanocomposites</b> Chair: Prof. Jun Ma (University of South Australia/Australia)	<b>Manufacturing/Processing: Advanced Composites Manufacturing</b> Chair: Prof. Richard Yang (Western Sydney University/Australia)	<b>Simulation&amp;Testing: Optimization Design/Modeling and Simulation</b> Chair: Dr. Hanxing Zhao (Harbin Institute of Technology/China)	<b>Joint Session</b> Chair: Dr. Masato Sakaguchi (Gifu University/Japan)
15:40-15:55	Break / Corporate Exhibition (1st floor: RY102)				
	Room A (1st floor: RY107)	Room B (2nd floor: RY207)	Room C (2nd floor: RY208)	Room D (2nd floor: RY204)	Room E (2nd floor: RY203)
<b>Afternoon 2 Session: 15:55-17:35</b>	<b>Materials Science: Polymer Matrix Composites</b> Chair: Prof. Akihiro Wada (Osaka Sangyo University/Japan)	<b>Functional Composites: Nanocomposites</b> Chair: Prof. Xi Shen (The Hong Kong Polytechnic University/ Hong Kong)	<b>Manufacturing/Processing: 3/4D Printing and Additive Manufacturing</b> Chair: Prof. Masahito Ueda (Nihon University/Japan)	<b>Simulation&amp;Testing: Optimization Design/Modeling and Simulation</b> Chair: Prof. Keke Tang (Tongji University/China)	<b>Joint Session on Flame Retardancy and Fireproof</b> Chair: Dr. Yasuka Nassho (Toyama Prefectural University/Japan)

# ACCM13 | 13th Asian-Australasian Conference on Composite Materials (ACCM13)

Day 1 (Aug 27): Rooms F-J

Time	Registration				
8:30	Registration				
9:15	Opening remarks / Room S (1st floor: RY103)				
9:20-10:30 (70 min)	<b>Plenary Lecture 1 / Room S (1st floor: RY103)</b> <b>Shape Memory Polymer Composites: Programmability, 4D Printing and Applications</b>		<b>Speaker:</b> <b>Prof. Jinsong Leng*</b> and Prof. Yanju Liu (*Harbin Institute of Technology/People's Republic of China)		<b>Chair:</b> <b>Prof. Tetsusei Kurashiki</b> (Osaka University/Japan)
10:30-10:45	Break				
	Room F (2nd floor: RY202)	Room G (2nd floor: RY201)	Room H (2nd floor: RY206)	Room I (4th floor: RY405)	Room J (4th floor: RY404)
<b>Morning 1 Session:</b> 10:45-12:00	<b>Materials Science: Ceramic Matrix Composites</b> Chair: Dr. Masaaki Nishikawa (Kyoto University/Japan)	<b>Functional Composite: Multi-Functional/Smart Composites</b> Chair: Prof. Sung-Ryong Kim (Korea National University of Transportation/Korea)	<b>Manufacturing/Processing: Automated Manufacturing / Advanced Composites Manufacturing</b> Chair: Prof. Dong Gi Seong (Pusan National University/Korea)	<b>Simulation&amp;Testing: Testing and Evaluations</b> Chair: Prof. Shengyi Zhong (Shanghai Jiao Tong University/China)	<b>Applications: Emerging Applications(Absorption, Shielding, Cloaking, Sensing, Actuating etc.)</b> Chair: Dr. Qiang Fu (The University of Technology Sydney/Australia)
12:00-13:00	Lunch time				
13:00-14:10 (70 min)	<b>Plenary Lecture 2 / Room S (1st floor: RY103)</b> <b>Fibre-Reinforced Nanocomposites for Extreme Environments</b>		<b>Speaker: Prof. Chun Hui Wang</b> (University of New South Wales, Sydney/Australia)		<b>Chair: Prof. Mai Yiu Wing</b> (The Hong Kong Polytechnic University/China)
14:10-14:25	Break / Corporate Exhibition (1st floor: RY102)				
	Room F (2nd floor: RY202)	Room G (2nd floor: RY201)	Room H (2nd floor: RY206)	Room I (4th floor: RY405)	Room J (4th floor: RY404)
<b>Afternoon 1 Session:</b> 14:25-15:40	<b>Materials Science: Ceramic Matrix Composites</b> Chair: Dr. Longbiao Li (Nanjing University of Aeronautics and Astronautics/China)	<b>Functional Composite: Multi-Functional/Smart Composites</b> Chair: Prof. Seong Su Kim (Korea Advanced Institute of Science and Technology (KAIST)/Korea)	<b>Manufacturing/Processing: Advanced Composites Manufacturing / Second Processing / Others</b> Chair: Dr. Daiki Tanabe (Kobe City College of Technology/Japan)	<b>Simulation&amp;Testing: Testing and Evaluations</b> Chair: Prof. Zhengyan Yang (Jiangnan University/China)	<b>Applications: Emerging Applications(Absorption, Shielding, Cloaking, Sensing, Actuating etc.)</b> Chair: Prof. Sarah Yixia Zhang (Western Sydney University/Australia)
15:40-15:55	Break / Corporate Exhibition (1st floor: RY102)				
	Room F (2nd floor: RY202)	Room G (2nd floor: RY201)	Room H (2nd floor: RY206)	Room I (4th floor: RY405)	Room J (4th floor: RY404)
<b>Afternoon 2 Session:</b> 15:55-17:35	<b>Materials Science: Ceramic Matrix Composites / Metal Matrix Composites</b> Chair: Prof. Yu Zhang (Harbin Institute of Technology/China)	<b>Functional Composites: Natural Fibers/Green Composites</b> Chair: Dr. Junji Noda (Kindai University/Japan)	<b>Manufacturing/Processing: Automated Manufacturing / Out-of-Autoclave Process / Others</b> Chair: Prof. Akio Ohtani (Kyoto Institute of Technology/Japan)	<b>Simulation&amp;Testing: Testing and Evaluations</b> Chair: Prof. Hiroshi Saito (Kanazawa Institute of Technology/Japan)	<b>Applications: Recycling Carbon Neutrality and Circular Economy / Degradation and Durability</b> Chair: Prof. Tatsuro Kosaka (Kochi University of Technology/Japan)

# ACCM13 | 13th Asian-Australasian Conference on Composite Materials (ACCM13)

Day 2(Aug 28): Rooms A-E

Time					
8:30	Registration				
9:20-10:30 (70 min)	<b>Plenary Lecture 3 / Room S (1st floor: RY103)</b> Optimization of Thermoplastic and Thermoset composites : Effects of Geometry, Temperature, Moisture and Nanotube Reinforcement on Mechanical Performance		<b>Speaker:</b> Prof. Yun-Hae Kim (Professor, Korea Maritime and Ocean University /Republic of Korea)		<b>Chair:</b> Prof. Tatsuro Kosaka (Kochi University of Technology/Japan)
10:30-10:45	Break / Corporate Exhibition (1st floor: RY102)				
	Room A (1st floor: RY107)	Room B (2nd floor: RY207)	Room C (2nd floor: RY208)	Room D (2nd floor: RY204)	Room E (2nd floor: RY203)
<b>Morning 1 Session:</b> 10:45-12:00	<b>Materials Science: Polymer Matrix Composites</b> Chair: Prof. Toshiaki Natsuki (Shinshu University/Japan)	<b>Functional Composites: Nanocomposites</b> Chair: Prof. Xu-Ming Xie (Tsinghua University/China)	<b>Manufacturing/Processing: Advanced Composites Manufacturing</b> Chair: Prof. Qi Wu (Nanjing University of Aeronautics and Astronautics/China)	<b>Simulation&amp;Testing: Optimization Design/Modeling and Simulation</b> Chair: Dr. Masato Nishi (JSOL CORPORATION/Japan)	<b>Keynote Lecture 3: Mr. Katsuyuki Awano (HONDA R&amp;D/Japan)</b> Chair: Prof. Masayuki Okoshi (Gifu University/Japan)
12:00-13:00	Lunch time				
13:00-14:10 (70 min)	<b>Plenary Lecture 4 / Room S (1st floor: RY103)</b> Development of Core Technologies for Hydrogen Aircraft		<b>Speaker:</b> Dr. Masahide Kazari (Executive, Group Manager, Hydrogen Aircraft Core Technology Research Project Group, Aerospace Systems Company, Kawasaki Heavy Industries/ Japan)		<b>Chair:</b> Mr. Katsuyuki Kawashima (Kawasaki Heavy Industries/ Japan)
14:10-14:25	Break / Corporate Exhibition (1st floor: RY102)				
14:25-15:45	Poster Session / Room P (1st floor: RY101)				
15:45-16:00	Break / Corporate Exhibition (1st floor: RY102)				
	Room A (1st floor: RY107)	Room B (2nd floor: RY207)	Room C (2nd floor: RY208)	Room D (2nd floor: RY204)	Room E (2nd floor: RY203)
<b>Afternoon 1 Session:</b> 16:00-17:15	<b>Applications: Engineering Applications(Aerospace, Infrastructure, Transportation, Wind Energy)</b> Chair: Dr. Junji Noda (Kindai University/Japan)	<b>Functional Composites: Natural Fibers/Green Composites</b> Chair: Dr. Hayato Nakatani (Osaka Metropolitan University/Japan)	<b>Manufacturing/Processing: Advanced Composites Manufacturing / Second Processing</b> Chair: Prof. Tetsusei Kurashiki (Osaka University/Japan)	<b>Simulation&amp;Testing: Optimization Design / Modeling and Simulation</b> Chair: Dr. Masaaki Nishikawa (Kyoto University/Japan)	<b>Joint Session on Flame Retardancy and Fireproof</b> Chair: Prof. Aravind Dasari (Nanyang Technological University/Singapore)
18:30-20:30	Banquet (Hotel Granvia Kyoto)				

# ACCM13 | 13th Asian-Australasian Conference on Composite Materials (ACCM13)

Day 2(Aug 28): Rooms F-J

Time					
8:30	Registration				
9:20-10:30 (70 min)	<b>Plenary Lecture 3 / Room S (1st floor: RY103)</b> Optimization of Thermoplastic and Thermoset composites : Effects of Geometry, Temperature, Moisture and Nanotube Reinforcement on Mechanical Performance		<b>Speaker:</b> Prof. Yun-Hae Kim (Professor, Korea Maritime and Ocean University /Republic of Korea)		<b>Chair:</b> Prof. Tatsuro Kosaka (Kochi University of Technology/Japan)
10:30-10:45	Break / Corporate Exhibition (1st floor: RY102)				
	Room F (2nd floor: RY202)	Room G (2nd floor: RY201)	Room H (2nd floor: RY206)	Room I (4th floor: RY405)	Room J (4th floor: RY404)
<b>Morning 1 Session:</b> 10:45-12:00	<b>Speech Session for Best Student Poster Award 1</b> Chair: Prof. Hideaki Katogi (Jissen Women's University/Japan)	<b>Speech Session for Best Student Poster Award 2</b> Chair: Dr. Daiki Tanabe (Kobe City College of Technology/Japan)	<b>Materials Science: Carbon Composites / Metal Matrix Composites</b> Chair: Dr. Shuai Wang (Harbin Institute of Technology/China)	<b>Functional Composites: Adhesive and Interface</b> Chair: Prof. Wendi Liu (Fujian Agriculture and Forestry University/China)	<b>Simulation&amp;Testing: Testing and Evaluations</b> Chair: Prof. Leijiang Yao (Northwestern Polytechnical University/China)
12:00-13:00	Lunch time				
13:00-14:10 (70 min)	<b>Plenary Lecture 4 / Room S (1st floor: RY103)</b> Development of Core Technologies for Hydrogen Aircraft		<b>Speaker:</b> Dr. Masahide Kazari (Executive, Group Manager, Hydrogen Aircraft Core Technology Research Project Group, Aerospace Systems Company, Kawasaki Heavy Industries/ Japan)		<b>Chair:</b> Mr. Katsuyuki Kawashima (Kawasaki Heavy Industries/ Japan)
14:10-14:25	Break / Corporate Exhibition (1st floor: RY102)				
14:25-15:45	Poster Session / Room P (1st floor: RY101)				
15:45-16:00	Break / Corporate Exhibition (1st floor: RY102)				
	Room F (2nd floor: RY202)	Room G (2nd floor: RY201)	Room H (2nd floor: RY206)	Room I (4th floor: RY405)	Room J (4th floor: RY404)
<b>Afternoon 1 Session:</b> 16:00-17:15	<b>Materials Science: Carbon Composites</b> Chair: Prof. Xiaohui Song (Hefei University of Technology/China)	<b>Functional Composites: Adhesive and Interface</b> Chair: Prof. Atsushi Hosoi (Waseda University/Japan)	<b>Simulation&amp;Testing: Testing and Evaluations</b> Chair: Dr. Norio Iwashita (National Institute of Advanced Industrial Science and Technology (AIST)/Japan)	<b>Materials Science: Thermoplastic Composites / Textile-Based Composites</b> Chair: Prof. Chao Wang (Harbin Institute of Technology/China)	<b>Applications: Biomedical Applications</b> Chair: Dr. Dou Zhang (Harbin Institute of Technology/China)
18:30-20:30	Banquet (Hotel Granvia Kyoto)				

# ACCM13 | 13th Asian-Australasian Conference on Composite Materials (ACCM13)

Day 3(Aug 29): Rooms A-E

Time	Registration				
8:30	Registration				
9:20-10:30 (70 min)	<b>Plenary Lecture 5 / Room S (1st floor: RY103)</b> "Synthesis from Materials to Processes for Composites with Reduced Environmental Impact and Circular Economy" ICC Research into the Realization of Sustainable Composites		<b>Speaker:</b> Prof. Kiyoshi Uzawa (Director, Innovative Composite Center (ICC), Kanazawa Institute of Technology/Japan)		<b>Chair:</b> Dr. Hayato Nakatani (Osaka Metropolitan University/Japan)
10:30-10:45	Break / Corporate Exhibition (1st floor: RY102)				
	<b>Room A (1st floor: RY107)</b>	<b>Room B (2nd floor: RY207)</b>	<b>Room C (2nd floor: RY208)</b>	<b>Room D (2nd floor: RY204)</b>	<b>Room E (2nd floor: RY203)</b>
<b>Morning 1 Session: 10:45-12:00</b>	<b>Keynote Lecture 4: Prof. Hairon Chen (Ningbo University/China)</b> Chair: Prof. Toshiaki Natsuki (Shinshu University/Japan)	<b>Functional Composites: Natural Fibers/Green Composites</b> Chair: Prof. Akihiro Wada (Osaka Sangyo University/Japan)	<b>Materials Science: Polymer Matrix Composites</b> Chair: Prof. Atsushi Hosoi (Waseda University/Japan)	<b>Simulation&amp;Testing: Micromechanics</b> Chair: Dr. Masaaki Nishikawa (Kyoto University/Japan)	<b>Joint Session on Flame Retardancy and Fireproof</b> Chair: Prof. Akio Ohtani (Kyoto Institute of Technology/Japan)
12:00-13:00	Lunch time				
	<b>Room A (1st floor: RY107)</b>	<b>Room B (2nd floor: RY207)</b>	<b>Room C (2nd floor: RY208)</b>	<b>Room D (2nd floor: RY204)</b>	<b>Room E (2nd floor: RY203)</b>
<b>Afternoon 1 Session: 13:00-14:40</b>	<b>Materials Science: Metal Matrix Composites / Others</b> Chair: Prof. Lujun Huang (Harbin Institute of Technology/China)	<b>Functional Composites: Natural Fibers/Green Composites</b> Chair: Prof. Renhui Qiu (Fujian Agriculture and Forestry University/China)	<b>Manufacturing/Processing: 3/4D Printing and Additive Manufacturing / Others</b> Chair: Dr. Masaaki Nishikawa (Kyoto University/Japan)	<b>Simulation&amp;Testing: Failure Criteria and Verification / Others</b> Chair: Dr. Hideaki Katogi (Jissen Women's University/Japan)	<b>Joint Session on Flame Retardancy and Fireproof</b> Chair: Ms. Shiho Kuwashiro (Osaka Research Institute of Industrial Science and Technology/Japan)

# ACCM13 | 13th Asian-Australasian Conference on Composite Materials (ACCM13)

Day 3(Aug 29): Rooms F-J

Time	Registration				
8:30	Registration				
9:20-10:30 (70 min)	<b>Plenary Lecture 5 / Room S (1st floor: RY103)</b> "Synthesis from Materials to Processes for Composites with Reduced Environmental Impact and Circular Economy" ICC Research into the Realization of Sustainable Composites		<b>Speaker:</b> Prof. Kiyoshi Uzawa (Director, Innovative Composite Center (ICC), Kanazawa Institute of Technology/Japan)		<b>Chair:</b> Dr. Hayato Nakatani (Osaka Metropolitan University/Japan)
10:30-10:45	Break / Corporate Exhibition (1st floor: RY102)				
	<b>Room F (2nd floor: RY202)</b>	<b>Room G (2nd floor: RY201)</b>	<b>Room H (2nd floor: RY206)</b>	<b>Room I (4th floor: RY405)</b>	<b>Room J (4th floor: RY404)</b>
<b>Morning 1 Session: 10:45-12:00</b>	<b>Materials Science: Ceramic Matrix Composites / Carbon Composites</b> Chair: Dr. Junji Noda (Kindai University/Japan)	<b>Materials Science: Others</b> Chair: Prof. Yun-Hae Kim (National Korea Maritime and Ocean University/Korea)	<b>Functional Composite: Multi-Functional/Smart Composites</b> Chair: Prof. Xingyi Zhu (Tongji University/China)	<b>Functional Composites: Thermal/Fire Retardant Composites</b> Chair: Prof. Yue Hou (Wuhan University/China)	<b>Applications: Engineering Applications(Aerospace, Infrastructure, Transportation, Wind Energy)</b> Chair: Prof. Hiroshi Saito (Kanazawa Institute of Technology/Japan)
12:00-13:00	Lunch time				
	<b>Room F (2nd floor: RY202)</b>	<b>Room G (2nd floor: RY201)</b>	<b>Room H (2nd floor: RY206)</b>	<b>Room I (4th floor: RY405)</b>	<b>Room J (4th floor: RY404)</b>
<b>Afternoon 1 Session: 13:00-14:40</b>	<b>Journal Session</b> Chair: Prof. Hao Wang (University of Southern Queensland/Australia)	<b>Materials Science: Polymer Matrix Composites</b> Chair: Prof. Kazushi Yamada (Kyoto Institute of Technology/Japan)	<b>Functional Composite: Multi-Functional/Smart Composites</b> Chair: Prof. Kazuya Okubo (Doshisha University/Japan)	<b>Functional Composites: Thermal/Fire Retardant Composites / Multi-Functional/Nanocomposites</b> Chair: Prof. Cong Deng (Sichuan University/China)	<b>Applications: Engineering Applications(Aerospace, Infrastructure, Transportation, Wind Energy) / Composites, Repair, Self-healing</b> Chair: Prof. Mototsugu Tanaka (Kanazawa Institute of Technology/Japan)

# ACCM13 | 13th Asian-Australasian Conference on Composite Materials (ACCM13)

Day 1(Aug 27): Rooms A-E

Time	Registration				
8:30	Registration				
9:15	Opening remarks / Room S (1st floor: RY103)				
9:20-10:30 (70 min)	<b>Plenary Lecture 1 / Room S (1st floor: RY103)</b> Shape Memory Polymer Composites: Programmability, 4D Printing and Applications		<b>Speaker:</b> <u>Prof. Jinsong Leng*</u> and Prof. Yanju Liu (*Harbin Institute of Technology/People's Republic of China)		<b>Chair:</b> Prof. Tetsusei Kurashiki (Osaka University/Japan)
10:30-10:45	Break				
	<b>Room A (1st floor: RY107)</b>	<b>Room B (2nd floor: RY207)</b>	<b>Room C (2nd floor: RY208)</b>	<b>Room D (2nd floor: RY204)</b>	<b>Room E (2nd floor: RY203)</b>
<b>Morning 1 Session</b>	<b>Keynote Lecture 1</b> Chair: Prof. Asami Nakai (Gifu University/Japan)	<b>Functional Composites</b> Chair: Prof. Qingbin Zheng (The Chinese University of Hong Kong, Shenzhen/China)	<b>Manufacturing/Processing</b> Chair: Prof. Xiaoyong Tian (Xi'an Jiaotong University/China)	<b>Simulation&amp;Testing</b> Chair: Prof. Tatsuro Kosaka (Kochi University of Technology/Japan)	<b>Joint Session</b> Chair: Dr. Hayato Nakatani (Osaka Metropolitan University/Japan)
10:45-11:10	<b>Keynote Lecture 1 (45min):</b>  <b>Prof. Mai Yiu Wing</b> (The Hong Kong Polytechnic University/Hong Kong, China), Dr. Helezi Zhou (Huazhong University of Science and Technology), Dr. Hong-Yuan Liu (The University of Sydney), Prof. Huamin Zhou (Huazhong University of Science and Technology)	<b>1B01</b> Comparative Study of Elastomer Nanocomposites Respectively Containing SWCNTs and MWCNTs <u>Jun Ma</u> (University of South Australia)	<b>1C01</b> 3D Printing of ABS/MWCNT nanocomposites Using Fused Filament Fabrication: Functionlisation, Fabrication, Testing and Charaterisation Phan Quoc Khang Nguyen (Western Sydney University), Nima Zohdi, Y.X. Zhang, <u>Richard Yang</u>	<b>1D01</b> Research on Energy Finite Element Analysis for Carbon Fiber Composite Honeycomb Sandwich Structure Xiuyan Cheng (Beijing Institute of Technology), <u>Yuchen Qiu</u> , Jili Rong	<b>1E01</b> Analytical investigation of matrix chain orientation inside the thread of tricalcium phosphate / poly(lactic acid) composite screws formed by hot forging Masato Sakaguchi (Gifu University)
11:10-11:35	<b>Interleave Microstructure Design for Enhanced Properties of Fiber Composites</b>	<b>1B02</b> Highly Conductive and Tough Polysiloxane Elastomers cross-linked by functionalized Carbon Nanotubes <u>Xu-Ming Xie</u> (Tsinghua University), Yi Wei	<b>1C02</b> Solidification mechanism and performance of 3D-printed carbon fiber reinforced polyether-ether-ketone composites in vacuum environment <u>Tengfei Liu</u> (Xi'an Jiaotong University), Xiaoyong Tian, Haojie Zhang, Xinhua Liu, Manyu Zhang	<b>1D02</b> Numerical study on wave response characteristics of composite plate structures under damaged low-velocity impact <u>Deshuang Deng</u> (Dalian University of Technology)	<b>1E02</b> Resistance welding of glass fiber reinforced thermoplastic composite: Experimental investigation and process parameter optimization <u>Bing Du</u> (Chongqing University of Science and Technology / Chongqing University), Guiyang Su (Chongqing University of Science and Technology), Wanling Long, Liming Chen (Chongqing University)
11:35-12:00		<b>1B03</b> Next-Generation Lightning Strike Protection via Nano-Carbon Materials <u>Zhong Zhang</u> (University of Science and Technology of China)	<b>1C03</b> Sound absorption, insulation, and load-bearing of 3D printed continuous flax fiber reinforced PLA composites <u>Zhixiong Bi</u> (Tongji University), Qian Li, Yukun Wang, Qianfan Chen, Yang Gao	<b>1D03</b> An indirect non-contact method for characterizing the thermal expansion and chemical shrinkage of the highly viscous epoxy resin BA9916 Weizhao Zhang (The Chinese University of Hong Kong), <u>Meiyu Liu</u>	<b>1E03</b> Effect of printing forces on compressive strength in a 3D printed continuous carbon fiber reinforced thermoplastic <u>Naruki Ichihara</u> (Nihon University), Shinnosuke Ohno, Masahito Ueda

## Day 1(Aug 27): Rooms A-E

12:00-13:00	Lunch time				
13:00-14:10 (70 min)	<b>Plenary Lecture 2 / Room S (1st floor: RY103)</b> Fibre-Reinforced Nanocomposites for Extreme Environments		<b>Speaker:</b> Prof. Chun Hui Wang (University of New South Wales, Sydney/Australia)		<b>Chair:</b> Prof. Mai Yiu Wing (The Hong Kong Polytechnic University/China)
14:10-14:25	Break / <b>Corporate Exhibition (1st floor: RY102)</b>				
	<b>Room A (1st floor: RY107)</b>	<b>Room B (2nd floor: RY207)</b>	<b>Room C (2nd floor: RY208)</b>	<b>Room D (2nd floor: RY204)</b>	<b>Room E (2nd floor: RY203)</b>
<b>Afternoon 1 Session</b>	<b>Keynote Lecture 2</b> Chair: Dr. Masaaki Nishikawa (Kyoto University/Japan)	<b>Functional Composites</b> Chair: Prof. Jun Ma(University of South Australia/Australia)	<b>Manufacturing/Processing</b> Chair: Prof. Richard Yang (Western Sydney University/Australia)	<b>Simulation&amp;Testing</b> Chair: Dr. Hanxing Zhao (Harbin Institute of Techonlogy/China)	<b>Joint Session</b> Chair: Dr. Masato Sakaguchi (Gifu University/Japan)
14:25-14:50	<b>Keynote Lecture 2 (45min):</b>  <b>Prof. He Chaobin</b> (National University of Singapore /Singapore)  <b>Entropy Driven Miscibility: An Strategy for Toughening Polymers</b>	<b>1B04</b> Coiled hold-release mechanism based on shape memory polymer composites for aerospace application <u>Dou Zhang</u> (Harbin Institute of Technology), Liwu Liu, Xin Lan, Yanju Liu, Jinsong Leng	<b>1C04</b> Evaluation on Hybrid-Joining Process of CF/PEEK Laminates Combining Ultrasonic Welding and CF/PEEK Rivet Fastening <u>Haruto Himeno</u> (Kindai University), Daiki Tanabe (Kobe City College of Technology), Takeshi Eguchi (Kindai University), Kazuaki Nishiyabu	<b>1D04</b> Machine learning-based mechanical metamaterials for full-band vibration isolation with adaptable payload Lingling Wu (Xi'an Jiaotong University), <u>Xinyu Song</u> , Dichen Li, Ji Zhou (Tsinghua University), Hanqing Jiang (Westlake University), Sen Yan (Tsinghua University), Yong Wang (Zhejiang University)	<b>1E04</b> Relationship between Fiber Orientation inside Thread and Mechanical Properties of CFRP Bolts Fabricated by Machining <u>Riku Ouchi</u> (Osaka Metropolitan University), Hayato Nakatani, Hiromichi So (SJJ), Taiei Kusuhara, Koji Ishizaki (BigFireworks)
14:50-15:15		<b>1B05</b> Boron nitride/polymer nanocomposite aerogels and hydrogels for sub-ambient passive cooling <u>Xiuli Dong</u> (The Hong Kong Polytechnic University), Xi Shen, Kit-Ying Chan	<b>1C05</b> Investigation on Fixation and Impregnation Behavior of Powder in Semi-preg CF/PPS Sheet <u>Seiran Murata</u> (Kindai University), Hayato Higashiyama, Mana Watanabe, Kazuaki Nishiyabu	<b>1D05</b> A data-driven way of discovering the laminate design rules considering the process-induced deformation <u>Cheng Qiu</u> (Institute of Mechanics, Chinese Adademy of Sciences), Yizhuo Gui	<b>1E05</b> Manufacturing of a recycled long carbon fiber spun yarn reinforced polyamide filament and the 3D printing <u>Masahito Ueda</u> (Nihon University), Keigo Sato, Naruki Ichihara
15:15-15:40		<b>1B06</b> Anisotropic nanocomposites by freeze-casting for tailored thermo-optical properties <u>Xi Shen</u> (The Hong Kong Polytechnic University)	<b>1C06</b> Additive manufacturing and innovative design of continuous fiber reinforced composite structures with multifunctions <u>Xiaoyong Tian</u> (Xi'an Jiaotong University)	<b>1D06</b> Multimodal Data Fusion Enhanced Deep Learning Prediction of Crack Path Segmentation in CFRP Composites Keke Tang (Tongji University), <u>Peng Zhang</u> , Jiangfeng Li	<b>1E06</b> Applications of shape memory materials and 4D printing in biomedical field <u>Yanju Liu</u> (Harbin Institute of Technology)
15:40-15:55	Break / <b>Corporate Exhibition (1st floor: RY102)</b>				



## Day 1(Aug 27): Rooms A-E

	Room A (1st floor: RY107)	Room B (2nd floor: RY207)	Room C (2nd floor: RY208)	Room D (2nd floor: RY204)	Room E (2nd floor: RY203)
<b>Afternoon 2 Session</b>	<b>Materials Science</b> Chair: Prof. Akihiro Wada (Osaka Sangyo University/Japan)	<b>Functional Composites</b> Chair: Prof. Xi Shen (The Hong Kong Polytechnic University/ Hong Kong)	<b>Manufacturing/Processing</b> Chair: Prof. Masahito Ueda (Nihon University/Japan)	<b>Simulation&amp;Testing</b> Chair: Prof. Keke Tang (Tongji University/China)	<b>Flame Retardancy and Fireproof</b> Chair: Dr. Yasuka Nassho (Toyama Prefectural University/Japan)
<b>15:55-16:20</b>	<b>1A07</b> Transparent Polymer Composite Films for Energy Conservation <u>Xianhu Liu</u> (Zhengzhou University)	<b>1B07</b> Designs of graphene-based nanocomposites with high thermal conductivity, EMI shielding effectiveness, and electrical insulation <u>Sung-Ryong Kim</u> (Korea National University of Transportation)	<b>1C07</b> Additive Manufacturing of Lightweight Curved Sandwich Structures with Continuous Fiber Reinforced Composites <u>Wudan Li</u> (Xi'an Jiaotong University), Xiaoyong Tian, Yiming Huang, Tengfei Liu, Kai Miao	<b>1D07</b> Development of Process Windows and Design Rules for the Thermoforming of Carbon Fibre Reinforced Plastics <u>Long Bin Tan</u> (Agency for Science, Technology and Research (A*STAR)), Zhen Yang Loh (National University of Singapore (NUS)), Vincent Beng Chye Tan	
<b>16:20-16:45</b>	<b>1A08</b> Research on Mechanical Properties of Resin Matrix Composite Bolted Connection Structures in Low Temperature Environment Meiying Zhao (Northwestern Polytechnical University), <u>Xiaoyang Ren</u>	<b>1B08</b> Stable and Sensitive Carbon Nanotube-Coated Fiber Sensors for Strain Monitoring of Composites Min Li (Beihang University), <u>Zilan He</u> , Fei Xing, Shaokai Wang, Yizhuo Gu	<b>1C08</b> Bionic 3D Multi-Scale Anti-Salt Solar Evaporator Achieving Long-Term Salt Resistance for High-Salinity Brine Via Additive Manufacturing <u>Luncao Li</u> (Tongji University)	<b>1D08</b> Study on ablation response prediction method of C/SiC ceramic matrix composites <u>Jiaxue Li</u> (Beijing University of Aeronautics and Astronautics), Zhidong Guan, Xiaodong Wang, Zengshan Li, Xiangyu Liu	<b>1E08</b> Dispersion of silica-coated carbon nanotubes and thermal and electrical properties of their epoxy composites <u>Hironari Fukuta</u> (Toyama Prefectural University), Kazuaki Sanada, Yasuka Nassho
<b>16:45-17:10</b>	<b>1A09</b> Development and Dynamic Mechanical Analysis of High-Strength PET Fiber Reinforced Polypropylene Jung-Il Song (Changwon National University), <u>Dong-Woo Lee</u> , Zolbayar Orkhonbaatar, Prabhakar M.N.	<b>1B09</b> Carbon Nanocomposites for Soft Sensors <u>Qingbin Zheng</u> (The Chinese University of Hong Kong, Shenzhen)	<b>1C09</b> Rotary 3D Printing and Buckling Analysis of Continuous Carbon Fiber Composite Grid Stiffened Cylindrical Shell <u>Mingliang Liu</u> (Xi'an Jiaotong University), Xiaoyong Tian	<b>1D09</b> Physical Fields Leading Structure Design Strategy for Meta-Fiber Reinforced Hydrogel Composites by Deep Learning <u>Xingyu Zhang</u> (Beijing University of Technology), Chuanzhi Liu, Xia Liu, Qingsheng Yang	<b>1E09</b> Thermal conductivity and self-healing under thermal cycling of alumina/epoxy resin composites containing microcapsules <u>Yasuka Nassho</u> (Toyama Prefectural University), Kazuaki Sanada, Hiroki Koyama, Koki Terada
<b>17:10-17:35</b>	<b>1A10</b> Metal Reinforcement Effect on the Impact Damage Behavior of Thin-Ply CFRP Laminates with Process-Induced Defects <u>Masaaki Nishikawa</u> (Kyoto University), Naoki Takatsuka, Benedikt Koetter, Kohei Yamada (Industrial Technology Center of Fukui Prefecture)	<b>1B10</b> Enhancing Quality Control and Monitoring of FRP Composites through Embedded Sensor Integration <u>Anchalee Duongthipthewa</u> (Southern University of Science and Technology), Limin Zhou	<b>1C10</b> Achieving ultrahigh fatigue resistance in nano-TiB <sub>2</sub> -decorated AlSi10Mg composites by additive manufacturing <u>Zhe Chen</u> (Shanghai Jiao Tong University)	<b>1D10</b> Study on the mechanisms of ultra-low temperature impact damage and temperature rise in epoxy resin Runze Zhang (Dalian University of Technology), <u>Lei Yang</u>	

# ACCM13 | 13th Asian-Australasian Conference on Composite Materials (ACCM13)

Day 1 (Aug 27): Rooms F-J

Time	Registration				
8:30	Registration				
9:15	Opening remarks / Room S (1st floor: RY103)				
9:20-10:30 (70 min)	<b>Plenary Lecture 1 / Room S (1st floor: RY103)</b> <b>Shape Memory Polymer Composites: Programmability, 4D Printing and Applications</b>		<b>Speaker:</b> <b>Prof. Jinsong Leng*</b> and Prof. Yanju Liu (*Harbin Institute of Technology/People's Republic of China)		<b>Chair:</b> <b>Prof. Tetsusei Kurashiki</b> (Osaka University/Japan)
10:30-10:45	Break				
	<b>Room F (2nd floor: RY202)</b>	<b>Room G (2nd floor: RY201)</b>	<b>Room H (2nd floor: RY206)</b>	<b>Room I (4th floor: RY405)</b>	<b>Room J (4th floor: RY404)</b>
<b>Morning 1 Session</b>	<b>Materials Science</b> Chair: Dr. Masaaki Nishikawa (Kyoto University/Japan)	<b>Functional Composite</b> Chair: Prof. Sung-Ryong Kim (Korea National University of Transportation/Korea)	<b>Manufacturing/Processing</b> Chair: Prof. Dong Gi Seong (Pusan National University/Korea)	<b>Simulation&amp;Testing</b> Chair: Prof. Shengyi Zhong (Shanghai Jiao Tong University/China)	<b>Applications</b> Chair: Dr. Qiang Fu (The University of Technology Sydney/Australia)
10:45-11:10	<b>1F01</b> High-Temperature Mechanical Behavior of Ceramic-Matrix Composites: Strength, Lifetime and Reliability <u>Longbiao Li</u> (Nanjing University of Aeronautics and Astronautics)	<b>1G01</b> Low-k Porous Polyimide composite Films for Microelectronic Applications <u>Jun-Wei Zha</u> (University of Science and Technology Beijing), Xiaodi Dong	<b>1H01</b> X-ray CT observation of AFP gap consolidation process in composite laminate <u>Masato Sato</u> (The University of Tokyo), Shu Minakuchi	<b>1I01</b> Damage Evolution and Failure Warning Analysis of Ceramic Matrix Composites Bolted Joints <u>Jinpeng Yang</u> (Northwestern Polytechnical University), Xiaoyan Tong, Leijiang Yao, Bin Li	<b>1J01</b> Machine Learning Assisted Omnidirectional Flexible Strain Sensor for Strain Direction and Amplitude Perception Bin Yang (Tongji University), <u>Lulu Yang</u> , Chaojie Hu, Wenlong Hu, Yu Cang
11:10-11:35	<b>1F02</b> Mechanical Properties of In-situ Grown Si3N4nw Synergistic Defective-Graphene Reinforced Alumina Ceramics <u>Yameng Jiao</u> (Northwestern Polytechnical University), Qiang Song, Fei Zhao, Xu Yang, Liyuan Han, Caixiang Xiao, Hejun Li	<b>1G02</b> Development of photo-crosslinkable fluoran dye-based stretchable electrochromic organogels for wearable electronics Woong-Ryeol Yu (Seoul National University), <u>Chan Young Kim</u>	<b>1H02</b> Ultrasonic Imaging of Out-of-plane Fiber Orientations for Thickness-Tapered Composites <u>Haorun Xu</u> (Tongji University), Xiwen Tan, Zhen Zhang, Qian Li	<b>1I02</b> A damage physics-guided approach to acoustic emission signals identification in composite materials <u>Fan Dong</u> (Northwestern Polytechnical University), Yazhi Li, Biao Li, Xiaopeng Li	<b>1J02</b> Detection of delamination in CFRP laminates by measuring strain distribution <u>Seira Nakajima</u> (Kochi University of Technology), Tatsuro Kosaka
11:35-12:00	<b>1F03</b> The superior synergistic oxidation resistance of medium-entropy carbide ceramic powders rather than multi-phase carbide ceramic powders <u>Jiachen Li</u> (Northwestern Polytechnical University), Yulei Zhang	<b>1G03</b> Constitutive theory and finite element implementation of photosensitive hydrogels considering the photoisomerization process <u>Xinyu Liu</u> (Beijing University of Technology), Qingsheng Yang	<b>1H03</b> Multi-parameter monitoring of composite forming using optical fiber sensor <u>Qi Wu</u> (Nanjing University of Aeronautics and Astronautics), Hanqi Zhang, Changhao Chen, Yuxi Zhang, Baocun Fan, Xiangrong Su	<b>1I03</b> Composite Micro-Crack Feature Recognition Based on Deformable Attention Unet <u>Zhengyan Yang</u> (Jiangnan University)	<b>1J03</b> Ionic Hydrogel Composite for High Electricity Generation Induced by Sustainable Moisture in Air <u>Su Yang</u> (The Hong Kong Polytechnic University)

## Day 1(Aug 27): Rooms F-J

12:00-13:00	Lunch time				
13:00-14:10 (70 min)	<b>Plenary Lecture 2 / Room S (1st floor: RY103)</b> Fibre-Reinforced Nanocomposites for Extreme Environments		<b>Speaker: Prof. Chun Hui Wang</b> (University of New South Wales, Sydney/Australia)		<b>Chair: Prof. Mai Yiu Wing</b> (The Hong Kong Polytechnic University/China)
14:10-14:25	Break / Corporate Exhibition (1st floor: RY102)				
	<b>Room F (2nd floor: RY202)</b>	<b>Room G (2nd floor: RY201)</b>	<b>Room H (2nd floor: RY206)</b>	<b>Room I (4th floor: RY405)</b>	<b>Room J (4th floor: RY404)</b>
<b>Afternoon 1 Session</b>	<b>Materials Science</b> Chair: Dr. Longbiao Li (Nanjing University of Aeronautics and Astronautics/China)	<b>Functional Composite</b> Chair: Prof. Seong Su Kim (Korea Advanced Institute of Science and Technology (KAIST)/Korea)	<b>Manufacturing/Processing</b> Chair: Dr. Daiki Tanabe (Kobe City College of Technology/Japan)	<b>Simulation&amp;Testing</b> Chair: Prof. Zhengyan Yang (Jiangnan University/China)	<b>Applications</b> Chair: Prof. Sarah Yixia Zhang (Western Sydney University/Australia)
14:25-14:50	<b>1F04</b> Multicomponent ultra-high temperature ceramic boride coating for ablation resistance of carbon/carbon composites <u>Junshuai Lv</u> (Northwestern Polytechnical University), Yulei Zhang		<b>1H04</b> Enhancing Polymer Impact and Fracture Toughness for Automotive Applications with Advanced Carbon Nanotube Dispersions <u>Ryota Sekiguchi</u> (CARBON FLY), Stephen C. Hawkins, Fei Deng	<b>1I04</b> In-situ mechanical testing technique and its applications in 2D nanomaterials <u>Chao Sui</u> (Harbin Institute of Technology), Chao Wang, Xiaodong He	<b>1J04</b> Research on electromechanical behavior of biomimetic tactile sensors with high dielectric and controllable Poisson's ratio polymer composites microstructures Weidong Yang (Tongji University), <u>Wenxuan Ding</u>
14:50-15:15	<b>1F05</b> Effect of SiCnw/PyC on mechanical and ablation behavior of FBCVI-C/C-HfC-SiC composites with Si/SiC coatings <u>Yi Cao</u> (Northwestern Polytechnical University), Jinhua Lu	<b>1G05</b> Multi-Field Swelling Performance of Porous Hydrogel Laminate Composites and Their Application in Microrobots <u>Zhesu Yu</u> (Beijing University of Technology), Xingyu Zhang, Qingsheng Yang	<b>1H05</b> Conductive Film and Magnetic Film as Susceptors for Induction Welding of Non-conductive Thermoplastic Composites <u>Jihwan Ha</u> (Gyeongsang National University), Byeongsu Kwak	<b>1I05</b> Study on the Load-Bearing Performance of Asymmetric Foam Sandwich Structures Considering Residual Stress <u>Lingxiao Yang</u> (Beijing University of Aeronautics and Astronautics), Zhidong Guan, Xiaodong Wang, Zengshan Li	<b>1J05</b> Ballistic Performance Analysis and Optimization Design of Ceramic/FRP Laminated Structures: Numerical and Experimental Study Zhonghai Xu (Harbin Institute of Technology), <u>Shibao Wu</u> , Xiaodong He
15:15-15:40	<b>1F06</b> Machine learning based multi-scale homogenization model for radiation induced volume expansion of CERCER composite fuels <u>Zhenyue Chen</u> (Tongji University), Yunmei Zhao, Xiaobin Jian	<b>1G06</b> Leaf-inspired COF composite actuator for smart devices <u>Cheng Gong</u> (Harbin Institute of Technology), Chao Wang, Chao Sui, Yushun Zhao		<b>1I06</b> Acoustic field characteristics and damage imaging method of ultrasonic phased array for carbon fiber reinforced plastics <u>Hongjuan Yang</u> (Dalian University of Technology), Guang Tian, Lei Yang, Zhanjun Wu	<b>1J06</b> Energy efficient water production through composite hydrogels <u>Qiang Fu</u> (The University of Technology Sydney)
15:40-15:55	Break / Corporate Exhibition (1st floor: RY102)				

## Day 1(Aug 27): Rooms F-J

	Room F (2nd floor: RY202)	Room G (2nd floor: RY201)	Room H (2nd floor: RY206)	Room I (4th floor: RY405)	Room J (4th floor: RY404)
<b>Afternoon 2 Session</b>	<b>Materials Science</b> Chair: Prof. Yu Zhang (Harbin Institute of Technology/China)	<b>Functional Composites</b> Chair: Dr. Junji Noda (Kindai University/Japan)	<b>Manufacturing/Processing</b> Chair: Prof. Akio Ohtani (Kyoto Institute of Technology/Japan)	<b>Simulation&amp;Testing</b> Chair: Prof. Hiroshi Saito (Kanazawa Institute of Technology/Japan)	<b>Applications</b> Chair: Prof. Tatsuro Kosaka (Kochi University of Technology/Japan)
<b>15:55-16:20</b>	<b>1F07</b> Study on compression-shear behavior and failure mechanisms of needled SiC/C-SiC composites under high temperature <u>Qipeng Xu</u> (Xi'an Jiaotong University), Jingjing Yang, Xueling Fan, Xiaochao Jin	<b>1G07</b> Development of Plant Oil-based Adhesives for Bamboo-based Composites <u>Renhui Qiu</u> (Fujian Agriculture and Forestry University), Wendi Liu, Liyuan Zhang, Yizhen Chen	<b>1H07</b> Near-zero Energy Curing Process for High-performance Thermosets and CFRPs via Ultrasonic Frontal Polymerization <u>Jinglei Yang</u> (The Hong Kong University of Science and Technology), Sepideh Sadat Hosseini , Patrick Ryan Galligana	<b>1I07</b> Unsupervised and Supervised Pattern Recognition of Acoustic Emission Data from Stress Rupture of C/SiC <u>Leijiang Yao</u> (Northwestern Polytechnical University), Peng Lyu (Northwestern Polytechnical University/Xi'an Institute of Space Radio Technology), Bin Li (Northwestern Polytechnical University), Xiaoyan Tong	<b>1J07</b> Towards a greener composite industry <u>Chris Rudd</u> (Yangtze River Delta Carbon Fiber and Composites Technology Innovation Center), Ziqian Liu, Siqi Hao, Dongyuan Hu, Lu Tong, Xiaosu Yi
<b>16:20-16:45</b>	<b>1F08</b> Anti ablation high-entropy oxides, carbides and borides coatings on C/C composites <u>Lingxiang Guo</u> (Northwestern Polytechnical University), Jia Sun, Qiangang Fu, Hejun Li	<b>1G08</b> Impact of Thin Film Surface Bonding on the Mechanical Properties of Injection Molded Wood Plastic Composites <u>Wycliffe Odhiambo Ondiek</u> (Yamaguchi University), Yuga Takagi, Yoh Kataoka (Ehime University), Arnaud Macadre (Yamaguchi University), Koichi Goda, Hirokazu Ito (Ehime University)	<b>1H08</b> High-efficiency manufacturing of epoxy resins through multi-point initiation of frontal polymerization <u>Tingting Luo</u> (Tongji University)		<b>1J08</b> Optimized Recyclable Separation and Recovery of Carbon Fibers from CFRP Composites Using Chemical Swelling and Electrochemical Oxidation in Dimethyl Sulfoxide Ji-Hua Zhu (Shenzhen University), <u>Chun Pei</u>
<b>16:45-17:10</b>	<b>1F09</b> Ablation resistant C/C-HfC-ZrC-TaC-SiC composites prepared by reactive melt infiltration <u>Menglin Zhang</u> (Northwestern Polytechnical University)		<b>1H09</b> Consolidation deformation suppression of composite gap/overlap sections by changing autoclave curing conditions <u>Yuichiro Mori</u> (The University of Tokyo), Shu Minakuchi	<b>1I09</b> Numerical Analysis on Thermoforming of Thermoplastic cross-plyed UHMWPE lamina for Ballistic Helmet <u>Mohit Garg</u> (Indian Institute of Technology Delhi), Hrishikesh Purohit , Rajesh Punia, Hemant Chouhan, Puneet Mahajan, Naresh Bhatnagar	<b>1J09</b> Hygroscopic internal stress of plant fiber composite based on XCT <u>Ning Jiang</u> (Shandong University of Technology)
<b>17:10-17:35</b>		<b>1G10</b> Reinforcement of shape memory effects of polylactic acid via blending with three-dimensional multi-hierarchical collagen fibers <u>Weixing Xu</u> (Sichuan University), Chao Lei, Yunhang Zeng, Bi Shi	<b>1H10</b> Evaluation on Thermo-lateral Compression Forming Process of CF/PEEK Rods for Grid-Skin Bonded Structures <u>Mioha Tadano</u> (Osaka University), Takeshi Eguchi (Kindai University), Kazuaki Nishiyabu, Tetsusei Kurashiki (Osaka University)	<b>1I10</b> High resolution cold neutron diffractometer for texture and stress analysis of engineering materials <u>Shengyi Zhong</u> (Shanghai Jiao Tong University)	<b>1J10</b> Degradation of CFRP against Laser Beam Through Advanced Characterization Techniques <u>Sarah Yixia Zhang</u> (Western Sydney University), Richard (Chunhui) Yang, Jajibabu Panta, Max Mammone, John Wang (Defence Science and Technology Group)

# ACCM13 | 13th Asian-Australasian Conference on Composite Materials (ACCM13)

Day 2(Aug 28): Rooms A-E

Time	Registration				
8:30	Registration				
9:20-10:30 (70 min)	<b>Plenary Lecture 3 / Room S (1st floor: RY103)</b> <b>Optimization of Thermoplastic and Thermoset composites : Effects of Geometry, Temperature, Moisture and Nanotube Reinforcement on Mechanical Performance</b>		<b>Speaker:</b> Prof. Yun-Hae Kim (Professor, Korea Maritime and Ocean University/Republic of Korea)		<b>Chair:</b> Prof. Tatsuro Kosaka (Kochi University of Technology/Japan)
10:30-10:45	Break / Corporate Exhibition (1st floor: RY102)				
	<b>Room A (1st floor: RY107)</b>	<b>Room B (2nd floor: RY207)</b>	<b>Room C (2nd floor: RY208)</b>	<b>Room D (2nd floor: RY204)</b>	<b>Room E (2nd floor: RY203)</b>
<b>Morning 1 Session</b>	<b>Materials Science</b> Chair: Prof. Toshiaki Natsuki (Shinshu University/Japan)	<b>Functional Composites</b> Chair: Prof. Xu-Ming Xie (Tsinghua University/China)	<b>Manufacturing/Processing</b> Chair: Prof. Qi Wu (Nanjing University of Aeronautics and Astronautics/China)	<b>Simulation&amp;Testing</b> Chair: Dr. Masato Nishi (JSOL CORPORATION/Japan)	<b>Keynote Lecture 3</b> Chair: Prof. Masayuki Okoshi (Gifu University/Japan)
10:45-11:10	<b>2A01</b> Investigating the Block Copolymer Deposition on Au Nanoparticle Surface via Graphene Liquid Cell <u>Xiaohui Song</u> (Hefei University of Technology), Xingyu Zhang (Beijing University of Technology)	<b>2B01</b> Scale-span Biomimetic Structural designs, Mechanics and Multi-functional Applications of Advanced MXene-based composites <u>Chao Wang</u> (Harbin Institute of Technology)	<b>2C01</b> Optimizing Ultrasonic Welding Process for CFRTP with CNT-Added Energy Directors by Electrical Resistance Monitoring Soma Nishimura (Osaka University)*, Daiki Tanabe (Kobe City College of Technology), Kazuaki Nishiyabu (Osaka University / Kindai University), Tetsusei Kurashiki (Osaka University)	<b>2D01</b> Multiscale Modeling and Application of Strain-Dependent Piezoresistive Behavior in Porous MWCNTs/Polymer Nanocomposites <u>Zefu Li</u> (Tongji University), Weidong Yang	<b>Keynote Lecture 3 (45min):</b>  <b>Mr. Katsuyuki Awano (HONDA R&amp;D/Japan)</b>  <b>Demand for weight reduction in automobile development and expectations for FRP with flame retardant properties</b>
11:10-11:35	<b>2A02</b> Numerical Prediction and Experimental Analysis of the Buckling Loads of SMPC Cylindrical Shells <u>Hanxing Zhao</u> (Harbin Institute of Technology), Xin Lan, Liwu Liu, Yanju Liu, Jinsong Leng		<b>2C02</b> Fabrication of fiber reinforced composites with the customized functions via drop filling process <u>Dong Gi Seong</u> (Pusan National University)	<b>2D02</b> Moving Particle Simulation of Flow Front Confluence in Injection Molded Short Fiber Reinforced Plastics <u>Masahiro Yonekura</u> (Osaka University), Naoyuki Inoue, Fumikazu Miyasaka, Kazutaka Mukoyama, Tetsusei Kurashiki, Masahiro Seto (Kanazawa Institute of Technology), Masashi Yamabe	
11:35-12:00	<b>2A03</b> Aramid nanofiber composite separators for lithium battery <u>Hui Nie</u> (Huazhong University of Science and Technology), Xingping Zhou, Xiaolin Xie, Yiu-Wing Mai	<b>2B03</b> Electrospun Ion-Selective Nanofiber Composites for Electrochemical Applications <u>Yue-E Miao</u> (Donghua University)	<b>2C03</b> Evaluation on Hybrid Insert Injection Molding Process Reinforced by Grid Structure of CF/PP Pultruded Rods <u>Togo Tsurusaki</u> (Kindai University), Takeshi Eguchi, Kazuaki Nishiyabu	<b>2D03</b> Simulation of the forming quality of the composite T-joint with different deltoid fillings Qi Wu (Nanjing University of Aeronautics and Astronautics), <u>Yanfeng Wang</u> , Ran Huo, Xingchen Xie	
12:00-13:00	Lunch time				

## Day 2(Aug 28): Rooms A-E

13:00-14:10 (70 min)	<b>Plenary Lecture 4 / Room S (1st floor: RY103)</b> Development of Core Technologies for Hydrogen Aircraft		<b>Speaker: Dr. Masahide Kazari (Executive, Group Manager, Hydrogen Aircraft Core Technology Research Project Group, Aerospace Systems Company, Kawasaki Heavy Industries/Japan)</b>		<b>Chair: Mr. Katsuyuki Kawashima (Kawasaki Heavy Industries/Japan)</b>
14:10-14:25	Break / Corporate Exhibition (1st floor: RY102)				
14:25-15:45	Poster Session / Room P (1st floor: RY101)				
15:45-16:00	Break / Corporate Exhibition (1st floor: RY102)				
	<b>Room A (1st floor: RY107)</b>	<b>Room B (2nd floor: RY207)</b>	<b>Room C (2nd floor: RY208)</b>	<b>Room D (2nd floor: RY204)</b>	<b>Room E (2nd floor: RY203)</b>
<b>Afternoon 1 Session</b>	<b>Applications</b> Chair: Dr. Junji Noda (Kindai University/Japan)	<b>Functional Composites</b> Chair: Dr. Hayato Nakatani (Osaka Metropolitan University/Japan)	<b>Manufacturing/Processing</b> Chair: Prof. Tetsusei Kurashiki (Osaka University/Japan)	<b>Simulation&amp;Testing</b> Chair: Dr. Masaaki Nishikawa (Kyoto University/Japan)	<b>Flame Retardancy and Fireproof</b> Chair: Prof. Aravind Dasari (Nanyang Technological University/Singapore)
16:00-16:25	<b>2A04</b> Multi-dimensional collaborative design of composite pressure vessel via progressive failure modeling <u>Lichuan Zhou</u> (Hefei University of Technology), Lei Zu	<b>2B04</b> 3D-printed interconnected composite aerogel for highly efficient solar evaporation <u>Xiaomeng Zhao</u> (The Hong Kong Polytechnic University), Yunfei Yang, Kit-Ying Chan, Xi Shen	<b>2C04</b> A strategy to improve interlaminar performance of all-CFRTP sandwich structure leveraging ultrasonic welding via CNTs films <u>Junxian Xiang</u> (Nanjing University of Aeronautics and Astronautics), Jie Tao, Huaguan Li (Nanjing Institute of Technology), Xi Chen (Nanjing University of Aeronautics and Astronautics)	<b>2D04</b> Topological design and experimental characterisation of continuous fibre-reinforced auxetic composites <u>Yuan Chen</u> (Southern University of Science and Technology), Lin Ye	<b>2E04</b> Advanced Halogen-Free Intumescent Type Flame Retardant Technology for Glass Fiber Reinforced Polypropylene <u>Hisashi Sakurai</u> (ADEKA corporation), Daiki Takahashi, Atsushi Sakai, Yutaka Yonezawa, Shinichi Ishikawa
16:25-16:50	<b>2A05</b> Bending Deformation Analyses of Twisted CFRTP Round Bars for Grid Structures <u>Chihiro Nagai</u> (Kindai University), Junji Noda	<b>2B05</b> Influence of Hole Making Techniques on Open-Hole Tensile Behaviour of Sustainable Composite Laminates <u>Binaz Varikkadinmel</u> (Indian Institute of Technology Roorkee), Karri Santhosh Kumar, Inderdeep Singh	<b>2C05</b> Bending Process Using Electrical-heating of CF/PEEK Round Rods Manufactured by Slitless Prepreg Sheet Thermal-Pultrusion Forming <u>Daichi Arikawa</u> (Kindai University), Takeshi Eguchi, Kazuaki Nishiyabu	<b>2D05</b> Machine learning-based method for Customizable Poisson's ratio design coupling additive manufacturing constraints <u>Jiacheng Xue</u> (Xi'an Jiaotong University), Haojie Zhang	<b>2E05</b> Thermal-triggered Eco-friendly Fire-extinguishing Microcapsules for Fire Prevention <u>Dan Li</u> (The Hong Kong University of Science and Technology), Jiaqiang Huang (The Hong Kong University of Science and Technology (Guangzhou)), Jinglei Yang (The Hong Kong University of Science and Technology)
16:50-17:15	<b>2A06</b> Theoretical verification and design of high-performance 3D glass sponge-like truss lattice based on machine learning <u>Yuna Sang</u> (Harbin Institute of Technology), Chao Wang, Chao Sui, Yushun Zhao	<b>2B06</b> Water Hyacinth as an Ideal Feasible Alternative for Developing Sustainable Composites <u>Inderdeep Singh</u> (Indian Institute of Technology Roorkee), Pinki Kumari, Bibhuti Ranjan Bhattacharjya	<b>2C06</b> Titanium Matrix Composites Fabricated by Hot Isostatic Pressing <u>Shuai Wang</u> (Harbin Institute of Technology), Lujun Huang, Lin Geng	<b>2D06</b> Machine Learning Based Mechanical Metamaterials Design <u>Lingling Wu</u> (Xi'an Jiaotong University), Xinyu Song, Jiacheng Xue, Tengfei Liu, Kai Miao, Xiaoyong Tian, Hanqing Jiang (Westlake University)	<b>2E06</b> Combustion behavior of CFRP/CFRTP <u>Masayuki Okoshi</u> (Gifu University)
18:30-20:30	Banquet (Hotel Granvia Kyoto)				

# ACCM13 | 13th Asian-Australasian Conference on Composite Materials (ACCM13)

Day 2(Aug 28): Rooms F-J

Time	Registration				
8:30	Registration				
9:20-10:30 (70 min)	<b>Plenary Lecture 3 / Room S (1st floor: RY103)</b> Optimization of Thermoplastic and Thermoset composites : Effects of Geometry, Temperature, Moisture and Nanotube Reinforcement on Mechanical Performance		<b>Speaker:</b> Prof. Yun-Hae Kim (Professor, Korea Maritime and Ocean University/Republic of Korea)		<b>Chair:</b> Prof. Tatsuro Kosaka (Kochi University of Technology/Japan)
10:30-10:45	Break / Corporate Exhibition (1st floor: RY102)				
	Room F (2nd floor: RY202)	Room G (2nd floor: RY201)	Room H (2nd floor: RY206)	Room I (4th floor: RY405)	Room J (4th floor: RY404)
<b>Morning 1 Session</b>	<b>Speech Session</b> Chair: Prof. Hideaki Katogi (Jissen Women's University/Japan)	<b>Speech Session</b> Chair: Dr. Daiki Tanabe (Kobe City College of Technology/Japan)	<b>Materials Science</b> Chair: Dr. Shuai Wang (Harbin Institute of Technology/China)	<b>Functional Composites</b> Chair: Prof. Wendi Liu (Fujian Agriculture and Forestry University/China)	<b>Simulation&amp;Testing</b> Chair: Prof. Leijiang Yao (Northwestern Polytechnical University/China)
10:45-11:10	<b>Speech Session for Best Student Poster Award 1</b>	<b>Speech Session for Best Student Poster Award 2</b>	<b>2H01</b> Thermal/moisture expansion behavior of ultra-high stability honeycomb sandwich structures based on carbon/carbon composites <u>Xi Chen</u> (Nanjing University of Aeronautics and Astronautics), Jie Tao, Huaguan Li (Nanjing Institute of Technology), Junxian Xiang (Nanjing University of Aeronautics and Astronautics)	<b>2I01</b> Optimizing Bonding Performance of CF/PEKK Composites: Enhancing Surface Energy and Adsorption Capacity with A-HNT Modified PEI Films <u>Kang-Min Kim</u> (Ocean Advanced Materials Convergence Engineering)	<b>2J01</b> Hybrid DOA-TDOA method for impact localization of aircraft composite structure using sensor clusters <u>Xu Zeng</u> (Dalian University of Technology), Shuang De Deng, Lei Yang, Jun Zhan Wu
11:10-11:35			<b>2H02</b> Nanoconfinement effect of polymer in the nanocomposites Youngseok Oh (Korea Institute of Materials Science ), <u>Hye Kyeong Jang</u> , Byeongho Park	<b>2I02</b> Effect of Interface Microstructure on Interlaminar Fracture Toughness in Dissimilar Joints of CFRTP and Aluminum Alloys <u>Atsushi Hosoi</u> (Waseda University), Kaori Kometani, Hiroyuki Kawada	<b>2J02</b> Ply Curving Termination for Strength Enhancement of Tapered Composites: Effect of Curving Geometry on Tensile Strength <u>Nao Ohashi</u> (The University of Tokyo), Shu Minakuchi
11:35-12:00			<b>2H03</b> Improving High Temperature Performance of Titanium Matrix Composites with Tailored Multi-scale Architecture <u>Lujun Huang</u> (Harbin Institute of Technology), Lin Geng	<b>2I03</b> Friction stir spot welding of aluminum alloy to carbon fiber reinforced thermosetting resin using tools with different surface shapes <u>Yuki Nagae</u> (Doshisha University), Kazuto Tanaka, Masataka Kawaguchi, Kimitaka Watanabe	<b>2J03</b> A combined loop/torsion test method for characterizing the anti-twisted performance of the carbon fibres Min Li (Beihang University), <u>Qidan Wang</u> , Shaokai Wang, Yizhuo Gu
12:00-13:00	Lunch time				

## Day 2(Aug 28): Rooms F-J

13:00-14:10 (70 min)	<b>Plenary Lecture 4 / Room S (1st floor: RY103)</b> Development of Core Technologies for Hydrogen Aircraft		<b>Speaker: Dr. Masahide Kazari (Executive, Group Manager, Hydrogen Aircraft Core Technology Research Project Group, Aerospace Systems Company, Kawasaki Heavy Industries/Japan)</b>		<b>Chair: Mr. Katsuyuki Kawashima (Kawasaki Heavy Industries/Japan)</b>
14:10-14:25	Break / Corporate Exhibition (1st floor: RY102)				
14:25-15:45	Poster Session / Room P (1st floor: RY101)				
15:45-16:00	Break / Corporate Exhibition (1st floor: RY102)				
	<b>Room F (2nd floor: RY202)</b>	<b>Room G (2nd floor: RY201)</b>	<b>Room H (2nd floor: RY206)</b>	<b>Room I (4th floor: RY405)</b>	<b>Room J (4th floor: RY404)</b>
<b>Afternoon 1 Session</b>	<b>Materials Science</b> Chair: Prof. Xiaohui Song (Hefei University of Technology/China)	<b>Functional Composites</b> Chair: Prof. Atsushi Hosoi (Waseda University/Japan)	<b>Simulation&amp;Testing</b> Chair: Dr. Norio Iwashita (National Institute of Advanced Industrial Science and Technology (AIST)/Japan)	<b>Materials Science</b> Chair: Prof. Chao Wang (Harbin Institute of Technology/China)	<b>Applications</b> Chair: Dr. Dou Zhang (Harbin Institute of Technology/China)
16:00-16:25	<b>2F04</b> Biaxial Stress Fatigue Test of unidirectional CFRP Laminates <u>Masahiro Arai</u> (Nagoya University), Masato Shirai, Keita Goto, Akinori Yoshimura	<b>2G04</b> Effect of molding pressure on crystal formation and interfacial properties of c-FRTP <u>Shota Takimoto</u> (Kyoto Institute of Technology), Akio Ohtani	<b>2H04</b> Delamination Detection of CFRP Laminates by Rayleigh Scattering-Based Sensor <u>Tatsuro Kosaka</u> (Kochi University of Technology), Fumiya Tajiri (Yamaha Motor)	<b>2I04</b> Optimizing Performance: Characterizing CFRP Composites Across Various Environmental and Loading Condition <u>Yun-Hae Kim</u> (National Korea Maritime and Ocean University), Sanjay Kumar	<b>2J04</b> Evaluation of Hydrostatic Change in Mechanical Properties of Hybrid-interface-controlled HAp/PLA Composite Materials Prepared Using Biodegradable Modification Polymers <u>Mototsugu Tanaka</u> (Kanazawa Institute of Technology), Takumi Yoshida, Takumi Ishida
16:25-16:50	<b>2F05</b> Rate-dependent mechanical and self-monitoring behavior of 3D printed continuous carbon fiber composites <u>Yinggang Miao</u> (Northwestern Polytechnical University), Lanting Liu, Xiaobin Hu (Ningbo Yutu Aviation Technology), Yu Zhang (Northwestern Polytechnical University), Qiong Deng, Yiuwing Mai (The Hong Kong Polytechnic University)	<b>2G05</b> Development of Soybean Oil-based Adhesives with Excellent Flame Retardance and Recyclability <u>Wendi Liu</u> (Fujian Agriculture and Forestry University)	<b>2H05</b> Anisotropic Evaluation of Mechanical Properties of Carbon Fibers <u>Norio Iwashita</u> (National Institute of Advanced Industrial Science and Technology (AIST)), Hideki Nagai, Kazuhiro Fujita	<b>2I05</b> Super-Toughness and Stiffness Balanced PLA/PBAT/CaCO3 Nanocomposites through Dynamic Vulcanization <u>Jie Feng</u> (Zhejiang University of Technology), Kai Cai	<b>2J05</b> Design and application of composite patch with negative Poisson's ratio mimicking cardiac mechanical properties <u>Heyuan Huang</u> (Northwestern Polytechnical University)
16:50-17:15	<b>2F06</b> High-efficient preparation of biomass-derived hierarchical porous carbon for supercapacitors <u>Yao Li</u> (Shanghai Jiaotong University), Yanyu Li, Di Zhang	<b>2G06</b> Effects of Bio-base phenolic resin on Deformability of Solid Wood <u>Yutaka Yoshifuji</u> (Kanazawa Institute of Technology), Kiyoshi Uzawa (Innovative Composite Center in Kanazawa Institute of Technology), Tsunehisa Miki (National Institute of Advanced Industrial Science and Technology), Masashi Horikawa (Innovative Composite Center in Kanazawa Institute of Technology)	<b>2H06</b> Damage Pattern Recognition of Fiber Breakage Based on Mel-frequency Cepstral Coefficients of AE Signal <u>Xuejiao Chen</u> (Northwestern Polytechnical University), Xiaoyan Tong, Leijiang Yao, Bin Li	<b>2I06</b> Insight into the enhanced interfacial adhesion of carbon fiber reinforced composites: a facile ferric ion and tannic acid self-assembly strategy <u>Hu Wenlong</u> (Tongji University), Yang Lulu, Cang Yu, Yang Bin	<b>2J06</b> Polyimide Aerogel Fibers for Personal Thermal Management <u>Wei Fan</u> (Jiangnan University)
18:30-20:30	Banquet (Hotel Granvia Kyoto)				



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Day 3(Aug 29): Rooms A-E

Time	Registration				
8:30	Registration				
9:20-10:30 (70 min)	<b>Plenary Lecture 5 / Room S (1st floor: RY103)</b> "Synthesis from Materials to Processes for Composites with Reduced Environmental Impact and Circular Economy" ICC Research into the Realization of Sustainable Composites		<b>Speaker:</b> Prof. Kiyoshi Uzawa (Director, Innovative Composite Center (ICC), Kanazawa Institute of Technology/Japan)		<b>Chair:</b> Dr. Hayato Nakatani (Osaka Metropolitan University/Japan)
10:30-10:45	Break / Corporate Exhibition (1st floor: RY102)				
	<b>Room A (1st floor: RY107)</b>	<b>Room B (2nd floor: RY207)</b>	<b>Room C (2nd floor: RY208)</b>	<b>Room D (2nd floor: RY204)</b>	<b>Room E (2nd floor: RY203)</b>
<b>Morning 1 Session</b>	<b>Keynote Lecture 4</b> Chair: Prof. Toshiaki Natsuki (Shinshu University/Japan)	<b>Functional Composites</b> Chair: Prof. Akihiro Wada (Osaka Sangyo University/Japan)	<b>Materials Science</b> Chair: Prof. Atsushi Hosoi (Waseda University/Japan)	<b>Simulation&amp;Testing</b> Chair: Dr. Masaaki Nishikawa (Kyoto University/Japan)	<b>Flame Retardancy and Fireproof</b> Chair: Prof. Akio Ohtani (Kyoto Institute of Technology/Japan)
10:45-11:10	<b>Keynote Lecture 4 (45min):</b>  <b>Prof. Hairon Chen,</b> <b>Mr. Mingjiang Ren,</b> <b>Dr. Hongying Ma</b> (Ningbo University/China)  <b>Soft piezoelectric composite microstructures for clinical respiratory sensing</b>	<b>3B01</b> Ultrasonic guided wave-based damping behavior monitoring for hierarchical flax fiber reinforced composite laminates Yan Li (Tongji University), <u>Songli Tan</u> , Zhen Zhang, Qian Li	<b>3C01</b> Effect of nano-dispersed CNT/CF on mechanical properties of CF RTP braided pipes <u>Riki Oishi</u> (Gifu University), Asami Nakai, Maki Onizuka (NITTA Corporation), Takuji Komukai	<b>3D01</b> The influences of initial fibre waviness and voids on kinking formation of UD composites under longitudinal compression <u>Lei Wan</u> (University of Hull)	<b>3E01</b> Synthesis of Sago Starch-based Intumescent Passive Fire Protection with Borax and Rice Husk Fillers Nur 'Izzati Rafa'ee (Universiti Teknologi Brunei), Fethma M Nor (Curtin University), <u>Denni Kurniawan</u> (Universiti Teknologi Brunei/Curtin University)
11:10-11:35		<b>3B02</b> Evaluating Sustainable Polymeric Composite Films for Food Packaging using Multi-Criteria Decision Making <u>Aditi Mahajan</u> (Indian Institute of Technology Roorkee), Inderdeep Singh, Navneet Arora	<b>3C02</b> Enhanced Triboelectric and Flame-Retardant Properties through Self-Assembled Interfacial Design of Conjugated Polymers Yong Tae Park (Myongji University), <u>Nebiyou Tadesse Debele</u> , Alemtsehay Tesfay Reda	<b>3D02</b> Preliminary studies on the test standardization of interface shear strength in thermoplastic composites Xiao-Jun Wang (Sichuan University), <u>Yuan Dong</u> , Jia-Cao Yang, Mei-Lin Zhang, Gang Zhang, Jie Yang	<b>3E02</b> Enhancing Thermal and Mechanical Properties of Phenolic Resin Composites via Epoxy Integration <u>Zhao Sha</u> (The University of New South Wales (UNSW), Sydney), Chen Sang, Chun Hui Wang, Jin Zhang, Sonya A. Brown
11:35-12:00		<b>3B03</b> Bioinspired and Responsive Structural-Color Cellulose Nanocrystal Materials <u>Fei Song</u> (Sichuan University)	<b>3C03</b> Design and Construction of Functional Polymers and Their Composites for Fire/Thermal-Safety and High-Performance Lithium Batteries <u>Gang Wu</u> (Sichuan University)	<b>3D03</b> Multiscale theory of MEMS microbeam structures <u>Shuo Wang</u> (Tongji University)	<b>3E03</b> Lightweight and Eco-friendly Fireproof Graphene Aerogels <u>Junjiao Li</u> (Harbin Institute of Technology), Chao Wang, Chao Sui, Yushun Zhao

## Day 3(Aug 29): Rooms A-E

12:00-13:00	Lunch time				
	Room A (1st floor: RY107)	Room B (2nd floor: RY207)	Room C (2nd floor: RY208)	Room D (2nd floor: RY204)	Room E (2nd floor: RY203)
<b>Afternoon 1 Session</b>	<b>Materials Science</b> Chair: Prof. Lujun Huang (Harbin Institute of Technology/China)	<b>Functional Composites</b> Chair: Prof. Renhui Qiu (Fujian Agriculture and Forestry University/China)	<b>Manufacturing/Processing</b> Chair: Dr. Masaaki Nishikawa (Kyoto University/Japan)	<b>Simulation&amp;Testing</b> Chair: Dr. Hideaki Katogi (Jissen Women's University/Japan)	<b>Flame Retardancy and Fireproof</b> Chair: Ms. Shiho Kuwashiro (Osaka Research Institute of Industrial Science and Technology/Japan)
<b>13:00-13:25</b>	<b>3A04</b> Enhancing cryogenic mechanical properties of epoxy resins by incorporating mesoporous SiO2 <u>Shichao Li</u> (Jiangnan University), Shan Chen	<b>3B04</b> Tensile Responses and Mechanisms of Natural Palm Bamboo under Wide Strain Rate Loading Yinggang Miao (Northwestern Polytechnical University), <u>Chenxu Zhang</u> , Ruoheng Sun	<b>3C04</b> Pre-consolidation Process Towards the In-plane Mechanical Test of Uncured UD Prepregs <u>Shaomeng Jin</u> (Xi'an Jiaotong University), Xinyu Hui, Jin Zhou	<b>3D04</b> A damage coupled accumulation model of EB-PVD thermal barrier coatings under isothermal oxidation, thermal fatigue and creep conditions <u>Ziang Li</u> (Xi'an Jiaotong University), Dongxu Li, Jingjing Yang, Xueling Fan	<b>3E04</b> A Novel Flame-Retardant Polycarbonate with Low Smoke and Heat Release <u>Zini Wang</u> (Sichuan University), Bowen Liu, Li Chen, Yuzhong Wang
<b>13:25-13:50</b>	<b>3A05</b> Development of network TiBw/Ti2AlNb intermetallic matrix composites <u>Yu Zhang</u> (Harbin Institute of Technology), Lujun Huang, Lin Geng	<b>3B05</b> Tough and strong surface-grafted cellulose nanofiber one-component nanocomposites <u>Sikai Chen</u> (Southwest Jiaotong University)	<b>3C05</b> Additive Manufacturing of Continuous Carbon Fiber reinforced composites with Ultra-high Interlaminar Shear Strength <u>Lei Yang</u> (Wuhan University of Technology)	<b>3D05</b> The failure modes of carbon/glass hybrid double-double laminates and pseudo-ductility <u>Chenlong Ruan</u> (Zhejiang University), Bowen Gong, Huan Wang, Huaxin Peng	<b>3E05</b> Scientific Discovery Framework Accelerating Flame-Retardant Materials Design <u>Teng Fu</u> (Sichuan University)
<b>13:50-14:15</b>	<b>3A06</b> The role of TiB2 particles on promoting homogeneous deformation in aluminum alloy studied via in situ micropillar compression <u>Yuchi Cui</u> (Shanghai Jiao Tong University)	<b>3B06</b> An elastic-viscoplastic constitutive model of nonlinear tensile behaviors of twisted flax fiber reinforced composites under cyclic loading and unloading conditions <u>Bo Wen</u> (Tongji University), Qian Li, Zhen Zhang, Yan Li	<b>3C06</b> Deformation behavior of metal/thermoplastic CFRP laminates during press forming <u>Miumi Naito</u> (Kochi University of Technology), Tatsuro Kosaka	<b>3D06</b> Application of Nonlocal Toughening Strategy in Lattice Materials <u>Wanlu Wang</u> (Beijing University of Technology), Junjie Liu, Qingsheng Yang	<b>3E06</b> Closed-Loop Chemically Recyclable High-Performance Fire-Safe Polycarbonate <u>Bo-Wen Liu</u> (Sichuan University), Xiang-Xin Xiao, Yu-Zhong Wang
<b>14:15-14:40</b>	<b>3A07</b> Revelation of plastic strain in titanium matrix composites using the orientations of short fiber reinforcements as indicator <u>Rui Zhang</u> (Harbin Institute of Technology), Lujun Huang, Fei Yang (The University of Waikato)	<b>3B07</b> Green and intelligent strategy for the preparation of flame retardant plant fiber reinforced composites <u>Tao Yu</u> (Tongji University), Zhibiao Wei, Yanfang Zhu	<b>3C07</b> 4D printing continuous fiber reinforce liquid crystal elastomer composites soft robot with programmable thermal actuation <u>Daokang Zhang</u> (Xi'an Jiaotong University), Xiaoyong Tian	<b>3D07</b> An Estimation Method for S-N Curve of Composite Materials <u>Takuya Yamamoto</u> (Itochu Techno-Solutions), Yoshihiro Ohnishi, Tatsuo Sakakibara, Masaru Zako (Osaka University)	<b>3E07</b> Recyclable flame retardant materials <u>Hai-Bo Zhao</u> (Sichuan University)

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Day 3(Aug 29): Rooms F-J

Time	Registration				
8:30	Registration				
9:20-10:30 (70 min)	<b>Plenary Lecture 5 / Room S (1st floor: RY103)</b> "Synthesis from Materials to Processes for Composites with Reduced Environmental Impact and Circular Economy" ICC Research into the Realization of Sustainable Composites		<b>Speaker:</b> Prof. Kiyoshi Uzawa (Director, Innovative Composite Center (ICC), Kanazawa Institute of Technology/Japan)		<b>Chair:</b> Dr. Hayato Nakatani (Osaka Metropolitan University/Japan)
10:30-10:45	Break / Corporate Exhibition (1st floor: RY102)				
	<b>Room F (2nd floor: RY202)</b>	<b>Room G (2nd floor: RY201)</b>	<b>Room H (2nd floor: RY206)</b>	<b>Room I (4th floor: RY405)</b>	<b>Room J (4th floor: RY404)</b>
<b>Morning 1 Session</b>	<b>Materials Science</b> Chair: Dr. Junji Noda (Kindai University/Japan)	<b>Materials Science</b> Chair: Prof. Yun-Hae Kim (National Korea Maritime and Ocean University/Korea)	<b>Functional Composite</b> Chair: Prof. Xingyi Zhu (Tongji University/China)	<b>Functional Composites</b> Chair: Prof. Yue Hou (Wuhan University/China)	<b>Applications</b> Chair: Prof. Hiroshi Saito (Kanazawa Institute of Technology/Japan)
10:45-11:10	<b>3F01</b> Structural designs, Mechanical and Thermal Properties of Continuous Zirconia Ceramic fibers and their nanocomposites <u>Chao Wang</u> (Harbin Institute of Technology)	<b>3G01</b> Investigation and optimization of composite plate subjected to bird strike <u>Liu Jun</u> (Northwestern Polytechnical University), Liu Zong Xing, Zhang Chun Yang	<b>3H01</b> Quasi-hyperbolic framework of graphite foam-based composites with high thermal conductivity and electromagnetic shielding properties fabricated by electrochemical expansion method <u>Rong Zhang</u> (Hubei University of Technology)	<b>3I01</b> Design, preparation, and performance of microsphere shaped fire-safety phase change composite materials <u>Cong Deng</u> (Sichuan University)	<b>3J01</b> Interlayer toughened and interfacial enhanced mxene composites are used for in-situ damage sensing and electromagnetic interference shielding <u>Zhongwen Hu</u> (Central South University), Tiantian Wang, Jinsong Yang
11:10-11:35	<b>3F02</b> Structural Design, Mechanics, and Applications of Carbon Nanotube Fibers <u>Yushun Zhao</u> (Harbin Institute of Technology)	<b>3G02</b> Demonstration of a resilient conductive CNT network for Si anodes in Li Ion batteries <u>Genki Odahara</u> (CARBON FLY), Fei Deng	<b>3H02</b> Improving Thermal Conductivity of PAN/PITCH Hybrid Carbon Fiber Composite through Stitching Process <u>Hun-Cheol Choi</u> (Gyeongsang National University), Min-Ju Lee, Byeong-Su Kwak	<b>3I02</b> Phosphorus-Containing Diels-Alder Chemistry for Repairable, Remoldable, Recyclable, Fire Safety Epoxy Resins and Their Carbon-Fiber Composites <u>Li Chen</u> (Sichuan University), Song Gu, Yu-Zhong Wang	<b>3J02</b> Thermal Insulating and Fire Retardant Si3N4 Nanowires Membranes Resistant to High-Temperatures up to 1300 °C <u>Yeye Liu</u> (Northwestern Polytechnical University), Leilei Zhang, Ruonan Zhang, Siqi Shao, Lina Sun, Xinyi Wan, Tiantian Wang
11:35-12:00	<b>3F03</b> Improved oxidation resistance of CVD-SiC coating at 1300 °C by Ti addition <u>Bing Liu</u> (Northwestern Polytechnical University), Jia Sun, Qiangang Fu	<b>3G03</b> Characteristics of Urushi Composite Films by Thermosetting Reaction <u>Kazushi Yamada</u> (Kyoto Institute of Technology), Chieko Narita (Kyoto Sangyo University)	<b>3H03</b> Exploitation of Life-cycle structural health monitoring technique based on magnetic fibers <u>Faxiang Qin</u> (Zhejiang University)	<b>3I03</b> Understanding the parameters influencing the interlaminar shear strength and flammability properties of polyamide/carbon fiber composites <u>Aravind Dasari</u> (Nanyang Technological University)	<b>3J03</b> Compression Behavior of Composites Laminates With A Hole <u>Zhao Junging</u> (Harbin Institute of Technology), Ge Yong

## Day 3(Aug 29): Rooms F-J

12:00-13:00	Lunch time				
	Room F (2nd floor: RY202)	Room G (2nd floor: RY201)	Room H (2nd floor: RY206)	Room I (4th floor: RY405)	Room J (4th floor: RY404)
Afternoon 1 Session	<b>Journal Session</b> Chair: Prof. Hao Wang (University of Southern Queensland/Australia)	<b>Materials Science</b> Chair: Prof. Kazushi Yamada (Kyoto Institute of Technology/Japan)	<b>Functional Composite</b> Chair: Prof. Kazuya Okubo (Doshisha University/Japan)	<b>Functional Composites</b> Chair: Prof. Cong Deng (Sichuan University/China)	<b>Applications</b> Chair: Prof. Mototsugu Tanaka (Kanazawa Institute of Technology/Japan)
13:00-13:25	<h3>Journal Session</h3>	<b>3G04</b> Design, Preparation and Properties of Absorption-dominated Electromagnetic Shielding Polymer Composites <u>Meng Ma</u> (Zhejiang University of Technology), Wenqin Shao, Xiao Liang, Qiang Peng, Xu Wang	<b>3H04</b> Stackable and Deployable Laser-Induced Graphene Layers toward the Flexible Manufacturing of Smart Honeycomb Composites with Multifunctional Performance <u>Sida Luo</u> (Beihang University), Yan Gao, Mingguang Han	<b>3I04</b> ML-Based Prediction of Morphological Configuration and Mechanical Behavior of Thermo-Active Composites Keke Tang (Tongji University), <u>Yinglong Liu</u> , Ruizheng Zhang, Yujie Xiang	<b>3J04</b> Multi-source response study on vibration and fatigue of composite connectors <u>Ding Hao</u> (Tongji University), Li Qian, Zhang Zhen, Shi Wei Ye
13:25-13:50		<b>3G05</b> Effect of Localized Interlaminar Toughening on Damage Behavior in Unidirectional CFRP Laminates with Fiber Discontinuities <u>Hayato Nakatani</u> (Osaka Metropolitan University), Keisuke Hara (National Institute of Technology, Wakayama College)	<b>3H05</b> Multifunctional nanocomposite conductive PF-127 hydrogels: Synthesis, Experiment, and Wearable application Xiaopeng Wan (Northwestern Polytechnical University), <u>Zhicheng Dong</u>	<b>3I05</b> Long lasting heat dissipation of flexible heat sink for wearable thermoelectric device based on phase change composite material <u>Yue Hou</u> (Wuhan University), Ziyu Wang, Qianfeng Ding	<b>3J05</b> Research on the ablative behaviors of CVD-TaC/SiC multilayer coatings influenced by the thickness ratio of different TaC sublayers <u>Jing'An Kong</u> (Northwestern Polytechnical University), Yulei Zhang, Hejun Li
13:50-14:15		<b>3G06</b> Fabrication of circuit boards with low dielectric loss, low thermal expansion coefficient and high thermal conductivity for high-frequency communication <u>Wenhong Ruan</u> (Sun Yat-sen University (Zhongshan University)), Linyuan Liao, Minqiu Zhang	<b>3H06</b> Carbon-based Nanocomposite Aerogels for Highly Efficient Solar Steam Generation <u>Dan Liu</u> (The Chinese University of Hong Kong)	<b>3I06</b> Triboelectric Nanogenerator based Self-Powered vehicle-infrastructure collaborative perception <u>Xingyi Zhu</u> (Tongji University), Yafeng Pang	<b>3J06</b> Low-velocity impact and compression after impact behaviors of composite bonded repair <u>Wen Zhao</u> (Xi'an Jiaotong University), Jin Zhou, Zhongwei Guan (Advanced Materials Research Centre, Technology Innovation Institute, Abu Dhabi)
14:15-14:40		<b>3G07</b> Pseudo-Ductility due to Micro-damage Accumulation Initiated at Fiber Discontinuities in CFRP Laminates with Mesh Interlayers <u>Shinsuke Imura</u> (Osaka Metropolitan University), Shunya Matsui, Hayato Nakatani	<b>3H07</b> Effect of Application of Frictional Stir Drilling (FSD) Technique for Opening Hole on CFRTP(Carbon Fiber Reinforced Thermo-Plastic) for Fastening with Aluminum plate by Conventional Screw Bolt <u>Kazuya Okubo</u> (Doshisha University), Kiyotaka Obunai, Riko Minami	<b>3I07</b> Development of Zinc Basic Salt-Infused PVA-PEI Composite for Antimicrobial and Triboelectric Applications Yong Tae Park (Myongji University), <u>Alemtsehay Tesfay Reda</u>	

# ACCM13 | 13th Asian-Australasian Conference on Composite Materials (ACCM13)

Poster Session: Day 2 (Aug 28) afternoon, Room P (1st floor: RY101) / Speech Session : Day 2 morning

Time	Speech Session for Best Student Poster Award 1 / Room F (2nd floor: RY202) Chair: Prof. Hideaki Katogi (Jissen Women's University/Japan)	Speech Session for Best Student Poster Award 2 / Room G (2nd floor: RY201) Chair: Dr. Daiki Tanabe (Kobe City College of Technology/Japan)
10:45-10:50	<b>PF-01:</b> Delamination Characterization for Thick Composites Structures with Variable Fiber Angles Using Ultrasonic Through Transmission Inspection Zhen Zhang (Tongji University), <u>Zitong Nie</u> , Zehua Li, Hengkun Zhao, Ziyu Zhang, Rongyao Li, Bo Li, Andong Cao	<b>PG-01:</b> Evaluation of High-Temperature Electromagnetic Performance of Radar Absorbing Material using Arc Plasma Jongkwang Lee (Hanbat National University), <u>Byungwoo Choi</u> , Taewoong Kang, Sangmin Baek (Agency for Defense Development)
10:50-10:55	<b>PF-02:</b> Fracture Properties and Strength Evaluation of PAN-based Carbon Fiber and Micro-sized CFRP under Biaxial Tensile-Torsional Loading <u>Mikiyasu Hashimoto</u> (Yamaguchi University), Siti Farhanah, Arnaud Macadre, Koichi Goda	<b>PG-02:</b> Rational Tuning Electronic Structure of High-Entropy Layered Double Hydroxide for Robust and Durable Water Splitting Joong Hee Lee (Jeonbuk National University), <u>Khoa Dang Tran</u> , Hoang Tuan Nguyen, Duy Thanh Tran, Nam Hoon Kim
10:55-11:00	<b>PF-03:</b> Clearance dependence on measured shear modulus of elasticity from double-wrap joint test <u>Kisumi Tanaka</u> (Kindai University), Katushi Honda, Junji Noda	<b>PG-03:</b> Surface Modification of Nickel Molybdenum Oxide Hydrate via Cation/Anion Substitution to Promote Water Splitting Joong Hee Lee (Jeonbuk National University), Nguyen Tram Anh Duong, <u>Woo Sung Jung</u> , Duy Thanh Tran, Nam Hoon Kim
11:00-11:05	<b>PF-04:</b> Reconstruction of RVEs for non-orthogonal composite fabrics from micro-CT scanning via deep learning Weizhao Zhang (The Chinese University of Hong Kong), <u>Chongrui Tang</u> , Deyong Sun, Yuncong Feng (University of Bristol), Yifeng Xiong (Northwestern Polytechnical University)	<b>PG-04:</b> Bending properties of CFRP-GC hybrid beam with U-shape cross-section <u>Kei Arauchi</u> (Graduate School of Kindai University), Junji Noda (Kindai University)
11:05-11:10	<b>PF-05:</b> Experimental and numerical characterization of thin woven fabrics compaction response accounting for the influence of yarn angle variation <u>Deyong Sun</u> (The Chinese University of Hong Kong), Wanrui Zhang, Jianchao Zou, Yifeng Xiong (Northwestern Polytechnical University), Chongrui Tang (The Chinese University of Hong Kong), Weizhao Zhang	<b>PG-05:</b> Development of a patch-type EFPI sensor using CFRP <u>Hiroki Tanaka</u> (Kochi University of Technology), Tatsuro Kosaka, Yoneta Tanaka (ADTEC ENGINEERING)
11:10-11:15	<b>PF-06:</b> Covalent Triazine Framework Hollow Nanospheres-Modified Separators for High-Energy Lithium Metal Battery <u>Yufei Yang</u> (Huazhong University of Science and Technology), Hui Nie, Xingping Zhou, Xiaolin Xie	<b>PG-06:</b> Microstructural evolution and failure mechanism of twisted carbon nanotube fibers with hierarchical structure <u>Yangfan Wu</u> (University of Science and Technology of China)

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Time	Speech Session for Best Student Poster Award 1 / Room F (2nd floor: RY202)	Speech Session for Best Student Poster Award 2 / Room G (2nd floor: RY201)
11:15-11:20	<b>PF-07:</b> Evaluation of Mechanical Properties for Carbon-Fiber Strand Specimen under Operating Environment <u>Dae-Han Cheon</u> (Hanbat National University), Kwang-Bok Shin, Seong-Yeon Kim, Da-Bin Lim, Yeong-Hwan Jeon	<b>PG-07:</b> Flame-retardant, thermally conductive, mechanically strong epoxy composites with phenylphosphonic acid-functionalized boron nitride nanosheets Xingping Zhou (Huazhong University of Science and Technology), <u>Hongru Zhou</u> , Yingfeng Wen, Zhigang Xue (Huazhong University of Science and Technology), Xiaolin Xie
11:20-11:25	<b>PF-08:</b> withdraw	<b>PG-08:</b> Bending and Impact Properties of Hybrid Glass Fiber Clothes Composite with Substituted Sheets of Alkali Treated Cotton Scrap in Core <u>Shunya Yamamoto</u> (Doshisha University Graduate School), Kazuya Okubo (Doshisha University), Kiyotaka Obubai
11:25-11:30	<b>PF-09:</b> AE Characteristics in Pseudo-ductility of CFRP Laminates with Mesh Interlayers <u>Shunya Matsui</u> (Osaka Metropolitan University), Shinsuke Imura, Hayato Nakatani	<b>PG-09:</b> Effect of girder thickness on on-axis load-displacement relationship of full-scale tsunami evacuation shelter <u>Yui Kawai</u> (Kindai University), Junji Noda, Katsushi Honda
11:30-11:35	<b>PF-10:</b> Characteristics of AE Induced by Single Fiber Breakage in CFRP in Time-Frequency Domain <u>Kazuki Yamamoto</u> (Graduate School of Kochi University of Technology), Tatsuro Kosaka (Kochi University of Technology)	<b>PG-10:</b> Effect of Localized Bending Stiffness on Joint Strength between CFRTPLaminates and Self-piercing and Clinch Nut <u>Taichi Kiyokawa</u> (Osaka Metropolitan University), Hayato Nakatani, Rikiya Nishimura (Shinjo Manufacturing), Daisuke Naka, Yuichi Hatanaka
11:35-11:40	<b>PF-11:</b> Improvement of measurement system of degree of cure of resin during cure and post-cure processes <u>Kansei Shiota</u> (Graduate School of Kochi University of Technology), Tatsuro Kosaka (Kochi University of Technology)	<b>PG-11:</b> Optimum molding conditions for high-speed pultrusion of CFRTPL pipes <u>Kento Yamada</u> (Gifu University), Masaki Ohishi (Satoh Machinery Works), Asami Nakai (Gifu University)
11:40-11:45	<b>PF-12:</b> Multiscale analysis of cure effects on Z-pinned composites Yingjie Xu (Northwestern Polytechnical University), <u>Jisiyuan Cheng</u> , Weihong Zhang, Weiwei Liu	

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	Posters by full delegates	Posters by full delegates
<b>Poster Session</b>	<p><b>P-01:</b> Improvement of Interfacial Electrical Contact Resistance Between Carbon Composite Bipolar Plate and Copper Current Collector for Battery and Fuel Cell Applications Jun Woo Lim (Jeonbuk National University), <u>Jaeheon Choe</u> (Korea Railroad Research Institute)</p>	<p><b>P-02:</b> Research on the correlation mechanism of multi-scale brain injury under impact load <u>Jing Wang</u> (Aerospace Center Hospital), Yiming Guan (Beijing Institute of Technology), Jingran Ge, Jun Liang</p>
	<p><b>P-03:</b> Ruthenium-Doped Co-Ni Nanoparticles in N-Doped CNTs: A Robust Catalyst for Hydrogen Evolution in Diverse Media Abhisek Majumdar (Jeonbuk National University), Keshav Raj, Naresh Raut, Duy Thanh Tran, <u>Nam Hoon Kim</u>, Joong Hee Lee</p>	<p><b>P-04:</b> Rational Integration of 1T – Mo – VTe<sub>2</sub> and NiTe<sub>2</sub> as A Hierarchical 1T – Mo – VTe<sub>2</sub>@NiTe<sub>2</sub> Heterostructure on Carbon Cloth for Water Splitting <u>Joong Hee Lee</u> (Jeonbuk National University), Purna Prasad Dhakal, Ganesh Bhandari, Duy Thanh Tran, Nam Hoon Kim</p>
	<p><b>P-05:</b> Kirigami-inspired composite metamaterials with quasi-zero stiffness characteristics for vibration isolation <u>Seong Su Kim</u> (Korea Advanced Institute of Science and Technology (KAIST)), Hyunsoo Hong, Samuel Kim, Wonvin Kim, Wonki Kim, Jae-Moon Jeong</p>	<p><b>P-06:</b> Effect of the methods of pulp surface treatment on the mechanical properties of pulp reinforced polymer composite materials <u>Yoh Kataoka</u> (Ehime University), Hirokazu Ito, Masafumi Kambara (AIPA), Yasuhiro Tsuzuki (Ehime Institute of Industrial Technology Paper Technology Center)</p>
	<p><b>P-07:</b> Fabrication of Inorganic Inverse Opal Photonic Balls for Environmental Applications <u>Wonmok Lee</u> (Sejong University), Yong Seok Kim, Hyun Min Jung (Kumoh National Institute of Technology)</p>	<p><b>P-08:</b> Construction of chitosan-based drug/gene dual delivery system and study on its synergistic anti-tumor effect <u>Jing Chang</u> (Ocean University of China)</p>
	<p><b>P-09:</b> Sustainable Radiative Cooling Films from Upcycled Oyster Shells <u>Youngjae Yoo</u> (Chung-Ang University), Byung-II Choi (Korea Testing &amp; Research Institute)</p>	<p><b>P-10:</b> Optimizing Lay-up Methods for Enhanced Performance of Bistable Piezoelectric Wind Energy Harvesters <u>Fuhong Dai</u> (Harbin Institute of Technology)</p>
	<p><b>P-11:</b> Withdraw</p>	<p><b>P-12:</b> Mechanical properties and solvent resistance of carbon fiber reinforced ionic cross-linked methacrylate composites <u>Shiho Kuwashiro</u> (Osaka Research Institute of Industrial Science and Technology), Nozomu Nakao (University of Hyogo), Satoshi Matsuda, Keitaro Kago (Osaka Research Institute of Industrial Science and Technology), Hajime Kishi (University of Hyogo)</p>

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	Posters by full delegates	Posters by full delegates
<b>Poster Session</b>	<p><b>P-13:</b> Chitosan Nanocomposite-based Self-Healing Hydrogel Flexible Films for Triboelectric Nanogenerators and Self-Powered Sensors  <u>Yong Tae Park</u> (Myongji Univeristy), Hai Anh Le</p>	<p><b>P-14:</b> Artificial neural network-based homogenization model for predicting multiscale mechanical properties of woven composites  <u>Bing Wang</u> (Harbin Institute of Technology), Menglei Li</p>
	<p><b>P-15:</b> Trial manufacturing of composite material using waste polymer and grass fiber  <u>Hideaki Katogi</u> (Jissen Women's University)</p>	<p><b>P-16:</b> Conjugated Coordination Polymer as A New Platform for Electrochemical Synthesis of Ammonia  <u>Longsheng Zhang</u> (Jiangnan University)</p>
	<p><b>P-17:</b> The effects of MMT on the crystallization behavior of PA6/GF/MMT composites and the mechanisms  <u>Yangin Shi</u> (Zhejiang University of Technology), Xutao Zhang, Xu Wang, Meng Ma, Yulu Zhu, Si Chen, Huiwen He</p>	<p><b>P-18:</b> Study on the evolution of microstructure and mechanical properties of ultra-high temperature carbon fibre  <u>Weihua Xie</u> (Harbin Institute of Technology), Zheng Wang</p>