SCHEDULE

2025 International Conference on "Physics and Mechanics of New Materials and Their Applications" (PHENMA 2025) Kitakyushu, Japan, September 27-30, 2025

Day 1 (September 27, 2025) Saturday		
Time	**Activity**	**Place**
13:00-16:00	**Conference Pre-Meeting**	
16:00-18:00	**Registration of the PHENMA 2025 participants at REGISTRATION DESK**	

Welcome reception

Day 2 (September 28, 2025) Sunday		
Time	**Activity**	**Place**
09:00-10:00	**Registration of the PHENMA 2025 participants at REGISTRATION DESK**	
10:00-10:03	**Opening address (Prof. Noda)**	
10:03-10:12	**Congratulatory address (Prof. Chang, Prof. Kim, Prof. Parinov)**	
10:12-10:30	**Group photo**	
10:30-10:40 (10min)	**Break**	
10:40-11:20 (40min)	**Keynote Speech I (Japan)**	**Main Room**
11:20-12:00 (40min)	**Keynote Speech II (Taiwan)**	**Main Room**
12:00-13:20 (80min)	**Lunch Break**	

13:20-14:25 (65min)	**Parallel Sessions (Invited and Oral Presentations)**	**Room 1~4**
14:25-14:40 (15min)	**Tea Break**	
14:40-17:05 (65min)	**Parallel Sessions (Invited and Oral Presentations)**	**Room 1~4**
17:05-17:20 (15min)	**Move to Banquet place**	
17:20-20:00	**Banquet(Room 1)**	

Poster mounting time: September 28th AM.

Day 3 (September 29, 2025) Monday		
Time	**Activity**	**Place**
09:00-10:00	**Registration of the PHENMA 2025 participants at REGISTRATION DESK**	
10:00-10:40 (40min)	**Keynote Speech I (Russia)**	**Main Room**
10:40-11:20 (40min)	**Keynote Speech II (India)**	**Main Room**
11:20-11:30 (10min)	**Tea Break**	
11:30-12:10 (40min)	**Keynote Speech III (Korea)**	**Main Room**
12:10-13:30 (80min)	**Lunch Break**	
13:20-14:20 (50min)	**Parallel Sessions (Invited and Oral Presentations)**	**Room 1~4**
14:20-14:30 (10min)	**Tea Break**	
14:30-15:20 (50min)	**Parallel Sessions (Invited and Oral Presentations)**	**Room 1~4**
15:20-15:30 (10min)	**Tea Break**	
15:30-16:30 (60min)	**Poster Presentation**	

Day 4 (September 30, 2025) Tuesday		
Time	**Activity**	**Place**
09:00-16:00	**Technical Tour**	

Presentation Details

Day 2 (September 28, 2025) Sunday		
Oral details (12min presentation / 3min Q&A)		
13:20-14:25 (65min)	**Parallel Sessions (Invited and Oral Presentations)**	**Room 1~4**
13:20-13:40 (20min)	**Invited speaker (17min presentation / 3min Q&A)**	
13:40-13:55 (15min)	Oral 1	
13:55-14:10 (15min)	Oral 2	
14:10-14:25 (15min)	Oral 3	
14:25-14:40 (15min)	Tea Break	
14:40-17:05 (65min)	**Parallel Sessions (Invited and Oral Presentations)**	**Room 1~4**
14:35-14:55 (20min)	**Invited speaker (17min presentation / 3min Q&A)**	
14:55-15:10 (15min)	Oral 1	
15:10-15:25 (15min)	Oral 2	
16:50-17:05 (15min)	Oral 3	

Day 3 (September 29, 2025) Monday		
Oral details (12min presentation / 3min Q&A)		
13:20-14:20 (50min)	**Parallel Sessions (Invited and Oral Presentations)**	**Room 1-3**
13:30-13:50 (20min)	**Invited speaker (17min presentation / 3min Q&A)**	

13:50-14:05 (15min)	Oral 1	
14:05-14:20 (15min)	Oral 2	
14:20-14:30 (10min)	Tea Break	
14:30-15:20 (50min)	**Parallel Sessions (Invited and Oral Presentations)**	**Room 1-3**
14:30-14:50 (20min)	**Invited speaker (17min presentation / 3min Q&A)**	
14:50-15:05 (15min)	Oral 1	
15:05-15:20 (15min)	Oral 2	
15:20-15:30 (10min)	Tea Break	
15:30-16:30 (60min)	**Poster Presentation**	
17:00-17:30 (30min)	**Closing Ceremony**	**Main Room**

Oral Presentations

Day 2 (September 28, 2025) – Sunday

Main hole (Room1)		
10:40-12:00	**Chairs : Prof. Nao-Aki Noda** **Co-Chairs : Prof. Shun-Hsyung Chang**	
10:40-11:20 (40min)	**Technical Development to Resolve the Bottlenecks for Effective Use of Seabed Resources (Shin-ichi Nishida*, Yuji Sakamoto)**	**Keynote Speech I (Japan)**
11:20-12:00 (40min)	**Improve GaN-based Green Micro-LEDs Performance with AlGaN/InGaN Multiple Quantum Wells Structure by V-pits Engineering Shoou-Jinn Chang, Dept. of E. E. at National Cheng Kung University**	**Keynote Speech I (Taiwan)**

Room 1 (Structure)		
Oral details (12min presentation / 3min Q&A)		
13:20-14:25 (65min)	**Parallel Sessions (Invited and Oral Presentations) (Session chair: Dr. Se-Yoon Kim)**	**Structure**
13:20-13:40 (20min)	**Fatigue Strength of Bimetallic Solid Roll and Bimetallic Sleeve Roll Based on Residual Stress Analysis and Rolling Stress Analysis (Nao-Aki Noda)**	**Invited speaker (17min presentation / 3min Q&A)**
13:40-13:55 (15min)	Influence of Butt Joint Hole Location on the Flexural Behavior of Carbon Fiber Reinforced Epoxy Composites for Bonding Applications (Jae-Young Lee1, Jin-Woo Lee1, Ji-Eun Lee, Yun-Hae Kim*)	Oral 1
13:55-14:10 (15min)	Prediction of Adhesive Joint Strength based on the Intensity of Singular Stress Field and Elasto-plastic Analysis (Rei Takaki*, Nao-Aki Noda, Yasuaki Suzuki, Kazuhiro Oda)	Oral 2
14:10-14:25 (15min)	Material Extrusion Additive Manufacturing of Aluminum Alloy: Investigation of Heating Extruder and Coil Shape Effects (Rahul Kumar Choubey*, Prashant Kumar Jain)	Oral 3
14:25-14:40 (15min)		**Tea Break**

Room 2 (Analysis)
Oral details (12min presentation / 3min Q&A)

13:20-14:25 (65min)	**Parallel Sessions (Invited and Oral Presentations) (Session chair: Dr. Sung-Youl Bae)**	**Analysis**
13:20-13:40 (20min)	**A Rotary Piezoelectric Energy Harvester for Fusing System of Artillery Gun Munitions: Design and Simulation (Tejkaran Narolia, Rajendra Gupta, Anyokti Goure)**	**Invited speaker (17 min presentation / 3min Q&A)**
13:40-13:55 (15min)	Finite Element Analysis and Comparative Study of Effective Properties of Foam Structures with Diverse Cell Types and Scale Levels (A.S. Kornievsky*, A.V. Nasedkin)	Oral 1
13:55-14:10 (15min)	Characterization of Air Pollutant Emissions from Small Coastal Vessels during Operation (Yu Ting Jao, Han Pin Pu, Chin Ko Yeh*)	Oral 2
14:10-14:25 (15min)	Evaluation of Tuned Mass Damper Mechanism in Quarter Car Model for Enhanced Suspension Dynamics (Swati Devi*, Vijay Kumar Gupta)	Oral 3
14:25-14:40 (15min)		**Tea Break**
14:40-17:05 (65min)	**Parallel Sessions (Invited and Oral Presentations) (Session chair: Dr. Sung-Won Yoon)**	**Analysis**
14:35-14:55 (20min)	**Practical Applications of Hypersingular Integrals in Mean Field Particle Simulations. (Yu. E. Drobotov*)**	**Invited speaker (17min presentation / 3min Q&A)**
14:55-15:10 (15min)	Atomistic Modelling and Prediction of Mechanical Properties of h-BNNS-Reinforced Epoxy/Kevlar Nanocomposites using Molecular Dynamics Simulation (Prem Pratap Jadon, Anuj Chavda, Om S. Vyas, Neetu Chaudhary, Mithilesh K. Dikshit)	Oral 1

Room 3(Industry)
Oral details (12min presentation / 3min Q&A)

13:20-14:25 (65min)	**Parallel Sessions (Invited and Oral Presentations) (session chair: Prof. Akihide Saimoto)**	**Math.**
13:20-13:40 (20min)	**Exact solutions of two-dimensional Wiener-Hopf equations and structural properties of materials under nonstationary conditions (V.A. Babeshko*, O.V. Evdokimova, O.M. Babeshko)**	**Invited speaker (17min presentation / 3min Q&A)**
13:40-13:55 (15min)	New Formulation for Highly Accurate Analysis of Cracks in General Composites. (Yohei Sonobe*, Sei Hisatsune, Takuichiro Ino, Takuya Kitamura, Atsuhiro Koyama, Akihide Saimoto)	Oral 1
13:55-14:10 (15min)	Effective Sparse Matrix Operations for Generalized Eigenvalue Problems in Finite Element Analysis (T.S. Martynova, G.V. Muratova, P.A. Oganesyan*, I.D. Ignatenko)	Oral 2
14:10-14:25 (15min)	Riesz Fractional Calculus on Power-Weighted Variable Generalized Hölder Spaces over Metric Measure Spaces (Yu. E. Drobotov*)	Oral 3
14:25-14:40 (15min)		**Tea Break**
14:40-17:05 (65min)	**Parallel Sessions (Invited and Oral Presentations) (Session chair: Pankaj Kionkar)**	**AI & Industry**
14:35-14:55 (20min)	**AI Drones for Blade Defect Inspection in Offshore Wind Turbines. (You-Wei Liang, Jia-Cheng Lee*, Jin-Ting Yu, Chun-Lien Su.)**	**Invited speaker (17min presentation / 3min Q&A)**
14:55-15:10 (15min)	Iterative Regularization with Machine Learning Priors for Internal Crack Identification in Composite Panels (Yu. E. Drobotov*)	Oral 1
15:10-15:25 (15min)	The Exploring Pacific Sperm Whale π Project: Establishing the Acoustic Signature Database for Cetacean Taiwan Eastern Maritime Waters. (Wen Chai-Sheng*, Liao Hung-Chi, Lan Zhen-Feng, Wen Meng-Che, Lu Shi-Ming, Chang Shun-Hsyung)	Oral 2
16:50-17:05 (15min)	Green MIMO Detection. (Yi-Mei Chiang*, Hoang-Yang Lu, Mao-Hsu Yen, Shun-Hsyung Chang)	Oral 3

Room 4 (Nanoscience)		
Oral details (12min presentation / 3min Q&A)		
13:20-14:25 (65min)	**Parallel Sessions (Invited and Oral Presentations) (Session chair: Prof. Chitsan Lin)**	**Sensing**
13:20-13:40 (20min)	**Feasibility Study of Thermoelectric Power Generation from Biothermal Energy during Aerobic Composting (Po-Yang Chen, Tsung-Po Hwang, Chitsan Lin*)**	**Invited speaker (17min presentation / 3min Q&A)**
13:40-13:55 (15min)	Effect of Microstructure Geometry on the Performance of Flexible Resistive Pressure Sensors: A Simulation Study (Abhinav Sharma, Shubham Kumar Mishra, Shivanku Chauhan, Mohd. Zahid Ansari*)	Oral 1
13:55-14:10 (15min)	Design of Non-invasive Paper-based Colorimetric Sensor for the Detection of Nitric Oxide (NO) from Exhaled Breath to Monitor Asthma Disease (Shazidul Hussain, Sangita mjumder, Md. Jashim Uddin, Debajyoti Bhattacharjee, Syed Arshad Hussain)	Oral 2
14:10-14:25 (15min)	Structural Monitoring of Fiber-Reinforced Composite Blade of Wind Turbine Using FBG Sensing Technology (Jui-Chi Lin*, Cheng-Jung Li, Chien-Ching Ma, Yu-Hsi Huang)	Oral 3
14:25-14:40 (15min)		**Tea Break**
14:40-17:05 (65min)	**Parallel Sessions (Invited and Oral Presentations) (Session chair: Emarti Kumari)**	**Nanoscience**
14:35-14:55 (20min)	**Development of Effective Photocatalysts Using Graphene Oxide-based Semiconductor Nanocomposites for the Photodegradation of Organic Dyes (Pankaj Koinkar)**	**Invited speaker (17min presentation / 3min Q&A)**
14:55-15:10 (15min)	Effects of Graphene Nanoparticles in Enhancing the Mechanical and Wear Behaviour of Al-B4C Nanocomposite (Deepak Kumar, R. Seethara*, K. Ponappa)	Oral 2

15:10-15:25 (15min)	Influence of Cesium Bromide Concentration on the Crystallinity and Emission Properties of $CsPbBr_3$Thin Films (Min Yen Yeh, Hsin-Hao Chen, Ssu Han Liao, Chen Cheng Tung, Yun-Shiuan Yeh, Jin-Hau Yeh, Shun Hsyung Chang)	Oral 2
14:05-14:20 (15min)		

Oral Presentations

Day 3 (September 29, 2025) – Monday

Main hole (Room 1)		
10:00-11:20	**Chairs: Prof. Yu. E. Drobotov Co-chairs: Poonam Kumari**	
10:00-10:40 (40min)	**Some Algorithms for Comparing Models of Laser Radiation Propagation (Boris Melnikov*, Tatiana Lysak)**	**Keynote Speech II (Russia)**
10:40-11:20 (40min)	**Dimensional Analysis-Based Breach Capacity Model and Reliability Assessment of Steel-Concrete-Steel Composite Panels under Contact Explosions. Department of Civil Engineering, Indian Institute of Technology Guwahati, Guwahati, Assam, India (Kangkana Kaushik Baruah, Sanchit Saxena, Prof. Hrishikesh Sharma)**	**Keynote Speech II (India)**
11:20-11:30 (10min)		**Tea Break**
11:30-12:10	**Chair: Prof. Pankaj Koinkar**	

11:30-12:10 (40min)	**Development of the Eco-Friendly Self-Reinforced PET Composites and Its application (Prof. Yun-Hae Kim and Dr. Se-yoon Kim, National Korea Maritime and Ocean University)**	**Keynote Speech III (Korea)**

Room 1 (Structure)		
Oral details (12min presentation / 3min Q&A)		
13:20-14:20 (50min)	**Parallel Sessions (Invited and Oral Presentations) (Session chair: Prof. Kazuhiro Oda)**	**Structure**
13:30-13:50 (20min)	**Prediction of the Actual Structural Response of Lattice-cored Sandwich Panels Fabricated by Powder Bed Fusion Process (Kuniharu Ushijima, Haruto Sano)**	**Invited speaker (17min presentation / 3min Q&A)**
13:50-14:05 (15min)	Experimental Investigation on Thermal Fatigue Analysis of High-Performance Concrete for Nuclear Containment Structures (Sanchit Saxena*, Hrishikesh Sharma, Poonam Kumari)	Oral 1
14:05-14:20 (15min)	Effect of Pre-Loading on the Bonding Properties and Mechanical Reliability of CF/PEKK Laminates (Min-Jun Kim, Kang-Min Kim, Yun-Hae Kim)	Oral 2
14:20-14:30 (10min)		**Tea Break**
14:30-15:20 (50min)	**Parallel Sessions (Invited and Oral Presentations) (Session chair: Prof. Min Yen Yeh)**	**Structure**

14:30-14:50 (20min)	**Willis Homogenization Method for Elastic Metamaterials (Gengkai Hu)**	**Invited speaker (17min presentation / 3min Q&A)**
14:50-15:05 (15min)	Optimized Grid Design for Stiffness Enhancement in Self-Reinforced PET Composites (Ji-Yeol Kim, Kyo-Moon Lee, Se-Yoon Kim, Yun-Hae Kim*)	Oral 1
15:05-15:20 (15min)	Evaluation of Fracture Toughness and Delamination Behavior According to Open Hole Structure of Thermoplastic Composite (Kyo-Moon Lee, Sanjay Kumar, Yun-Hae Kim)	Oral 2
15:20-15:30 (10min)		**Tea Break**

Room 2 (Structure)		
Oral details (12min presentation / 3min Q&A)		
13:20-14:20 (50min)	**Parallel Sessions (Invited and Oral Presentations) (Session chair: Prof. Antonio Norio Nakagaito)**	**Structure**
13:30-13:50 (20min)	**Adhesive Strength Evaluation of Scarf Joint by Intensity of Singular Stress Field (Tatsujiro Miyazaki*, Yuki Mikawa, Kiichi Miyagi, Nao-Aki Noda)**	**Invited speaker (17min presentation / 3min Q&A)**
13:50-14:05 (15min)	Optimization of PZT Patch Placement and Geometry for Enhanced Performance of Piezoelectric Cantilever Beams (Shubham Kumar Mishra, Abhinav Sharma, Mohd. Zahid Ansari1, Afzal Husain)	Oral 1
14:05-14:20 (15min)	Prevention and Failure Mechanisms for an Airfoil-type Crack Subjected to Mechanical and Thermoelectric Loading. (Yi-Lun Liao*, Ching Kong Chao, Yu-Hsi Huang.)	Oral 2

14:20-14:30 (10min)		**Tea Break**
14:30-15:20 (50min)	**Parallel Sessions (Invited and Oral Presentations) (Session chair: Kang-Min Kim)**	**Structure**
14:30-14:50 (20min)	**Free Vibration Analysis of Functionally Graded Sandwich Curved Panels (Urjasvita Priyadarshini Gaur, Emarti Kumari*.)**	**Invited speaker (17min presentation / 3min Q&A)**
14:50-15:05 (15min)	Optimizing Bonding Performance in CF/PEKK Composites: The Role of Isothermal Crystallization (Kang-Min Kim, Tae-Sun Bang, Kyo-Moon Lee, Yun-Hae Kim*)	Oral 1
15:05-15:20 (15min)	Effect of Thermal Aging above the Melting Point on the Bonding Performance of LMPAEK Composites (Tae-Sun Bang, Kang-Min Kim, Se-Yoon Kim, Yun-Hae Kim*)	Oral 2
15:20-15:30 (10min)		**Tea Break**

Room 3		
Oral details (12min presentation / 3min Q&A)		
13:20-14:20 (50min)	**Parallel Sessions (Invited and Oral Presentations) (Session chair: Dr. Chang-Wook Park)**	**Math.**
13:30-13:50 (20min)	**Study on the Fundamental Density Function for a Piezoelectric Stress/Electric Displacement Concentration Problem due to an Impermeable Elliptic Hole in the Body Force Method Analysis (Akihide Saimoto*, Yohei Sonobe, Takuya Kitamura, Astuhiro Koyama, Yi Zhang)**	**Invited speaker (17min presentation / 3min Q&A)**
13:50-14:05 (15min)	Inverse Calculation of Material Constants for Orthotropic and Piezoelectric Material by Algorithm. (Yu-Ting Lin*, Yang-Kai Jain, and Yu-Hsi Huang.)	Oral 1

14:05-14:20 (15min)	Stress Concentration Formula Useful for any Dimensions of a Stepped Round Bar with Fillet under Torsion (Y. Takahata*, K. Oda, K. Sakamoto, N.-A. Noda)	Oral 2
14:20-14:30 (10min)		**Tea Break**
14:30-15:20 (50min)	**Parallel Sessions (Invited and Oral Presentations) (Session chair : Dr. Man-Tae Kim)**	**Nanoscience**
14:30-14:50 (20min)	**Interaction between Palladium (Pd) and Carbon Nanotubes (CNT) (8,0) Studied through First Principles DFT Calculations (Sangeeta A. Nirmal, M. R. Sonawane, R. G. Atram)**	**Invited speaker (17min presentation / 3min Q&A)**
14:50-15:05 (15min)	Preliminary Study on the Scalability of Cellulose Nanofiber Extraction from Fruit Residue by Sonication (Antonio Norio Nakagaito)	Oral 1
15:05-15:20 (15min)	High-performance ZnO-, TiO2-acrylonitrile styrene acrylate nanocomposites for 3D printing with enhanced thermal and UV-shielding properties (Sagar Kailas Gawali, Prashant Kumar Jain)	Oral 2
15:20-15:30 (10min)		**Tea Break**

Room 4		
Oral details (12min presentation / 3min Q&A)		
13:20-14:20 (50min)	**Parallel Sessions (Invited and Oral Presentations) (Session chair: Prof. Sungmin Yoon)**	**Sensing**

13:30-13:50 (20min)	**Generation of Representative Volumes Using Tetrahedral Meshes for the ACELAN-COMPOS Package (S.A. Gorshkov, P.A. Oganesyan, E.I. Fomenko*)**	**Invited speaker (17min presentation / 3min Q&A)**
13:50-14:05 (15min)	Thermal Performance Improvement in Multi-Pass Solar Collector Incorporating Phase-Change Material and Roughened Absorber Surface (Himanshu Pachori, Tushar Choudhary, Tanuja Sheorey)	Oral 1
16:50-17:05 (15min)	Design and Development of MoS_2/BiOCl/Pt Ternary Nanocomposite via Combined Hydrothermal and Laser Ablation Techniques for Enhanced Photocatalytic Activity (Niloy Paul, Tetsuro Katayama, Akihiro Furube, Pankaj Koinkar)	Oral 3
14:20-14:30 (10min)		**Tea Break**
14:30-15:20 (50min)	**Parallel Sessions (Invited and Oral Presentations) (Session chair: Sung-Uk Yu)**	**Structure**
14:30-14:50 (20min)	**Mathematical Analysis of Damped Vibrations of a Piezoelectric Vibration Energy Harvester under Base Excitation (Ryuusuke Kawamura*, Yusaku Yoshizako, Yasuhiro Bonkobara, Ryoya Miyasaka)**	**Invited speaker (17min presentation / 3min Q&A)**
14:50-15:05 (15min)	Unified Adhesive Strength Evaluation for Various Geometries and Loading Conditions Using the Edge Interface Crack Method (Kazuhiro Oda*, Nao-Aki Noda)	Oral 1
15:05-15:20 (15min)	Enhancement of Flame Retardancy in Self-Reinforced PET Composites via Eco-Friendly Spray Coating (Se-Yoon Kim, Yun-Hae Kim)	Oral 2
15:20-15:30 (10min)		**Tea Break**

Poster Presentations

1. **Chang-Wook Park, Sung Won Yoon, Tae-Yeob Kim.**

Analysis of Deformation Characteristics of Pipes for Optimization of Precision Processing Equipment in Shipbuilding

2. **Chanui Park, Dogyun Byeon, Sungmin Yoon.**

Molecular Dynamics Analysis of High Temperature Mechanical Properties in Pure Titanium

3. **Chong-Yi Li, Zong-Liang Tseng Shun-Hsyung Chang.**

$CsPbI_3$/TOPO Composite Nanowires for Enhanced Red Emission in Color-Conversion LEDs.

4. **Dogyun Byeon, Tae-min Kim, Sungmin Yoon.**

Applicational Research for Transition Metal Dichalcogenides & High Entropy Alloy using Self-Propagating High-Temperature Synthesis

5. **Dongho Kim, Eunji Park, Donghyeok Im.**

Study of Degradation Rate of Biodegradable Polymers Using Langmuir Technique: Analysis at Molecular Level

6. **Dongho Kim, Eunji Park, Donghyeok Im**.

Synthesis and Characterization of Ultraviolet Curable Coating Agent Using Urethane Acrylate for Canopies

7. **Donghyeok Im, Dongho Kim, Eunji Park, Jin Hong Lee.**

Development of High-Performance Epoxy Resin for Film-Type Adhesive Materials in Aircraft Structures

8. **Donghyeok Im, Dongho Kim, Eunji Park, Jin Hong Lee.**

Tailoring Hydrophobicity: Comparing Main-Chain vs. Sidechain PDMS in Polyurethane Acrylate Coating

9. **Huang-Chang Lee.**

Received OFDM Signal Evaluation for the Oversampled Underwater Channel Response

10. **Hyeon-Mok Jung, Woo-Hyuk Son, Min-Ji Koo, Sung-Youl Bae.**

Effect of Conductivity Methods and Fiber Selection on EMI Functional Composites

11. **Keh-Moh Lin, Ming-Hsien Shih, Ya-Xiu Liang, Wen-Tse Hsiao.**

Investigation of Hyperspectral Imaging System for Silicon Carbide Substrates

12. **Kuan-Yu Ke, Xiu-Jia Guan, Tseung-Yuen Tseng, Zong-Liang Tseng, Shun Hsyung Chang.**

Enhanced Efficiency of Red $CsPbI_3$ QD-LEDs Enabled by Polymeric Hole Transport Layers

13. **Ming-Hsien Shih, Chi-Hung Liu.**

A Hybrid Model for Solder Joint Reliability Prediction Using Finite Element Analysis and Machine Learning Techniques

14. **Po-Chen Wang, Yi-Lun Liao, Ching-Kong Chao.**

Fracture Trajectories of an Infinite Plate Weakened by an Inclined Elliptical Hole under Uniaxial Tension and Compression

15. **Sih-An Chen, Zong-Liang Tseng, Shun-Hsyung Chang.**

TOAB Induced Ligand Anion Exchange for Emission Modulation in $FAPbI_{3-x}Br_x$ Perovskite Quantum Dots

16. **So Youn Mun, Min-Ji Koo, Man-Tae Kim, Sung-Youl Bae.**

Design and Performance Evaluation of Optimized Fiber Metal Laminates (FML) Configurations Using AI-Based Modeling

17. **Sung-Uk Yu, Yoon-Ji Yim, Dong-Jun Kwon, Jae-geun Lee.**

Electro-Mechanical Response and Structural Health Monitoring of Laminated CFRPs under Flexural Loading

18. **Sung-Won Yoon, Joo-Shin Park, Chang-Wook Park.**

Analysis of Structural Strength and Design Integrity of a Wind Assisted Propulsion System Using Composite Materials for Eco-Friendly Ships

19. **Ta-Chi Jeang, Thai Hung Cuong, Seyed Hossein Rouhani, Hung-Yu Wang.**

Symbolic Nodal Analysis of VCII Networks

20. **Tae-Yeob Kim, Chang-Wook Park, Sung-Won Yoon.**

Optimization Analysis of Double Vacuum Pipe Design for Liquid Hydrogen Transport

21. **Taemin Kim, Dogyun Byeon, Sungmin Yoon.**

Damage Recovery and Improved Fatigue Property of Stainless Steel Using High-density Pulsed Electric Current

22. **S. W. Tan, C. W. Chang, W. C. Liu.**

The Influence of Ambient Temperature on the Thermodynamic Interactions Governing Ammonia Adsorption on the Surface of Platinum Nano-Particles/Indium Gallium Oxide Sensor

23. **Wan-Yu Xu, Yi-Lun Liao, Yu-Hsi Huan, Ching-Kong Chao.**

Impact and Failure Analysis of Multi-layer Ceramic Capacitors on Printed Circuit Boards.

24. **Weison Lin, Shing-Yu Tsai.**

Smart Lock System with End-to-End Encryption and Remote Credential Control Using ESP32.

25. **Woo-Hyuk Son, Hyeon-Mok Jung, Min-Ji Koo, Sung-Youl Bae.**

Development of an Urban Air Mobility Fuselage Lightweight Design Process via AI Predictive Modeling on Big Data from Automated Composite Manufacturing.

26. **Yin-Ting Hsu, Hsin-Yu Lin, Zong-Liang Tseng, Shun Hsyung Chang**

TOAB-Passivated $CsPbI_{3-x}Br_x$ Nanoparticles for Stable Red Perovskite Light-Emitting Devices.

27. **You-Da Lai, Hu-Teng Chang, Yu-Hsi Huang, Ching-Kong Chao.**

Deformation and Damage Behavior of Charger Plastic Shell under Impact.

28. **Yu-Xin, Feng, Yu-Hung, Chen, Chien-Tso, Lin, Jia Hao Lin, Shun-Hsyung Chang.**

Photoelectric Detectability Properties of *p*-Si/NiO Heterojunction Photodiodes by Sol–Gel Spin Coating Technique.

29. **Yun-Chieh Tsai, Wei-Yu Liu, Jing-Hsiang Lin, Min-Hsing Chiu, Sz-Yao Lee, Sheng-Po Chang, Jone-Fang Chen, Shoou-Jinn Chang.**

UVB-Sensitive MSM Photodetectors Using Quaternary Gallium-Based Semiconductor Thin Films.

30. **Kazuhiro Oda, Masahiro Mihara, Nao-Aki Noda.**

Adhesive Strength of Steel/Epoxy Butt Joint Having Constant Interface Stress Distribution without Singular Stress.

31. **Kazuhiro Oda, Masashi Yamauchi, Nao-Aki Noda.**

Enhancement of Adhesive Strength in Butt Joints Using Circumferential Notches

32. **Kazuhiro Oda, Yasuyuki Takahata, Arata Yamashita, Nao-Aki Noda.**

Error in Stress Concentration Factors of Stepped Round Bar with Fillet under Tension and Bending

33. **Sho Ando, Noriko Tsutsumi, Yoshihisa Matsumoto, Kazuhiro Oda.**

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34. **Md Minhaj Hossain, Shunsuke Yuyama, Pankaj Koinkar, Tetsuro Katayama and Akihiro Furube.**

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36. **Chin-Feng Lin, Ching-Lung Hsieh, Shun-Hsyung Chang, Ivan A. Parinov, Sergey Shevtsov.**

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