

## 2023 International Symposium on Advanced Technology (ISAT-22)

### Student's Oral Presentation Excellent Award is Presented to

Session A	
Paper No.	Title / Author / Affiliation
TW-24	<b>Image-based Classification and Analysis of Hospital Dishes for Nutritional Monitoring and Personalized Care</b> Yao-Lin Zhang <sup>1</sup> , Wen Yao She <sup>2</sup> and Yu-Sheng Lin <sup>1</sup> <i><sup>1</sup>Southern Taiwan University of Science and Technology; <sup>2</sup>National Kaohsiung University of Science and Technology</i>
JP-60	<b>Development and basic property evaluation of mortar for 3D printer using sea shells waste with blue carbon fixation properties</b> Natsuka HOSODA, Kikuno IGUCHI, Masaki TAMURA, Tetsuya SASAKI, Takashi SAITO, Ryota OZEKI, Taichi YAMAMOTO, Ayano KOSEKI <i>Kogakuin University</i>

Session B	
Paper No.	Title / Author / Affiliation
TW-17	<b>Microstrip Grid Array with Two Elements for WLAN 5.8GHz Band</b> Bing-Hong Cai and Wen-Shan Chen <i>Southern Taiwan University of Science and Technology</i>
JP-51	<b>Three-dimensional Residual Stress Estimation of a Resistance Spot-welded Plate using the Eigenstrain Theory and X-ray Diffraction</b> Kensei Miyoshi, Toshinori Tanaka, and Masaru Ogawa <i>Graduate School of Kogakuin University</i>

Session C	
Paper No.	Title / Author / Affiliation
TW-19	<b>Antennas on Smart Watch for GPS/BT/Wi-Fi 6E Applications</b> Yong-Zhi Su and Wen-Shan Chen <i>Southern Taiwan University of Science and Technology</i>
JP-34	<b>Development of Accelerated Calendar-life Evaluation Method for Lithium-Sulfur Batteries</b> Kento Okanishi <sup>a</sup> , Uran Tsunoda <sup>a</sup> , Masayoshi Watanabe <sup>b</sup> and Shiro Seki <sup>a</sup> <i><sup>a</sup>Kogakuin University; <sup>b</sup>Yokohama National University</i>

Session D	
Paper No.	Title / Author / Affiliation
TW-14	<b>Development and Achievement of an Intelligent Safety System for Robot Arm Operation Based on Vision Learning Technology</b> Wei Fu, Kuo, Sheng He, Wang <i>Southern Taiwan University of Science and Technology</i>
JP-54	<b>Automatic Exploration Method for Identification of Multiple Radiation Sources</b> Yurika TAKAHASHI and Hanwool WOO <i>Kogakuin University</i>

<b>Session E</b>	
<b>Paper No.</b>	<b>Title / Author / Affiliation</b>
<b>JP-44</b>	<b>Elucidation of the behavior of synthetic jets impinging on the flat plate</b> Michiya Yasumiba <sup>1</sup> , Koichi Nishibe <sup>2</sup> , and Kotaro Sato <sup>1</sup> <i><sup>1</sup>Kogakuin University; <sup>2</sup>Tokyo City University</i>
<b>JP-65</b>	<b>Dynamic Behavior of Two Cavitation Bubbles Induced near a Rigid Boundary</b> Y. KUBOTA <sup>1</sup> , D. KANG <sup>2</sup> , A. KIYAMA <sup>2</sup> and K. SATO <sup>1</sup> <i><sup>1</sup>Kogakuin University; <sup>2</sup>Saitama University</i>

<b>Session F</b>	
<b>Paper No.</b>	<b>Title / Author / Affiliation</b>
<b>JP-64</b>	<b>Phase Control of Copper Oxides by Changing Temperatures and Gas Types in Growth of Mist CVD</b> N. Sugita, S. Yoshida, H. Nagai, T. Onuma, T. Honda, and T. Yamaguchi <i>Kogakuin University</i>
<b>TW-20</b>	<b>532nm Green Laser Annealing for Improving the Physical Properties of ITO/Ag/ITO and AZO/Ag/AZO Transparent Conducting Electrodes</b> Manikandan Rajendran <sup>1</sup> , Keh-Moh Lin <sup>1</sup> , Wen-Tse Hsiao <sup>2</sup> <i><sup>1</sup>Southern Taiwan University of Science and Technology; <sup>2</sup>National Applied Research Laboratories</i>

**2023 International Symposium on Advanced Technology (ISAT-22)**  
**Student's Poster Presentation Excellent Award is Presented to**

No.	Title / Author / Affiliation
JP-11	<p style="text-align: center;"><b>A Study on a Vision Transformer Model with Squeeze-and-Excitation Blocks for a Generative Adversarial Network Model</b>  Tatsuhiko Ikeda and Hidetoshi Saito  <i>Kogakuin University</i></p>
JP-16	<p style="text-align: center;"><b>Enhancing Trust in Human-Machine Collaboration: An Analysis of Contributing Factors to Transportation Accidents</b>  Kazuma Shirakawa and Daigo Misaki  <i>Kogakuin University</i></p>
JP-20	<p style="text-align: center;"><b>Diversity Experience using the Human Augmentation and impact on Design</b>  Samu Hong and Daigo Misaki  <i>Kogakuin University of Mechanical Engineering</i></p>
JP-22	<p style="text-align: center;"><b>Relation between composition ratio and electrical properties in MgNiZnO films prepared by RF magnetron sputtering</b>  A. Ishikawa<sup>1</sup>, M. Murayama<sup>1</sup>, T. Akiba<sup>1</sup>, T. Yamaguchi<sup>1</sup>, T. Honda<sup>1</sup>, K. Sasaki<sup>2</sup>, A. Kuramata<sup>2</sup> and T. Onuma<sup>1</sup>  <sup>1</sup><i>Kogakuin University</i>; <sup>2</sup><i>Novel Crystal Technology, Inc.</i></p>
JP-38	<p style="text-align: center;"><b>HCl-assisted Mist CVD Growth and Electrical Properties of <math>\alpha</math>-In<sub>2</sub>O<sub>3</sub> Films Using Various In-based Materials</b>  T. Yamamoto, A. Taguchi, R. Yamada, H. Nagai, T. Onuma, T. Honda and T. Yamaguchi  <i>Kogakuin University</i></p>
JP-45	<p style="text-align: center;"><b>Realization of Cathodoluminescence in 190 nm Wavelength Range in Rocksalt-Structured MgZnO Films Grown by Mist Chemical Vapor Deposition</b>  Kotaro Ogawa<sup>1</sup>, Wataru Kosaka<sup>1</sup>, Hiroya Kusaka<sup>1</sup>, Yuichi Ota<sup>2</sup>, Tomohiro Yamaguchi<sup>1</sup>, Tohru Honda<sup>1</sup>, Kentaro Kaneko<sup>3</sup>, Shizuo Fujita<sup>4</sup> and Takeyoshi Onuma<sup>1</sup>  <sup>1</sup><i>Kogakuin University</i>; <sup>2</sup><i>Tokyo Metropolitan Industrial Technology Research Institute</i>; <sup>3</sup><i>Ritsumeikan University</i>; <sup>4</sup><i>Kyoto University</i></p>
JP-59	<p style="text-align: center;"><b>Formation of ITO electrodes on InGaN-based p-n junction ordered nanocolumn arrays with different column periods</b>  R. Shindo<sup>1</sup>, H. Akagawa<sup>1</sup>, T. Yamaguchi<sup>1</sup>, R. Togashi<sup>2</sup>, I. Nomura<sup>2</sup>, T. Onuma<sup>1</sup>, T. Honda<sup>1</sup> and K. Kishino<sup>2</sup>  <sup>1</sup><i>Kogakuin University</i>; <sup>2</sup><i>Sophia University</i></p>
JP-63	<p style="text-align: center;"><b>Fabrication of top-down and bottom-up MOSFET using <math>\alpha</math>-In<sub>2</sub>O<sub>3</sub> films grown by Mist CVD</b>  Y. Hayashi, A. Taguchi, S. Yamadera, T. Yamamoto, S. Aikawa, T. Onuma, H. Honda and T. Yamaguchi  <i>Kogakuin University</i></p>