

Daisuke Tsunashima

Changes in power generation performance of an undershot cross-flow hydraulic turbine in an irrigation canal due to snow masses passing through the rotor. *Heliyon*, 9, 10, e20833, 2023.

DOI:10.1016/j.heliyon.2023.e20833

Masahiro Shimizu, Kohei Kimoto, Ayaka Kikuchi, Toshinori Taishi, Susumu Arai

Lithiation/Delithiation of Silicon Heavily Doped with Boron Synthesized Using the Czochralski Process. *Energy. Adv.*, 2, 6, 813-819, 2023.

DOI:10.1039/d3ya00021d

Masahiro Shimizu, Daisuke Nishida, Ayaka Kikuchi, Susumu Arai

Protonation/Deprotonation of Rutile TiO<sub>2</sub> in Acid Aqueous Electrolytes. *J. Phys. Chem. C*, 127, 36, 17677-17684, 2023.

DOI:10.1021/acs.jpcc.3c05069

Susumu Arai, Minori Hara, Masaomi Horita, Masahiro Shimizu, Taishi Kikuhara

Fabrication of Ag-Bi Alloy Films from an Iodide-Tartrate Bath via Current Pulse Electrodeposition. *J. Electrochem. Soc.*, 171, 2, 022504, 2024.

DOI:10.1149/1945-7111/ad2736

## 2. 国際会議プロシーディング

### 電子情報システム工学科

Yudai Tagawa, Hernán Aguirre, Kiyoshi Tanaka

A Study on Multi-Objective Optimization of Epistatic Binary Problems Using Q-learning. 15th International Conference on Evolutionary Computation Theory and Applications (ECTA), Session1, 23, 2023.

Yu Takei, Hernán Aguirre, Kiyoshi Tanaka

Enhancing  $\epsilon$ -Sampling in the AeSeH Evolutionary Multi-Objective Optimization Algorithm. 15th International Conference on Evolutionary Computation Theory and Applications (ECTA), Session 4, 43, 2023.

Takuma Ikeda, Kozo Okano, Shinpei Ogata, Shin Nakajima

Fault Localization with DNN-based Test Case Learning and Ablated Execution Traces. Proceedings of 2nd International Workshop on Intelligent Software Engineering, 2023.

Maiko Onishi, Shinpei Ogata, Kozo Okano, Daisuke Bekki

Temporal relation identification in functional requirements, Proceedings of 27th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems, 1161-1170, 2023.

Takuma Ikeda, Hitoshi Kiryu, Shinpei Ogata, Kozo Okano

DNN-based Fault Localization with Virtual Coverage based on Number of Executions, Proceedings of International Workshop on Informatics 2023 (IWIN 2023). 207-214, 2023.

Yuji Akiba, Ryo Shibata, Fumihito Sasamori

Performance Evaluation of Visible Light PORC-OFDM Systems. 2023 International Scientific Conference on Engineering and Applied Sciences (ISCEAS), ISCEAS-0050, 121-129, 2023.

Aya Yorita, Ryo Shibata, Fumihito Sasamori

Adaptive Modulation Control of PORC-OFDM Systems by Ultrasonic Communications. 2023 International Scientific Conference on Engineering and Applied Sciences (ISCEAS), ISCEAS-0049, 130-139, 2023.

Masahiro Mizuno, Osamu Takyu

Optimization of User Clustering for Non-Orthogonal Multiple Access with Millimeterwave Stored D2D in Microwave Cellular Systems. Proc. IEICE ICETC 2023, P2-4, 2023.

Keita Takeda, Ryuji Miyamoto, Osamu Takyu

Investigation of Positioning Methods for Implementation of Environment-Aware Wireless Sensor Networks on 429MHz LoRa/FSK. Proc. IEICE ICETC 2023, P2-8, 2023.

Kizuku Kawamura, Kohei Akimoto, Osamu Takyu

Evaluation of Antenna Beam Search Algorithm with Stop Condition in Frequency Sharing. Proc. IEICE ICETC 2023, P2-13, 2023.

Ryuji Miyamoto, Osamu Takyu, Hiroshi Fujiwara, Koichi Adachi, Mai Ohta, Takeo Fujii

Transmission Control for Highly Efficiency Data Gathering in Packet-Level Index Modulation. Proc. IEICE ICETC 2023, P2-30, 2023.

Yudai Koike, Osamu Takyu

Proposal of Transmission Frequency Switching Method Based on Correlation with Sensing in LPWA. Proc. IEICE ICETC 2023, P2-31, 2023.

Takatoshi Obata, Osamu Takyu

Improved Method of Interference Detection to Satellite Earth Station by Radio Sensor in Spectrum Sharing. Proc. IEICE ICETC 2023, P3-7, 2023.

Taiga Kawaguchi, Osamu Takyu

Shared Decision Making Using Distribution Estimation of Same Frequency Interference in 5G. Proc. IEEE ICAIIC 2024, 476-479, 2024.

Taiga Kawaguchi, Osamu Takyu, Takeo Fujii

A Study on Estimation Method of Interference State during Frequency Sharing in 5G Cellular Systems. Proc. IEEE ICAIIC 2024, 657-662, 2024.

Toshi Ito, Osamu Takyu, Mai Ohta, Takeo Fujii, Koichi Adachi

Characterization of Discrimination of Number of Signal Collision Sensors Using Spectral Fluctuation Caused by Frequency Offset in Physical Wireless Parameter Conversion Sensor Networks. Proc. IEEE ICAIIC 2024, 297-300, 2024.

Keita Takeda, Ryuji Miyamoto, Osamu Takyu

Implementation of PLIM on 429MHz LoRa/FSK with improved conversion table. Proc. IEEE APSIPA ASC 2023, 1405-1409, 2023.

Takatoshi Obata, Osamu Takyu

Radio Sensor Detection of Interference to Satellite Earth Station in Frequency Spectrum Sharing. Proc. IEEE ICUFN 2023, 822-824, 2023.

Yudai Koike, Osamu Takyu

Water Level Monitoring System based on 429MHz LoRa with Packet Level Index Modulation. Proc. IEEE ICUFN 2023, 76-81, 2023.

Thalita Munique Costa, Yoko Usami, Mai Iwaya, Yuka Takezawa, Yuika Natori, Hernan Aguirre,

Kiyoshi Tanaka

White Blood Cells Classification with YOLOv7: Single and Cascade Classification Approaches for Images Segmented by CellaVision DM96. Proc. of 8th IEEEJ International Conference on Image Electronics and Visual Computing (IEVC 2024), 4pages, in CD-ROM, 2024.

Kousuke Yasuzawa, Kiyoshi Tanaka, Yoshiki Tanaka, Sho Yokoyama, Kei Ichikawa, Kazuo Ichikawa

A Preliminary Study on Quantitative Evaluation of Cataract Using Lens Images. Proc. of 8th IEEEJ International Conference on Image Electronics and Visual Computing (IEVC 2024), 3pages, in CD-ROM, 2024.

- Hayato Yamada, Yoshiki Tanaka, Seiji Tokiwa, Sho Yokoyama, Kiyoshi Tanaka, Kazuo Ichikawa  
A Preliminary Study on Pupil Tracking in Cataract Surgery Using YOLOv8. Proc. of 8th IEEEJ International Conference on Image Electronics and Visual Computing (IEVC 2024), 3pages, in CD-ROM, 2024.
- Akimasa Kawasaki, Hiroshi Fujiwara, Ayana Sasada, Hiroaki Yamamoto  
Online Removable Knapsack Problems with Generalized Item Removal Rules. Proc. WAAC '23, 8pages, 2023.
- Atsushi Sawamoto, Xiaoxi Liu  
High saturation magnetization and high coercivity of Co substituted orthoferrite. 2023 IEEE International Magnetic Conference-Short Papers (INTERMAG Short Papers), 1-2, 2023.
- Yu Manta, Katsumi Wasaki  
Description and Consistency Checking of Distributed Algorithms in UML Models using Composite Structure and State Machine Diagrams. Proceedings of the 20th International Conference on Information Technology-New Generations (ITNG 2023), Advances in Intelligent Systems and Computing, Springer, 1445, 199-207, 2023.
- Yuya Chiba, Katsumi Wasaki  
Description and Verification of Systolic Array Parallel Computation Model in Synchronous Circuit using LOTOS. Proceedings of the 20th International Conference on Information Technology-New Generations (ITNG 2023), Advances in Intelligent Systems and Computing, Springer, 1445, 379-386, 2023.
- Aoto Makita, Katsumi Wasaki  
Description of Restricted Object Reservation System using Specification and Description Language VDM++. Proceedings of the 20th International Conference on Information Technology-New Generations (ITNG 2023), Advances in Intelligent Systems and Computing, Springer, 1445, 413-420, 2023.
- Hikofumi Suzuki, Katsumi Wasaki  
Automatic Classification of Quantitative Data from DNS Cache Servers into Stationary and Non-Stationary States Based on Clustering. Proceedings of the 12th International Conference on Data Science, Technology and Applications (DATA 2023), SCITEPRESS, 319-326, 2023.
- Hikofumi Suzuki, Akiyoshi Iwasa, Takumi Uchiyama, Katsumi Wasaki  
Man-machine Cooperative Monitoring System to Support Detection of DoS/DDoS Attacks through Continuous SOM Diagram Generation. Proceedings of the 2023 International Conference on Networking and Network Applications (NaNA 2023), 558-567, 2023.
- Shizuka Nakamura, Katsumi Wasaki  
Development Plan and Trial of Japanese Language e-Learning System Focusing on Content and Language Integrated Learning (CLIL) Suitable for Digital Education. IFIP World Conference on Computers in Education (WCCE 2022), Advances in Information and Communication Technology, Springer, 685, 21-26, 2023.
- Kazuhisa Nakasho, Chiaki Kohama, Kenta Sawada, Katsumi Wasaki, Nobuhiro Shimoi  
Posture Estimation for Bed Monitoring System Using RFID. Proceedings of the 23rd International Conference on Control, Automation and Systems (ICCAS 2023), 1671-1676, 2023.
- Takehiko Mieno, Hiroyuki Okazaki, Kenichi Arai, Yuichi Futa  
Formal Verification of Authenticated Encryption with Associated Data with Tamarin Prover. 2023 Congress in Computer Science, Computer Engineering, & Applied Computing (CSCE), 2023.  
DOI:10.1109/CSCE60160.2023.00397
- Hironori Takeuchi, Haruhiko Kaiya, Hiroyuki Nakagawa, Shinpei Ogata, Shinobu Saito  
Practice-based Collection of Bad Smells in Machine Learning Projects. Proc. of the 27th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems (KES 2023), 517-526, 2023.

Takuma Kimura, Shinpei Ogata, Erina Makihara, Kozo Okano

A Method to Semi-Automatically Identify and Measure Unmet Requirements in Learner-Created State Machine Diagrams. Proc. of the 35th IEEE International Conference on Software Engineering Education and Training (CSEE&T 2023), 1-10, 2023.

Kaede Kano, Koh Johguchi

Photodiode and analog-front-end circuit design for wearable vital sensing system with fiber-bragg-grating sensor. Proceedings of 2023 International Symposium on Devices, Circuits and Systems (ISDCS 2023), 2023.

Koh Johguchi

Smart sensing circuit design in IoT Era (招待講演). Proceedings of 2023 International Symposium on Devices, Circuits and Systems (ISDCS 2023), 2023.

Yuichiro Ichimura, Kenta Goto, Koh Johguchi

Temperature Sensor Circuit for a Wearable Perspiration Monitoring System. Proceedings of 2023 International Symposium on Devices, Circuits and Systems (ISDCS 2023), 2023.

Junpei Oda, Yuta Kaga, Koh Johguchi

A high-resolution ultrasonic water flow meter with multi-phase time-zooming technique and active band pass filter. Extended Abstracts of 2023 Internal Conference on Solid State Devices and Materials (SSDM 2023), 2023.

Kunihisa Tashiro

Simple design for magnetic field energy harvesting. 2023 IEEE International Magnetic Conference - Short Papers (INTERMAG Short Papers), 1-2, 2023.

N. Ohmiya, T. Omori, N. Horiguchi, D. Yoshida, K. Funasaka, T. Shibata, K. Tashiro

Diagnostic Yields of Magnetically-Aided Gastrointestinal Capsule Endoscopy for Esophageal, Gastric, and Colorectal Tumors: a Randomized Controlled Trial. Gastrointestinal Endoscopy, 97, 6, Supplement, AB1248-AB1249, 2023.

Akihiro Kato, Masami Hashimoto, Chiaki Oshiyama, Takuichi Nishimura

System development of motor imagery BCI : An approach from the human side. Proc. AHFE 2023, The Human Side of Service Engineering, 108, 216-223, 2023.

Christoph Treude, Hideaki Hata

She Elicits Requirements and He Tests: Software Engineering Gender Bias in Large Language Models. In Proc. of 20th International Conference on Mining Software Repositories (MSR 2023), 624-629, 2023.

Dong Wang, Tao Xiao, Christoph Treude, Raula Gaikovina Kula, Hideaki Hata, Yasutaka Kamei

Understanding the Role of Images on Stack Overflow. In Proc. of 20th International Conference on Mining Software Repositories (MSR 2023), 377-388, 2023.

Kousuke Miyaji, Makoto Sonehara, Toshiro Sato

A Collaboration from High Frequency Soft Magnetic Materials to Integrated Circuit Design for beyond 10MHz Switching Power Supply (招待講演). IEEE International Magnetism Conference 2023 (INTERMAG 2023), FA-06, May 2023.

Masayuki Naoe, Makoto Sonehara, Kousuke Miyaji, Toshiro Sato, Yasushi Endo, Nobuyuki Kobayashi,

Ken-Ichi Arai

Crossed Anisotropy Multilayered Nanogranular Films Combining High Permeability, Ferromagnetic Resonance Frequency, and Resistivity. IEEE International Magnetism Conference 2023 (INTERMAG 2023), VPB-14, May 2023.

Kyohei Ichikawa, Tatsuki Iwata, Saya Onishi, Tomohiro Higuchi, Yuya Hirose, Naoki Sakai, Kenji Itoh,

Kousuke Miyaji

A 64.4% Efficiency 5.8GHz RF Wireless Power Transfer Receiver with GaAs E-pHEMT Rectifier and 45.2 $\mu$ s MPPT Time SIDITO Buck-Boost Converter using VOC Prediction Scheme. IEEE International Solid-State Circuits Conference (ISSCC), February 2024.

Masato Kawasumi, Hiroyuki Yashima, Ryo Shibata

LDPC Coded DBICM System for Multiple Access Channels. Proc. of International Workshop on Nonlinear Circuits, Communications and Signal Processing (NCSP), 295-298 2024.

Takayuki Tomida, Mizue Kayama, Yasuaki Abe, Hiroshi Ohkura, Hiroto C. Kajita, Daisuke Ikeda, Hiroaki Menjo, Yuki Kanai, Kaoru Takahashi

Research on the development of stereoscopic contents for experiencing cosmic ray air showers and information provision methods. Proceedings of Science, International Cosmic Ray Conference 2023 (ICRC 2023), 1605, 7p, 2023.

Daiki Sato, Takayuki Tomida, Ryosuke Hibi, Aoi Matuzawa, Yuichiro Tameda, Daisuke Ikeda, Telescope Array Collaboration

Effect of optical properties of FDs on reconstruction analysis. Proceedings of Science, International Cosmic Ray Conference 2023 (ICRC 2023), 227, 8p, 2023.

K. Shinozaki, ..., T. Tomida, et al., (全40名40番目)

Status of the DIMS project for macroscopic dark matter search using ultra-high sensitivity CMOS cameras at the Telescope Array UHECR observatory. Proceedings of Science, International Cosmic Ray Conference 2023 (ICRC 2023), 1390, 9p, 2023.

Kota Mizuno, Takayuki Tomida, Katsuya Yamazaki

Effects of atmospheric transparency on TA air shower analysis. Proceedings of Science, International Cosmic Ray Conference 2023 (ICRC 2023), 226, 6p, 2023.

Y. Tameda, T. Tomida, et al., (全14名2番目)

Progress and future prospect of the CRAFTT project for the next generation UHECR observatory. EPJ Web Conf., Ultra High Energy Cosmic Rays (UHECR 2022), 283, 06011, 6p, 2023.

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#### 水環境・土木工学科

---

Mikihiro Tanaka, Takashi Kawamura, Takeo Umezaki

Evaluation of density of consolidated clay during desiccation using X-ray CT scanner. 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering (17ARC), JGS-015, 1-4, 2023.

---

#### 機械システム工学科

---

Satoru Sakai, Takumu Takagi, Tomoya Yokogawa, Ryo Arai

Further Result on Fast Search Method for NMPC by Mixed Objective-Physical nondimensionalizations. IFAC Papers On-Line, 56, 2, 7529-7535, 2023.

Shunsaku Hamachi, Kaito Tengan, Satoru Sakai, Ryo Arai

A Visual Nonlinear Model Predictive Control without Geometric Features. SICE AC, 192-195, 2023.

Ryo Arai, Satoru Sakai

A Comparative Study of Impedance Control for Experimental Hydraulic Arms. IFAC WC 2023, 5819-5822, 2023.

Yanbin Zhang, Satoru Sakai, Kazuki Ono, Shunsaku Hamachi, Yuichi Nakamura

Analysis of the 3D Measurement of Field Fruits via a Deep Learning and Robotic Body. IFAC WC 2023,

6883-6886, 2023.

Satoru Sakai, Ryoya Sasakura, Yasuki Takahashi, Ryo Arai, Minoru Hiraoka, Junichi Ishikawa, Yusuke Ida, Teruo Kato

Toward Direct Teaching Via Proportional Valves: The Viewpoint of Metamorphosis Process. IFAC WC 2023, 10646-10649, 2023.

Naoto Muto, Yuichi Chida, Masaya Tanemura, Katsutoshi Mizoguchi, Kazuteru Suzuki

Angular velocity estimation of BLDC Motors using kalman filter under misalignment of hall sensors and rotor's magnetic poles. The 49th Annual Conference of the IEEE Industrial Electronics Society (IECON 2023), 1-6, 2023.

Daisuke Matsunaka, Takashi Nagata, Yoshinori Shiihara, Hideki Mori

Development of artificial neural network interatomic potentials for magnesium alloys. The International Conference on Processing & Manufacturing of Advanced Materials (THERMEC '2023), 2023.

Ivan Lobzenko, Yoshinori Shiihara, Hideki Mori, Daisuke Matsunaka, Tomohiro Tsuru

Atomic stress distribution near Al surfaces calculated using artificial neural network interatomic potential. The International Conference on Processing & Manufacturing of Advanced Materials (THERMEC '2023), 2023.

Shunji Fujihara, Yuta Yoshioka, Kimitoshi Yamazaki

A Pair of End-Effectors for Unfold-to-Fold a Fabric by Dual-Arm Manipulation. Proc. IEEE International Conference on Robotics and Biomimetics (IEEE ROBIO), 1554-1559, 2023.

Yusuke Kuribayashi, Kimitoshi Yamazaki

Door-opening motion generation using DAE modeling for mobile manipulators. Proc. IEEE International Conference on Robotics and Biomimetics (IEEE ROBIO), 1445-1451, 2023.

Changjian Ying, Kimitoshi Yamazaki

Motion generation for shaping deformable linear objects with contact avoidance using differentiable simulation. Proc. IEEE International Conference on Robotics and Biomimetics (IEEE ROBIO), 628-635, 2023.

Yutaka Takase, Tomohiro Shintani, Kimitoshi Yamazaki

A demonstration-based instruction system for handling manipulation of deformable objects with overlaying hand postures and contact forces. Proc. IEEE International Conference on Mechatronics and Automation (ICMA), 1484-1490, 2023.

Yusuke Kuribayashi, Yuta Yoshioka, Keisuke Onda, Takahiro Yamazaki, Tiancheng Wu, Solvi Arnold,

Yutaka Takase, Kimitoshi Yamazaki

A dual-arm manipulation system for unfolding and folding rectangular cloth. Proc. IEEE International Conference on Mechatronics and Automation (ICMA), 972-978, 2023.

Yuzhe Zhu, Motoki Hirayama, Kimitoshi Yamazaki

An end-effector with winding and scooping functions for handling thin and long fabric sheet. Proc. IEEE International Conference on Mechatronics and Automation (ICMA), 965-971, 2023.

Akihisa Ishikawa, Naoki Hiratsuka, Yutaka Takase, Solvi Arnold, Kimitoshi Yamazaki

Action primitive classification of sewing operations toward training unskilled workers. Proc. IEEE International Conference on Mechatronics and Automation (ICMA), 845-851, 2023.

Mitsuteru Fujimori, Kazuhiro Aiba, Shouichiro Iio

Influence of Nozzle Tip Length on the Characteristic of a Cross-flow Turbine. Proc. 2023 ASME-JSME-KSME Fluids Engineering Division (AJK 2023), 2023.

Yuki Kuroda, Hiroto Tatsumi, Toru Sakai, Shouichiro Iio, Takaya Kitahora

Influence of the Edge Curvature Connecting Between the Cavity and Guide Wall on Cross-Flow Turbine. Proc. Twentieth International Conference on Flow Dynamics, OS13-7, 876-879, 2023.

- Ryota Shirai, Shouichiro Iio, Tatsuya Arai  
Development of a Micro-Pelton Turbine for Off-grid Power Generation. Proc. Twentieth International Conference on Flow Dynamics, OS13-11, 890-893, 2023.
- Ken Suzuno, Mitsuteru Fujimori, Kazuhiro Aiba, Ayuki Yamaguchi, Shouichiro Iio  
Relationship between Inlet Flow Conditions and Cross-flow Turbine Performance. Proc. Twentieth International Conference on Flow Dynamics, OS13-8, 880-883, 2023.
- Ayuki Yamaguchi, Mitsuteru Fujimori, Kazuhiro Aiba, Ken Suzuno, Shouichiro Iio  
Analyzing the Impact of Operating Conditions on Energy Loss in a Crossflow Turbine. Proc. Twentieth International Conference on Flow Dynamics, OS13-9, 884-887, 2023
- Hiroto Tatsumi, Toru Sakai, Yuki Kuroda, Shouichiro Iio  
Study on partial load characteristics of Crossflow turbine. Proc. International Conference on Materials and Sustainability 2023 (ICMaSS 2023), 2023.
- Aya Ikeda, Rintaro Nishijima, Jun-ya Takayama  
Effect analysis on reflected waveform of buried object in heterogeneous media on microwave radar methods. Proceedings of the the SICE Annual Conference 2023, FrAMT3.4, 522-526, 2023.
- Kazutomo Obinata, Shota Takagi, Jun-ya Takayama  
Determination of start and end points for power line tracking based on three-dimensional point cloud data. Proceedings of the the SICE Annual Conference 2023, SaAM1T6.6, 1068-1071, 2023.

### 建築学科

- Conzatti, A., Rijal, H. B., Nakaya, Takashi.  
Occupants' awareness of indoor air quality and thermal comfort in displaced populations in Japan. Proceedings of the 2nd Engineering and Design Doctoral Symposium, 9-12, 2023,
- Khadka Supriya, Rijal H. B., Amano Katsunori, Saito Teruyuki, Imagawa Hikaru, Uno Tomoko, Genjo Kahori, Takata Hiroshi, Tsuzuki Kazuyo, Takashi Nakaya, Nishina Daisaku, Hasegawa Kenichi, Mori Taro  
Study on thermal comfort zone in MM and HVAC office buildings in Aichi prefecture based on daily survey. 2023 CATE Conference, Comfort at The Extremes, 1169, 2023.
- Hom B. Rijal, Shotaku Okamoto, Supriya Khadka, Katsunori Amano, Teruyuki Saito, Hikaru Imagawa, Tomoko Uno, Kahori Genjo, Hiroshi Takata, Kazuyo Tsuzuki, Takashi Nakaya, Daisaku Nishina, Kenichi Hasegawa, Taro Mori  
Development of the adaptive model for thermal comfort in office buildings of Aichi prefecture, Japan. IAQVEC 2023, 11th International Conference on Indoor Air Quality, Ventilation & Energy Conservation in Buildings, 396, 01062, 2023.  
<https://doi.org/10.1051/e3sconf/202339601062>
- Rahma Apriliyanthi, Tomonori Sakoi, Diinal Aziiz, Tetsu Kubota, Fajri Alfata, Fefen Suhendi, Donny Koerniawan, Takashi Nakaya  
Perceived thermal acceptability and behavioural adjustment for Indonesian workers. IAQVEC 2023, 11th International Conference on Indoor Air Quality, Ventilation & Energy Conservation in Buildings, 396, 01049, 2023.  
<https://doi.org/10.1051/e3sconf/202339601049>
- Kahori Genjo, Momoka Oki, Haruna Nakanishi, Hikaru Imagawa, Tomoko Uno, Teruyuki Saito, Hiroshi Takata, Kazuyo Tsuzuki, Takashi Nakaya, Daisaku Nishina, Kenichi Hasegawa, Taro Mori, H. B. Rijal  
Development of the adaptive model for thermal comfort in office buildings of Nagasaki city, Japan. IAQVEC

2023, 11th International Conference on Indoor Air Quality, Ventilation & Energy Conservation in Buildings, 396, 01053, 2023.

<https://doi.org/10.1051/e3sconf/202339601053>

#### 特任教員 等

Yusuke Kuribayashi, Yuta Yoshioka, Keisuke Onda, Takahiro Yamazaki, Tiancheng Wu, Solvi Arnold, Yutaka Takase, Kimitoshi Yamazaki

A dual-arm manipulation system for unfolding and folding rectangular cloth. Proc. IEEE International Conference on Mechatronics and Automation (ICMA), 972-978, 2023.

Akihisa Ishikawa, Naoki Hiratsuka, Yutaka Takase, Solvi Arnold, Kimitoshi Yamazaki

Action primitive classification of sewing operations toward training unskilled workers. Proc. IEEE International Conference on Mechatronics and Automation (ICMA), 845-851, 2023.

#### 統合技術院（工学部）

Mitsuhide Sato, Keigo Takazawa, Ryo Yoshida, Masami Nirei, Tsutomu Mizuno

Expansion of Motor High-Efficiency Area by Inserting Magnetic Composite Material into Rotor, IEEE Access, 11, 34772-34782, 2023.

### 3. 総説・解説・展望等

#### 物質化学科

天野良彦（教授）

（巻頭言）学会の持続的な発展を願って. 応用糖質科学, 13, 3, 147, 2023.

新井 進

カーボンナノチューブを用いた複合めっき. 材料の科学と工業, 61, 2, 22-25, 2024.

酒井俊郎

界面活性剤フリーエマルションが拓く未来～界面活性剤にとらわれない乳化処方への転換～. オレオサイエンス, 24, 2, 57-63, 2024.

酒井俊郎

界面活性剤がなくなったら? 「適剤適処」が実現する持続的社会. 化学, 78, 9, 70-71, 2023.

樽田誠一

透明なりチウムマイカ結晶化ガラスのイオン交換による化学強化と機能化. NEW GLASS, 38, 2, 7-10, 2023.

手嶋勝弥, 山田哲也, 土井達也, 林 文隆, 寺島千晶, 田中厚志, 大石修治

信大クリスタルの取り組み(1): 重金属イオン交換結晶NaTiOによる水をキレイにする化学. 明日の食品産業, 537, 20-30, 2023.

手嶋勝弥, 山田哲也, 土井達也, 林 文隆, 寺島千晶, 田中厚志, 大石修治

信大クリスタルの取り組み(2): アフリカ・タンザニア水問題へのソリューション. 明日の食品産業, 540, 21-27, 2023.

Mirabbos Hojamberdiev, Ronald Vargas, Fuxiang Zhang, Katsuya Teshima, Martin Lerch

Perovskite BaTaO<sub>2</sub>N: From materials synthesis to heterogenous solar water splitting. Advanced Science, 10,