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権利関係：



4. 研究業績

4-1. 学術論文

グローバル課題研究ハブ

- (1) Development of a Simplified One-Dimensional CDA Bubble Model
Zeren ZOU, Koji MORITA, Wei LIU
Annals of Nuclear Energy, 204, 110567, 2024
- (2) Development of a Source-Term Migration Model for a Large Bubble Formed in a Core Disruptive Accident
Zeren ZOU, Koji MORITA, Wei LIU
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- (3) A Mechanistic Analysis Code for Aerosol Migration Behavior Associated with a Large-Scale Bubble during a Core Disruptive Accident
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- (4) Investigations on Aerosol Transport and Deposition Behavior during Severe Reactor Accident
Md. Iqbal HOSAN, Kohei TAKANISHI, Koji MORITA, Wei LIU, Xu CHENG
Mechanical Engineering Journal, 11(2), pp.23-00423, 2024
- (5) Post-Dryout Heat Transfer in Circular Tubes Using R-134a: Experiment and Correlation Assessment
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- (6) Development of a New Semi-Mechanistic Wall Boiling Heat Transfer Model for CFD Methodology Focusing on Macroscopic Parameters
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- (8) Study on Heat Transfer Behavior of a Rectangular Particle Bed with Volumetric Heating
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- (10) Study on Eutectic Melting Behavior of Control Rod Materials in Severe Accidents of Sodium-Cooled Fast Reactors (1) Project Overview and Progress Until 2022
Hidemasa YAMANO, Toshihide TAKAI, Yuki EMURA, Hiroyuki FUKUYAMA, Hideo HIGASHI, Tsuyoshi NISHI, Koji MORITA, Kinya NAKAMURA, Zeeshan AHMED, Marco PELLEGRINI
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- (11) Study on Eutectic Melting Behavior of Control Rod Materials in Severe Accidents of Sodium-Cooled Fast Reactors (2) Modeling of Multi-Phase Eutectic Reaction Behavior
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- (12) A Comprehensive Study of Aerosol Transport and Deposition Behavior in Severe Reactor Accidents: Experimental and Modeling Approaches
Md. Iqbal HOSAN, Takanishi KOHEI, Akihiro KAKOI, Koji MORITA, Wei LIU
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- (34) Effect of Ethylenediaminetetraacetate (EDTA) on the Polymerization and Adsorption of
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Muhudi NGEREZI, Nureddin SAADI, Akira IMAI, Waleed IBRHIM
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- (44) Extracting Geothermal Potential Areas in Ecuador Using Hydrogeochemical Data and Their Principal Component Analysis
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- (48) Characterization of Mineralogy and Fluid Inclusions in a Porphyry Copper Prospect in the Surrounding Area of Masara Mine, Southeastern Mindanao, Philippines
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(61) The monitoring in the early stage of silica scale formation
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(62) Utilization of Supervised Machine Learning for Factor Analysis of Silica Scale Formation
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(63) Variable Sulfidation State of the Epithermal Veins of the Christine Orebody, Lepanto,
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- (1) Compressed Exponential and Dual Structures in Correlation Functions of Weak Turbulence due to a Nambu–Goldstone Mode

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- (3) Characterization of Catheter-Type Tactile Sensor Using Polyvinylidene Fluoride (PVDF) Film

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- (4) Thin-film fabrication of polythiophene block copolymer via friction transfer

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- (5) Creating Thermally stable P-type Carbon Nanotube via Coordination Chemistry for Thermoelectric Materials

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- (7) 福岡市今津干潟瑞梅寺川河口における底生生物調査への環境 DNA 手法の導入

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4-2. 著書

グローバル課題研究ハブ

- (1) $\text{Na}_3\text{Zr}_2(\text{SiO}_4)_2(\text{PO}_4)$ 系電解質の高性能化とナトリウム革新電池への展開
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- (1) 総論 河川の異変 ―外来種ミズタケチビルケイソウの問題と最新知見―
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ローカル課題研究ハブ

- (1) 廃棄物最終処分場における遮水工材料の耐久性評価ハンドブック
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4-3. 総説・解説

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- (1) 和歌山県の生態系と自然共生する地域の知恵を防災に活かす技術開発について
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- (4) 高校生の行動力を活かし、地域の海を活性化させる
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- (5) 【探究課題】沖ノ島や小笠原諸島、ヘンダーソン島などを例に海や海洋資源と人々の共生を考えよう
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- (6) 特異的検出法の開発とモニタリング—真の問題を考える—
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- (7) 海岸散策で見られる生物と環境の関係
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4-4. 特許

グローバル課題研究ハブ

- (1) Metal oxide thin film, organic electroluminescence element including the thin film, solar cell, and thin film fabrication method

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- (2) 深度推定方法

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インターフェース課題研究ハブ

- (1) 可変容量コンデンサおよび給電装置

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4-5. 学術賞受賞リスト

グローバル課題研究ハブ

- (1) Best Paper-Asia/Japan Award

Junlang WEN

The 31st International Conference on Nuclear Engineering (ICONE31)(2024年8月)

- (2) Outstanding Poster Award

Mohammad Iqbal HOSAN

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for Student and Young Researchers (2024年11月)

- (3) 九州工学教育協会功労賞

林 克郎

九州工学教育協会 (2025年2月)

- (4) 2024年度 日本鋳業協会賞

今井 亮、笹井智之

日本鋳業協会 (2024年3月)

- (5) Best Paper Award

Rita Gorata Ngwanaotsile

International Symposium on Earth Science and Technology 2024 (2024年11月)

(6) Best Presentation Award

Tadahiro Naritomi

EraGET2024 (2024年12月)

インターフェース課題研究ハブ

(1) 第57回(2024年秋季)応用物理学会講演奨励賞

「カーボンナノチューブのドーピング状態における錯体化学と高耐熱化技術」

河崎佳保、小柴康子、衛 慶碩、赤池幸紀、舟橋正浩、石田謙司、堀家匠平

応用物理学会(2024年9月)

ローカル課題研究ハブ

(1) 令和6年度廃棄物資源循環学会九州支部研究ポスター発表会優秀ポスター賞

上瀧大樹

廃棄物資源循環学会九州支部(2024年5月)

(2) 令和6年度廃棄物資源循環学会九州支部研究ポスター発表会優秀ポスター賞

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(3) 第35回廃棄物資源循環学会研究発表会優秀講演賞

相原愛里子

廃棄物資源循環学会(2024年9月)

(4) 令和6年度土木学会西部支部研究発表会優秀講演賞

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(5) SI2024 優秀講演賞

稲川正浩、渡部雄斗、枝本雅史、竹岡年延、三谷泰浩、谷口寿俊、中西隆之介、

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第25回計測自動制御学会システムインテグレーション部門講演会 2024年12月

(6) 令和6年度 西部支部研究発表会 優秀講演賞

木村蒼太郎

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(7) 令和6年度 西部支部研究発表会 優秀講演賞

廣木 進

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(8) 令和 6 年度 西部支部研究発表会 優秀講演賞
服巻智典
令和 6 年度 西部支部研究発表会 (2025 年 3 月)

(9) 令和 6 年度地盤工学会九州支部優良学生賞
川浦悠梨乃

4-6. 報道記事

インターネット課題研究ハブ

(1) 日本の魚が変だ～いま、海に何が起きているのか～

清野聡子

『タモリステーション』(テレビ朝日系) (2024 年 4 月)

(2) 「幻の魚捕らずに探る」。環境 DNA を活用して福岡県立三池工業高の生徒が絶滅危惧種のヤマノカミの生息場所を明らかにする記事内にて、環境 DNA についてのコメントを提供

清野聡子

読売新聞 夕刊 (2024 年 5 月 29 日)

(3) 「命きらめく 糸島半島の海」内にてコメント

清野聡子

NHK 「ロクいち!福岡」(2024 年 5 月 10 日)

(4) 「恵みあふれる 糸島半島の海」内にてコメント

清野聡子

NHK 「午後 LIVE ニュースーン午後 4 時台」(2024 年 10 月 18 日)

(5) 「金融と協働で海を「資本」に分科会、船の脱炭素提言へ」(NIKKEI ブルーオーシャン・フォーラム 第 6 回有識者委員会) 内でレガシー活用を提起

清野聡子

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(2024 年 6 月)

(6) 「二条福井にオサガメ漂着」内でコメント

清野聡子

糸島新聞 (2024 年 11 月)

- (7) 特集「唐津の海に異変」内にてインタビュー
清野聡子
NHK ロクいち福岡（2024年2月25日）

ローカル課題研究ハブ

- (1) 豪雨災害に備えて～ハザード認識しリスク低減を～
三谷泰浩
西日本新聞 オピニオン（2024年5月19日）

4-7. 招待講演、特別講演、基調講演等

グローバル課題研究ハブ

- (1) $\text{Na}_3\text{Zr}_2(\text{SiO}_4)_2(\text{PO}_4)$ 系電解質の高性能化とナトリウム革新電池への展開
林 克郎
招待講演
第422回電池技術委員会講演会(公社)電気化学会 電池技術委員会(2024年9月)
- (2) Sodium Ion Conducting Oxide Ceramics for Developing Solid-State Batteries
Katsuro HAYASHI
基調講演
2024 Maritime Silk Road International Conference on the Cooperation and Integration of Industry, Education, Research and Application in Metallurgy and Energy(2024年12月)

ローカル課題研究ハブ

- (1) 災害廃棄物の処理状況と課題
小宮哲平
特別講演
2024年能登半島地震に関するワークショップ（2024年10月）
- (2) 廃棄物最終処分場における有機フッ素化合物の実態
小宮哲平
特別講演
NPO 法人廃棄物地盤工学研究会 20周年記念行事（2025年3月）
- (3) 情報技術を活用した九州における斜面管理の取組み
本田博之
特別講演
日本応用地質学会九州支部・九州応用地質学会第46回通常総会(2024年5月)