

2025 年度 研究実績

論文

1. Ishida, T., Okuda, N., Onodera, S., Saito, M., Tomozawa, Y., Liu, X., Goto, N., Osaka, K., Maruo, M., Tayasu, I., Ban, S., 2025, Phosphate oxygen isotope insights into the coupled distribution of phosphorus, iron, and manganese in lake sediments
Chemical Geology 683, DOI 10.1016/j.chemgeo.2025.122754
2. Zhang, R., Lee, C., Malahayati, M., Xu, Y., Onodera, S., Saito, M., Ridwansyah, I., Wang, R., 2025, Optimizing land use for carbon neutrality: A scenario analysis in the Jakarta metropolitan area
Sustainable Futures 9, DOI 10.1016/j.rsase.2024.101430
3. Guyo, R., Wang, K., Onodera, S., Saito, M., Moroizumi, T., 2025, Long-term effects of forest growth dynamics and climate change on groundwater recharge and evapotranspiration in a steep catchment of western Japan
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4. Abidakun, O., Saito, M., Onodera, S., Wang, K., 2025, Impacts of Urbanization and Climate Variability on Groundwater Environment in a Basin Scale
Hydrology 12(7), DOI 10.3390/hydrology12070173
5. Macalam, F., Wang, K., Onodera, S., Saito, M., Nagano, Y., Yamazaki, M., Nang, Y., 2025, Hydrological Modeling of the Chikugo River Basin Using SWAT: Insights into Water Balance and Seasonal Variability
Sustainability 17(15), DOI 10.3390/su17157027
6. Wang, K., Onodera, S., Saito, M., Kimbi, S., Ishida, T., 2025, Rainfall-driven dissolved reactive phosphorus pulses: identifying landscape vulnerabilities for eutrophication control under climate variability
Environmental Research Letters 20(10), DOI 10.1088/1748-9326/ae00e0

学会発表

地球惑星連合セッション (JpGU) 2025 年 5 月 25 日～30 日

1. Rogel Vinicius, Bertolo Reginaldo, Ikematsu Priscila, 小野寺 真一, 齋藤 光代, Hirata Ricardo
Methane dynamics in a Brazilian riverine aquifer: hydrochemical controls, seasonality and

implications for atmospheric emissions

2. Muhammad Shahinur Rahman, Mitsuyo Saito, Shin-ichi Onodera, Takuya Ishida, Kunyang Wang, Takahiro Hosono, Yu Umezawa, Atsuko Amano

Assessing Nutrient Cycling in a Highly Urbanized Semi-Enclosed Bay through Sediment Core Analysis

3. Nhat Hong Nguyen, Mitsuyo Saito, Shin-ichi Onodera, Mayuko Hamada
Sediment eDNA Metabarcoding Reveals Fish and Benthic Metazoan Diversity in a Tidal Flat of Seto Inland Sea, western Japan

4. 王 崑陽, 小野寺 真一, 齋藤 光代
豪雨イベントにおける非点源汚染の要因特定に向けた時間別統合モデリング手法の適用

5. Nang Yu War, Shin-ichi Onodera, Kunyang Wang, Mitsuyo Saito
Hydrological Modeling of a Creek Field Region for Agricultural Water Management in the Yabe River Catchment

6. 高 啓迪, 小野寺 真一, 齋藤 光代, Kimbi Sharon
Topographic control of submarine groundwater discharge (SGD) and SGD-derived nutrient dynamics on a tidal flat scale

7. 小野寺 真一, Rusydi Anna, Ridwansyah Iwan, 齋藤 光代, 井岡 聖一郎
Impacts of Aquaculture on Water Resources and Coastal Environment in Southeast Asia

8. Kelly Tiku Tarh, Shin-ichi Onodera, Mitsuyo Saito, GAO QIDI, Sharon Bih Kim
Seasonal controls on denitrification in coastal groundwater of a steep agricultural catchment using push-pull tests

9. 粟村 美穂, 小野寺 真一, Tarh Kelly, 齋藤 光代, Kimbi Sharo
Natural remediation capacity in the denitrification zone of shallow groundwater, using the in-situ pumping experiment

10. Sharon Bih Kimbi, Shin-ichi Onodera, Mitsuyo Saito, Yusuke Tomozawa, Sai Tun Aung Si, Kunyang Wang
Assessing Groundwater Recharge in a Mountainous Catchment Using Isotopes and Modelling Approach: Insights for Water Security and Disaster Resilience

11. Sai Tun Aung Si, Shin-ichi Onodera, Sharon Kimbi, Mitsuyo Saito
Post-landslide nutrient concentration change in a small suburban catchment

12. Olawale Joshua Abidakun, Mitsuyo Saito, Shin-ichi Onodera, Kunyang Wang
Anthropogenic Activities Impacts on Groundwater Flow Dynamics in Nara Basin, Western Japan.

13. 王 崑陽, 小野寺 真一, 齋藤 光代

人為活動の影響を受けた流域における無機態溶存リン負荷の評価：週次ベースのモデリング手法を用いて

14. DAVID NYAMWEYA MOENGA, Shin-ichi Onodera, Mitsuyo Saito, Takuya Ishida, Sharon Bih Kimbi, Muhammad Shahinur Rahman, Wanna Zaw

ASSESSMENT OF THE LEVELS OF PHOSPHORUS AND ITS VARIOUS FORMS AS WELL AS THE DETERMINATION OF THE SEASONAL PHOSPHORUS PATTERNS IN WATER FROM YAMATO RIVE

15. 齋藤 光代, 小野寺 真一, Rusydi Anna, Ridwansyah Iwan

Variations in nutrients from Ciliwung River to the coastal Jakarta Bay, Indonesia

16. Muhammad Shahinur Rahman, Shin-ichi Onodera, Mitsuyo Saito, Takuya Ishida, Takahiro Hosono, Yu Umezawa

Vertical Distribution of Phosphorus Species in a Sediment Core in Jakarta Bay

17. 陈 丁畅, 川鍋 健人, 齋藤 光代, 秋永 拓弥, 小野寺 真一

Evaluation of Seasonal variation in carbon sequestration by seagrass in tidal flats, using UAV

18. 川鍋 健人, 齋藤 光代, 小野寺 真一, Chen Dingchang

Characteristics of seasonal variation of seagrass-seaweed beds on tidal flats in a coastal island of Seto Inland Sea

19. Francis Jhun Tin-ao Macalam, Kunyang Wang, Shin-ichi Onodera, Mitsuyo Saito, Yuko Nagano, Masatoshi Yamazaki

Estimation of SS loading from an Upland Agricultural Temperate Catchment using SWAT

陸水物理学会 第46回研究発表会 (2025 東京大会) 2025年11月22日~23日

1. 小野寺真一, 王 崑陽, Kimbi Sharon, 齋藤光代

流域スケールでの栄養塩流出に及ぼす都市化及び過疎・高齢化の影響

日本水文科学会 2025年度研究発表会 2025年10月18日~19日

1. 小野寺真一

「水文科学」の研究動向と展望

2. 石田 卓也, Sharon Bih Kimbi, 齋藤光代, 平山 恭之, 長坂 格, 小野寺真一

リン酸酸素安定同位体比が示す土壌から地下水へのレガシーリンの溶出

3. 栗村美穂, 小野寺真一, TARH Kelly, 齋藤光代, KIMBI Sharon, 木庭啓介

果樹園地下水中で揚水に伴う水および溶質輸送と脱窒効果

4. Vinicius Rogel Paulino de Oliveira, Reginaldo Antonio Bertolo, Priscila Ikematsu, 小野

寺真一, 齋藤光代

Spatial and Seasonal Isotopic Variability of Groundwater in Urban Green Areas Adjacent to Rivers: Insights from $\delta^{18}\text{O}$ and $\delta^2\text{H}$ Coupled with Vegetation and Seasonality