

2020 年度 雜誌論文

1. Sediment phosphorus cycling in a nutrient-rich embayment in relation to sediment phosphorus pool and release,
Jin,G, Onodera,S, Saito,M, and Shimizu,Y. Limnology, 21(3), 415–425, 2020 年.
DOI:10.1007/s10201-020-00627-x
2. Phosphorus cycling in watersheds: from limnology to environmental science,
Onodera,S, Okuda,N, Ban,S, Saito,M, Paytan,A, and Iwata,T. Limnology, 21(3), 327-328, 2020 年. DOI:10.1007/s10201-020-00631-1
3. The impact of land use and climate change on surface runoff and groundwater in Cimanuk watershed, Indonesia,
Ridwansyah I, Yulianti M, Apip, Onodera S, Shimizu Y, Wibowo H, and Fakhrudin M. Limnology, 21(3), 487-498, 2020 年. DOI:10.1007/s10201-020-00629-9
4. Effect of in-stream impoundment on water quality of a suburban stream,
Shimizu,Y., Onodera,S., Jin,G., and Saito, M., Limnology, 21(3), 393-402, 2020 年.
DOI:10.1007/s10201-020-00619-x
5. Material transport and cycle in watersheds: toward the interdisciplinary collaboration between limnology and the other research disciplines.
Saito Mitsuyo, Okuda Noboru, and Onodera Shin-ichi, 2020 in Limnology, DOI: 10.1007/S10201-020-00632-0 p 427～428
6. 210Pb dating to investigate the historical variations and identification of different sources of heavy metal pollution in sediments of the Pearl River Estuary, Southern China.
Ye,Z., Chen, j., Gao, L., Liang, Z., Li, S., Li,R., Jin, G., Shimizu,Y., Onodera,S., Saito, M.,and Gopalakrishnan,G., Marine Pol.,150, 110670, 2020 年.
DOI: 10.1016/j.marpolbul.2019.110670
7. Estimation of long-term external nutrient loading from watersheds to Lake Biwa by a combined rainfall-runoff model and loading-discharge curve approach.
Le Tien Huu, Okubo Kenji, Ho Thi Phuong, Saito Mitsuyo, Hydrological Research Letters, 14, 143-149, DOI: 10.3178/hrl.14.143, 2020.
8. Potential Sources of Ammonium-Nitrogen in the Coastal Groundwater Determined from a Combined Analysis of Nitrogen Isotope, Biological and Geological Parameters, and Land Use.
Rusydi, A.F., Onodera, S.I., Saito, M., Hyodo, F., Maeda, M., Sugianti, K. and Wibawa, S., Water, 13(1): 25. <https://doi.org/10.3390/w13010025>, 2021.
9. Species and potential sources of phosphorus in groundwater in and around Mataram

City, Lombok Island, Indonesia.

Ioka, S., Onodera, S-I., Saito, M., Rusydi, A., Bakti, H., and Wakasa S.A., Springer Nature Applied Science, 3(27). <https://doi.org/10.1007/s42452-020-03975-6>, 2021.

10. Vulnerability of groundwater to iron and manganese contamination in the coastal alluvial plain of a developing Indonesian city.
Rusydi,A., Onodera, S., Saito, M., Ioka, S., Maria, R., Ridwansyah, I., and Delinom, R., Springer Nature Applied Science, 3(339), <https://doi.org/10.1007/s42452-021-04385-y>, 2021.
11. Spatial distributions in groundwater discharge on various tidal flats in a small and steep island, western Japan.
Shingo Nozaki, Shin-ichi Onodera, Yusuke Tomozawa and Mitsuyo Saito,
International Journal of GEOMATE, May., 2021, Vol.20, Issue 81, pp.66-71.
DOI: <https://doi.org/10.21660/2021.81.6131>
12. Impact of citrus agriculture on the quality of water resource in a small steep island, Seto Inland Sea, Japan.
Sharon Bih Kimbi, Shingo Nozaki, Shin-ichi Onodera, Yusuke Tomozawa, Kungyang Wang, Anna Rusydi and Mitsuyo Saito, International Journal of GEOMATE, 2021 pp.109-114 Vol.20, Issue 82, DOI:<https://doi.org/10.21660/2021.82.6166>
13. 地下水学の夢ロードマップ～地下水学の長期展望～,
竹内 真司, 小野寺 真一, 中川 啓, 地下水学会誌, 62 卷 4 号 p. 563-571, 2020 年
DOI: [10.5917/jagh.62.563](https://doi.org/10.5917/jagh.62.563),
14. 地下水と生態系；これまでの研究動向と今後の展開,
齋藤光代, 安元 純, 杉山 歩, 地下水学会誌, 62 卷 4 号 p. 525-545,
DOI:[10.5917/jagh.62.525](https://doi.org/10.5917/jagh.62.525), 2020 年

2020 年度 学会発表

JpGu-AGU Joint Meeting 2020

1. Agriculture and brackish fishpond impact on the vulnerability of coastal groundwater in Southeast Asia
Anna Fadliah Rusydi、Shin-ichi Onodera、Mitsuyo Saito、Seiichiro Ioka、Rizka Maria
2. Did artificial re-oligotrophication induce a reduction of fish catch in Lake Biwa?
伴 修平、劉 鑑、丸尾 雅啓、後藤 直成、尾坂 兼一、小野寺 真一、齋藤 光代、石田 卓也、奥田 昇

3. Role of groundwater and river discharge on phosphorus supply into the lake
小野寺 真一、齋藤 光代、王 崑陽、伴 修平、奥田 昇、友澤 裕介
4. Spatio-temporal dynamics of submarine groundwater discharge (SGD) on an intertidal beach scale, temperate coastal area
齋藤 光代、小野寺 真一、野崎 真吾、友澤 裕介
5. SWAT モデルを用いた菊池川の森林流域における森林成長と変化が水および土砂生産に及ぼす長期的影響の評価
永野 裕子、藤井 創一朗、金森 匠彦、木下 牧、山崎 正稔、清水 裕太、小野寺 真一
6. Estimation of Change in Groundwater Recharge by Urbanization in a Granitic Mountain Catchment, Using SWAT Model
Kimbi Sharon、王 崑陽、小野寺 真一、友澤 裕介、野崎 真吾、Anna Rusydi
7. Impact of Urban Functional Area Subdivision on Simulation of Flash Flood in Hydrological Model
Wang Kunyang、Onodera Shin-ichi、Qu Shuxue、Shimizu Yuta、Saito Mitsuyo
8. Observation for the spatial variation of lacustrine groundwater discharge (LGD) in the northern basin of Lake Biwa by multi-layer measurement of radon (222Rn).
齋藤 光代、小野寺 真一、友澤 裕介、王 崑陽、伴 修平、奥田 昇
9. Impact of Nishi-Nihon Big Storm in 2018 on nutrient discharge in a Seto Inland Sea Catchment: example in Takahashi River
小野寺 真一、齋藤 光代、友澤 裕介、竹内 徹
10. Ammonium sources in rural coastal aquifer using integrated water quality parameters: chemical, biological, and environmental isotopes
Anna Fadliah Rusydi、Mitsuyo Saito、Seiichiro Ioka、Morihiro Maeda、Fujio Hyodo、Rizka Maria、Shin-ichi Onodera
11. Long-term Estimation on Nitrogen flux in the Yamato River Basin Influenced by the Construction of Sewerage Treatment Systems
Kunyang Wang、Shin-ichi Onodera、Mitsuyo Saito、Yuta Shimizu
12. Nitrate and Phosphate Contamination of Groundwater in Small and Steep Sedimentary Rock Island
Kimbi Sharon、野崎 真吾、小野寺 真一、王 崑陽、友澤 裕介
13. Phosphorus in groundwater in the coastal area of Mataram, Lombok Island, Indonesia
井岡聖一郎、小野寺 真一、齋藤 光代、Rusydi Anna、若狭 幸
14. Distribution of phosphate oxygen isotope in boring core samples for evaluation of phosphorus cycling in groundwater
石田 卓也、友澤 裕介、Liu Xin、Qian Jun、齋藤 光代、小野寺 真一、奥田 昇、伴 修平

15. Spatial distributions in groundwater (SGD) and nutrient discharge on tidal flat with the area of around 100m square in a small and steep island, western Japan
野崎 真吾、小野寺 真一、友澤 裕介、齋藤 光代
16. Estimation of unsteady confined groundwater flow with river water intrusion in coastal alluvial plain during a large flood.
友澤 裕介、小野寺 真一、齋藤 光代、竹内 徹、丸山 豊、北岡 豪一
17. UAV 及び近赤外カメラを用いた沿岸藻場の識別解析
白石 朗光、齋藤 光代、濱 侃、小野寺 真一、岩田 徹
18. Effects of sugarcane growth on hydrological elements and sediment yield
曹 陽、小野寺 真一、齋藤 光代、大前 英、飯泉 佳子

日本地下水学会 2020 年秋季講演会

6. Groundwater Recharge by Urbanization Using SWAT
Sharon Bih KIMBI、Kunyang WANG、Shin-ichi ONODERA、Yusuke TOMOZAWA、Shinji NOZAKI
7. Long-term Nitrogen Flux and Balance in Yamato River Basin Influenced by Anthropogenic Activities
Kunyan Wang、Shin-ichi Onodera、Mitsuyo Saito
8. Brackishwater aquaculture impact to coastal groundwater quality
Anna RUSYDI、Shin-Ichi ONODERA、Mitsuyo SAITO、Seiichiro IOKA

著書

1. 流域から地下水経由による琵琶湖へのリン供給, 293-298,
伴修平・小野寺真一・齋藤光代, 『流域ガバナンス』脇田健一ら編, 京都大学学術出版, 454p, 2021 年.
2. 硝酸性窒素による地下水汚染にはどのような特徴がありますか?, 176-179,
齋藤光代, 『みんなが知りたいシリーズ⑬ 地下水・湧水の疑問 50』日本地下水学会編, 成山堂書店, 272p, 2020 年