

## 【原著論文（査読付き）】

1. Suzuki Y., Imafuku Y., Nishiyama M., Teranishi K., Jikumaru A., Nukazawa, K., Ogura Y., A highly efficient method for concentrating DNA from river water by combined coagulation and foam separation. Separation Science and Technology, accepted.
2. Suzuki, Y., Nakada, K., Nukazawa, K., Yamanishi, H., Optimum condition for valuable seaweed growth to utilize treated sewage as a nutrient source. Journal of Environmental Science and Technology, Vol.12(1), pp.17-25, 2019. (DOI: 10.3923/jest.2019.17.25)
3. Nukazawa, K., Hamasuna Y., Suzuki Y., Simulating the advection and degradation of the environmental DNA of common carp along a river. Environmental Science & Technology, Vol.52 (18), pp.10562-10570, 2018. (DOI: 10.1021/acs.est.8b02293)
4. Nukazawa, K., Arai, R., Kazama, S., Takemon, Y., Projection of invertebrate populations in the headwater streams of a temperate catchment under a changing climate, Science of the Total Environment. Vol.642, pp.610-618, 2018. (DOI: 10.1016/j.scitotenv.2018.06.109)
5. 廣木楓, 畔柳聡, 坂本信介, 小林郁雄, 上村涼子, 糠澤桂, 鈴木祥広, 牧場における畜産動物から野生小動物への薬剤耐性大腸菌の伝播・拡散の可能性に関する調査, 土木学会論文集 G (環境), Vol.74, No.7, pp.III\_231-III\_238, 2018.
6. 糠澤桂, 西元竣哉, 鈴木祥広, 渡辺幸三, マニラ首都圏における Dengue 熱媒介蚊の産卵活動に関わる因子の時空間的分析, 土木学会論文集 G (環境), Vol.74, No.5, pp.I\_79-I\_85, 2018.
7. 白坂厚大, 糠澤桂, 鈴木祥広, 宮崎県耳川における発電用ダムによる流況改変が河川生態系へ与える影響, 土木学会論文集 G (環境), Vol.74, No.5, pp.I\_139-I\_146, 2018.
8. Suzuki, Y., Teranishi, K., Matsuwaki, T., Nukazawa, K., Ogura, Y., Impact of bacteria pollution by a strong typhoon event and its restoration at the recreational beach: Transition of fecal bacterial counts and bacterial flora in beach sand. Science of the Total Environment, Vol.640-641, pp.52-61, 2018. (DOI: 10.1016/j.scitotenv.2018.05.265)
9. Suzuki, Y., Niina, K., Matsuwaki, T., Nukazawa, K., Iguchi, A., Bacterial flora analysis of coliforms in sewage, river water, and ground water using MALDI-TOF mass spectrometry. Journal of Environmental Science and Health, Part A, Vol.53(3), pp.160-173, 2018. (DOI: 10.1080/10934529.2017.1383128)
10. 鈴木祥広, 西山正晃, 糠澤桂, 石井聡, 下水処理水が流入する小河川における大腸菌の調査, 水環境学会誌, Vol.41(2), pp.160-173, 2018.
11. Nukazawa, K., Kihara, K., Suzuki, Y., Negligible contribution of reservoir dams to organic and inorganic transports in the lower Mimi River, Japan. Journal of Hydrology, Vol.555, pp.288-297, 2017. (DOI: 10.1016/j.jhydrol.2017.10.020)
12. Nukazawa, K., Kazama, S., Watanabe, K., Catchment-scale modeling of riverine species diversity using hydrological simulation: application to tests of species-genetic diversity correlation. Ecohydrology, Vol. 10 (1), e1778, 2017. (DOI: 10.1002/eco.1778)
13. 渡邊健吾, 風間聡, 会田俊介, 糠澤桂, 分布型栄養塩流出モデルを用いた名取川流域の付着藻類量推定, 土木学会論文集B1(水工学), Vol.73, No.4, pp. I\_1153-I\_1158, 2017.
14. 糠澤桂, 林達也, 風間聡, 高橋真司, 砂防堰堤のスリット化に伴う生息場と底生動物群集の時系列変化, 土木学会論文集G (環境), Vol.72, No.7, pp.III\_553-III\_558, 2016.
15. 糠澤桂, 風間聡, 渡辺幸三, 水文モデルと底生動物の生息場モデルを用いた河川健全度パターンの評価. 土木学会論文集 B1 (水工学), Vol.72, No.4, pp.I\_433-I\_438, 2016.03.

16. Arai R., Nukazawa K., Kazama S., Takemon Y., Variation of benthic invertebrate abundance along thermal gradients within headwater streams of a temperate basin in Japan. *Hydrobiologia*, Vol. 762 (1), pp. 55-63, 2015.12.(DOI: 10.1007/s10750-015-2336-8)
17. Nukazawa K., Kazama S., Watanabe K., A hydrothermal simulation approach to modelling spatial patterns of adaptive genetic variation in four stream insects. *Journal of Biogeography*, Vol.42 (1), pp.103-113, 2015.01. (DOI: 10.1111/jbi.12392)
18. 糠澤桂, 新井涼允, 風間聡, 竹門康弘, 複数の全球気候モデルを用いた源流域における底生動物個体数密度の将来変化. 土木学会論文集G (環境) , Vol.70, No.5, pp.I\_271-I\_276, 2014.09.
19. 糠澤桂, 風間聡, 高瀬陽彦, 渡辺幸三, 水生生物の生息場適性度と遺伝的多様性の関係. 土木学会論文集B1 (水工学) , Vol.70, No.4, pp.I\_1405-I\_1410, 2014.03.
20. 新井涼允, 糠澤桂, 風間聡, 竹門康弘, 水温環境の変化に伴う源流域における底生動物群集の将来変化. 土木学会論文集B1 (水工学) , Vol.70, No.4, pp.I\_1303-I\_1308, 2014.03.
21. 高瀬陽彦, 糠澤桂, 風間聡, 渡辺幸三, 分布型水文モデルと確率密度関数を用いた底生動物の生息環境および種多様性評価. 土木学会論文集B1 (水工学) , Vol.70, No.4, pp.I\_1297-I\_1302, 2014.03.
22. 糠澤桂, 風間聡, 渡辺幸三, HSI種多様性に基づく流域の遺伝的多様性空間分布の予測. 土木学会論文集B1 (水工学) , Vol.69, No.4, pp.I\_1303-I\_1308, 2013.03.
23. 新井涼允, 糠澤桂, 風間聡, 竹門康弘, 水温が源流域の水生昆虫に与える影響. 土木学会論文集B1 (水工学) , Vol.69, No.4, pp.I\_1279-I\_1284, 2013.03.
24. 高瀬陽彦, 糠澤桂, 風間聡, 渡辺幸三, 分布型流出・水温モデルを使用した水生昆虫の生息環境評価. 土木学会論文集B1 (水工学) , Vol.69, No.4, pp.I\_1603-I\_1608, 2013.03.
25. 糠澤桂, 風間聡, 渡辺幸三, 河川生物のHSI種多様性と遺伝的多様性の関係性について. 土木学会論文集G (環境) , Vol.68, No.7, pp.III\_603-III\_610, 2012.11.
26. Nukazawa K., Shiraiwa J., Kazama S., Evaluations of seasonal habitat variations of freshwater fishes, fireflies, and frogs using a habitat suitability index model that includes river water temperature. *Ecological Modelling*, Vol. 222, 20-22, pp. 3718-3726, 2011.09.(DOI:10.1016/j.ecolmodel.2011.09.005)
27. Nukazawa K., Kazama S., Watanabe K., Kang J., Benthic communities and genetic structure of caddisfly *Stenopsyche marmorata* along a mountain stream fragmented by slit and unslit sabo dams. *WIT Transactions on Ecology and the Environment*, Vol. 146, pp. 263-274, 2011.05.(DOI:10.2495/RM110231)
28. 糠澤桂, 白岩淳一, 風間聡, 河川水温を考慮したHSIモデルによる水生生物の生息環境評価, 水工学論文集, 土木学会水工学委員会, 第55巻, pp. 1255-1260, 2011.03.
29. 糠澤桂, 風間聡, 渡辺幸三, Kang J.,スリット型砂防ダムの存在する溪流河川の底生動物の種多様性と遺伝的多様性. 環境工学研究論文集,第47巻, pp. 433-439, 2010.11.
30. 糠澤桂, 風間聡, 渡辺幸三, 透過型・不透過型砂防ダムの存在する山地溪流における底生動物群集の種多様性. 水工学論文集,第54 巻, pp. 1285-1290, 2010.03.

#### 【プロシーディング (査読付き)】

1. Nukazawa K., Kazama S., Takase A., Watanabe K., A hydrological approach to revealing relationship between physical habitat and genetic diversity of stream invertebrates.

- Proceedings of the 19th IAHR-APD Congress, 2014.09.
2. Arai R., Nukazawa K., Kazama S., Takemon Y., Thermal effects on benthic invertebrates within the headstreams. Proceedings of the 19th IAHR-APD Congress, 2014.09.
  3. Arai R., Nukazawa K., Kazama S., Takemon Y., Water temperature effects of benthic invertebrates in the Natori River Basin. Proceedings of 2013 IAHR World Congress, Vol.4, 4.2, A10674, 2013.09.
  4. Takase A., Nukazawa K., Kazama S., Watanabe K., Relationship between aquatic insects habitats and environmental factors using hydrological simulation model. Proceedings of 2013 IAHR World Congress, Vol.4, 4.2, A10673, 2013.09.
  5. Nukazawa K., Kazama S., Watanabe K., Species diversity of benthic faunal communities along a mountain stream fragmented by slit and unslit sabo dams. Proceedings of 5th APHW Conference, pp. 48-55, 2010.11.

## 【学会等での発表】

### ●国際会議における発表（査読付き）

- 1) Nukazawa K., Kazama S., Watanabe K., Catchment-scaled species diversity modeling of stream invertebrates using a hydrological simulation, HydroEco2017, Birmingham, United Kingdom, 2017.06.19.
- 2) Nukazawa K., Kazama S., Watanabe K., Adaptive genetic consequences of climate change for stream insects: a hydrothermal simulation approach, 20th Congress of the Asia and Pacific Division of the International Association for Hydro-Environment Engineering and Research (IAHR-APD), Colombo, SriLanka, 2016.8.30.
- 3) Nukazawa K., Kazama S, Watanabe K, Projected adaptive genetic degradation in a caddisfly species under changing climates. 11<sup>th</sup> International Symposium on Ecohydraulics, Melbourne, Australia, 2016.2.12.
- 4) Watanabe K, Nukazawa K., Kazama S, Aita S, Estimating periphyton dynamics in a temperate catchment using a hydrological simulation, The 26th General Assembly of the International Union of Geodesy and Geophysics, Prague, Czech Republic, 2015.6.25.
- 5) Nukazawa K., Kazama S, Takase A, Watanabe K., A hydrological approach to revealing relationship between physical habitat and genetic diversity of stream invertebrates. 19<sup>th</sup> Congress of the Asia and Pacific Division of the International Association for Hydro-Environment Engineering and Research (IAHR-APD), Hanoi, Vietnam, 2014.9.23.
- 6) Arai R, Nukazawa K., Kazama S, Takemon Y, Thermal effects on benthic invertebrates within the headstreams, 19th Congress of the Asia and Pacific Division of the International Association for Hydro-Environment Engineering and Research (IAHR-APD), 2014.9.23, Hanoi, Vietnam
- 7) Nukazawa K., Kazama S, Takase A, Watanabe K., Estimating habitat suitability of stream insects based on hydrological simulation and its connection to genetic diversity. Joint Aquatic Sciences Meeting (JASM), Portland, Oregon, 2014.5.23.
- 8) Arai R, Nukazawa K., Kazama S, Takemon Y, Water temperature effects of benthic invertebrates in the Natori River basin. 35th IAHR World Congress, Chengdu, China, 2013.9.10.
- 9) Takase A, Nukazawa K., Kazama S, Watanabe K, Relationship between aquatic insects

habitats and environmental factors using hydrological simulation model. 35th IAHR World Congress, Chengdu, China, 2013.9.11.

- 10) Nukazawa K, Kazama S, Watanabe K., Spatial prediction of adaptive genetic variation in stream caddisfly based on basin-scale hydraulic and thermal simulations. HydroEco2013, Rennes, France, 2013.5.14.
- 11) Nukazawa K, Kazama S, Habitat suitability evaluation of freshwater fishes, fireflies, and frogs in the perspective of basin environmental management. 18<sup>th</sup> Congress of the Asia and Pacific Division of the International Association for Hydro-Environment Engineering and Research (IAHR-APD), Jeju, Korea, 2012.8.21.
- 12) Nukazawa K, Shiraiwa J, Kazama S, Influence of river water temperature on seasonal habitat variations of freshwater fishes. 2nd Biennial Symposium of the International Society for River Science ISRS, Berlin, Germany, 2011.8.8.
- 13) Nukazawa K, Kazama S, Watanabe K, Kang J, Benthic communities and genetic structure of caddisfly *Stenopsyche marmorata* along a mountain stream fragmented by slit and unslit sabo dams, 6th International Conference on River Basin Management, Riverside, California, USA, 2011.5.26
- 14) Nukazawa K, Kazama S, Watanabe K, Species diversity of benthic faunal communities along a mountain stream fragmented by slit and unslit sabo dams, 5th APHW Conference, Hanoi Vietnam, 2010.11.9

●国際会議における発表（査読なし）

- 15) Nukazawa, K., Predicting biodiversity of aquatic insects under changing climates in Japan, and a vision for habitat modeling of dengue vectors, Dengue and Urban Climate Symposium, Manila, Philippines, 2016.07.07.
- 16) Nukazawa K, Kazama S, Watanabe K., Projecting adaptive genetic variation and species distribution of stream insects under changing climates, 2015 Joint Meeting of JSMB and CJK Colloquium on Mathematical Biology, Kyoto, Japan, 2015.08.27.
- 17) Nukazawa K, Shiraiwa J, Kazama S, Estimation of seasonal habitat transitions of aquatic animals using a habitat suitability index model based on hydrological and thermal simulations. Association for the Sciences of Limnology and Oceanography (ASLO) summer meeting, Shiga, Japan, 2012.07.12.
- 18) Nukazawa K, Shiraiwa J, Kazama S, Evaluations of seasonal habitat variations using a habitat suitability index model that includes river water temperature, International Workshop on Habitatology for Linking Sediment Dynamism and Biodiversity –Scientific Research Project on Tagliamento River, NE Italy-, Kyoto, Japan, 2011.06.02.