

著者名	題名	年	会議名
黒木雄介、佐藤弘泰、味埜 俊、松坂勝雄、松原善治、玉木聡史	管路内下水浄化技術における微生物担体中での酸素収支に関する検討	2016	第53回下水道研究発表会講演集

## 環境質リスク管理研究室—原著論文

著者	題名	年	雑誌名	巻・号・ページ
Wei, N., F. Nakajima, T. Tobino	Variation of Environmental DNA in Sediment at Different Temporal Scales in Nearshore Area of Tokyo Bay	2019	J. Water Environ. Technol.	17 (3):153-162
Hiki, K., F. Nakajima, T. Tobino, H. Watanabe, H. Yamamoto	Whole transcriptome analysis of an estuarine amphipod exposed to highway road dust	2019	Sci. Total Environ.	675:141-150
Hiki, K., F. Nakajima, T. Tobino, N. Wei	Sediment toxicity testing with the amphipod <i>Grandidierella japonica</i> and effects of sediment particle size distribution	2019	J. Water Environ. Technol.	17:117-129
Yanagihara, M., F. Nakajima, T. Tobino	Metabolomic responses of an estuarine benthic amphipod to heavy metals at urban-runoff concentrations	2018	Water Sci. Technol.	78 (11): 2349-2354
Wei, N., F. Nakajima, T. Tobino	A microcosm study of surface sediment environmental DNA: decay observation, abundance estimation, and fragment length comparison	2018	Environ. Sci. Technol.	52 (21):12428-12435
Wei, N., F. Nakajima, T. Tobino	Effects of treated sample weight and DNA marker length on sediment eDNA based detection of a benthic invertebrate	2018	Ecol. Indic.	93: 267-273
Hiki, K., N. Nakajima, H. Watanabe, F. Nakajima, T. Tobino	de novo transcriptome sequencing of an estuarine amphipod <i>Grandidierella japonica</i> exposed to zinc	2018	Mar. Genomics	39:11-14
Akio Sohma, Hisashi Shibuki, Fumiyuki Nakajima, Atsushi Kubo, Tomohiro Kuwae	Modeling a Coastal Ecosystem to Estimate Climate Change Mitigation and a Model Demonstration in Tokyo Bay	2018	Ecological Modelling	<a href="https://doi.org/10.1016/j.ecolmodel.2018.04.019">https://doi.org/10.1016/j.ecolmodel.2018.04.019</a>
Yanagihara, M., F. Nakajima, T. Tobino	Predicting effects of copper on reproduction of the estuarine amphipod <i>Grandidierella japonica</i> using metabolic profiles	2017	J. JSCE, Ser. G (Environmental Research)	73:III_535-III-541
Hiki, K., T. Tobino, F. Nakajima, K. Tsukahara	Duration of life-cycle toxicity tests with the ostracod <i>Heterocypris incongruens</i>	2017	Environ. Toxicol. Chem.	36:3443-3449
Niyommaneerat, W., F. Nakajima, T. Tobino, K. Yamamoto	Development of a chronic sediment toxicity test using the benthic ostracod <i>Heterocypris incongruens</i> and their application to toxicity assessments of urban road dust	2017	Ecotoxicol. Environ. Saf.	143:266-274

著者	題名	年	雑誌名	巻・号・ページ
Hiki, K., F. Nakajima, T. Tobino	Application of cDNA-AFLP to biomarker exploration in a non-model species <i>Grandidierella japonica</i>	2017	Ecotoxicol. Environ. Saf.	140:206-213
Hiki, K., F. Nakajima, T. Tobino	Causes of highway road dust toxicity to an estuarine amphipod: Evaluating the effects of nicotine	2017	Chemosphere	168:1365-1374
Boonyaroj, V., Chiemchaisri, C., Chiemchaisri, W., Yamamoto, K.	Enhanced biodegradation of phenolic compounds in landfill leachate by enriched nitrifying membrane bioreactor sludge	2017	J. Hazardous Material	323, S1, 311-318.
Asif MB, Hai FI, Kang, JG, van de Merwe JP, Leusch FDL, Yamamoto K, Price, WE, Nghiem LD	Degradation of trace organic contaminants by a membrane distillation-enzymatic bioreactor	2017	Applied Sciences	7, 9, 879
Mahua Saha, Dusmant Maharana, Rina Kurumisawa, Hideshige Takada, Geok Bee Yeo, Andrea C. Rodrigues, Badal Bhattacharya, Hidetoshi Kumata, Tomoaki Okuda, Kebin He, Yongliang Ma, Fumiyuki Nakajima, Mohamad Pauzi Zakaria, Duong Hoang Giang, Pham Hung Viet	Seasonal trends of atmospheric PAHs in five Asian megacities and source detection using suitable biomarkers	2017	Aerosol and Air Quality Research	Vol.17, No.9, pp.2247-2262
尾崎則篤, 和田桂子, 村上道夫, 中島典之, 古米弘明	公表調査データの統計解析による市街地ノンポイント汚濁負荷流出量の予測とその信頼性評価	2017	水環境学会誌	Vol.40, No.3, pp.115-124
Xue, W., K. Yamamoto, T. Tobino, C. Ratanatamskul	Modeling prediction of the process performance of seawater-driven forward osmosis for nutrients enrichment: Implication for membrane module design and system operation	2016	J. Memb. Sci.	515:7-21
Chung, C. M., T. Tobino, K. W. Cho, K. Yamamoto	Alleviation of membrane fouling in a submerged membrane bioreactor with electrochemical oxidation mediated by in-situ free chlorine generation	2016	Water Res.	96:52-61
Tobino, T., J. X. Chen, O. Sawai, T. Nunoura, K. Yamamoto	Inline thickener-MBR: as a compact, energy efficient organic carbon removal and sludge production devise for municipal wastewater treatment	2016	Chem. Eng. Process.: Process Intensif.	107:177-184

著者	題名	年	雑誌名	巻・号・ページ
Xue, W., K. Yamamoto, T. Tobino	Membrane fouling and long-term performance of seawater-driven forward osmosis for enrichment of nutrients in treated municipal wastewater	2016	J. Memb. Sci.	499:555-562
Luo WH, Hai FI, Kang JG, Price WE, Guo WS, Ngo NH, Yamamoto K, Nghiem LD	Effects of salinity build-up on the performance and bacterial community structure of a membrane bioreactor	2016	Bioresource Technology	200, 305-310
Luo WH, Hai FI, Kang JG, Price WE, Guo WS, Ngo NH, Yamamoto K, Nghiem LD	Phosphorus and water recovery by a novel osmotic membrane bioreactor-reverse osmosis system	2016	Bioresource Technology	200, 297-304
Praserikulsak S, Chiemchaisri C, Chiemchaisri W, Yamamoto K	Removal of pharmaceutical compounds from hospital wastewater in membrane bioreactor operated under short hydraulic retention time	2016	Chemosphere	150, 624-631.
Boonnorat J, Chiemchaisri C, Chiemchaisri W, Yamamoto K	Kinetics of phenolic and phthalic acid esters biodegradation in membrane bioreactor (MBR) treating municipal landfill leachate	2016	Chemosphere	150, 639-649.
Kaewmanee A, Chiemchaisri W, Chiemchaisri C, Yamamoto K	Treatment performance and membrane fouling characteristics of inclined-tube anoxic/aerobic membrane bioreactor applied to municipal solid waste leachate	2016	Desalination and Water Treatment	57, 60, 29201-29211
Honda R., Watanabe. T., Sawaittayotin V., Masago, Y., Chulasak, R., Tanong, K., Chaminda, G.T., Wongsila, K., Sienglum, W., Sunthonwatthanaphong, V., Poonnotok, A., Chiemchaisri, C., Chiemchaisri, W., Furumai, H., Yamamoto, K..	Impact of urbanization on the prevalence of antibiotic-resistant Escherichia coli in the Chaophraya River and its tributaries	2016	Water Science and Technology	73, 2, 362-374.
Tomohiro Kuwae, Jota Kanda, Atsushi Kubo, Fumiuyuki Nakajima, Hiroshi Ogawa, Akio Sohma, Masahiro Suzumura	Blue carbon in human-dominated estuarine and shallow coastal systems	2016	Ambio	Vol.45, No.3, pp.290-301

## 環境質リスク管理研究室—総説・書籍等

著者	題名	年	書誌名	巻・号・ページ
Fumiyuki Nakajima and Rupak Aryal	17. Heavy Metals in Urban Dust	2018	Heavy Metals (Ed: Hosam EL-Din M. Saleh)	pp.303-318 IntechOpen

## 環境質リスク管理研究室—国際会議

著者	題名	年	会議名
Hiki, K. F. Nakajima T. Tobino H. Watanabe H. Yamamoto	Whole transcriptome analysis in the estuarine amphipod exposed to highway road dust	2019	4th International Forum on Sustainable Future in Asia
Yamaguchi, N. T. Tobino F. Nakajima K. Yamamoto	Detection of fine particles of microbial origin in activated sludge by fluorescent staining and flow cytometry	2018	The 5th Asian Conference on Safety and Education in Laboratory
Hiki, K. F. Nakajima T. Tobino H. Watanabe H. Yamamoto	Effects of physico-chemical characteristics of formulated sediment on the survival and growth of amphipods <i>Grandidierella japonica</i> and <i>Hyalella azteca</i>	2018	SETAC North America 39th Annual Meeting
Wei, N. F. Nakajima T. Tobino	Temporal variation of sediment environmental DNA in two seaside parks of Tokyo Bay: a case study of <i>G. japonica</i>	2018	IWA World Water Congress & Exhibition
Yanagihara, M. F. Nakajima T. Tobino	Metabolomic responses of estuarine benthic amphipod to heavy metals in urban runoff relevant concentrations	2018	IWA World Water Congress & Exhibition
Tsuchikawa, M. K. Hiki F. Nakajima T. Tobino	De novo transcriptome sequencing of a benthic ostracod <i>Heterocypris incongruens</i> exposed to zinc	2018	Water and Environment Technology Conference
Wei, N. F. Nakajima T. Tobino	Variation of environmental DNA(eDNA)in sediment at different temporal scales in nearshore area of Tokyo Bay	2018	Water and Environment Technology Conference
Wei, N. F. Nakajima T. Tobino	Effects of bacteria on degradation of sediment eDNA with different fragment length	2018	The 3rd International Forum on Asian Water Environment Technology
Tobino T.	Monitoring quorum sensing signaling molecules in MBRs	2018	The 3rd International Forum on Asian Water Environment Technology
Fumiyuki Nakajima	Ecotoxicity of micropollutants in urban water environment	2018	The 3rd International Forum on Asian Water Environment Technology
Yanagihara, M. F. Nakajima T. Tobino	Exploration of metabolomic biomarkers in estuarine benthic amphipod for assessing heavy metal exposure in the receiving water environment	2017	14th IWA/IAHR International Conference on Urban Drainage
Hiki, K. F. Nakajima T. Tobino	Exploration of biomarkers in a benthic amphipod for toxic chemicals in road dust using cDNA- AFLP	2017	The 18th International Conference on Diffuse Pollutin and Eutrophication

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Wei, N. F. Nakajima T. Tobino	Detecting benthic invertebrates ( <i>Grandidierella japonica</i> ) in water environment with sediment eDNA: the effects of marker length and treated sample weight	2017	Water and Environment Technology Conference 2017
Kazuo Yamamoto	Wise Use of Water for GT-assisted Sustainable Society	2017	Green Technologies for Sustainable Water (GTSW) Conference
Kazuo Yamamoto	Membrane Bioreactor as Water Reuse Technology: Past and Future	2017	2nd International Conference for Eastern Asia Sustainable Economy
Tobino, T. T. Nunoura B. Tomiyasu	Collection and treatment of daily life-related chemically hazardous wastes in the University of Tokyo	2017	Asian Conference on Safety and Education in Laboratory 2017
A. Sohma H. Shibuki F. Nakajima T. Kuwae	Ecosystem modelling to estimate blue carbon in a human-dominated estuarine and shallow coastal system	2017	ISEM2017 (International Society for Ecological Modelling Global Conference 2017)
Hiki, K. F. Nakajima T. Tobino	Transcriptional profiling of a native estuarine amphipod exposed to road dust and the related chemicals by dDNA-AFLP	2016	7th SETAC World Congress/SETAC North America 37th Annual Meeting
Yagi, D. T. Tobino F. Nakajima K. Yamamoto	Quantification of acyl homoserine lactones in MBR sludge using solid phase extraction and mass spectrometry	2016	Water and Environment Technology Conference 2016
Imura, K. F. Nakajima A. Sohma H. Shibuki T. Tobino	Variation of carbon absorption and sequestration in Tokyo Bay by nutrient removal in municipal wastewater treatment plants	2016	Water and Environment Technology Conference 2016
Wilailuk Niyommaneerat Fumiyuki Nakajima Tomohiro Tobino Kazuo Yamamoto	Toxicity of urban road dust on reproduction of a benthic ostracod, <i>Heterocypris incongruens</i>	2016	NOVATEC 2016
Kazuo Yamamoto	Role of Higher Education and Research Alliance in Transformative Knowledge Generation for Global Sustainability	2016	3rd International Forum on Global Food Resources
Kazuo Yamamoto	Invited speaker, Session 'Water'	2016	STS Forum
Kazuo Yamamoto	Possible contribution of MBR systems to achieve the Sustainable Development Goals (SDGs)	2016	IWA RMTTC 2016
Kurihara, M. H. Sakai A. Tanioka T. Tobino K. Yamamoto	Energy reduction by seawater RO with pressure retarded osmosis and energy production from sludge biomass	2016	IDA International Conference on Water Reuse and Recycling

## 環境質リスク管理研究室—国内会議

著者名	題名	年	会議名
柳原未奈、中島典之、飛野智宏	汽水産端脚類のメタボローム解析による底質中有害物質の曝露マーカーの検討	2019	第53回日本水環境学会年会講演集
Gu, Y. F. Nakajima T. Tobino	Comparison of dietborne and waterborne toxicities of 4-tert-butylphenol towards benthic crustaceans, <i>Heterocypris incongruens</i>	2019	第53回日本水環境学会年会講演集
柳原未奈、中島典之、飛野智宏	ニホンドロソコエビの重金属類および有機汚染物質への代謝物応答特性	2018	第24回日本環境毒性学会研究発表会
日置恭史郎、中島典之、飛野智宏、渡部春奈、山本裕史	道路塵埃に曝露したニホンドロソコエビの網羅的な遺伝子発現解析	2018	第24回日本環境毒性学会研究発表会
日置恭史郎、中島典之、飛野智宏	汽水産端脚類ニホンドロソコエビを用いた東京湾底質の毒性評価	2018	第52回日本水環境学会年会講演集
柳原未奈、中島典之、飛野智宏	毒性試験における参照底質組成がニホンドロソコエビの代謝物応答に及ぼす影響	2018	第52回日本水環境学会年会講演集
澤乃井隆之、中島典之、飛野智宏	ジフェニルアミン汚染餌が底生カイミジンコの繁殖に及ぼす影響	2018	第52回日本水環境学会年会講演集
八木大輔、飛野智宏、中島典之、山本和夫	MBR中に存在するアシルホモセリンラクトン類濃度の定量と膜間差圧変化との関係	2018	第52回日本水環境学会年会講演集
岡本紫音、飛野智宏、中島典之、山本和夫	アシルホモセリンラクトンの添加および分解操作が精密ろ過膜面上の污泥ケーキ層形成過程に及ぼす影響	2018	第52回日本水環境学会年会講演集
Yanagihara, M. F. Nakajima T. Tobino	Predicting effects of copper on reproduction of the estuarine amphipod <i>Grandidierella japonica</i> using metabolic profiles	2017	The 54th Environmental Engineering Forum
日置恭史郎、中島典之、飛野智宏	トキシコゲノミクスデータベースを用いた毒性要因推定手法の検討	2017	第23回日本環境毒性学会研究発表会
ニコマネラット ウィラルク、中島典之、飛野智宏	底生甲殻類繁殖試験による道路排水中微粒子の有害性評価	2017	第54回下水道研究発表会
日置恭史郎、中嶋信美、渡部春奈、中島典之、飛野智宏	亜鉛曝露下のニホンドロソコエビにおける <i>de novo</i> トランスクリプトーム解析	2017	NGS 現場の会 第五回研究会
柳原未奈、中島典之、飛野智宏	高分解能質量分析計を用いた汽水産端脚類の重金属曝露時の代謝物応答性評価	2017	第51回日本水環境学会年会講演集
中島典之	遺伝子発現および代謝産物の網羅的解析に基づく汽水産底生甲殻類への影響要因推定手法の開発	2017	鉄鋼環境基金 2017年度 第3回 研究討論会
日置恭史郎、中島典之、飛野智宏	ニホンドロソコエビの底質毒性試験を用いた道路塵埃の毒性要因の推定	2016	第22回日本環境毒性学会 研究発表
日置恭史郎、中島典之、飛野智宏	底生カイミジンコを用いた慢性毒性試験における孵化観察期間：個体群行列モデルに基づく提案	2016	第22回日本環境毒性学会 研究発表
柳原未奈、中島典之、飛野智宏	代謝物網羅的解析に基づく銅のニホンドロソコエビ繁殖阻害影響の予測	2016	第22回日本環境毒性学会 研究発表
柳原未奈、中島典之、飛野智宏	高分解能質量分析計を用いたニホンドロソコエビの代謝測定と慢性毒性影響評価	2016	第50回日本水環境学会年会講演集
桑江朝比呂、神田穰太、久保篤史、中島典之、小川浩史、相馬明郎、鈴木昌弘	人間活動の影響を受けた河口浅海域における大気中CO <sub>2</sub> の吸収に関する現地観測と生態系モデリング	2016	日本地球惑星科学連合 2016年大会