

Curriculum Vitae

May 31, 2022

Name: Jun SASAKI

Gender: Male

Nationality: Japanese

Date of Birth: 12 November 1967

Degree: D. Eng. (The University of Tokyo)

Position: Professor

Affiliation:

Department of Socio-Cultural Environmental Studies,
Graduate School of Frontier Sciences,
The University of Tokyo

Office Address

5-1-5 Kashiwanoha, Kashiwa, Chiba 277-8563, Japan

Phone: +81-4-7136-4812, Fax: +81-4-7136-4825

Email: jsasaki@k.u-tokyo.ac.jp

Web: <https://estuarine.jp/?lang=en>



Research Interests

- Nutrient management in estuarine and coastal waters aiming at balancing between fisheries and water quality
- Coastal blue carbon, estimation of its potential and social implementation for mitigation of climate change in urban bays and mangrove forest
- Environmental prediction, evaluation and management in estuarine and coastal waters
- Coastal disaster mitigation, storm surges, tsunamis and sea level rise under climate change
- Coastal zone management
- Sustainability of coastal areas in Southeast and South Asian countries
- Numerical modeling of hydrodynamics, biogeochemical processes, and pelagic and benthic interaction in inland, estuarine and coastal waters
- Application of numerical models (FVCOM, COAWST, etc.) to resolve challenges in estuarine and coastal environments
- Environmental restoration, rehabilitation and mitigation in enclosed coastal waters

Education

D. Eng., Department of Civil Engineering, Graduate School of Engineering,
The University of Tokyo (1993-1996)

M. Eng., Department of Civil Engineering, Graduate School of Engineering,
The University of Tokyo (1991-1993)

B. Eng., Department of Civil Engineering, School of Engineering, The University of Tokyo (1987-1991)

Job Experiences

Professor, Department of Socio-Cultural Environmental Studies, Graduate School of Frontier Sciences,
The University of Tokyo (2013-Present)

Head of Department of Socio-Cultural Environmental Studies, Graduate School of Frontier Sciences, The
University of Tokyo (FY2014-FY2015, Fy2019)

Professor, Faculty of Urban Innovation, Yokohama National University (2011-2013)

Professor, Faculty of Engineering, Yokohama National University (2009-2011)

Visiting Researcher, Department of Civil and Coastal Engineering, School of Engineering,
University of Florida (Aug. 2007 – Nov. 2007)

Associate Professor, Faculty of Engineering, Yokohama National University (2002-2009)

Visiting Researcher, Asian Institute of Technology (Dec. 1999 – Feb. 2000)

Associate Professor, Department of Environmental Studies, Graduate School of Frontier Sciences,
The University of Tokyo (1999-2002)

Research Associate, Department of Civil Engineering, Faculty of Engineering,
The University of Tokyo (1997-1999)

JSPS Research Fellowships for Young Scientists (1995-1996)

Professional Memberships and Major Contributions to the Society

Member of Japan Society of Civil Engineers (JSCE)

Chair, Coastal Engineering Committee, JSCE

Member of Japanese Association for Coastal Zone Management (JACZS)

Member of American Geophysical Union (AGU),

Planning and Managing Committee member, the Public-Private Cooperation Forum for Tokyo Bay
Restoration (Tokyo-Bay PP Forum)

Leader, Project Team for Habitat Creation and Restoration, Tokyo-Bay PP Forum

Chair, Blue Carbon Research Group, Japan

Chair, Committee on Policymaking and social implementation of Blue Carbon, Ministry of Land,
Infrastructure, Transport and Tourism

Publications

- Sok, K., Bidorn, B., Burnett, W. C., Sasaki, J. and Sola, P. Seven decades of shoreline changes along a muddy mangrove coastline of the Upper Gulf of Thailand. *Earth Surface Processes and Landforms*, 47(6), 1425-1438, 2022.
- Chen, J. and Sasaki, J. Mapping of subtidal and intertidal seagrass meadows via application of the Feature Pyramid Network to unmanned aerial vehicle orthophotos. *Remote Sensing*, 13(23), 4880, 2021.
- Salah, P., Sasaki, J. and Soltapour, M. Comprehensive probabilistic tsunami hazard assessment in the Makran Subduction Zone. *Pure Appl. Geophys.*, 178, 5085–5107, 2021. Salah, P. and Sasaki, J.: Knowledge, awareness, and attitudes toward tsunamis: A local survey in the southern coast of Iran. *Sustainability*, 13(2), 449, 2021.
- Maung, W. S. and Sasaki, J.: Assessing the natural recovery of mangroves after human disturbance using neural network classification and Sentinel-2 imagery. *Remote Sensing*, 13(1), 52, 2021.
- Ratnayakage, S. M. S., Sasaki, J., Suzuki, T., Jayaratne, R., Ranawaka, R. A. S. and Pathmasiri, S.: On the status and mechanisms of coastal erosion in Marawila Beach, Sri Lanka. *Natural Hazards*, 103, 1261-1289, 2020.
- Rakib, M.A., Sasaki, J., Matsuda, H., Quraishi, S.B., Md. Juel Mahmud, Md. Bodrud-Doza, Atique Ullah, A.K.M., Fatema, K.J., Md. Asif Newaz and Bhuiyan, M.A.H. Groundwater salinization and associated co-contamination risk increase severe drinking water vulnerabilities in the southwestern coast of Bangladesh. *Chemosphere*, 246, 125646, 2020. <https://doi.org/10.1016/j.chemosphere.2019.125646>
- Endo, M. and Sasaki, J. Mitigation of anoxia and hypoxia in enclosed shallow fishing grounds using a water jet generation device, Proc. of the 10th Int. Conf. on Asian and Pacific Coasts (APAC 2019), 1081-1088, Hanoi, Vietnam, September 25-28, 2019.
- Liu, F. and Sasaki, J. Hybrid methods combining atmospheric reanalysis data and a parametric typhoon model to hindcast storm surges in Tokyo Bay, *Scientific Reports*, 9, 12222, 2019. <https://doi.org/10.1038/s41598-019-48728-7>
- Avelino, J. E., Sasaki, J., Esteban, M., Salah, P., Jamero, M. L., Valenzuela, V. P. Sustainability Evaluation of Marine Protected Areas Index (SEMPAI): A multi-criteria decision-making method to determine the effectiveness of the El Nido-Taytay Managed Resource Protected Area, *Ocean and Coastal Management*, 181, 104891, 2019. <https://doi.org/10.1016/j.ocecoaman.2019.104891>
- Rakib, M. A., Sasaki, J., Matsuda, H. and Fukunaga, M. Severe salinity contamination in drinking water and associated human health hazards increase migration risk in the southwestern coastal part of Bangladesh. *J. of Environmental Management*, 240, 238-248, 2019. <https://doi.org/10.1016/j.jenvman.2019.03.101>
- Rakib, M. A., Sasaki, J., Palc, S., Md. Asif Newaz, Md. Bodrud-Dozae, Mohammad Amir Hossain Bhuiyan. An investigation of coastal vulnerability and internal consistency of local perceptions under climate change risk in the southwest part of Bangladesh. *J. Environmental Management*, 231, 419-428, 2019. <https://doi.org/10.1016/j.jenvman.2018.10.054>
- Samarasekara, R. S. M., Sasaki, J., Jayaratne, R., Suzuki, T., Ranawaka, R. A. S. and Pathmasiri, S. D.: Historical changes in the shoreline and management of Marawila Beach, Sri Lanka, from 1980 to 2017. *Ocean and Coastal Management*, 165, 370-384, 2018. <https://doi.org/10.1016/j.ocecoaman.2018.09.012>
- Amunugama, M. and Sasaki, J.: Numerical modeling of long-term biogeochemical processes and its application to sedimentary bed formation in Tokyo Bay, *Water*, 10(5), 572, 2018. <https://doi.org/10.3390/w10050572>
- Ratnayakage, S. M. S., Sasaki, J., Esteban, M. and Matsuda, H.: Assessment of the co-benefits of structures in coastal areas for tsunami mitigation and improving community resilience in Sri Lanka, *Int. J. of Disaster Risk Reduction*, 23, 80-92, 2017. <https://doi.org/10.1016/j.ijdrr.2017.04.011>
- Nguyen, H. Q., Sasaki, J., Higa, H. and Nguyen, H., H.: Spatiotemporal variation of turbidity based on Landsat 8 OLI in Cam Ranh Bay and Thuy Trieu Lagoon, Vietnam, *Water*, 9(8), 570, 2017.

<https://doi.org/10.3390/w9080570>

- Wiyono, R.U.A., Sasaki, J. and Suzuki, T.: Unstructured mesh tsunami simulation considering the fine structure of land use, *J. JSCE B2 (Coastal Eng.)*, 71(2), 6pp., 2015.
- Amunugama, A.A.W.R.R.M.K., Sasaki, J., Nakamura, Y. and Suzuki, T.: Spatial distribution of sediment quality in Tokyo Bay through benthic-pelagic coupled modeling approach, *J. JSCE B2 (Coastal Eng.)*, Vol. 71 (2), 6pp., 2015.
- Amunugama, A.A.W.R.R.M.K., Sasaki, J., Nakamura, Y. and Suzuki, T. Development of a benthic-pelagic coupled model for reproducing water quality in Tokyo Bay. *J. JSCE B3 (Ocean Eng.)*, 71(2), I_886-I_891, 2015.
- Shimozono, T., Tajima, Y., Kennedy, A.B., Nobuoka, H., Sasaki, J. and Sato, S.: Combined infragravity wave and sea-swell runup over fringing reefs by super typhoon Haiyan, *J. Geophys. Res. Oceans*, 120 (6), 4463-4486, doi:10.1002/2015JC010760, 2015.
- Suzuki, T., Hosoya, T. and Sasaki, J.: Estimating wave height using the difference in percentile sound level of coastal sound at Hasaki, Japan, *Coastal Eng.*, 99, 73-88, 2015.
- Wiyono, R.U.A., Sasaki, J. and Suzuki, T.: Effects of the tsunami countermeasures focusing on the tsunami arrival time in Kamakura, *J. JSCE B2 (Coastal Eng.)*, 70 (2), I_1331-I_1335, 2014.
- Chen, C., Lai, Z., Beardsley, R.C., Sasaki, J., Lin, J., Lin, H., Ji, R. and Sun, Y.: The March 11, 2011 Tōhoku M9.0 Earthquake-induced tsunami and coastal inundation along the Japanese coast: A model assessment, *Progress in Oceanography*, 123, 84-104, 2014.
- Mikami, T., Shibayama, T., Esteban, M., Ohira, K., Sasaki, J., Suzuki, T., Achiari, H. and Widodo, T.: Tsunami vulnerability evaluation in the Mentawai islands based on the field survey of the 2010 tsunami, *Natural Hazards*, 2013, DOI 10.1007/s11069-013-0936-z.
- Lai, Z., Chen, C., Beardsley, R., Lin, H., Ji, R., Sasaki, J. and Lin, J.: Initial spread of 137Cs from the Fukushima Dai-ichi Nuclear Power Plant over the Japan continental shelf: a study using a high-resolution, global-coastal nested ocean model, *Biogeosciences*, 10, 5439-5449, 2013, doi:10.5194/bg-10-5439-2013.
- Wiyono, R.U.A., Sasaki, J. and Suzuki, T.: Numerical assessment of the 2011 Tohoku Earthquake Tsunami in ports of Tokyo Bay with the effectiveness of floodgates, *J. Coastal Res.*, SI65, 844-849, 2013, doi: 10.2112/SI65-143.1.
- Niroshinie, M.A.C., Suzuki, T. and Sasaki, J.: Numerical modeling of bed profile evolution using Large Eddy Simulation, *J. Coastal Res.*, SI65, 350-355, 2013, doi: 10.2112/SI65-060.1.
- Orton, T. G., Lark, R. M. and Sasaki, J. Using Geostatistics to analyze prediction errors from a simulation model of sediment particle sizes across Tokyo Bay. *J. Coastal Res.*, 29(1), 141-156, 2013, doi: 10.2112/JCOASTRES-D-12-00003.1.
- Attari, M. J. and Sasaki, J. Enhanced numerical model for material cycling and water quality in Tokyo Bay, *Estuarine and Coastal Modeling*, ASCE, 12, 239-255, 2012.
- Sasaki, J., Ito, K., Suzuki, T., Wiyono, R.U.A., Oda, Y., Takayama, Y., Yokota, K., Furuta, A. and Takagi, H. Behavior of the 2011 Tohoku earthquake tsunami and resultant damage in Tokyo Bay. *Coastal Eng. J.*, 54(1), 1250012, 26pp., 2012.
- Laknath, D.P.C. and Sasaki, J. Elucidation of seasonal sediment transport processes in Kirinda Fishery Harbour in Sri Lanka using XBeach Model. *Proceedings of the 22nd International Offshore and Polar Engineering Conference*, 8pp., 2012.
- Attari, M.J. and Sasaki, J. Modeling of light intensity and phytoplankton dynamics in Tokyo Bay using monitoring dataset. *Proceedings of the 22nd International Offshore and Polar Engineering Conference*, 6pp., 2012.
- Wiyono, R.U.A. and Sasaki, J. Numerical analysis of the 2011 Tohoku tsunami in Tokyo Bay focusing on high water marks in ports. *Proceedings of the 22nd International Offshore and Polar Engineering Conference*, 8pp., 2012.
- Laknath, D.P.C. and Sasaki, J. Wave climate study around Kirinda Fishery Harbour in Sri Lanka using SWAN Model, *Proceedings of the 21st International Offshore and Polar Engineering Conference*,

- 1059-1066, 2011.
- Sasaki, J., Komatsu, Y., Matsumaru, R. and Wiyono, R.U.A. Unstructured model investigation of 2004 Indian Ocean Tsunami inundation in Banda Aceh, Indonesia, *J. Coastal Res.*, SI64, 941-945, 2011.
- Laknath, D.P.C. and Sasaki, J. Assessment of the tsunami rehabilitated fishery harbours in Sri Lanka, *J. Coastal Res.*, SI64, 1245-1249, 2011.
- Laknath, D.P.C. and Sasaki, J. Assessment of tsunami rehabilitated fishery harbour: a case study of Hikkaduwa Fishery Harbour, Sri Lanka. *Proc. 4th Int. Perspective on Water Resources and the Environment*, 10pp., 2011.
- Kasem, T. and Sasaki, J. Multiphase modeling of wave propagation over semicircular obstacles using WENO and level set methods. *Proc. Int. Conf. Coastal Eng., ASCE*, Paper No. 223, 12pp., 2010.
- Kasem, T. H. M. A. and Sasaki, J. Multiphase modeling of wave propagation over submerged obstacles using WENO and Level Set methods. *Coastal Engineering J.*, 52(3), 235-259, 2010.
- Laknath, D.P.C. and Sasaki, J. Study on sediment accumulation processes in Kirinda Fishery Harbour, Sri Lanka. *Proc. 20th Int. Offshore and Polar Eng. Conf.*, 8pp., 2010.
- Kasem, T. H. M. A. and Sasaki, J. Numerical modeling and experimental visualization of wave propagation over semicircular obstacles. *Proc. 20th Int. Offshore and Polar Eng. Conf.*, 8pp., 2010.
- Sasaki, J., Kanayama, S., Nakase, K., and Kino, S. Effective application of mechanical circulator for reducing hypoxia in an estuarine trench. *Coastal Eng. J.*, 51(4), 309-339, 2009.
- Sasaki, J. and Yoshimoto, Y. Field and numerical study on water quality processes in dredged trenches of Tokyo Bay. *Proc. Int. Symp. Engineering, Energy and Environment*, 22-27, 2009.
- Ichioka, S., Sasaki, J., Yoshimoto, Y., Shimosako, K. and Kimura, S. Analysis of sulfide dynamics including outbreak of blue tide in navigation channels and dredged trench of Tokyo Bay. *J. JSCE (Coastal Eng.)*, B2-65(1), 1041-1045, 2009. (in Japanese)
- Yoshimoto, Y., Sasaki, J., Shimosako, K. and Kimura, S. Numerical study on effective measures using water duct for reducing anoxia in a dredged trench in coastal waters. *J. JSCE (Coastal Eng.)*, B2-65, No. 1, 1176-1180, 2009. (in Japanese)
- Sasaki, J., Sato, Y., Rasmeemasuang, T. and Shibayama, T. On the mechanism of organic-rich sediment accumulation at the head of Tokyo Bay. *Proc. of 5th Int. Conf. on Asian and Pacific Coasts*, 2, 67-74, 2009.
- Kasem, T. and Sasaki, J. Modeling of multiphase flow using level set methods and accurate hyperbolic solvers. *Annual J. Civil Eng. in the Ocean*, 25, 843-848, 2009.
- Sasaki, J., Kawamoto, S., Yoshimoto Y., Ishii, M. and Kakino, J. Evaluation of the amount of hydrogen sulfide in a dredged trench of Tokyo Bay. *J. Coastal Res.*, SI56, 890-894, 2009.
- Maeda, S. and Sasaki, J. Environmental evaluation methodology for tidal flats and shallows focusing on short-necked clams and decomposition rate of organic matter. *Annual J. Coastal Eng., JSCE*, 55, 1156-1160. (in Japanese)
- Rasmeemasuang, T. and Sasaki, J. Modeling of mud accumulation and bed characteristics in Tokyo Bay, *Coastal Engineering Journal*, 50(3), pp. 277-308, 2008.
- Ichioka, S., Sasaki, J., Yoshimoto, Y., Matsusaka, S., Arijji, R. and Morohoshi, K. Development of an efficient method for estimation of total hydrogen sulfide in a dredged trench of Tokyo Bay. *Annual J. Civil Eng. in the Ocean, JSCE*, 24, 669-674, 2008. (in Japanese)
- Azuma, M. and Sasaki, J. Environmental evaluation of oyster reef ecosystem in Sanbanze Shallows of Tokyo Bay. *Annual J. Civil Eng. in the Ocean, JSCE*, 24, 801-806, 2008. (in Japanese)
- Sasaki, J. and Rasmeemasuang, T. Field investigation and numerical modeling of soft mud accumulation in an estuarine embayment. *Indo-Japan Workshop on Coastal Problems and Mitigation Measures - Including the Effects of Tsunami-*, 10pp, 2007. (Invited)
- Kashihara, H. and Sasaki, J. Study on the history of reclamation and its effect on physical environment in Tokyo Bay. *Proc. of Annual Conference of Japanese Assoc. for Coastal Zone Studies*, 4pp., 2007. (in press) (in Japanese)

- Rasmeemasuang, T. and Sasaki, J. Modeling of sediment accumulation in a bay considering grain size variation. Annual J. Civil Engineering in the Ocean, JSCE, Vol. 23, 6pp., 2007. (in press) (in Japanese)
- Sasaki, J. and Kakuda, A. Field survey on sediment properties in Yokohama Port of Tokyo Bay. Annual J. Civil Engineering in the Ocean, JSCE, Vol. 23, 6pp., 2007. (in press) (in Japanese)
- Furumaki, D. and Sasaki, J. Experimental study on enhancement of sea grass photosynthesis using LED lights. Annual J. Civil Engineering in the Ocean, Vol. 23, 6pp., 2007. (in Japanese)
- Takeda, M., Sasaki, J., Mikami, N., Sasaki, H., Adachi, Y. and Kumada, Y. Field experiment for improvement of hypoxic waters in a fishing port anchorage using microbubble aeration. Annual J. Civil Engineering in the Ocean, Vol. 23, 6pp, 2007. (in Japanese)
- Sasaki, J. and Maeda, S. Simple methodology for environmental evaluation of tidal flats and shallows focusing on oxygen consumption rate. Proc. 4th Int. Conf on Asian and Pacific Coasts, 14pp., 2007.
- Rasmeemasuang, T. and Sasaki, J. Integrated modeling for formation and characteristics of sediment layer in Tokyo Bay. Proc. 4th Int. Conf on Asian and Pacific Coasts, 15pp., 2007.
- Achiari, H. and Sasaki, J. Numerical Analysis of Wind-Wave Climate Change and Spatial Distribution of Bottom Sediment Properties in Sanbanze Shallows of Tokyo Bay, J. Coastal Res., SI50, 5pp., 2007.
- Sasaki, J. and Rasmeemasuang, T. A preliminary study on prediction of sediment grain size variation in Tokyo Bay. The 56th National Congress of Theoretical and Applied Mechanics, 2pp., 2007. (in Japanese)
- Shibayama, T., Okayasu, A., Sasaki, J., Wijayaratna, N., Suzuki, T., Jayaratne, R., Masimin, Zouhrawaty Ariff and Matsumaru, R. Proc. 30th Int. Conf. on Coastal Eng., Vol. 2, ASCE, pp. 1469-1476, 2006.
- Rasmeemasuang, T. and Sasaki, J. Numerical simulation of cohesive and non-cohesive sediment accumulation in Tokyo Bay, 7th Int. Conf. on Hydrosience and Eng., 17pp., 2006. (online)
- Rasmeemasuang T. and Sasaki, J. Numerical analysis of characteristics of annual accumulated sediment in Tokyo Bay, Proc. Techno-Ocean 2006/19th JASNAOE Ocean Eng. Symp., 8pp., 2006. (on CD-ROM)
- Ueda, Y. and Sasaki, J. Estimation of phosphorus cycling in catchement area of Tokyo Bay and its response to change in eating habits, Annual J. Coastal Eng., JSCE, 53, 1376-1380, 2006. (in Japanese)
- Sasaki, J. and Maeda, S. Environmental evaluation of tidal flats focusing on oxygen consumption rate. Annual J. Coastal Eng., JSCE, 53, 1046-1050, 2006. (in Japanese)
- Sasaki, H., Sasaki, J., Takeda, M., Okano, T. and Adachi, Y. Evaluation of oxygen supply rate of microbubble aeration system in a enclosed water. Annual J. Coastal Eng., 53, 1171-1175, 2006. (in Japanese)
- Achiari, H. and Sasaki, J. Numerical prediction of spatial and temporal variation of bed shear stress in Sanbanze Tideland of Tokyo Bay. Proc. of 8th International Summer Symposium, JSCE, Nagoya, Japan, 111-114, 2006.
- Rasmeemasuang, T. and Sasaki, J. Numerical study on spatial variation of sediment accumulation in Tokyo Bay, Proc. of Annual Conference of Japanese Assoc. for Coastal Zone Studies, No. 19, 72-76, 2006. (in Japanese)
- Shibayama, T., Okayasu, A., Sasaki, J., Suzuki, T., Matsumaru, R., Masimin and Zouhrawaty A. Ariff. Field survey on 2004 Indian Ocean Tsunami runup height and coastal erosion in Banda Aceh of Indonesia., Monthly Earth Extra, No. 56, pp. 146-153, 2006. (in Japanese)
- Sasaki, H., Takeda, M., Okano, T. and Sasaki, J. Modeling of water quality in Hiruga Lake based on field monitoring and hindcasting. Proc. Annual Conf. the Japanese Soc. Fisheries Eng., 4pp., 2006. (in Japanese)
- Sasaki, J. and Igarashi, M. Spatial characteristics of soft-mud accumulation in inner part of Tokyo Bay, Japan, Proc. 3rd Int. Conf. on Asian and Pacific Coasts, pp. 943-955, 2005.

- Shibayama, T., Okayasu, A., Sasaki, J., Wijayaratna, N., Suzuki, T., Jayaratne, R., Masimin, Zouhrawaty Ariff and Matsumaru, R. Disaster survey of Indian Ocean Tsunami and its application to disaster prevention works. Proc. 3rd Int. Conf. on Asian and Pacific Coasts, Special Tsunami Session, pp. 33-35, 2005.
- Shibayama, T., Okayasu, A., Sasaki, J., Suzuki, T. and Matsumaru, R. The 2004 Sumatra Earthquake Tsunami, Tsunami Field Survey in Banda Aceh of Indonesia. Annual J. Coastal Eng., JSCE, 52, 1371-1375, 2005. (in Japanese)
- Sibayama, T., Okayasu, A., Wijayaratna, N., Sasaki, J., Suzuki, T., Jayaratne, R. The 2004 Sumatra Earthquake Tsunami, Tsunami Field Survey in Southern Part of Sri Lanka, Annual J. Coastal Eng., JSCE, 52, 1401-1405, 2005. (in Japanese)
- Sasaki, J., Akaeda, K. and Achiari, H. Spatial Distribution of Mud Accumulation and Cause of Its Formation over the Nekoanegawa River Mouth in Sanbanze Shallows of Tokyo Bay. Annual J. Coastal Eng., JSCE, Vol. 51, pp. 996-1000, 2004. (in Japanese)
- Igarashi, M. and Sasaki, J. Spatial Characteristics of Mud Layer Thickness in Inner Part of Tokyo Bay. Annual J. Coastal Eng., JSCE, Vol. 51, pp. 981-985, 2004. (in Japanese)
- Koibuchi, Y., Isobe, M., Sasaki, J., Fujita, M., Gomyo, M., Kurihara, A., Tanaka, M., Mohammad, I. and Suzuki, T. Field experiment of improving oxygen deficient water by micro bubble aeration system. Annual J. Coastal Eng., JSCE, Vol. 51, pp. 1156-1160, 2004. (in Japanese)
- Tanaka, M., Sasaki, J., Shibayama, T. and Isobe, M. On the effect of microbubble aeration on remediation of hypoxic water in a coastal trench. Annual J. Coastal Eng., JSCE, Vol. 51, pp. 1161-1165, 2004. (in Japanese)
- Kanayama, S., Sasaki, H., Sasaki, J., Okada, T., Kasuya, Y., Kino, S., Hiromi, J. and Nakase, K. Field verification and numerical modeling for a water circulating device to increase dissolved oxygen in the bottom water. Annual J. Coastal Eng., JSCE, Vol. 51, pp. 1166-1170, 2004. (in Japanese)
- Kanayama, S., Kasuya, Y., Kino, S., Sasaki, J., Hiromi, J. and Okada, T. Study on the improvement of seawater quality in enclosed area using a water circulating device. Annual J. Civil Eng. in the Ocean, JSCE, Vol. 20, pp. 959-964, 2004. (in Japanese)
- Sasaki, J., Hagiwara, T. and Isobe, M. Numerical Prediction of Physical Environmental change after Construction of Offshore Airport Planned in Tokyo Bay, Proc. 2nd Int. Conf. on Asian and Pacific Coasts, 11pp., 2003. (on CD-ROM)
- Iyoda, N., Sasaki, J. and Isobe, M. Quantification of Oxygen Cycling in a Seagrass Bed, Proc. 2nd Int. Conf. on Asian and Pacific Coasts, Makuhari, Japan, 12pp., 2003. (on CD-ROM)
- Koibuchi, Y., Sasaki, J. and Isobe, M. Field observation temporal and spatial dynamics of water quality, Proc. Coastal Eng., JSCE, Vol. 50, pp. 971-975, 2003. (in Japanese)
- Sasaki, J., Koide, M., Osada, M., Shibayama, T. and Isobe, M. Numerical study on the improvement of hypoxic water appeared in Sanbanze Shallow, Tokyo Bay, using microbubble aeration system, Proc. Coastal Eng., JSCE, Vol. 50, pp. 981-985, 2003. (in Japanese)
- Shibayama, T., Kawahata, Y., Shibayama, T. and Sasaki, J. Ideal relationship between experts and public in the selection of public works, Proc. Coastal Eng., JSCE, Vol. 50, pp. 1351-1355, 2003. (in Japanese)
- Sasaki, J., Koibuchi, Y. and Isobe, M. Realistic numerical simulation of water quality and ecosystems in Tokyo Bay, Proc. of the Third Joint Meeting of the Coastal Environmental Science and Technology Panel of the United States-Japan Cooperative Program in Natural Resources, pp. 143-157, 2002.
- Sasaki, J., Hagiwara, T. and Isobe, M. Prediction of physical environment after construction of new airports in Tokyo Bay, Proc. Coastal Eng., JSCE, Vol. 49, pp. 981-985, 2002. (in Japanese)
- Koibuchi, Y., Sasaki, J. and Isobe, M. Temporal and spatial dynamics of Ariake Sea during the year of 2001, Proc. Coastal Eng., JSCE, Vol. 49, pp. 1056-1060, 2002. (in Japanese)
- Iyoda, N., Sasaki, J. and Isobe, M. Quantification of oxygen cycling in seagrass meadow, Proc. Coastal Eng., JSCE, Vol. 49, pp. 1166-1170, 2002. (in Japanese)

- Sasaki, J., Koibuchi, Y., Watanabe, R., Isobe, M. and Gomyo, M. Enhanced monitoring of phytoplankton blooming and nutrient cycling processes in inner part of Tokyo Bay, Proc. 1st Asian and Pacific Coastal Eng. Conf., Dalian, China, Vol. 1, pp. 545-554, 2001.
- Koibuchi, Y., Sasaki, J. and Isobe, M. Study on budget and circulation of nitrogen and phosphorus in Tokyo Bay, Proc. Coastal Eng., JSCE, Vol. 48, pp. 1076-1080, 2001. (in Japanese)
- Sasaki, J., Watanabe, R., Isobe, M. and Gomyo, M. Estimation of primary production during winter in inner Tokyo Bay using automatic vertical profiling system, Proc. Coastal Eng., JSCE, Vol. 48, pp. 1091-1095, 2001. (in Japanese)
- Suzuki, M., Isobe, M. and Sasaki, J. A method for estimating density of *Ruditapes Philippinarum*, Proc. Coastal Eng., JSCE, Vol. 48, pp. 1391-1395, 2001. (in Japanese)
- Sasaki, J. and Isobe, M. Development of a Long-Term Predictive Model for Baroclinic Circulation and Its Application to Blue Tide Phenomenon in Tokyo Bay, Proc. 27th Int. Conf. on Coastal Eng., Vol. 4, ASCE, pp. 3870-3883, 2000.
- Koibuchi, Y., Ogura, H., Ando, H., Gomyo, M., Sasaki, J. and Isobe, M. Observation of annual cycle of nutrients in the inner part of Tokyo Bay, Proc. Coastal Eng., JSCE, Vol. 47, pp. 1066-1070, 2000. (in Japanese)
- Koibuchi, Y., Gomyo, M., Sasaki, J. and Isobe, M. Detailed observation of spring phytoplankton blooms in Tokyo Bay, Proc. Coastal Eng., JSCE, Vol. 47, pp. 1071-1075, 2000. (in Japanese)
- Sasaki, J. and Isobe, M. Development of a Long-Term Predictive Model of Water Quality in Tokyo Bay, Estuarine and Coastal Modeling, Vol. 6, ASCE, pp. 564-580, 1999.
- Sasaki, J. and Isobe, M. A Long-Term Nowcast Simulation of Hydrodynamic Flow and Water Quality in Tokyo Bay, Proc. of the Second Joint Meeting of the Coastal Environmental Science and Technology Panel of the United States-Japan Cooperative Program in Natural Resources, pp. 99-114, 1999.
- Sasaki, J., Isobe, M. and Fujimoto, H. A simple forecast method of blue tide in Tokyo Bay, Proc. Coastal Eng., JSCE, Vol. 46, pp. 1006-1010, 1999. (in Japanese)
- Sasaki, J., Isobe, M. and Imai, M. Study on phytoplankton dynamics in Tokyo Bay -A case study in 1996-, Proc. Coastal Eng., JSCE, Vol. 46, pp. 1021-1025, 1999. (in Japanese)
- Kanno, Y., Sasaki, J., Isobe, M. and Watanabe, A. Prediction of wave field, grain size distribution and biota in Sanbanze Shallows of Tokyo Bay, Proc. Annual Colloquium, Japanese Association for Coastal Zone Studies, No. 12, pp. 44-49, 1999.
- Watanabe, A., Nakamura, Y., Sasaki, J., Kobayashi, H. and Isobe, M. A numerical model of wave run-up and resulting longshore sediment transport due to obliquely incident wave, Proc. Coastal Eng., JSCE, Vol. 45, pp. 186-190, 1998. (in Japanese)
- Sasaki, J., Ishii, M. and Isobe, M. A high-resolution numerical circulation model and its application to long-term nowcast simulation in Tokyo Bay, Proc. Coastal Eng., JSCE, Vol. 45, pp. 406-410, 1998. (in Japanese)
- Gomyo, M., Sasaki, J. and Isobe, M. Field measurements of 'Aoshio' upwelling at dredged area in Tokyo Bay, Proc. Coastal Eng., JSCE, Vol. 45, pp. 981-985, 1998. (in Japanese)
- Sasaki, J., Sanuki, H. and Isobe, M. Numerical simulation of eutrophication in Tokyo Bay, Proc. Coastal Eng., JSCE, Vol. 45, pp. 1036-1040, 1998. (in Japanese)
- Sasaki, J. Lagrangean modeling of phytoplankton dynamics, Proc. Coastal Eng., JSCE, Vol. 45, pp. 1141-1145, 1998. (in Japanese)
- Sasaki, J. and Isobe, M. Upwelling of Anoxic Water in Tokyo Bay, Proc. of the 2nd Japan-China Bilateral Symposium on Safety and Environmental Engineering, pp. 169-176, 1997.
- Sasaki, J., Isobe, M., Watanabe, A. and Gomyo, M. Numerical study on 'Aoshio', upwelling of anoxic water, in Tokyo Bay, Proc. of the XXVIIth Congress of the International Association for Hydraulic Research, San Francisco, pp. B641-B646, 1997.
- Sasaki, J., Imai, M. and Isobe, M. Numerical modeling of dissolved oxygen in Tokyo Bay, Proc. Coastal Eng., JSCE, Vol. 44, pp. 1091-1095, 1997. (in Japanese)

- Sasaki, J. Upwelling of anoxic water and its effects on Aoshio near the head of Tokyo Bay, Proc. Coastal Eng., JSCE, Vol. 44, pp. 1101-1105, 1997. (in Japanese)
- Sasaki, J., Isobe, M., Watanabe, A. and Gomyo, M. Study on the cause of the scale of blue tide occurred in Tokyo Bay, Proc. Coastal Eng., JSCE, Vol. 43, pp. 1111-1115, 1996. (in Japanese)
- Sasaki, J., Isobe, M., Watanabe, A. and Gomyo, M. Observation of upwelling of anoxic bottom waters in Tokyo Bay, Proc. of the XXVIth Congress of the International Association for Hydraulic Research, London, Vol. 3, pp. 64-69, 1995.
- Sasaki, J., Isobe, M., Watanabe, A. and Gomyo, M. Field measurements of seasonal variation of temperature and dissolved oxygen in Tokyo Bay, Proc. of the Techno-Ocean '94 International Symposium, Kobe, pp. 7-12, 1994.
- Sasaki, J., Isobe, M., Watanabe, A. and Gomyo, M. Field observation and one-dimensional modeling of seasonal variation of temperature and dissolved oxygen in Tokyo Bay, Proc. Coastal Eng., JSCE, Vol. 40, pp. 1051-1055, 1993. (in Japanese)