APPENDIX II – SCIENTIFIC PUBLICATIONS EXAMINED IN ASEAN+3 (FOR COUNTRIES WITH >30 PUBLICATIONS)

As part of Part 1, Section 2 – "Marine Plastic Research in ASEAN+3 Member States".

Table 1. List of published work identified and examined in this study for Indonesia, where total literature examined is 64.

Published Peer Reviewed Work/Research Team	Aim of Research	Period of Study
Kusumawati et al. (2020a) Teuku Umar University; Raja Ali Haji Maritime University; Bogor Agricultural Institute	Examinining millennial perception towards marine litter and the influence of environmental education towards youth perceptions in West Aceh, Indonesia	January-June 2019
Kusumawati et al. (2020b) Teuku Umar University; Raja Ali Haji Maritime University; Bogor Agricultural Institute	Examining the people's perception towards marine litter responsibility in Aceh Jaya Regency, Indonesia	January-July 2019
Purba and Faizal (2019) Padjadjaran University	Asssessing the efficiency of novel surface drifters (Float Artificial Debris, FAD) in measuring the spread of marine debris, using Lagrangian instrument and trajectory analysis	N.A.
Petrlik et al. (2019) International Pollutants Elimination Network (international); Arnika Association (Czech); Nexus3 Foundation; Ecological Observation and Wetlands Conservation	Analysing pollution status and toxicity of plastic waste at dumping sites, in relation to food chain contamination and human health impact	April 2019, June to September 2019
Cordova and Nurhati (2019) Indonesian Institute of Sciences	Quantifying, identifying and characterising macroplastics monthly emissions from 9 estuarine rivers into Jakarta Bay, Indonesia	June 2017 to June 2018
Afdal et al. (2019) Hasanuddin Uni	Quantifying, identifying and characterising microplastics in coastal waters of Makassar City, South Sulawesi, Indonesia	N.A.
Asadi et al. (2019) Uni of Brawijaya	Quantifying, identifying and characterising microplastics in intertidal sediments at Lamongan, Indonesia	June 2018
Ayuningtyas et al. (2019) Brawijaya Uni; State Uni of Malang	Quantifying, identifying and characterising microplastics in eastern Java Sea at Banyuurip, Central Java, Indonesia	March 2018
Cordova et al. (2019) Indonesian Institute of Sciences; Sriwijaya Uni; Udayana Uni	Quantifying, identifying and characterising microplastics in coastal regions in northern Surabaya, East Java, Indonesia	March 2017
Falahudin et al. (2019)	Quantifying, identifying and characterising microplastics in sediment in waters of Banten Bay, Indonesia	April 2016

Published Peer Reviewed Work/Research Team	Aim of Research	Period of Study
Indonesian Institute of Sciences; Chinese Academy of Sciences (China)		
Firdaus et al. (2019) Sepuluh Nopember Institute of Technology	Quantifying, identifying and characterising microplastics in sediment of Wonorejo estuary in Surabaya, Indonesia	N.A.
Germanov et al. (2019) Murdoch Uni (Australia); Marine Megafauna Foundation (UK); Udayana Uni; Victoria Uni of Wellington (New Zealand); Mataram Uni; Bogor Agricultural Uni	Quantifying, identifying and characterising surface microplastics in coastal feedings grounds for manta rays and whale sharks in Indonesia	2016 to 2018
Handyman et al. (2019) Padjadjaran Uni; Ministry of Maritime Affairs and Fisheries; Sekolah Tinggi Teknologi Angkatan Laut	Hydrodynamic and particle tracking modelling of microplastic movement at Java Sea; Examining probability of microplastic patch	November 2015 to May 2016
Hastuti et al. (2019) Bogor Agricultural Uni	Quantifying, identifying and characterising microplastics in commercial bivalves in the Wonorejo estuary, downstream of Surabaya river, Indonesia	March to July 2015
Hiwari et al. (2019) Padjadjaran Uni	Quantifying, identifying and characterising surface microplastics in Savu Sea, East Nusa Tenggara Province	June 2018
Ismail et al. (2019) Padjadjaran Uni	Quantifying, identifying and characterising microplastics in locally caught fish in Pangandaran Bay, Indonesia	April 2018
Isyrini et al. (2019) Hasanuddin Uni; Indonesian Institute of Sciences	Quantifying, identifying and characterising macroplastics among coastal debris on Labuange, Lumpue and Bojo beach of Indonesia (a follow-up to Isyrini et al. 2018 study)	March to May 2018
Jasmin et al. (2019) Padjadjaran Uni; Ministry of Maritime Affairs and Fisheries	Hydrodynamic and particle tracking modelling of macrodebris movement at estuaries leading to Jakarta Bay, before and after its reclamation; Examining probability of microplastic patch	2012 to 2018
Lestari and Trihadiningrum (2019) Sepuluh Nopember Institute of Technology	Review country's solid waste management infrastructure and services, and its impact to plastic pollution in Indonesia	N.A.
Lubis et al. (2019) Raja Ali Haji Maritime Uni; Jenderal Soedirman Uni	Quantifying, identifying and characterising micro- and meso-plastics in fish in waters near human settlement	May 2018 to January 2019
Purba et al. (2019a) Padjadjaran Uni; Raja Ali Haji Maritime Uni; Ministry of Maritime Affairs and Fisheries; MantaWatch (UK)	Literature review of marine debris research and status in Indonesia	2012 to 2018
Purba et al. (2019b) Padjadjaran Uni; Pusat Riset Kelautan; Sekolah Tinggi Teknologi Angkatan Laut	Hydrodynamic and particle tracking modelling of microplastic movement at the Savu Sea National Marine Park, East Nusa Tenggara	2017

Published Peer Reviewed Work/Research Team	Aim of Research	Period of Study
Rachmat et al. (2019) Padjadjaran Uni	Quantifying, identifying and characterising microplastics in waters at river mouth and coastal waters off the Jakarta Bay, Indonesia, at different tidal conditions and water depth	July 2017
Rahmawati and Patria (2019) Uni of Indonesia	Quantifying, identifying and characterising microplastics in waters and in fish at mangrove ecosystem of the Muara Teluknaga, Tangerang regency of Indonesia	N.A.
Syakti et al. (2019) Jenderal Soedirman Uni; Raja Ali Haji Maritime Uni; Riau Islands Province Dompak; Aix Marseille Uni (France); National Uni of Singapore (Singapore)	Investigating impacts of LDPE on *Acropora formosa* coral health (bleaching and necrosis)	August 2018
Tahir et al. (2019) Hasanuddin Uni	Quantifying, identifying and characterising microplastics in sediment and benthic animal of a seagrass ecosystem at Spermonde archipelago	July and September 2017
van Emmerik et al. (2019) The Ocean Cleanup (The Netherlands)	Assessment of riverine macroplastic transport into the ocean (Java Sea)	May 2018
Yona et al. (2019) Brawijaya Uni; State Uni of Malang	Quantifying, identifying and characterising microplastics in eastern Java Sea	March 2018
Akhir (2018) World Maritime Uni (Sweden)	Literature review of the effectiveness of the national marine plastic plan by the Indonesian Government and providing recommendations	N.A.
Bangun et al. (2018) Uni of North Sumatra	Quantifying, identifying and characterising microplastics in sediments in assessing relation to macrozoobenthos density in Jaring Halus Village	February to April 2017
Cordova and Hernawan (2018) Indonesian Institute of Sciences	Quantifying, identifying and characterising microplastics in Sumba pristine outlet of Surabaya river	August 2016
Cordova et al. (2018) Indonesian Institute of Sciences	Quantifying, identifying and characterising of microplastics in coral reef sediment in Sekotong, Lombok Island	December 2015
Giesler (2018) SIT Study Abroad (USA)	Literature review of marine plastic problem in Bali, Indonesia	N.A.
Hoeksema and Hermanto (2018) Naturalis Biodiversity Center; Indonesian Institute of Sciences	Examining presence of ALDFG (plastic net) and as a substrate for coral reef	N.A.
Ismail et al. (2018) Padjadjaran Uni	Quantifying, identifying and characterising microplastics in locally caught fish in Biawak Island, Indonesia	May to July 2017
Isyrini et al. (2018) Hasanuddin Uni; Indonesian Institute of Sciences	Quantifying, identifying and characterising coastal debris into different types, including plastic, in Labuange beach, South Sulawesi, Indonesia	June to August 2018
Khoironi et al. (2018)	Quantifying, identifying and characterising microplastics in wild Asian green mussels of 3 different salinities in Java Sea	September 2017

Published Peer Reviewed Work/Research Team	Aim of Research	Period of Study
Diponegoro Uni		
Lestari et al. (2018) Sepuluh Nopember Institute of Technology	Quantifying, identifying and characterising microplastics in commercial M. Meretrix bivalves in the Wonorejo estuary, downstream of Surabaya river, Indonesia	N.A.
Maharani et al. (2018) Uni of North Sumatra	Quantifying, identifying and characterising coastal debris into different types, including plastic, in Tunda Island	N.A.
Manullang et al. (2018) Indonesian Institute of Sciences	Literature review of current marine pollution research status and future prospect (of plastic pollution) in the Banda Sea	N.A.
Nordén and Karlsson (2018) KTH Royal Institute of Technology (Sweden)	Examining the effectiveness of a mathematical model in determining the optimal placement of a clean-up system following particle tracking, a case study at Jakarta Bay, Indonesia	February 2011
Purba et al. (2018a) Padjadjaran Uni; Divers Clean Action; National Marine Protected Area Agency	Quantifying, identifying and characterising coastal debris into different types, including plastic, in Savu Sea Marine National Park	June 2018
Purba et al. (2018b) Padjadjaran Uni	Quantifying, identifying and characterising coastal debris into different types, including plastic, in Pangandaran Beach	May, August, October 2017
Ramos et al. (2018) Padjadjaran Uni	Hydrodynamic and particle tracking modelling of microplastic movement from western Pacific Ocean to the northern waters of Indonesia; Examining probability of microplastic patch	2016
Richardson et al. (2018) Uni of Tasmania CSIRO (Australia); Ghostnets Australia (Australia)	Examining possible causes of ALDFG from Australian and Indonesian fisherman	N.A.
Shuker and Cadman (2018) World Bank	Informed and analysing land-based leakage of solid waste, particularly plastics, to the marine environment	N.A.
Sur et al. (2018) Uni of California, Davis (USA); Hasanuddin Uni	Examining the effectiveness of an educational outreach programme in raising awareness of the impacts and scale of marine debris to children in Barrang Lompo, Makassar City, South Sulawesi, Indonesia	2013 to 2016
Syakti et al. (2018) Jenderal Soedirman Uni; Raja Ali Haji Maritime Uni; Riau Uni	Quantifying, identifying and characterising surface microplastics in high human-impact stations around Bintan regency, Riau Islands, Indonesia	N.A.
Tahir et al. (2018) Hasanuddin Uni	Quantifying, identifying and characterising coastal debris into different types, including plastic, at coastal areas of Takalar District and Makassar City	August to October 2016
Tangdesu et al. (2018) Hasanuddin Uni	Quantifying, identifying and characterising coastal debris into different types, including plastic, in Biringkassi River, Takalar Regency, South Sulawesi, Indonesia	August 2017
Wahyuningsih et al. (2018) Uni of North Sumatra	Quantifying, identifying and characterising micro- and macro-plastics in sediments in assessing sediment texture to plastic density in Jaring Halus Village	February to April 2017

Published Peer Reviewed Work/Research Team	Aim of Research	Period of Study
Husrin et al. (2017) Ministry of Maritime Affairs and Fisheries; Uni Dhyana Pura Bali	Quantifying, identifying, characterising and comparing coastline, seabed and floating macroplastic on Kuta Beach, Bali, during different seasons; Examining possible sources of macroplastic; Assessing local's awareness and perspective of marine pollution responsibility	March, April, December 2015, and February 2016
Manalu et al. (2017) Bogor Agricultural Uni	Quantifying, identifying and characterising of microplastics in riverbed sediment in Jakarta Bay, Indonesia	December 2015, January 2016
Purba et al. (2017) Padjadjaran Uni	Quantifying, identifying and characterising coastal debris into different types, including plastic, in Biawak Island, Indramayu, Indonesia	2013 and 2014
Syakti (2017) Jenderal Soedirman Uni; Raja Ali Haji Maritime Uni	Discussing standardized microplastic monitoring methodologies in various marine environments	N.A.
Syakti et al. (2017) Jenderal Soedirman Uni; Raja Ali Haji Maritime Uni; Aix Marseille Uni (France)	Quantifying, identifying and characterising coastal debris into different types, including plastic, on Cilacap coast, Indonesia	2013 to 2015
Balasubramaniam and Phillott (2016) Asian Uni for Women	Quantifying, identifying and characterising of microplastics on sea turtle nesting beaches around the Indian Ocean, in relation to further examining the potential of microplastic threat to sea turtle	N.A.
Cordova and Wahyudi (2016) Indonesian Institute of Sciences	Quantifying, identifying and characterising of microplastics in deep-sea sediment in Southwestern Sumatera waters	May 2015
Pangetsu et al. (2016) Padjadjaran Uni	Hydrodynamic and particle tracking modelling of microplastic movement at Indramayu	N.A.
Attamimi et al. (2015) Padjadjaran Uni; Ministry of Maritime Affairs and Fisheries	Quantifying, identifying and characterising coastal debris into different types, including plastic, in Kuta beach, Bali	N.A.
Dewi et al. (2015) Mulawarman Uni	Quantifying, identifying and characterising of microplastics in various sediments in Muara Badak, Kutai Kartanegara regency, Indonesia	April 2015
Rochman et al. (2015) Uni of California, Davis (USA); Hasanuddin Uni	Quantifying, identifying and characterising microplastics in fish sold in fish market in Indonesia	August to November 2014
Hastuti et al. (2014) Bogor Agricultural Uni	Quantifying, identifying and characterising macroplastics and microplastics in mangrove ecosystem of Pantai Indah Kapuk, Jakarta	March to August 2014
Oktaviana et al. (2014) Hasanuddin Uni	Quantifying, identifying and characterising land and marine debris into different types, including marine plastic, in Barrang Lompo Island	N.A.

Table 2. List of published work identified and examined in this study for Malaysia, where total literature examined is 36.

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
Amin et al. (2019) Uni Malaysia Terengganu	Quantifying, identifying, characterising and comparing microplastic in zooplankton and seawater in Terangganu coast, Malaysia	August 2017
Chee et al. (2019) Uni Sains Malaysia; Natural Resources Wales (UK); Uni of Tasmania (Australia)	Quantifying, identifying and characterising mangrove debris into different types, including plastic, in 4 mangroves of Malaysia	October, November 2018
Chukwuma et al. (2019) Nnamdi Azikiwe Uni (Nigeria); Uni Putra Malaysia	Developing and application of a Plastic Waste Leakage Model using GIS geospatial technology for land-based plastic leakage to the ocean	N.A.
Fauziah et al. (2019) Uni of Malaya; Uni Teknologi MARA; Uni Science Malaysia; Department of Fisheries Malaysia	Quantifying, identifying and characterising coastal debris into different types, including plastic, in 2 beaches of Malaysia; Examining occurrences of marine debris in relation to dry and rainy seasons	April to December 2018
Hocajo-Berná et al. (2019) Juara Turtle Project	Quantifying, identifying and characterising ingested debris, including plastic, in dead sea turtle (Chelonia mydas green turtle) of Tioman Island, Malaysia	June 2017
Karbalaei et al. (2019) Alzahra Uni (Iran); Kian Fara Pars Pharmaceutical Co. (Iran); Uni Putra Malaysia; Dalhousie Uni (Canada); Griffith Uni (Australia)	Quantifying, identifying and characterising microplastics in commercial fish from the fish market in Malaysia	N.A.
Anuar et al. (2018) Uni Malaysia Terengganu	Quantifying, identifying, characterising and comparing ingested microplastics in wild and farmed sea cucumbers (*Holothuria scabra*) in Malaysian waters	N.A.
Egbeocha et al. (2018) Uni of Malaya; Hezekiah Uni (Nigeria)	Reviewing effects of ingested microplastic in marine organisms on a global scale	N.A.
Hamid et al. (2018) Uni of Malaya	Reviewing global abundance and distribution of microplastics in marine and freshwater ecosystems	N.A.
Karami et al. (2018) Uni Putra Malaysia; Monash Uni Malaysia; HORIBA Jobin Yvon S.A.S. (France)	Quantifying, identifying and characterising microplastics and mesoplastics in canned sardines and sprats manufactured for direct human consumption	N.A.
Khalik et al. (2018) Uni Malaysia Terengganu (Microplastic Research Interest Group)	Quantifying, identifying and characterising microplastics found in Malaysian marine waters near Kuala Nerus and Kuantan port.	September to October 2015
Praveena et al. (2018) Uni Putra Malaysia; Uni Teknologi MARA; SOKA Uni (Japan)	Estimating microplastic emission from personal care and cosmetics products into the marine environment in Malaysia	N.A.
Auta et al. (2017a) Uni of Malaya; Federal Uni of Tech. (Nigeria)	Examining potential of bacterial isolates of mangrove sediment in degrading UV-treated PE, PET, PP, PS polymer types microplastics	N.A.

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
Auta et al. (2017) Uni of Malaya; Federal Uni of Tech. (Nigeria)	Examining polypropylene-degrading microorganisms in mangrove sediments obtained from Peninsular Malaysia	N.A.
Auta et al. (2017b) Uni of Malaya; Federal Uni of Tech. (Nigeria)	Global outlook at the concentration, biological impact, distribution sources and fate of microplastics	N.A.
Estim and Sudirman (2017) Uni Malaysia Sabah	Quantifying, identifying and characterising coastal debris into different types, including macroplastics & microplastics in coastline sediment; floating macroplastic, in Sebatik Island, Tawau, Sabah, Malaysia	December 2015 to May 2016
Ibrahim et al. (2017) Uni Malaysia Terengganu	Quantifying, identifying and characterising microplastics in wild and farmed Asian sea bass (*Lates calcarifer*) in Setiu Wetlands, Malaysia	October 2016
Karami et al. (2017a) Uni Putra Malaysia; Monash Uni Malaysia; HORIBA Jobin Yvon S.A.S. (France); Uni of Exeter (UK)	Quantifying, identifying and characterising microplastics in edible commercial salts across countries including Malaysia, in relation to human health	N.A.
Karami et al. (2017b) Uni Putra Malaysia; Monash Uni Malaysia; HORIBA Jobin Yvon S.A.S. (France)	Quantifying, identifying and characterising microplastics in edible fish tissues	N.A.
Matsuguma et al. (2017) Tokyo Uni of Agriculture and Tech.; Tokyo Uni of Pharmacy and Life Sciences; Environmental Research and Training Center (Thailand); Uni of Malaya, Malaysia; Council for Science and Industrial Research (South Africa)	Quantifying, identifying and characterising microplastics in various sediment cores in Asia and Africa, including Malaysia coastal area	September 2006 (for Malaysia)
Mobilik et al. (2017) Uni Malaysia Sarawak; Uni Malaysia Terengganu	Quantifying, identifying and characterising coastal debris into different types, including plastic, in Sabah, Malaysia during different seasons; Examining possible sources of macroplastic	December 2012, May, July 2013
Ibrahim et al. (2016) Uni Malaysia Terengganu	Quantifying, identifying and characterising microplastics in wild bivalve (*Scapharca cornea*) from Setiu Wetlands, Malaysia.	October 2014
Karami et al. (2016) Uni Putra Malaysia; Monash Uni Malaysia	Developing a standardised methodology for best microplastic extraction from fish, using African catfish (*Clarias gariepinus*) as a fish model	N.A.
Mobilik et al. (2016) Uni Malaysia Sarawak; Uni Malaysia Terengganu	Quantifying, identifying and characterising coastal debris into different types, including plastic, at 5 beaches of Malaysia, in relation to establish shipping activities as a source of stranded marine litter in the Malaysian Territorial water	October 2012 to October 2014
Adnan et al. (2015) Uni Malaysia Sabah	Quantifying, identifying and characterising coastal debris into different types, including plastic, at Likas Bay beach, Sabah of Malaysia	November, December 2011
Fauziah et al. (2015) Uni of Malaya	Quantifying, identifying and characterising coastal plastic debris buried in sand at selected beaches in Malaysia	N.A.

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
Mobilik et al. (2015) Uni Malaysia Sarawak; Uni Malaysia Terengganu	Quantifying, identifying and characterising g coastal debris into different types, including plastic, at 2 beaches of Malaysia during different seasons; Examining possible sources of macroplastic	December 2012, May, July 2013
Noik and Tuah (2015) Uni Malaysia Sabah	Quantifying, identifying and characterising microplastics on two sandy beaches in Kuching, Sarawak	November 2013, August 2014
Noik et al. (2015) Uni Malaysia Sabah	Quantifying, identifying and characterising microplastics on two beaches in Kuching, Sarawak, in relation to leaching of heavy metals	N.A.
Barasarathi et al. (2014) Uni of Malaya	Quantifying, identifying and characterising microplastics in mangrove sediment at Semanta Mangrove of Malaysia, with emphasis on remote area isolated from anthropogenic activities.	April 2014
Mobilik et al. (2014) Malaysia Marine Department (Sarawak); Uni Malaysia Sarawak; Uni Malaysia Terengganu	Quantifying, identifying and characterising coastal debris into different types, including plastic, at 4 beaches of Malaysia during the NE monsoon; Examining possible sources of macroplastic	October 2012
Agamuthu et al. (2012) Uni of Malaya	Quantifying, identifying and characterising coastal debris into different types, including plastic, on 4 beaches of Malaysia; Assessing local's awareness and perspective of marine pollution responsibility	N.A.
Aris (2012) Uni of Malaya	Quantifying, identifying and characterising buried microplastics on beaches in Malaysia	January to March 2010
Khairunnisa et al. (2012) Uni of Malaya	Quantifying, identifying and characterising coastal debris into different types, including plastic, on two beaches in Port Dickson	January to March 2010
Razlan (2011) Uni Malaysia Terengganu	Quantifying, identifying and characterising coastline macroplastics on beaches of Bidong Island, Malaysia	March, August 2010
Mobilik (2008) Uni Malaysia Sarawak	Quantifying, identifying and characterising coastline macroplastics on beaches in Sarawak, Malaysia; Assessing local's awareness and perspective of marine pollution responsibility	N.A.

Table 3. List of published work identified and examined in this study for China, where total literature examined is 129. Note abbreviations: First Institute of Oceanography, Ministry of Natural Resources (FIO-MNR); Qingdao Pilot National Laboratory for Marine Sci. and Tech. (QNLM); Chinese Academy of Sciences (CAS); Chinese Academy of Fishery Sciences (CAFS); Chinese Academy of Geological Sciences (CAGS).

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
Fu et al. (2020) Hainan University; Chia Nan University of Pharmacy and Science; Beijing Institute of Technology	Reviewing occurrences and distribution of microplastics in China, as well as research status and policies	2009-2019
Peng et al. (2020) Guangdong Uni of Tech.; Clemson Uni (USA)	Reviewing microplastics in marine environments, in relation to its sources, occurrence and effects	N.A.
Chan et al. (2019) Uni of Hong Kong	Quantifying microplastics in benthic fish from Hong Kong coastal waters and finding factors affecting microplastic consumption	Summer 2015, December 2016, July 2017
Cong et al. (2019) National Marine Environmental Monitoring Center (Dalian); Minjiang Uni; Dalian Ocean Uni; East China Normal Uni	Impacts of polystyrene microspheres on mortality and reproduction of marine medaka (*Oryzias melastigma*)	N.A.
Ding et al. (2019) FIO-MNR; QNLM	Describing methodologies of detecting and characterising microplastics in marine biota	December 2017
Ding et al. (2019) FIO-MNR; QNLM; State Key Laboratory of Marine Resource Utilization in South China Sea; Sansha Trackline Institute of Coral Reef Environment Protection; Menaul School (Qingdao)	Quantifying, identifying and characterizing microplastics in seawater, fish, and corals in the Paracel (Xisha) Islands	June 2017
Feng et al. (2019) Jiangsu Ocean Uni; Xiamen Uni; Lianyungang Environmental Monitoring Center of Jiangsu Province	Quantifying microplastics in tissues of wild fish from a mariculture area in Haizhou Bay	April 2018
Fok et al. (2019) Education Uni of Hong Kong; CAS Guangzhou	Meta-analysis of methodologies used by microplastic studies conducted in China	2014-2019
Gao et al. (2019) FIO-MNR; QNLM; Qingdao Uni of Sci. and Tech.	Investigating sorption mechanism of heavy metals on microplastics, in simulated and field seawater systems	January 2016
Guo & Wang (2019a) Tsinghua Uni	Investigating properties of aged microplastics and the sorption mechanism of antibiotics (Sulfamethoxazole, sulfamethazine, cephalosporin) on it, in fresh and simulated seawater systems	N.A.
Guo & Wang (2019b) Tsinghua Uni	Investigating properties of primary microplastics and the sorption mechanism of Strontium ion (Sr^{2+}) on it	N.A.

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
Guo & Wang (2019c) Tsinghua Uni	Reviewing microplastics (types, properties, distribution, degradation mechanism and resultant changes to properties), pollutants and their interactions, in marine and coastal environments	N.A.
Guo et al. (2019a) Tsinghua Uni; Sichuan Normal Uni	Investigating sorption mechanism of common pollutant (antibiotic Sulfamethazine) on microplastics, in various conditions (pH and salinity)	N.A.
Guo et al. (2019b) Tsinghua Uni	Investigating sorption mechanism of common pollutant (antibiotic Sulfamethoxazole) on microplastics, in various conditions (pH and salinity)	N.A.
Ho & Not (2019) Uni of Hong Kong	Quantifying, identifying and characterising microplastic and macroplastic debris on a beach in Hong Kong and describe their distribution a nearshore environment	July to October 2016
Ho & Leung (2019) Hong Kong Baptist Uni; Shenzhen Virtual Uni Park	Investigating sorption mechanism of 2 organic UV filter on LDPE & PS polymer type microplastics, in single and multi-solute systems	N.A.
Huang et al. (2019) South China Agricultural Uni	Quantifying abundance of microplastics in surface waters in the Spratly (Nansha) Islands	May 2018
Ke et al. (2019) Zhejiang Mariculture Research Institute; Wenzhou Fisheries Technology Extension Service; CSG Power Generation Co. Ltd.; CAS Guangzhou	Investigating toxicity of leachates from single-use PE bags on embryo and larvae development in wild clam (*Meretrix meretrix*)	N.A.
Li et al. (2019) Guangxi Uni; Xiamen Uni	Quantifying, identifying and characterising microplastics in mangrove sediments in the Maowei Sea, and comparing between those near river estuaries and those near entrances of the sea, or those in the rhizosphere/non-rhizosphere sections of the mangrove sediments	?
Li et al. (2019) Tsinghua Uni	Investigating sorption of Triclosan on microplastics, in relation to particle size and solution chemistry	N.A.
Li et al. (2019) Peking Uni Shenzhen Graduate School; Tsinghua Uni	Quantifying, identifying, and characterising microplastics in mangroves in Southern China	August 2017
Liu et al. (2019a) East China Normal Uni	Assessing existing and revealing novel methodology in accurate quantification of microplastics in the pelagic environment	April 2019
Liu et al. (2019b) Shandong Uni	Investigating sorption of 2 phthalate esters on 3 polymer types of microplastics, in relation to microplastics characteristics and solution chemistry	N.A.
Liu et al. (2019c) East China Normal Uni; Georgia Institute of Tech. (USA)	Investigating sorption mechanism of hydrophobic organic compound (17β-Estradiol, E2) on 8 polymer types of microplastics (PA, HD/LLD-PE, PP, LD/MD-PE, PS, PC, PMMA, PVC)	N.A.
Liu et al. (2019d)	Investigating sorption mechanism of hydrophilic organic chemical (ciprofloxacin, CIP) on 2 polymer types of aged and virgin microplastics, in freshwater and seawater systems	N.A.

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
Shanghai Ocean Uni; Shandong Uni; State Key Laboratory of Pollution Control and Resource Reuse, College of Environmental Science and Engineering; Shanghai Institute of Pollution Control and Ecological Security		
Liu et al. (2019e) Qingdao Uni; FIO-MNR; National Food Quality Supervision and Inspection Center (Beijing)	Investigating sorption mechanism of brominated flame retardants (tris-(2,3-dibromopropyl) isocyanurate, TBC, & hexabromocyclododecanes, HBCD) on microplastics, in seawater systems	N.A.
Lo et al. (2019) City Uni of Hong Kong	Investigating spatial distribution, composition and source of hydrophobic organic compounds on sedimentary microplastics in Hong Kong	March to May 2017
Luo et al. (2019) East China Normal Uni; CAS Wuhan Institute of Hydrobiology	Quantifying and comparing microplastic pollution in freshwater bodies, rivers, and coastal waters in and around Shanghai	April to September 2017
Mohsen et al. (2019) CAS Qingdao Institute of Oceanology; QNLM; CAS Yantai Institute of Coastal Zone Research; Uni of CAS; CAS Qingdao Center for Ocean Mega-Science; Al-Azhar Uni (Egypt)	Quantifying microplastics in the intestines and coelomic fluid of farmed sea cucumbers (*Apostichopus japonicus*) in the Bohai Sea and Yellow Sea and adjacent sediments	November 2017, March to May 2018
Mohsen et al. (2019) CAS Qingdao Institute of Oceanology; QNLM; CAS Yantai Institute of Coastal Zone Research; Uni of CAS; CAS Qingdao; Al-Azhar Uni (Egypt)	Assessing the concentrations of heavy metals in the sediments and microplastics in the field; investigating correlations between concentrations of heavy metals in body wall of sea cucumbers, sediment and microplastics	2017 to 2018
Nie et al. (2019) South China Agricultural Uni	Quantifying microplastics from surface waters and fish in the Spratly (Nansha) Islands	May 2018
Pan et al. (2019) Third Institute of Oceanography, State Oceanic Administration (Xiamen); Heriot-Watt Uni (UK)	Quantifying, identifying and characterising microplastics in surface seawaters in the northwestern Pacific, from around Taiwan, to the north of the Philippine Sea, to off the east coast of Japan	August to September 2017
Ruan et al. (2019) City Uni of Hong Kong; CAS Wuhan Institute of Hydrobiology	Quantifying microplastics and HBCD levels in 2 wastewater treatment plants of Hong Kong	July 2017
Su et al. (2019) East China Normal Uni; Uni of Melbourne (Australia); Royal Melbourne Institute of Technology Uni (Australia); CAS	Quantifying, identifying and characterising microplastics in various organs of commercial fish caught near the Yangtze Estuary, East China	October to November 2017
Sun et al. (2019) CAS Qingdao Institute of Oceanology; Uni of CAS; CFAS Yellow Sea Fisheries Research Institute; CAS Qingdao Center for Ocean Mega-Science;	Quantifying, identifying and characterising microplastics in the digestive tracts of benthic fish in the Yellow Sea	June 2016

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
Sun et al. (2019) Tianjin Uni; Ningbo Uni; Tianjin Agricultural Uni	Investigating toxicity of HDPE microplastics, with and without associated heavy metals (Cu, Cd, Pb), on growth in yellow seahorse (*Hippocampus kudas*)	N.A.
Teng et al. (2019) CAS Yantai Institute of Coastal Zone Research; Uni of CAS; Shandong Marine Resource and Environment Research Institute	Quantifying, identifying and characterising microplastics in cultured oysters from along the coasts of China	March to May 2016
Wan et al. (2019) Xi'an Uni of Tech.; North China Electric Power Uni; Shaoxing Uni; Georgia Institute of Tech. (USA)	Investigating sorption mechanism of antibiotic (tetracycline) on microplastic polystyrene polymer type	N.A.
Wang et al. (2019) Nanjing Uni; Nanjing Uni of Information Sci. and Tech	Estimating the total emissions of primary microplastics from China	2015
Wang et al. (2019) Ocean Uni of China	Quantifying, identifying and characterising microplastics in sediments and benthic organisms from the South Yellow Sea	August to September 2017
Wang et al. (2019) Nanjing Uni; QNLM; Huaiyin Normal Uni; Marine Fisheries Research Institute of Jiangsu Province	Establishing a classification system for the quantitative analysis of microplastic sources, with a case study in the South China Sea	August 2017
Wang et al. (2019) Beijing Normal Uni; Dongguang Uni of Tech.; CAGS Institute of Mineral Resources; Michigan State Uni (USA)	Investigating size-effect on sorption of harmful organic compounds (phenanthrene, nitrobenzene) on PS polymer type microplastics	N.A.
Wang et al. (2019) Beijing Normal Uni; Dongguan Uni of Tech.; CAGS Institute of Mineral Resources	Investigating sorption mechanism of harmful organic compounds (phenanthrene, nitrobenzene, naphthalene) on 5 polymer types of microplastics and mesoplastics	N.A.
Wang et al. (2019) Ocean Uni of China; CAS Yellow Sea Fisheries Research Institute	Quantifying, identifying, characterising and comparing microplastics in sea water, sediments, cultured oysters (*Crassostrea gigas*) in Sanggou Bay, China, before and after a typhoon event	July, August 2017
Wu et al. (2019) Southern Uni of Sci. and Tech.; Hong Kong Baptist Uni; Zhejiang Uni of Tech.	Investigating sorption mechanism of 5 bisphenol analogues on PVC polymer type microplastics	N.A.
Yan et al. (2019) South China Agricultural Uni	Quantifying, identifying and characterising microplastics along the downstream section of the Pearl River, comparing between the urban section in Guangzhou with the estuary section	December 2017
Yao et al. (2019) Wenzhou Medical Uni; Uni of California, Davis (USA)	Quantifying plastic debris in estuarine sediments and understanding vegetation as a sink for trapping plastic debris	December 2016

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
Zhang (2017) Key Laboratory of Coastal Zone Environmental Processes and Ecological Remediation; CAS Yantai Institute of Coastal Zone Research	Reviewing the physical processes involved in determining the fate and transport of microplastics in coastal areas	-
Zhang et al. (2019) Xihua Uni; CAS Yantai Institute of Coastal Zone Research; Yantai Oil Spill Response Technical Center of Yantai Maritime Safety Administration; Shandong Marine Resource and Environment Research Institute	Quantifying, identifying and characterising microplastics in sediments in Sishili Bay, Yantai, Shandong	June 2017
Zhang et al. (2019) East China Normal Uni	Quantifying, identifying and characterising microplastics in wild fish and crustacean species obtained off the East China Sea, in relation to determining food-web transfer b	September 2017
Zhang et al. (2019) Zhejiang Uni; Guilin Uni of Tech.; Second Institute of Oceanography, State Oceanic Administration	Quantifying, identifying and characterising microplastics in sediments of the southern Yellow Sea and East China Sea	March 2017
Zhang et al. (2019) Shanghai Polytechnic Uni; Chinese Research Academy of Environmental Sciences	Quantifying, identifying and characterising in the surface waters of small estuaries in Shanghai	September, October 2018
Zhang et al. (2019) FIO-MNR; Qingdao Uni	Investigating sorption mechanism of 2 Polyhalogenated carbazoles (3,6-Dibromocarbazole(3,6-BCZ) and 1,3,6,8-Tetrabromocarbazole (1,3,6,8-BCZ)) on PP polymer type microplastics, in simulated seawater systems	N.A.
Zheng et al. (2019) FIO-MNR; QNLM	Quantifying, identifying and characterising microplastics in Jiaozhou Bay, China	November 2017
Zhu et al. (2019) Beibu Gulf Uni; Guilin Uni of Tech.; Guangxi Uni	Quantifying microplastics ingested in 3 stranded individual Indo-Pacific humpback dolphins (*Sousa chinensis*)	2015
Zhu et al. (2019) Shandong Uni	Investigate the effect of microplastic exposure on mortality, growth, and oxidative stress in a marine microalga (*Skeletonema costatum*), and its interaction effects with the antibacterial agent triclosan	-
Zhu et al. (2019) CAFS; QNLM; Shanghai Ocean Uni	Quantifying, identifying and characterising microplastics in deep sea fishes from the northern continental slope of the South China Sea	March 2017
Zhu et al. (2019) Beibu Gulf Uni; Marine Environmental Monitoring Center of Guangxi; Shanghai Sci, and Tech. Museum; East China Normal Uni	Quantifying, identifying and characterising microplastics in surface water of the Maowei Sea, its upstream rivers and the cultured fish and oysters of Maowei Sea	October 2017
Zhu et al. (2019)	Quantifying, identifying and characterising plastic debris in marine birds from Yongxing Island, South China Sea	2017

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
CAS Guangzhou Institute of Geochemistry, CAS Guangzhou South China Sea Institute of Oceanology; South China Agricultural Uni; Uni of CAS		
Zuo et al. (2019) CAS Guangzhou South China Sea Institute of Oceanology; Ministry of Environmental Protection South China Institute of Environmental Sciences; Uni of CAS	Investigating sorption mechanism of common PAH (phenanthrene) on biodegradable plastic bag-derived microplastics (poly(butylene adipate co-terephthalate), PBAT)	N.A.
Brook et al. (2018) Uni of Georgia (USA)	Quantifying the effects of the Chinese import ban on plastic waste in terms of the likely volume of waste displaced, and also describe current global patterns of the plastic scrap and waste trade	1988 to 2016
Cai et al. (2018) Xiamen Uni	Quantifying microplastics from surface waters in the South China Sea	April 2017
Cheang et al. (2018) Education Uni of Hong Kong	Quantifying, identifying and characterising microplastics in seabed sediments adjacent to coral communities in Hong Kong	March to April 2017
Chen et al. (2018) Ningbo Uni; CAS Ningbo Institute of Materials Technology and Engineering	Quantifying microplastics in the surface waters, intertidal sediments, and benthic sediments of Xiangshan Bay, Zhejiang, with a focus on potential mariculture origins	October 2017
Cheung et al. (2018) Education Uni of Hong Kong	Quantifying, identifying and characterising microplastics in wild and farmed flathead grey mullets obtained from local markets, originating from off the coast of Hong Kong	February to March 2017
Cheung et al. (2018) Uni of Hong Kong; Education Uni of Hong Kong	Quantifying, identifying and characterising plastics in surface waters of Hong Kong under the influence of the Pearl River Estuary, in relation to its seasonal distribution	February, July 2015
Guo et al. (2018) Northwest Agricultural and Forestry Uni; Anhui Uni of Sci. and Tech.; Ministry of Agriculture (Shaanxi)	Investigating desorption mechanism of common pollutant (Tylosin) on microplastics	N.A.
Leung et al. (2018) Hong Kong Uni of Sci. and Tech.	Investigating impact of PS polymer type microplastics on the regeneration rate of polychaete, in simulated seawater systems	N.A.
Li (2015) Education Uni of Hong Kong	Assessing the known distribution, sources, fates, and effects of microplastics in marine environments	-
Li et al. (2018) East China Normal Uni; Shanghai Natural History Museum; Columbia Uni (USA); East China Uni of Sci. and Tech.	Developing density gradient solutions to measure the densities of unknown microplastics	-
Li et al. (2018) CAS Yantai Institute of Coastal Zone Research; Uni of CAS; Yantai Uni	Investigating properties of 5 microplastics and the sorption mechanism of 5 antibiotics (sulfadiazine, amoxicillin, tetracycline, ciprofloxacin, trimethoprim) on it, in freshwater and seawater systems	N.A.

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
Li et al. (2018) Yangzhou Uni; CAS Yantai Institute of Coastal Zone Research; Yantai Uni	Quantifying the abundance of microplastics in coastal sediments of Qinzhou Bay, Guangxi	December 2016
Li et al. (2018) CAS Guangdong South China Sea Institute of Oceanology; CFAS Pearl River Fisheries Research Institute; Uni of CAS; South China Sea Branch of the State Oceanic Administration; East China Normal Uni; Duke Uni (USA)	Quantifying, identifying and characterising microplastics in wild oysters (*Saccostrea cucullata*) along the Pearl River Estuary in South China	July 2016
Li et al. (2018) CAS Yantai Institute of Coastal Zone Research; James Cook Uni (Australia); Catholic Uni of Louvain (Belgium)	Hydrodynamic modelling of microplastic distribution in the Bohai Sea, based on field samples	August to September 2016
Lo et al. (2018) City Uni of Hong Kong	Quantifying and comparing microplastic pollution on mudflats and sandy beaches in Hong Kong	June to September 2016
Lo et al. (2018) Hong Kong Uni of Sci. and Tech.	Investigating the effects of microplastic exposure in the larval and juvenile stages of slipper limpet (*Crepidula onyx*)	-
Luan et al. (2019) Ocean Uni of China	Investigating toxicity of leachates from PS microplastics on larvae developments in cultured clam (*Meretrix meretrix*)	N.A.
Mai et al. (2018) Jinan Uni	Quantifying, identifying and characterising microplastics in surface waters of Bohai and Huanghai Seas, China, and its affiliation with PAH	May, June 2017
Qu et al. (2018) East China Normal Uni; CAS Guangzhou South China Sea Institute of Oceanology; Qinzhou Uni	Quantifying, identifying, characterising and comparing microplastics in waters and in wild mussels along coastal waters of China and in laboratory-exposed mussels	March 2016 to June 2017
Razanajatovo et al. (2018) Jiangnan Uni; Jiangsu Collaborative Innovation Center of Technology and Material of Water Treatment, Suzhou	Investigating sorption mechanism of 3 pharmaceuticals (sulfamethoxazole (SMX), propranolol (PRP) and sertraline (SER)) on PE polymer type microplastics	N.A.
So et al. (2018) Uni of Hong Kong	Quantifying, identifying and characterising microplastics (microbeads) in southern coastal waters of Hong Kong	February 2016 to April 2017
Sun et al. (2018) CAS Shenyang Qingdao Institute of Oceanology; QNLM; Uni of CAS; CAS Qingdao Institute of Oceanology	Quantifying microplastics in seawater and ingested in zooplankton from the Yellow Sea	August to September 2015
Tang et al. (2018) Xiamen Uni; CAS Yantai Institute of Coastal Zone Research; CAS Guangzhou South China Sea Institute of Oceanology; Zhejiang Agricultural and Forestry Uni	Quantifying, identifying and characterising microplastics in surface waters and sediments of Xiamen coastal areas, and its affiliation with PAH	March, April 2017

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
Wang et al. (2018) Nanjing Uni; Marine Fisheries Research Institute of Jiangsu Province	Quantifying, identifying and characterising microplastics in surface waters and sediments in an offshore wind farm in the Yellow Sea, north of the Yangtze River delta	September 2017
Wang et al. (2018) Jinan Uni	Discuss the chemicals detected in microplastics and known interaction mechanisms, as well as the potential uptake of chemicals from microplastics into marine organisms	-
Wang et al. (2018) CAS Wuhan Botanical Garden; Sino-Africa Joint Research Center; Uni of CAS	Investigating sorption mechanism of a common PAH (pyrene) on PE, PES, PVC polymer types microplastics	N.A.
Wang et al. (2018) Ningbo Uni	Investigating sorption mechanism of common PAH (phenanthrene) on microplastics obtained from mariculture farm in Xiangshan Bay, southeastern China	N.A.
Xiong et al. (2018) CAS Wuhan; City Uni of Hong Kong, Uni of CAS	Quantifying, identifying and characterising microplastics in intestinal tracts of East Asian finless porpoises (*Neophocaena asiaeorientalis sunameri*) from Yellow Sea and Bohai Sea of China	Autumn 2015
Xu et al. (2018) East China Normal Uni	Establishing a risk assessment model for microplastics pollution in surface waters for revealing areas of high risk and hotspots, with a case study in the Changjiang Estuary and the adjacent East China Sea	August 2017
Xu et al. (2018) Zhejiang Uni	Investigating sorption of antibiotic (tetracycline) on microplastics in the presence of dissolved organic matter,	N.A.
Xu et al. (2018) Zhejiang Uni	Investigating sorption mechanism of antibiotic (sulfamethoxazole) on PE polymer type microplastics	N.A.
Zeng et al. (2018) Jinan Uni	Discussing the abundances and characteristics of microplastics in wastewater treatment plants, discharged into both rivers and marine environments	-
Zhang et al. (2018) Zhejiang Agriculture and Forestry Uni; CAS Nanjing Institute of Soil Science; CAS Yantai Institute of Coastal Zone Research	Investigating sorption mechanism of antibiotic (oxytetracycline) on PS polymer type, beached and virgin microplastics	N.A.
Zhang et al. (2018) Zhejiang Agriculture and Forestry Uni; CAS Yantai Institute of Coastal Zone Research; Helmholz-Zentrum Geesthacht, Institute of Coastal Research (Germany); Uni of CAS; MINJIE Analytical Laboratory (Germany)	Measuring levels of plastic additives (organophosphorus esters and phthalates) on microplastics on beaches in the Bohai and Yellow Seas	June to July 2015
Zhang et al. (2018) Qingdao Uni; FIO-MNR	Investigating sorption mechanism of 3 synthetic musks on PP polymer type microplastics, in simulated seawater systems	N.A.
Zhao et al. (2018)	Summarising and comparing existing methods for quantifying microplastics in marine environments	-

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
East China Normal Uni		
Zhao et al. (2018) CAS Yantai Institute of Coastal Zone Research; Yantai Oil Spill Response Technical Center of Yantai Maritime Safety Administration	Quantifying, identifying and characterising microplastics in benthic sea sediments in the Bohai Sea and Yellow Sea	June to July 2016
Zhou et al. (2018) CAS Yantai Institute of Coastal Zone Research; Zhejiang Agriculture and Forestry Uni	Quantifying, identifying and characterising microplastics in beach soils along Shandong Province, facing the Bohai and Yellow Seas	April, May 2015
Zhu et al. (2018) CAFS Yellow Sea Fisheries Research Institute; QNLM	Quantifying, identifying and characterising microplastics in the waters and sediments of the North Yellow Sea	October 2016
Cheung & Fok (2017) Uni of Hong Kong; Education Uni of Hong Kong	Characterising and quantifying the amount of microbeads in facial scrubs, and estimating the emissions of microbeads from facial scrubs in China based on consumer usage data	-
Fok et al. (2017) Education Uni of Hong Kong; South China Agricultural Uni	Quantifying sizes of small plastic pieces on beaches in Guangdong	July 2015
Hu et al. (2017) Air Force Logistics College, Jiangsu; Huangshan Uni	Investigating sorption mechanism of lubrication oil on PS and PE polymer types microplastics	N.A.
Jabeen et al. (2017) East China Normal Uni; National Environmental Monitoring Center (Dalian)	Quantifying, identifying and characterising microplastic and mesoplastic in marine and freshwater fishes obtained from fishery markets	May to December 2015
Peng et al. (2016) Guangdong Uni of Tech.	An overview of the occurrence, fate, and risks of microplastics to the environment	-
Peng et al. (2017) East China Normal Uni; Shanghai Jiao Tong Uni	Quantifying, identifying and characterising microplastics in sediments along the Changjiang Estuarine system	September 2015
Sun et al. (2017) CAS Institute of Oceanology; Uni of CAS; QNLM	Quantifying, identifying and characterising microplastics ingested by natural zooplankton groups in the northern South China Sea	June 2015
Tsang et al. (2017) The Chinese Uni of Hong Kong; The Open Uni of Hong Kong	Quantifying, identifying and characterising microplastics in surface waters and sediments in various coastal regions of Hong Kong	June, July, November, March 2015 to 2016
Xu et al. (2017) City Uni of Hong Kong	Investigating the effects of microplastic exposure on clearance rate (prey ingestion), absorption efficiency, and respiration rate in the marine clam (*Atactodea striata*), and examining the reduction of microplastics accumulation following depuration	-
Zhang et al. (2017) National Marine Environmental Monitoring Center, Dalian; Ocean Uni of China; FIO-MNR	Quantifying, identifying and characterising microplastics in the surface waters of the Bohai Sea, China	August 2016

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
Zhang et al. (2017) Ocean Uni of China	Investigate the effect of microplastic exposure on growth and photosynthesis rate of marine microalgae (*Skeletonema costatum*), controlling for the effect of shading	-
Zhu et al. (2017) Nankai Uni	Quantifying HBCD levels in soil, plants, and marine organisms found near an EPS manufacturing plant	September 2014, March 2015
Cheung & Fok (2016) Education Uni of Hong Kong	Test the hypothesis that microbeads found on the sea surface Hong Kong could have originated from personal care products	February, July 2015
Cheung et al. (2016) Hong Kong Institute of Education	Quantifying the abundance of microplastics on beaches in Hong Kong	July to September 2014, January to March 2015
Li et al. (2016) East China Normal Uni; National Marine Environmental Monitoring Center	Quantifying, identifying and characterising microplastics in wild and farmed mussels (*Mytilus edulis*) along coast of China	July to October 2015
Li et al. (2016) Hong Kong Institute of Education	Reviewing plastic waste in marine environments, in relation to its sources, occurrence and effects	N.A.
Li et al. (2016c) CAS (Guangzhou); Duke Uni	Investigating toxicity of leachates from 7 types of plastics on *Amphibalanus amphitrite* barnacle larvae survival and settlement	N.A.
Qiu. Et al. (2016) Guangdong Uni of Tech.; Dongguang Environmental Monitoring Central Station	Reviewing techniques used in extracting, quantifying, and identifying microplastics from sediments, seawater, and organisms, and discussing the relative advantages and challenges.	-
Wang et al. (2016) Guangdong Uni of Technology; Dongguang Environmental Monitoring Central Station	Reviewing physical, chemical, and biological behaviors of microplastics in the marine environment, and identify key areas for future research	-
Yu et al. (2016) Ningbo Uni; Guangdong Uni of Tech.; Coastal Carolina Uni	Quantifying, identifying and characterising microplastics in the beach sand of the north Bohai Sea	July 2015
Zhan et al. (2016) South China Agricultural Uni; Guangdong Uni of Tech.	Investigating sorption mechanism of a common PCB (3,3′,4,4′-tetrachlorobiphenyl) on PP polymer types microplastics, in simulated seawater systems	N.A.
Zhou et al. (2016) Qufu Normal Uni; National Marine Environmental Forecasting Center, Beijing	Quantifying, identifying and characterising macrodebris, including plastics, on beaches, coastal surface waters, and seafloor on the coast of China	2007 to 2014
Fok & Cheung (2015) Hong Kong Institute of Education	Quantifying the abundance of microplastics on beaches in Hong Kong	July to September 2014
Li et al. (2015) East China Normal Uni; Donghua Uni	Quantifying, identifying and characterising microplastics in 9 species of commercial bivalves from local fishery market in Shanghai, China	N.A.

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
Qiu et al. (2015) Guangdong Uni of Tech.; Clemson Uni	Quantifying, identifying and characterising microplastics in sediments on 5 beaches in China	May to June 2014
Wang et al. (2015) Uni of Hong Kong	Investigating sorption mechanism of 2 perfluorochemicals (perfluorooctanesulfonate (PFOS) and perfluorooctanesulfonamide (FOSA)) on microplastics of polymer types PE, PS, PVC	N.A.
Yang et al. (2015) East China Normal Uni; Donghua Uni	Quantifying, identifying and characterising microplastics in commercial table salt from China	October, November 2014
Zhang et al. (2015) Ocean Uni of China; National Marine Environmental Monitoring Center (Dalian); China Protection Association of Environment and Industry; FIO-MNR	Quantifying POPs on plastic resin pellets on sandy beaches in the Bohai Sea	July 2012
Zhao et al. (2015) East China Normal Uni	Quantifying, identifying and characterising small plastics on 6 tourism beaches around the South China Sea	April to May 2014
Zhao et al. (2015) East China Normal Uni	Quantifying, identifying and characterising microplastics in 3 urban estuaries leading to the East China Sea	July 2013

Table 4. List of published work identified and examined in this study for RO Korea, where total literature examined is 67.
Note abbreviations: Korea Institute of Ocean Science and Technology (KIOST); Korea Uni of Science and Technology, Korea (UST); Our Sea of East Asia Network (OSEAN)

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
Chae et al. (2019) **Konkuk Uni**	Examining the effect of relative size of polyethylene microspheres to a marine algae *Dunaliella salina* on its growth, photosynthetic activity, and cell morphology	N.A.
Chae et al. (2019) **Konkuk Uni; KIOST Oil and POPs Research Group; UST**	Examining the effect of EPS leachate on photosynthetic activity of four marine algae species	N.A.
Cho et al. (2019) **KIOST Oil and POPs Research Group; UST**	Quantifying microplastics in bivalves destined for human consumption bought in South Korean markets	February, March 2017
Kim and An (2019) **Konkuk Uni**	Designing a vacuum-based method of separating low-density PE films by size	N.A.
Lee et al. (2019) **Korea Uni ; Incheon National Uni**	Measuring rate of transfer of HOCs from a polyethylene film onto simulated fish intestinal fluid	N.A.
Lee et al. (2019) **OSEAN Korea Marine Litter Institute**	Conducted rapid assessment of marine debris on the coasts of RO Korea using a visual scoring indicator	April, June, August, October 2017
Yoon et al. (2019) **Mokpo National Uni ; Daegu Uni**	Design and identify an effective suction mode for separating marine plastic debris from floatsam of other materials in a mobile floating debris collection system, for recycling into solid fuel	N.A.
Choi and Lee (2018) **Korea Uni; Korea Maritime and Ocean Uni**	Estimate willingness to pay for removing microplastics from the ocean based on public perceptions in Seoul	N.A.
Hong et al. (2018) **KIOST ; UST**	Provide an overview of the chemicals found to be associated with marine debris and microplastics, as a chapter in a book.	N.A.
Jang et al. (2018) **KIOST Oil and POPs Research Group; UST**	Observing ingestion and fragmentation of EPS debris (styrofoam fishing buoy-derived) in marine polychaetes, in the field and in laboratory conditions	August to December 2014
Jeong et al. (2018) **Sungkyunkwan Uni; National Institute of Fisheries Science; Xiamen Uni (China)**	Investigate effects of micro- and nano-plastic ingestion on oxidative stress and multixenobiotic resistance in the monogont rotifer *Brachionus koreanus*	N.A.

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
Khim et al. (2018) Seoul National Uni; Chungnam National Uni; Anyang Uni; Northwest Pacific Action Plan Marine Environmental Emergency Preparedness and Response; Korea Research Institute of Ships and Ocean Engineering	Examined several measures of ecosystem health in coastal environments, including marine litter	1970 to 2017
Lee et al. (2018) Korea Uni ; Ajou Uni	Model desorption of HOCs from PE and PP films and measure HOC diffusion coefficients in plastic	N.A.
Lee et al. (2018) Korea Uni ; Ajou Uni	Measure and model desorption rates of HOCs from PE and PP microplastic fragments of irregular sizes	N.A.
Shim et al. (2018) KIOST	Provide an overview of the abundance, spatial, and temporal distributions of microplastics in the marine environment (as an introductory chapter in a book)	N.A.
Song et al. (2018) KIOST Oil and POPs Research Group; UST; Kyushu Uni	Characterising the vertical distribution of microplastics in near-coastal waters of RO Korea	July to August 2016 and 2017
Eo et al. (2018) KIOST Oil and POPs Research Group; UST; OSEAN Korea Marine Litter Institute	Quantifying abundance of microplastics on sandy beaches in RO Korea	March, May 2016
Hong et al. (2017) KIOST Oil and POPs Research Group; Korea Uni of Sci. and Tech.	Review methods used to analyse chemicals associated with microplastic debris	Up to July 2016
Hong et al. (2017) OSEAN Korea Marine Litter Institute; Korea Naval Academy	Quantifying entanglement records of ALDFG on ships of RO Korea's navy	2010 to 2015
Jang et al. (2017) KIOST Oil and POPs Research Group; UST	Measuring HBCD levels in expanded polystyrene debris on Asia-Pacific coasts	2013 to 2015
Jeong et al. (2017) Sungkyunkwan Uni ; Hanyang Uni ; Université de Lille (France) ; French National Centre for Scientific Research (France) ; Université Littoral Cote d'Opale (France)	Measure ingestion and egestion rates of PS microbeads in a copepod *Paracylcopina nana,* examine impacts on development time, fecundity, and reactive oxygen species levels, and propose a molecular pathway for toxic impacts of PS involving an oxidative stress response pathway	N.A.
Kwon et al. (2017)	Review and commentary on microplastics as vectors for hydrophobic organic additives	N.A.

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
Korea Uni; KIOST Oil and POPs Research Group		
Lee and Kim (2017) Mokpo National Maritime Uni	Estimating the amount of microplastics discharged into the environment per year in RO Korea	N.A.
Lee et al. (2017) OSEAN Korea Marine Litter Institute; Pukyong National Uni; KIOST Oil and POPs Research Group; UST	Quantifying meosplastic on beaches of RO Korea	N.A.
Raini et al. (2017) KIOST Oil and POPs Research Group; UST	Quantifying absorption and desorption of HBCDs by EPS in the field and in laboratory experiments	N.A.
Rani et al. (2017) KIOST Oil and POPs Research Group; UST	Quantifying levels of ultraviolet stabilizers and antioxidants in beached plastic marine debris, compared to new products	March 2014
Song et al. (2017) KIOST Oil and POPs Research Group; UST	Measuring the rate of fragmentation of LDPE, PP, and EPS by UV and physical abrasion, and characterising the size distribution of the resulting particles over time, through a laboratory simulation experiment	N.A.
Hong et al. (2016) Seoul National Uni; Institute of Environmental Protection and Safety, NeoEnBiz Co. (RO Korea); Uni of Saskatchewan (Canada); Michigan State Uni (USA); Uni of Hong Kong (China); Nanjing Uni (China)	Quantifying styrene oligomers in coastal sediments of Lake Shihwa, RO Korea, and assess aryl hydrocarbon receptor binding affinity of styrene oligomers	April, 2015
Jang et al. (2016) KIOST Oil and POPs Research Group; UST	Measuring HBCD levels in mussels adhering to polystyrene buoys	September, October 2013
Jeong et al. (2016) Sungkyunkwan Uni; Hanyang Uni; KIOST Marine Chemistry and Geochemistry Research Center; National Fisheries Research and Development Institute; Chinese Academy of Sciences Institute of Hydrobiology (China); Université de Lille (France); French National Centre for Scientific Research (France); Université Littoral Cote d'Opale (France);	Measure ingestion and egestion rates of PS microbeads in a rotifer *Brachionus koreanus*, examine impacts on development time, fecundity, survival, and levels of molecules involved in an oxidative stress response pathway, and propose a molecular pathway for toxic impacts of PS	N.A.
Shim et al. (2016) KIOST Oil and POPs Research Group; UST	Developing a method for staining and identifying microplastics using Nile Red and fluorescence microscopy	N.A.

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
Al-Odaini et al. (2015) **KIOST Oil and POPs Research Group; UST**	Identifying the spatial distribution and source of HBCDs in Jinhae and Masan Bay	March, 2010 and May 2012
Chae et al. (2015) **Incheon National Uni; KIOST Oil and POPs Research Group; UST**	Quantifying microplastics in near-shore surface seawaters of Incheon/Kyeonggi region	August 2013
Hong et al. (2015) **OSEAN Korea Marine Litter Institute; Pukyong National Uni**	Evaluate the cost-effectiveness of three derelict fishing gear programmes (cleanup with ships, buy back, floating reception barge) in RO Korea using an energy accounting method	N.A.
Jang et al. (2015) **Pukyong National Uni; APEC Climate Center; OCEANTECH CO.**	Present an unmanned and automated technique to remotely monitor beach debris through camera and drone surveillance and image identification software	January to December 2013
Kang et al. (2015) **KIOST South Sea Research Institute; KIOST Pacific Ocean Research Center; KIOST Oil and POPs Research Group; UST**	Sampling and quantifying floating microplastics in Geoje Bay, near mouth of Nakdong River	May and July 2012
Kang et al. (2015) **KOIST South Sea Research Institute; KIOST Oil and POPs Research Group; UST**	Quantify and compare the amount of microplastics with the amount of zooplankton in Geoje and Jinhae Bays, RO Korea, to assess potential microplastic ingestion risk to zooplanktivores	May, June, July 2013
Kim et al. (2015) **Korea Uni**	Estimating the volume of HDPE and LDPE released by RO Korea into the marine environment	1995 to 2012
Kim et al., (2015) **Incheon National Uni ; Inha Uni**	Examining the effect of location on the spatial distribution of microplastics on sandy beaches in RO Korea	July 2013
Kwon et al. (2015) **Chosun College of Science and Tech.; Nihon Uni (Japan); Chonnam National Uni; National Institute of Advanced Industrial Sci. and Tech.; Hanyang Uni**	Quantifying the concentrations and determining the spatial distributions of artificial styrene oligomers derived from PS in a long-term global monitoring study, and observing leaching of styrene oligomers from weathered PS virgin pellets	2003 to 2013
Lee et al. (2015) **OSEAN Korea Marine Litter Institute; KIOST Oil and POPs Research Group; UST; Pukyong National Uni**	Quantifying and characterising the spatial distribution of marine debris on RO Korean beaches, across the country and on individual beaches	April and May, 2013 and 2014

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
Lee et al. (2015) **OSEAN Korea Marine Litter Institute; Pukyong National Uni; KIOST Oil and POPs Research Group; UST**	Developing policy ideas for managing styrofoam buoy debris in participatory workshops	2011, 2012
Rani et al. (2015) **KIOST Oil and POPs Research Group; UST**	Quantifying levels of additives in plastic marine debris, compared to new products	March 2014
Song et al. (2015) **KIOST Oil and POPs Research Group; UST; OSEAN Korea Marine Litter Institute**	Comparing the accuracy of microplastic identification solely with microscopes vs with spectroscopy	May, July 2012
Song et al. (2015) **KIOST Oil and POPs Research Group; UST**	Quantifying microplastic debris on the sea surface microlayer of Jinhae Bay	June 2013
Hong et al. (2014) **OSEAN Korea Marine Litter Institute; Kyungnam Uni**	Quantifying marine debris on 13 beaches in Tongyeong City	Autumn 2013
Hong et al. (2014) **OSEAN Korea Marine Litter Institute; Pukyong National Uni; KIOST Oceanographic Data and Information Center; Gyeongsang National Uni**	Quantifying marine debris on beaches throughout RO Korea	March 2008 to November 2009
Jang et al. (2014) **Pukyong National Uni; OCEANTECH CO.; Tongmyong Uni**	Modelling behaviour of floating debris in the Nakdong River basin through tracking buoys, estimating output of marine debris from the river to the ocean, and identifying hotspots of accumulation within the river	July to August 2012 and July to August 2013
Jang et al. (2014) **OSEAN Korea Marine Litter Institute; KIOST Oil and POPs Research Group; UST**	Estimate lost tourism revenue due to a marine debris pollution event in Geoje Island	July 2011
Jang et al. (2014) **OSEAN Korea Marine Litter Institute; Korea Maritime Institute; KIOST Oceanographic Data and Information Center; Korea Marine Environment Management Corporation**	Estimate the amount of marine debris in RO Korean waters, extrapolating from field surveys (both local and from other countries)	2012
Jang et al. (2014) **OSEAN Korea Marine Litter Institute; KIOST Oil and POPs Research Group; UST**	Identifying the main source (land-based or sea-based) of marine plastic debris on beaches in RO Korea, through assigning probabilistic scores to individual debris items	Spring 2013

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
Lee et al. (2014) **Korea Uni; KIOST Oil and POPs Research Group**	Evaluating sorption capacity of 3 types of microplastics for hydrophobic organic chemicals in seawater	N.A.
Rani et al. (2014) **KIOST Oil and POPs Research Group; UST**	Quantifying levels of HBCDs in a variety of polystyrene products	N.A.
Saido et al. (2014) **National Institute of Advanced Industrial Sci. and Tech.; Nihon Uni (Japan); Shizuoka Uni (Japan); Korea Institute of Toxicology; Chonnam National Uni; Toyama Prefecture Uni (Japan); Uni of Tokyo (Japan)**	Quantifying and characterising the distribution of styrene oligomers on sandy beaches of Japan and RO Korea	2010 to 2012
Song et al. (2014) **KIOST ; UST**	Quantifying microplastics on the sea surface microlayer around Geoje Island and Nakdong river mouth	May, July 2012
Heo et al. (2013) **KIOST Oil and POPs Research Group; UST; OSEAN Korea Marine Litter Institute**	Quantifying mesoplastic on Heungnam beach, Geoje Island, and comparing differences in result when measuring along the cross-sectional line or the high strandline	February 2011
Hong et al. (2013) **OSEAN; Chungnam Wild Animal Rescue Center; Migratory Birds Center of National Park Research Institute; PGA Wetland Ecology Institute; KIOST Oil and POPs Research Group; Pukyong National Uni**	Recording instances of plastic marine debris entanglement and ingestion on marine animals in RO Korea	2003 to 2012
Hong et al. (2013) **KIOST; Ramkhamhaeng Uni (Thailand); Uni of the Philippines (Philippines); East China Normal Uni (China)**	Quantifying PCB levels in bottom sediments of coral reefs in Thailand and observing the leaching of PCBs from various plastics in seawater in laboratory conditions	June 2010
Jang & Song (2013) **Information unavailable**	Assessing the rationality/potential efficiency of RO Korea's current marine debris policies, which focus largely on cleanup	2009
Lee et al. (2013) **OSEAN; KIOST Oil and POPs Research Group; UST; Pukyong National Uni**	Quantifying micro-, meso-, and macroplastic debris found on beaches in Geoje Bay, and correlating the abundance of debris in the three size classes	May and September 2012
Lee et al. (2013)	Investigating effects of 3 sizes of polystyrene microbeads on the survival, development, and fecundity of a copepod (*Tigriiopus japaonicus*) across two generations	N.A.

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
KISOT South Sea Environment Research Department; KIOST Oil and POPs Research Group		
Jung et al. (2010) Uni of Ulsan; KIOST Maritime and Ocean Engineering Research Institute; Korea Institute of Machinery and Materials	Presenting technological interventions developed in RO Korea to prevent, capture, and recycle marine debris, through floating capture bongs and trawling	1999 to 2010
Cho (2009) Korea Maritime Institute	Review and discuss the potential effectiveness of the RO Korean government's incentive programme for fishermen to collect marine debris	2003 to 2006
Lee et al. (2006) Chonnam National Uni	Sampling marine litter on the sea bed of the East China Sea and South Sea of RO Korea	1996 to 1997, 2002 to 2005
Cho (2005) Korea Maritime Institute	Review the impact of marine debris in RO Korea and the practices, policies, and challenges for managing marine debris, with a focus on ALDFG	up to around 2003
Jo et al. (2005) Gangwon Provincial Uni; Yosu National Uni	Sampling floating marine debris in the near-shore waters of Gangwon	May, August 2004
Kim et al. (2005) Pukyong National Uni; Korea Institute of Marine and Fisheries Tech.	Sampling floating marine debris in the East Sea of RO Korea (Sea of Japan)	July 2003

Table 5. List of published work identified and examined in this study for Japan, where total literature examined is 30.

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
Amamiya et al. (2019) Nihon Uni; Chonnam National Uni (Korea); Seoul National Uni (Korea); Chosun College of Sci. and Tech. (Korea)	Assess the possible transport routes of polystyrene plastic from land to the ocean along the coastline of Tokyo Bay	Aperiodic sampling from August 2008 to May 2011
Isobe et al. (2019) Kyushu Uni; Civil Engineering Research Institute for Cold Region; Tokyo Uni of Marine Sci. and Tech.	Quantify the microplastic abundance in the present and future ocean environment, by mapping out the abundance of pelagic microplastics through a transoceanic survey across a meridional transect from the Southern Ocean to Japan; Predicting future abundance of pelagic microplastics over the Pacific Ocean using a numerical model	2016
Jamieson et al. (2019) Newcastle Uni (UK); Uni of Aberdeen (UK); Scottish Marine Institute (UK)	Examine the extent of microplastic and microfibre pollution across some of the deepest points of the ocean, specifically investigated the presence of ingested microplastic fibres and fragments in the hindgut of lysianassoid amphipods across multiple hadal trenches around the Pacific Rim	2008 to 2017
Kinjo et al. (2019) Uni of Tokyo; Tokyo Uni of Agriculture and Tech.	Investigate the length of time where ingested microplastics (of 3 different sized polystyrene microspheres) are retained in their digestive tracts of Mediterranean mussels	N.A.
Tanaka et al. (2019) Tokyo Uni of Agriculture and Tech.; Wageningen Marine Research (The Netherlands); Yamashina Institute for Ornithology	Understand the impacts of marine organisms ingesting plastics exposed to hazardous chemicals, by identifying the compounds found on plastics fragments to which seabirds potentially have substantial exposure	Sampling in 2010 and 2015
Chiba et al. (2018) Japan Agency for Marine-Earth Science and Tech.; UNEP World Conservation Monitoring Center (UK); Marine Works Japan, Ltd.	Develop database to capture deep-sea debris information; Examine archives of photographs from dives by deep-sea submersibles and remotely operated vehicles; Assess the quantity, debris types, and impacts on deep-sea ecosystem	1983 to present-day
Maximenko et al. (2018) Uni of Hawaii, Manoa (USA); Japan Agency for Marine-Earth Science and Tech.; US National Oceanic and Atmospheric Administration (USA)	Simulate the movement of floating debris generated by the Great Japan Tsunami of 2011 using a suite of five ocean models	2011
Iwasaki et al. (2017) Kyushu Uni; Kagoshima Uni; Tokyo Uni of Marine Sci. and Tech.	Establish a model to visualise the transport process of small plastic fragments in the Sea of Japan	N.A.
Matsuguma et al. (2017) Tokyo Uni of Agriculture and Tech.; Tokyo Uni of Pharmacy and Life Sciences; Environmental Research and Training Center (Thailand); Uni of Malaya (Malaysia); Natural Resources and the Environment, Council for Science and Industrial Research (South Africa)	Assess the microplastic polymer types in sediment cores collected in the marine environment in parts of Asia and Africa; Provide a quantitative evaluation of the role of sediment as a sink for microplastics in marine ecosystems in these areas; Demonstrate the utility of sediment cores for understanding history of and trends in microplastic pollution	Sampling took place between 2004 and 2012
Sagawa et al. (2018) Ehime Uni	Conduct comparative surveys of microplastics in three zones of coastal seas of Japan; Examine the abundance and size of microplastics, as well as their polymer types in a	August to September 2016, January, April 2017

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
	coastal sea; Compare across the bottom sediment, beach sediment, and surface water; Deduce sinking and fragmentation process of foamed polystyrene (FPS) plastics	
Isobe (2016) Kyushu Uni	Compare and provide a conservative estimate of the quantity of microbeads with the quantity of pelagic microplastics potentially degraded in the coastal waters of Japan	September to October 2015
Nakashima et al. (2016) Ehime Uni	Investigate the potential of long-distance oceanic transport and leaching of additive-derived Pb from the PVC fishing floats on beaches	N.A.
Tanaka and Takeda (2016) Tokyo Uni of Agriculture & Tech.	Survey of microplastics abundance, distribution and types found in planktivorous fish from urban coastal waters of Japan	August 2015
Goto and Shibata (2015) Iwate Fisheries Tech. Center; Kitasato Uni	Assess the abundance and composition of anthropogenic marine debris on the basis of six bottom trawl surveys on the continental slope off Iwate Prefecture between pre- and post-earthquake period	April to June, November 2003, May, November 2004, June, November 2011
Isobe et al. (2015) Kyushu Uni; Tokyo Uni of Marine Sci. and Tech.	Assess the concentrations and properties of pelagic micro- and meso-plastics in the East Asian seas around Japan	July to September 2014
Kataoka and Hinata (2015) National Institute for Land and Infrastructure Management; Ehime Uni	Understand how beach cleanup effects may influence the properties of marine plastics (i.e. leaching of toxic metals or fragmentation), by establishing a method for evaluating beach cleanup effects based on a linear system analysis	N.A.
Kataoka et al. (2015) National Institute for Land and Infrastructure Management; Ehime Uni; Toyohashi Uni of Tech.	Understand the behaviour of backwashed floats in high wave events, by assessing the backwash process based on analysis of 2-year mark-recapture experiments, as well as nearshore current structures revealed by sequential images taken by webcam	2011
Tanaka et al. (2015) Tokyo Uni of Agriculture and Tech.; Hokkaido National Fisheries Research Institute; Hokkaido Uni	Investigate the transfer and leaching rates of polybrominated diphenyl ethers (PBDEs) from plastics to digestive fluids of seabirds off northern North Pacific Ocean	June to July, 2008 to 2010 and May to July, 2010, 2011
Isobe et al. (2014) Kyushu Uni; Ehime Uni; Kagoshima Uni; Kochi Uni; Saga Uni	Assess the occurrence (distribution and abundance) of small plastic fragments in the Seto Inland Sea, Japan using field surveys and a numerical particle-tracking model	2010 to 2012
Kataoka et al. (2013) National Institute for Land and Infrastructure Management; Toyohashi Uni of Tech.	Understand the beach response to the time-variant/invariant inputs, by considering the Wadahama Beach as a linear black box and calculate the unit response impulse (UIR) of target litter items based on MR experiments to acquire an overall understanding of the beach response to marine litter input regardless of seasonality and positions of individual items.	2011
Tanaka et al. (2013) Tokyo Uni of Agriculture and Tech.; Hokkaido National Fisheries Research Institute; Hokkaido Uni	Investigate the accumulation of plastic-derived chemicals in tissues of seabirds ingesting marine plastics; Examine the polybrominated diphenyl ethers (PBDEs) in abdominal adipose tissues of oceanic seabirds collected in the northern North Pacific Ocean; Compare levels with ingested plastic debris found in stomachs of seabirds	June to July 2015

Published Peer-Reviewed Work/Research Team	Aim of Research	Period of Study
Kataoka et al. (2012) National Institute for Land and Infrastructure Management; Ehime Uni	Assess a method for detecting plastic pixels of any colour and computing the beach area covered with plastic debris using photographs taken by a webcam	November 2010 to May 2011
Nakashima et al. (2012) Ehime Uni	Estimate potential risk of toxic metals that could leach into a beach environment from plastic litter washed ashore on Ookushi Beach, Goto Islands, Japan using balloon aerial photography, in situ beach surveys, and leaching experiments	October 2009
Hirai et al. (2011) Tokyo Uni of Agriculture & Tech.; Uni of the Philippines (Philippines); Algalita Marine Research Foundation (USA); Woods Hole Oceanographic Institution (USA); Sea Turtles Forever (USA)	Understand the spatial variation in concentrations and compositions of organic micropollutants in marine plastic debris and their sources	Sampling took place between 2005 and 2009
Kako et al. (2011) Ehime Uni; Sanyo Techno Marine, Inc., National Institute for Land and Infrastructure Management; Kyushu Uni; Japan Environment Action Network	Establish a system for hindcasting/forecasting the quantity of litter reaching a beach using ocean circulation model, a two-way particle tracking model (PTM) to find litter sources, and an inverse method to compute litter outflows at each source	September 2007 to September 2009
Yamashita et al. (2011) Tokyo Uni of Agriculture and Tech.; Hokkaido National Fisheries Research Institute; Hokkaido Uni	Assess the presence/absence of plastics in stomach, types of plastics, as well as the physical and chemical effects (i.e. PCBs) of ingested plastics on short-tailed shearwater seabirds	June to July 2003, June to July 2005
Endo et al. (2005) Tokyo Uni of Agriculture & Tech.; Tokyo Uni of Marine Science and Tech.; Hokkaido Uni; Tokuyama Corporation	Assess the concentrations of polychlorinated biphenyls (PCBs) in beached resin pellets to reveal variability between individual particles and differences among beaches	2001 and 2002
Kusui and Noda (2003) Toyama Prefectural Uni; Northwest Pacific Region Environmental Cooperation Center	Investigate the distribution and abundance of marine litter on 26 beaches along the Sea of Japan	September to November 2000
Mato et al. (2001) Tokyo Uni of Agriculture & Tech.; Tokyo Uni of Fisheries; National Institute of Health Sciences	Quantify the presence of toxic chemicals on resin pellets collected from four Japanese coasts, and conduct field adsorption experiments using PP virgin pellets	1997 and 1998