Electronic Supplementary Material (ESI) for Environmental Science: Processes & Impacts.

Supporting Information, Table S1. Literature used in the review, organised by country and level 1 category. The level 2 category, sub-topic and keywords for each paper are also listed.

Reference (by Country and Level 1 category)	Level 2 category	Sub-topic	Keywords
Australia			
Culture Sustainability Future			
Dalton SJ, Smith SDA. 2009. A Review of Underwater Volunteer Groups in NSW.	Review	Governance	no keywords listed
Great Barrier Reef Marine Park Authority. 2018. Position statement Marine debris.	Governance	Management	no keywords listed
Hardesty BD, Polidoro B, Compa M, Shim WJ, Widianarko B, Wilcox C. 2019. Multiple approaches to assessing the risk posed by anthropogenic plastic debris. Marine Pollution Bulletin 141: 188–193.	Governance	Management	ecosystem impact; pollution; mortality; risk management; precautionary principle; sub-lethal impact
Hardesty BD, Wilcox C. 2011. Understanding the types, sources, and at-sea distribution of marine debris in Australian waters. CSIRO.	Governance	Management	no keywords listed
Hardesty BD, Wilcox C. 2017. A risk framework for tackling marine debris. Analytical Methods 9: 1429–1436	Governance	Management	no keywords listed
Hardesty BD, Willis K, Schuyler Q, Lawson T, Wilcox C. 2017b. Emerging Priorities Project - EP1 reducing the levels of plastics entering Australia's marine environment. Report to the National Environmental Science Programme, Marine Biodiversity Hub. CSIRO.	Governance	Management	no keywords listed
Maguire R, Johnson H, Taboada MB, Barner L, Caldwell GA. 2019. A review of Single-use Plastic Waste Policy in 2018: What will 2019 hold in store? Faculty of Law Blog, Queensland University of Technology	Governance	Governance	no keywords listed
Mellish S, Pearson EL, Sanders B, Litchfield CA. 2016. Marine wildlife entanglement and the Seal the Loop initiative: a comparison of two free-choice learning approaches on visitor knowledge, attitudes and conservation	Governance	Knowledge	conservation behaviour; conservation education; free-choice learning; marine debris;

behaviour. International Zoo Yearbook 50: 129–154.			marine wildlife entanglement; seal the loop initiative; zoos and aquariums
O'Farrell K. 2019. 2017-18 Australian Plastics Recycling Survey. National report. 1–48.	Governance	Action	no keywords listed
Schuyler Q, Hardesty BD, Lawson TJ, Opie K, Wilcox C. 2018. Economic incentives reduce plastic inputs to the ocean. Marine Policy 96: 250–255.	Governance	Economics	no keywords listed
Smith SDA, Rule MJ, Harrison M, Dalton SJ. 2008. Monitoring the sea change: Preliminary assessment of the conservation value of nearshore reefs, and existing impacts, in a high-growth, coastal region of subtropical eastern Australia. Marine Pollution Bulletin 56: 525–534.	Governance	Knowledge	human impact; shallow reef; molluscs; fish; marine debris; sampling protocol
Vince J, Hardesty BD. 2017. Plastic pollution challenges in marine and coastal environments : from local to global governance. Restoration Ecology 25: 123–128.	Governance	Governance	community engagement; corporate social responsibility; litter
Wilcox C, Mallos NJ, Leonard GH, Rodriguez A, Hardesty BD. 2016. Using expert elicitation to estimate the impacts of plastic pollution on marine wildlife. Marine Policy 65: 107–114.	Governance	Governance	chemical contamination; elicitation survey; entanglement; ingestion; marine debris; marine mammal; plastic pollution; seabird; turtle
Willis K, Maureaud C, Wilcox C, Hardesty BD. 2018. How successful are waste abatement campaigns and government policies at reducing plastic waste into the marine environment?. Marine Policy 96: 243–249.	Governance	Knowledge	abatement campaigns; litter; policy; local government; waste effectiveness

Environmental Interaction Impact

Acampora H, Schuyler QA, Townsend KA, Hardesty BD. 2014. Comparing plastic ingestion in juvenile and adult stranded short-tailed shearwaters (*Puffinus tenuirostris*) in eastern Australia. Marine Pollution Bulletin 78: 63–68.	Biota	Bird	ingestion; marine debris; plastic–*Puffinus tenuirostris*; surface trawl sampling
Broadhurst MK, Millar RB. 2017. Reducing the marine debris of recreational hoop nets in south-eastern Australia. Marine Pollution Bulletin 119: 40–47.	Biota	Nets	no keywords listed
Butterworth A. 2016. A review of the welfare impact on pinnipeds of plastic marine debris. Frontiers in Marine Science 3: 1–10.	Review	Seal	no keywords listed
Cannon SME, Lavers JL, Figueiredo B. 2016. Plastic ingestion by fish in the Southern Hemisphere: A baseline study and review of methods. Marine	Review	Fish	Actinopterygii; Australia; *Dissostichus mawsoni*; FTIR;

Pollution Bulletin 107: 286–291.			plastic pollution; southern ocean
Carey MJ. 2011. Intergenerational transfer of plastic debris by Short-tailed Shearwaters (*Ardenna tenuirostris*). Emu 111: 229–234.	Biota	Bird	plastic pollution; marine debris; seabirds; shearwater
Caron AGM, Thomas CR, Berry KLE, Motti CA, Ariel E, Brodie JE. 2018. Ingestion of Microplastic debris by green sea turtles (*Chelonia mydas*) in the Great Barrier Reef: Validation of a sequential extraction protocol. Marine Pollution Bulletin 127: 743–751.	Biota	Turtle	marine turtle; plastic ingestion; plastic contamination; extraction technique; chemical digestion; Fourier transformed infrared spectroscopy
Ceccarelli D. 2009. Impacts of plastic debris on Australian marine wildlife. Report by C&R Consulting for the Department of the Environment, Water, Heritage and the Arts.	Review	Fish	no keywords listed
Cousin HR, Auman HJ, Alderman R, Virtue P. 2015. The frequency of ingested plastic debris and its effects on body condition of Short-tailed Shearwater (*Puffinus tenuirostris*) pre-fledging chicks in Tasmania, Australia. Emu 115: 6–11.	Biota	Bird	industrial plastic; marine debris; nurdles; plastic colour; plastic pollution; user plastic
Critchell K, Hamann M, Wildermann N, Grech A. 2019. Predicting the exposure of coastal species to plastic pollution in a complex island archipelago. Environmental Pollution 252: 982–991.	Substrate	Reef	dispersal modelling; macroplastics; microplastics; coral reefs; marine turtles; mangroves
DEWHA. 2009. Background paper for the threat abatement plan for the impacts of marine debris on vertebrate marine life. Department of the Environment, Water, Heritage and the Arts. Canberra.	Governance	Governance	no keywords listed
Edyvane KS, Penny SS. 2017. Trends in derelict fishing nets and fishing activity in northern Australia: Implications for trans-boundary fisheries management in the shared Arafura and Timor Seas. Fisheries Research 188: 23–37.	Effect	Nets	fishing debris; IUU fishing; food security; Arafura and Timor seas; trans-boundary pollution; regional fisheries management
Evans K, Hindell MA. 2004. The diet of sperm whales (*Physeter macrocephalus*) in southern Australian waters. ICES Journal of Marine Science 61: 1313–1329.	Biota	Marine Mammals	Australia; cephalopod; diet; mass stranding; *Physeter macrocephalus*; southern ocean; sperm whale
Gilbert JM, Reichelt-Brushett AJ, Bowling AC, Christidis L. 2016. Plastic ingestion in marine and coastal bird species of Southeastern Australia. Marine	Biota	Bird spp.	Australia; seabirds; coastal birds; shearwaters; marine

Ornithology 44: 21–26.			pollution; plastic ingestion
Gunn R, Hardesty BD, Butler J. 2010. Tackling 'ghost nets': Local solutions to a global issue in northern Australia. Ecological Management and Restoration 11: 88–98.	Effect	Nets	derelict fishing nets; ghostnet gear; indigenous livelihoods; marine debris; threatened species management.
Hall NM, Berry KLE, Rintoul L, Hoogenboom MO. 2015. Microplastic ingestion by scleractinian corals. Marine Biology 162: 725–732.	Biota	Coral	no keywords listed
Halstead JE, Smith JA, Carter EA, Lay PA, Johnston EL. 2018. Assessment tools for Microplastics and natural fibres ingested by fish in an urbanised estuary. Environmental Pollution 234: 552–561.	Biota	Fish	microplastic; *Acanthopagrus australis*; yellowfin bream; *Mugil cephalus*; sea mullet; *Gerres subfasciatus*; silverbiddy; ingestion; vibrational spectroscopy
Hardesty BD, Holdsworth D, Revill AT, Wilcox C. 2015. A biochemical approach for identifying plastics exposure in live wildlife. Methods in Ecology and Evolution 6: 92–98.	Biota	Bird spp.	bis-phthalate; dibutyl phthalate; dimethyl phthalate; plastics; seabird; uropygial gland
Hutton I, Carlile N, Priddel D. 2008. Plastic ingestion by Flesh-footed Shearwaters, *Puffinus carneipes*, and Wedge-tailed Shearwaters, *Puffinus pacificus*. Papers and Proceedings of the Royal Society of Tasmania 142: 67–72.	Biota	Bird	marine pollution; marine litter; Lord Howe Island; Wedge-tailed Shearwater; plastic ingestion; Flesh-footed Shearwater; *Puffinus carneipes; Puffinus pacificus*
Hutton I. 2004. Plastic perils for seabirds. Nature Australia 28: 52–59.	Biota	Bird spp.	plastics; shearwaters; marine ecology; ingestion
Jahan S, Strezov V, Weldekidan H, Kumar R, Kan T, Sarkodie SA, He J, Dastjerdi B, Wilson SP. 2019. Interrelationship of Microplastic pollution in sediments and oysters in a seaport environment of the eastern coast of Australia. Science of The Total Environment 695: 133924.	Biota	Bivalve	microplastics; sediment; seaport
Jones MM. 1995. Fishing debris in the Australian marine environment. Marine Pollution Bulletin 30: 25–33.	Effect	Nets	no keywords listed
Lavers JL, Bond AL, Hutton I. 2014. Plastic ingestion by flesh-footed shearwaters (*Puffinus carneipes*): Implications for fledgling body condition and the accumulation of plastic-derived chemicals. Environmental Pollution	Biota	Bird	body condition; Flesh-footed Shearwater; marine debris; plastic ingestion; trace metals

187: 124–129.			
Lavers JL, Bond AL. 2016. Selectivity of flesh-footed shearwaters for plastic colour: Evidence for differential provisioning in adults and fledglings. Marine Environmental Research 113: 1–6.	Biota	Bird	behaviour; colour preference; feeding; plastics; seabirds; selection
Lavers JL, Dicks L, Dicks MR, Finger A. 2019. Significant plastic accumulation on the Cocos (Keeling) Islands, Australia. Scientific Reports 9: 1–9.	Substrate	Beach	no keywords listed
Lavers JL, Hodgson JC, Clarke RH. 2013. Prevalence and composition of marine debris in Brown Booby (*Sula leucogaster*) nests at Ashmore Reef. Marine Pollution Bulletin 77: 320–324.	Biota	Bird	Brown Booby; marine debris nesting; nesting ecology; plastic pollution; *Sula leucogaster*; Timor sea
Lavers JL, Hutton I, Bond AL. 2018. Ingestion of marine debris by Wedge-tailed Shearwaters (*Ardenna pacifica*) on Lord Howe Island, Australia during 2005–2018. Marine Pollution Bulletin 133: 616–621.	Biota	Bird	long-term trends; plastic ingestion; plastic pollution; Tasman Sea; Wedge-tailed Shearwater
Lavers JL, Hutton I, Bond AL. 2019. Clinical Pathology of Plastic Ingestion in Marine Birds and Relationships with Blood Chemistry. Environmental Science & Technology 53: 9224–9231.	Biota	Bird	no keywords listed
Lavers JL, Stivaktakis G, Hutton I, Bond AL. 2019c. Detection of ultrafine plastics ingested by seabirds using tissue digestion. Marine Pollution Bulletin 142: 470–474.	Biota	Bird spp.	extraction methods; marine debris; microplastic; plastic pollution
Lavers JL. 2018. Population status and threats to Flesh-footed Shearwaters (*Puffinus carneipes*) in South and Western Australia. Marine Science 72: 316–327.	Review	Bird	apex marine predator; cumulative mortality; flesh-footed shearwater; indicator species; *Puffinus carneipes*
Lawson TJ, Wilcox C, Johns K, Dann P, Hardesty BD. 2015. Characteristics of marine debris that entangle Australian fur seals (*Arctocephalus pusillus doriferus*) in southern Australia. Marine Pollution Bulletin 98: 354–357.	Biota	Seal	Australian fur seal; entanglement; marine debris; pinniped
McIntosh RR, Kirkwood R, Sutherland DR, Dann P. 2015. Drivers and annual estimates of marine wildlife entanglement rates: A long-term case study with Australian fur seals. Marine Pollution Bulletin 101: 716–725.	Biota	Seal	*Arctocephalus pusillus doriferus*; fisheries interactions; marine debris; ghost nets; Otariid; plastic
Miketa M, Krzyszczyk E, Mann J. 2017. Behavioral responses to fishing line entanglement of a juvenile bottlenose dolphin in Shark Bay, Australia.	Biota	Dolphin/Porpoise	marine debris; human impacts; fishing gear

Matters 1–6.			
O'Shea OR, Hamann M, Smith W, Taylor H. 2014. Predictable pollution: An assessment of weather balloons and associated impacts on the marine environment - An example for the Great Barrier Reef, Australia. Marine Pollution Bulletin 79: 61–68.	Governance	Weather balloon	beach cleaning; dispersal modeling; latex; pollution; marine debris
Page B, McKenzie J, McIntosh R, Baylis A, Morrissey A, Calvert N, Haase T, Berris M, Dowie D, Shaughnessy PD, Goldsworthy SD. 2004. Entanglement of Australian sea lions and New Zealand fur seals in lost fishing gear and other marine debris before and after Government and industry attempts to reduce the problem. Marine Pollution Bulletin 49: 33–42.	Biota	Seal	entanglement; fishing; plastic; marine debris; *Arctocephalus forsteri*; *Neophoca cinerea*
Paterson HL, Dunlop JN. 2018. Minimal Plastic in Flesh-Footed Shearwater *Ardenna Carneipes* burrows at Southwestern Australia colonies. Marine Ornithology 167: 165–167.	Biota	Bird	*Ardenna carneipes*; burrows; Flesh-footed Shearwater; plastics; Southern Western Australia
Pearson E, Mellish S, Sanders B, Litchfield C. 2014. Marine wildlife entanglement: Assessing knowledge, attitudes, and relevant behaviour in the Australian community. Marine Pollution Bulletin 89: 136–148.	Governance	Knowledge	marine wildlife entanglement; marine debris; zoo education; conservation psychology
Pemberton D, Brothers NP, Kirkwood R. 1992. Entanglement of Australian fur seals in man-made debris in Tasmanian waters. Wildlife Research 19: 151–159.	Biota	Seal	no keywords listed
Phillips C. 2017. Ghostly encounters: Dealing with ghost gear in the Gulf of Carpentaria. Geoforum 78: 33–42.	Review	Nets	encounter; waste; ghost fishing; ocean governance; northern Australia
Priddel D, Carlile N, Fullagar P, Hutton I, O'Neill L. 2006. Decline in the distribution and abundance of flesh-footed shearwaters (*Puffinus carneipes*) on Lord Howe Island, Australia. Biological Conservation 128: 412–424.	Biota	Bird	burrow-nesting seabird; loss of nesting habitat; breeding success; Procellariiform; urbanisation
Reid T, Hindell M, Lavers JL, Wilcox C. 2013. Re-Examining Mortality Sources and Population Trends in a Declining Seabird: Using Bayesian Methods to Incorporate Existing Information and New Data. PLoS ONE 8: 17–19.	Review	Bird	no keywords listed
Reinhold L. 2015. Absence of Ingested Plastics in 20 Necropsied Sea Turtles in Western AustraliaMarine Turtle Newsletter 144: 13–15.	Biota	Turtle	no keywords listed
Roman L, Bell E, Wilcox C, Hardesty BD, Hindell M. 2019. Ecological drivers of	Biota	Bird	no keywords listed

marine debris ingestion in Procellariiform Seabirds. Scientific Reports 9: 1–8.			
Roman L, Hardesty BD, Hindell MA, Wilcox C. 2019. A quantitative analysis linking seabird mortality and marine debris ingestion. Scientific Reports 9: 1–7.	Biota	Bird	no keywords listed
Roman L, Paterson H, Townsend KA, Wilcox C, Hardesty BD, Hindell MA. 2019. Size of marine debris items ingested and retained by petrels. Marine Pollution Bulletin 142: 569–575.	Biota	Bird	diet; plastic ingestion; pollution; shearwater; seabird; Procellariiform
Roman L, Schuyler QA, Hardesty BD, Townsend KA. 2016. Anthropogenic debris ingestion by avifauna in eastern Australia. PLoS ONE 11: 1–14.	Biota	Bird spp.	no keywords listed
Schuyler Q, Wilcox C, Townsend K, Hardesty BD, Marshall NJ. 2014. Mistaken identity? Visual similarities of marine debris to natural prey items of sea turtles. BMC Ecology 14: 14.	Biota	Turtle	*Chelonia mydas*; chromatic space; *Eretmochelys imbricata*; marine debris; Vorobyev-Osorio model
Stoett P, Joanna V. 2019. The Plastic – Climate Nexus Linking Science, Policy, and Justice. Pages 345–361 in PG H, ed. Climate Change and Ocean Governance: Politics and Policy for Threatened Seas. Cambridge University Press.	Review	Climate	no keywords listed
van Franeker JA, Bell PJ. 1988. Plastic ingestion by petrels breeding in Antarctica. Marine Pollution Bulletin 19: 672–674.	Biota	Bird	no keywords listed
Verlis KM, Campbell ML, Wilson SP. 2013. Ingestion of marine debris plastic by the wedge-tailed shearwater *Ardenna pacifica* in the Great Barrier Reef, Australia. Marine Pollution Bulletin 72: 244–249.	Biota	Bird	seabird; plastic pollution; bird health; environmental impacts; UNESCO world heritage site; chicks
Verlis KM, Campbell ML, Wilson SP. 2014. Marine debris is selected as nesting material by the brown booby (*Sula leucogaster*) within the Swain Reefs, Great Barrier Reef, Australia. Marine Pollution Bulletin 87: 180–190.	Biota	Bird	seabird; plastic pollution; threat; beach survey; environmental indicator
Verlis KM, Campbell ML, Wilson SP. 2018. Seabirds and plastics don't mix: Examining the differences in marine plastic ingestion in wedge-tailed shearwater chicks at near-shore and offshore locations. Marine Pollution Bulletin 135: 852–861.	Biota	Bird	Australia; Great Barrier Reef; litter; marine debris; marine park; Procellariiform
Webb HK, Crawford RJ, Sawabe T, Ivanova EP. 2009. Poly(ethylene terephthalate) polymer surfaces as a substrate for bacterial attachment and biofilm formation. Microbes and Environments 24: 39–42.	Biota	Microorganism	bacterial attachment; biofilm; poly(ethylene terephthalate)

Wilcox C, Puckridge M, Schuyler QA, Townsend K, Hardesty BD. 2018. A quantitative analysis linking sea turtle mortality and plastic debris ingestion. Scientific Reports 8: 1–11.	Biota	Turtle	no keywords listed
Yeo BG, Takada H, Taylor H, Ito M, Hosoda J, Allinson M, Connell S, Greaves L, McGrath J. 2015. POPs monitoring in Australia and New Zealand using plastic resin pellets, and International Pellet Watch as a tool for education and raising public awareness on plastic debris and POPs. Marine Pollution Bulletin 101: 137–145	Contaminants	Chemicals	PCBs; DDTs; HCHs; plastic; citizen science; science communication
Ziajahromi S, Kumar A, Neale PA, Leusch FDL. 2019. Effects of polyethylene Microplastics on the acute toxicity of a synthetic pyrethroid to midge larvae (*Chironomus tepperi*) in synthetic and river water. Science of the Total Environment 671: 971–975.	Biota	Zooplankton	bifenthrin; organic matter; polyethylene microplastics; reduced toxicity; sorption

Societal Impacts

Butler JRA, Gunn R, Berry HL, Wagey GA, Hardesty BD, Wilcox C. 2013. A Value Chain Analysis of ghost nets in the Arafura Sea: Identifying trans-boundary stakeholders, intervention points and livelihood trade-offs. Journal of Environmental Management 123: 14–25.	Effect	Nets	adaptive co-management indigenous; indigenous rangers; marine debris; social networks; trans-boundary diagnostic assessment
Cresswell ID, Murphy H. 2016. Australia state of the environment 2016: biodiversity, independent report to the Australian Government Minister for the Environment and Energy.	Governance	Governance	no keywords listed
Katsnelson A. 2015. News Feature: Microplastics present pollution puzzle. Proceedings of the National Academy of Sciences 112: 5547–5549.	Review	Governance	no keywords listed
Keep Australia Beautiful. 2018. 2018-19 annual report. Western Australian Government.	Governance	Action	no keywords listed
Rohmana QA, Fischer AM, Gemmill J, Gemmill J, Ambrosio LD, Jones G, He K. 2019. Perceptions and information disclosure of water quality issues in Australia.	Substrate	Water	no keywords listed
Slavin C, Grage A, Campbell ML. 2012. Linking social drivers of marine debris with actual marine debris on beaches. Marine Pollution Bulletin 64: 1580–1588.	Substrate	Beach	litter; pollution; littering behaviour; marine debris source; fishing gear pollution; urbanisation

Townsend K. 2017. Human impacts on the marine environment. Geodate 30: 3–8.	Governance	Management	no keywords listed
van der Velde T, Milton DA, Lawson TJ, Wilcox C, Lansdell M, Davis G, Perkins G, Hardesty BD. 2017. Comparison of marine debris data collected by researchers and citizen scientists: Is citizen science data worth the effort? Biological Conservation 208: 127–138.	Governance	Knowledge	participatory research; public engagement; students; training; volunteers
Wilson SP, Verlis KM. 2017. The ugly face of tourism: Marine debris pollution linked to visitation in the southern Great Barrier Reef, Australia. Marine Pollution Bulletin 117: 239–246.	Substrate	Beach	marine debris; litter; sources; tourism; Great Barrier Reef; management

Sources Distribution and Trend

Bauer-Civiello A, Critchell K, Hoogenboom M, Hamann M. 2019. Input of plastic debris in an urban tropical river system. Marine Pollution Bulletin 144: 235–242.	Substrate	Water	litter; river; storm drains; rainfall; run-off; pollution
Bauer-Civiello A, Loder J, Hamann M. 2018. Using citizen science data to assess the difference in marine debris loads on reefs in Queensland, Australia. Marine Pollution Bulletin 135: 458–465.	Substrate	Reef	marine debris; litter; pollution; fishing line; subtidal; coral reefs
Brennan E, Wilcox C, Hardesty BD. 2018. Connecting flux, deposition and resuspension in coastal debris surveys. Science of the Total Environment 644: 1019–1026.	Substrate	Beach	marine debris; marine pollution; plastic; cleanup
Broadhurst MK, Millar RB. 2019. Effects of twine material on the marine debris and relative ghost fishing of portunid hoop (tangle) nets. Aquaculture and Fisheries 5: 99–104.	Effect	Nets	fishing debris; marine debris; polyamide; recreational fishing
Broom D. 2015. Peak plastic: The proliferation of plastic. ReNew: Technology for a Sustainable Future 133: 62–66.	Governance	Knowledge	no keywords listed
Critchell K, Lambrechts J. 2016. Modelling accumulation of marine plastics in the coastal zone; what are the dominant physical processes? Estuarine, Coastal and Shelf Science 171: 111–122.	Physical Process	Ocean	marine debris; coastal; oceanography; wind shadow; modelling; sensitivity analysis
Cunningham ADJ, Wilson SP. 2003. Marine Debris on Beaches of the Greater Sydney Region. Journal of Coastal Research 19: 421–430.	Substrate	Beach	flotsam; jetsam; ocean; Australia; stormwater pollution
Duckett PE, Repaci V. 2015. Marine plastic pollution: Using community science to address a global problem. Marine and Freshwater Research 66: 665–673.	Substrate	Beach	conservation; consumerism; education; government
Edyvane KS, Dalgetty A, Hone PW, Higham JS, Wace NM. 2004. Long-term	Substrate	Beach	marine litter; marine

marine litter monitoring in the remote Great Australian Bight, South Australia. Marine Pollution Bulletin 48: 1060–1075.			monitoring; Great Australian Bight; fisheries; fishing debris; Southern Ocean
Frost A, Cullen M. 1997. Marine debris on northern New South Wales beaches (Australia): Sources and the role of beach usage. Marine Pollution Bulletin 34: 348–352.	Substrate	Beach	no keywords listed
Hajbane S, Pattiaratchi CB. 2017. Plastic Pollution Patterns in Offshore, Nearshore and Estuarine Waters: A Case Study from Perth, Western Australia. Frontiers in Marine Science 4: 63.	Substrate	Water	plastic pollution; spatiotemporal variability; coastal oceanography; Western Australia; mitigation; fishing line
Hardesty BD, Lawson TJ, van der Velde T, Lansdell M, Wilcox C. 2017a. Estimating quantities and sources of marine debris at a continental scale. Frontiers in Ecology and the Environment 15: 18–25.	Substrate	Ocean	no keywords listed
Hardesty D, Reisser J, Sharples R, Wilcox C. 2011. Understanding the types, sources, and at-sea distribution of marine debris in Australian waters. In: Carswell, B., K. McElwee, and S. Morison (eds.). 2011. Technical Proceedings of the Fifth International Marine Debris Conference. March 20–25, 2011. NOAA Technical Memorandum NOS-OR&R-38.	Physical Process	Ocean	no keywords listed
Hastings K, Smith W, Taylor H, Mouritz R. 2014. 2014 West Australian Beach Clean-Up Report. Tangaroa Blue Foundation.	Governance	Action	no keywords listed
Hastings K, Smith W, Taylor H, Mouritz R. 2017. 2017 West Australian Beach Clean - up Report Card. Tangaroa Blue Foundation.	Governance	Action	no keywords listed
Hastings K, Smith W, Taylor H. 2016. West Australian Beach Clean-up Report 2016. Tangaroa Blue Foundation.	Governance	Action	no keywords listed
Haynes D. 1997. Marine debris on continental islands and sand cays in the Far Northern Section of the Great Barrier Reef Marine Park, Australia. Marine Pollution Bulletin 34: 276–279.	Substrate	Beach	no keywords listed
Jensen LH, Motti CA, Garm AL, Tonin H, Kroon FJ. 2019. Sources, distribution and fate of microfibres on the Great Barrier Reef, Australia. Scientific Reports 9: 1–16.	Biota	Fish	no keywords listed
Johnston G. 2016. Clean4Shore Program 2016 Report Hawkesbury River, Brisbane Waters, Tuggerah Lakes. Tangaroa Blue Foundation.	Governance	Action	no keywords listed

Johnston G. 2017. Clean4Shore Program Report 2017 Hawkesbury River and Brisbane Waters. Tangaroa Blue Foundation.	Governance	Action	no keywords listed
Johnston G. 2018. Clean4Shore Program Report 2018 Hawkesbury River and Brisbane Waters. Tangaroa Blue Foundation.	Governance	Action	no keywords listed
Klekociuk A, Wienecke B. 2017. Australia state of the environment 2016: Antarctic environment, independent report to the Australian Government Minister for the Environment and Energy, Australian Government Department of the Environment and Energy, Canberra, doi:10.4226/94/58b65b2b307c0	Review	Antarctica	no keywords listed
Kowalczyk N, Blake N, Charko F, Quek Y. 2017. Microplastics in the Maribyrnong and Yarra Rivers, Melbourne, Australia.	Substrate	Water	no keywords listed
Kroon F, Motti C, Talbot S, Sobral P, Puotinen M. 2018. A workflow for improving estimates of Microplastic contamination in marine waters: A case study from North-Western Australia. Environmental Pollution 238: 26–38.	Technique	Contaminants	tows; anthropogenic; microparticles; ftir; spectroscopy
Ling SD, Sinclair M, Levi CJ, Reeves SE, Edgar GJ. 2017. Ubiquity of Microplastics in coastal seafloor sediments. Marine Pollution Bulletin 121: 104–110.	Substrate	Sediment	marine plastic; pollution; heavy metals; sewage; estuary; reef
Maher M, Hastings K, Smith W, Taylor H. 2019. 2018 WA Marine Debris Project Report Card. Tangaroa Blue Foundation.	Governance	Action	no keywords listed
Mallinson L, Taylor H, Shea OO. 2013. Mallinson L, Taylor H, Shea OO. 2013. A review of plastic resin pellet distribution throughout Australia and mitigation methods for reducing spill-over into the marine environment. Tangaroa Blue Foundation.	Review	Plastic	no keywords listed
Nott J, Hubbert G. 2005. Comparisons between topographically surveyed debris lines and modelled inundation levels from severe tropical cyclones Vance and Chris, and their geomorphic impact on the sand coast. Australian Meteorological Magazine 54: 187–196.	Substrate	Beach	no keywords listed
Official Committee Hansard SENATE. 2016. Toxic tide: the threat of marine plastic pollution in Australia. Senate Printing Unit, Parliament House.	Review	Ocean	no keywords listed
Pearce A, Jackson G, Cresswell GR. 2019. Marine debris pathways across the southern Indian Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography 166: 34-42.	Physical Process	Ocean	Indian Ocean Subtropical Gyre; South Equatorial Current; South Indian Ocean Current; current drifters
Reisser J, Shaw J, Hallegraeff G, Proietti M, Barnes DKA, Thums M, Wilcox C,	Biota	Microorganism	no keywords listed

Hardesty BD, Pattiaratchi C. 2014. Millimeter-sized marine plastics: A new pelagic habitat for microorganisms and invertebrates. PLoS ONE 9: e100289.			
Reisser J, Shaw J, Wilcox C, Hardesty BD, Proietti M, Thums M, Pattiaratchi C. 2013. Marine plastic pollution in waters around Australia: Characteristics, concentrations, and pathways. PLoS ONE 8: e80466.	Physical Process	Ocean	no keywords listed
Rudduck OA, Lavers JL, Fischer AM, Stuckenbrock S, Sharp PB, Banati RB. 2017. Inter-annual variation in the density of anthropogenic debris in the Tasman Sea. Marine Pollution Bulletin 124: 51–55.	Substrate	Water	Australia; marine debris; plastic pollution; Tasman sea
Schuyler Q, Smith W, Taylor H. 2016. Cape York Clean-up Report 2015-2016 Tangaroa Blue Foundation.	Governance	Action	no keywords listed
Slavin CM. 2011. Types and Sources of Marine Debris in Northern Tasmania. Honours Thesis. CQ University.	Substrate	Beach	no keywords listed
Slip DJ, Burton HR. 1991. Accumulation of Fishing Debris, Plastic Litter, and Other Artefacts, on Heard and Macquarie Islands in the Southern Ocean. Environmental Conservation 18: 249–254.	Substrate	Beach	no keywords listed
Smith SDA, Banister K, Fraser N, Edgar RJ. 2018. Tracing the source of marine debris on the beaches of northern New South Wales, Australia: The Bottles on Beaches program. Marine Pollution Bulletin 126: 304–307.	Substrate	Beach	citizen science; plastics; MARPOL; remote beaches
Smith SDA, Edgar RJ. 2014. Documenting the density of subtidal marine debris across multiple marine and coastal habitats. PLoS ONE 9:.	Substrate	Coast	no keywords listed
Smith SDA, Gillies CL, Shortland-Jones H. 2014. Patterns of marine debris distribution on the beaches of Rottnest Island, Western Australia. Marine Pollution Bulletin 88: 188–193.	Substrate	Beach	citizen science; fishing; in situ deposition; management; plastic; volunteers
Smith SDA, Markic A. 2013. Estimates of marine debris accumulation on beaches are strongly affected by the temporal scale of sampling. PLoS ONE 8: 8–13.	Technique	Sampling	no keywords listed
Smith SDA. 2010. A review of marine debris in the Northern Rivers region of New South Wales. Report to the Northern Rivers Catchment Management Authority 25.	Review	Beach	no keywords listed
Smith W, Hastings K, Taylor H, Mouritz R, Ashton K. 2015a. West Australian Beach Clean-up Report 2015. Tangaroa Blue Foundation.	Governance	Action	no keywords listed
Smith W, Lambeth L. 2012. Darwin Harbour Clean-Up An assessment of the data focussing on the container deposit scheme and plastic shopping bag	Governance	Action	no keywords listed

ban September 2012. Tangaroa Blue Foundation.			
Smith W, Taylor H, Ashton K, Shea OO, Mouritz R. 2013. 2013 West Australian Beach Clean-up Report. Tangaroa Blue Foundation.	Governance	Action	no keywords listed
Smith W, Taylor H, Johnston G. 2015. Clean4Shore Program 2015 Report. Tangaroa Blue Foundation.	Governance	Action	no keywords listed
Smith W, Taylor H, O'Shea OR. 2012. 2012 West Australian Beach Cleanup Report. Tangaroa Blue Foundation.	Governance	Action	no keywords listed
Smith W, Taylor H. 2009. 2009 South West Marine Debris Project (South West Australia) Technical Report. Tangaroa Blue Foundation.	Governance	Action	no keywords listed
Smith W, Taylor H. 2010. 2010 South West Marine Debris Project (South West Australia) Technical Report. Tangaroa Blue Foundation.	Governance	Action	no keywords listed
Smith W, Taylor H. 2011. 2011 West Australian Marine Debris Project Technical Report. Tangaroa Blue Foundation.	Governance	Action	no keywords listed
Smith W. 2008. Fremantle Port and the Swan River as Sources of Plastic Resin Pellets. Tangaroa Blue Foundation.	Governance	Action	no keywords listed
Smith W. 2010. Plastic Resin Pellets on the Western South Coast of West Australia. Tangaroa Blue Foundation.	Governance	Action	no keywords listed
Taffs KH, Cullen MC. 2005. The distribution and abundance of Beach debris on isolated beaches of northern New South Wales, Australia. Australasian Journal of Environmental Management 12: 244–250.	Substrate	Beach	no keywords listed
Taylor H, Smith W. 2009. 2009 Far North Queensland Marine Debris Project Report. Tangaroa Blue Foundation.	Governance	Action	no keywords listed
Taylor H, Smith W. 2010. 2010 - 11 Victorian Surf Coast Marine Debris Project Report. Tangaroa Blue Foundation.	Governance	Action	no keywords listed
van der Mheen M, Pattiaratchi C, van Sebille E. 2019. Role of Indian Ocean Dynamics on Accumulation of Buoyant Debris. Journal of Geophysical Research: Oceans 124: 2571–2590.	Physical Process	Ocean	no keywords listed
Whiting SD. 1998. Types and Sources of Marine Debris in Fog Bay, Northern Australia. Marine Pollution Bulletin 36: 904–910.	Substrate	Beach	debris; marine; Australia; source; litter; rubbish; pollution
Wilcox C, Hardesty BD, Sharples R, Griffin DA, Lawson TJ, Gunn R. 2013. Ghostnet impacts on globally threatened turtles, a spatial risk analysis for northern Australia. Conservation Letters 6: 247–254.	Biota	Turtle	biodiversity impact; ghostnet; marine debris; net swept area; threatened species

Wilcox C, Hardesty BD. 2016. Biodegradable nets are not a panacea, but can contribute to addressing the ghost fishing problem. Animal Conservation 19: 322–323.	Effect	Nets	no keywords listed
Wilcox C, Heathcote G, Goldberg J, Gunn R, Peel D, Hardesty BD. 2015. Understanding the sources and effects of abandoned, lost, and discarded fishing gear on marine turtles in northern Australia. Conservation Biology 29: 198–206.	Biota	Turtle	bycatch; cryptic mortality; derelict nets; gill net; illegal fishing; IUU; trawl
Willis KA, BD Hardesty, Kriwoken L, Wilcox C. 2017a. Differentiating littering, urban runoff and marine transport as sources of marine debris in coastal and estuarine environments. Scientific Reports 7: 1–9.	Substrate	Coast	no keywords listed
Willis KA, Eriksen R, Wilcox C, Hardesty BD. 2017b. Microplastic distribution at different sediment depths in an urban estuary. Frontiers in Marine Science 4: 1–8.	Substrate	Sediment	core samples; estuary; microplastics; plastic fibers; sediment
Kroon FJ, Motti CE, Jensen LH, Berry KLE. 2018. Classification of marine microdebris: A review and case study on fish from the Great Barrier Reef, Australia. Scientific Reports 8: 1–15	Biota	Fish	no keywords listed

United Kingdom

Culture Sustainability Future

Cole HA. 1979. Marine Pollution - Facts and Fiction, the Situation in Britain. Ocean Management 5: 263–278.	Review	Governance	no keywords listed
Hastings E, Potts T. 2013. Marine litter: Progress in developing an integrated policy approach in Scotland. Marine Policy 42: 49–55.	Governance	Governance	marine litter; marine policy; policy integration; Scotland
Van Sebille E, Gilbert A, Spathi C. 2016. The ocean plastic pollution challenge: towards solutions in the UK.	Governance	Governance	no keywords listed
Wentworth J, Stafford C. 2016. Marine Microplastic Pollution. POSTnote 528: 1-5.	Governance	Governance	no keywords listed
A preliminary assessment of the economic, environmental and societal impacts of a potential ban on plastic straws, plastic stem cotton buds and plastic drinks stirrers. Department for Environment, Food and Rural Affairs.	Governance	Governance	no keywords listed
Al-Salem, S.M.; Lettieri, P.; Baeyens, J. Recycling and recovery routes of plastic	Governance	Governance	no keywords listed

solid waste (PSW): a review. Waste Management. 2019, 29, 2625-2643.			
Hahladakis, J.N.; Purnell, P.; Iacovidou, E.; Velis, C.A.; Atseyinku, M. Post-consumer plastic packaging waste in England: assessing the yield of multiple collection-recycling schemes. Waste Management. 2018, 75, 149-159.	Governance	Governance	no keywords listed
Our waste, our resources: a strategy for England. 2018. HM Government.	Governance	Governance	no keywords listed
Singer, J. Does the UK government's target to recycle 25% of household waste by the year 2000 represent an economic approach to recycling? A case study of plastic. Resources, Conservation and Recycling. 1995, 14, 133-155.	Governance	Governance	no keywords listed
Smith, D.N.; Harrison, L.M.; Simons, A.J. A survey of schemes in the United Kingdom collecting plastic bottles for recycling. 1999, 25, 17-34.	Governance	Governance	no keywords listed
Wong, C. A study of plastic recycling supply chain. Publisher: The Chartered Institute of Logistics and Transport UK. 2010.	Governance	Governance	no keywords listed

Environmental Interaction Impact

Acampora H, Berrow S, Newton S, O'Connor I. 2017. Presence of plastic litter in pellets from Great Cormorant (*Phalacrocorax carbo*) in Ireland. Marine Pollution Bulletin 117: 512–514.	Biota	Bird	marine litter; plastics; seabirds; Phalacrocoracidae; pellets
Acampora H, Lyashevska O, Van Franeker JA, O'Connor I. 2016. The use of beached bird surveys for marine plastic litter monitoring in Ireland. Marine Environmental Research 120: 122–129.	Biota	Bird spp.	ingestion; plastic litter; fulmar; multispecies; beached bird survey
Allen R, Jarvis D, Sayer S, Mills C. 2012. Entanglement of grey seals *Halichoerus grypus* at a haul out site in Cornwall, UK. Marine Pollution Bulletin 64: 2815–2819.	Biota	Seal	Grey Seal; net; entanglement; debris
Ashton K, Holmes L, Turner A. 2010. Association of metals with plastic production pellets in the marine environment. Marine Pollution Bulletin 60: 2050–2055.	Contaminants	Chemicals	plastic production pellets; metals; adsorption; precipitation
Bakir A, Rowland SJ, Thompson RC. 2012. Competitive sorption of persistent organic pollutants onto Microplastics in the marine environment. Marine Pollution Bulletin 64: 2782–2789.	Contaminants	Chemicals	competition; mixtures; pops; plastic microparticles; sorption
Bakir A, Rowland SJ, Thompson RC. 2014. Enhanced desorption of persistent organic pollutants from Microplastics under simulated physiological conditions. Environmental Pollution 185: 16–23.	Contaminants	Chemicals	marine strategy framework directive; microplastic; hydrophobic organic compounds; desorption gut

Bakir A, Rowland SJ, Thompson RC. 2014. Transport of persistent organic pollutants by Microplastics in estuarine conditions. Estuarine, Coastal and Shelf Science 140: 14–21.	Contaminants	Chemicals	surfactant brackish waters; hydrophobic organic compounds; marine strategy framework directive; plastic particles; sorption
Botterell ZLR, Beaumont N, Dorrington T, Steinke M, Thompson RC, Lindeque PK. 2019. Bioavailability and effects of Microplastics on marine zooplankton: A review. Environmental Pollution 245: 98–110.	Biota	Review	plankton; microplastic; selectivity; marine litter; plastic pollution
Browne MA, Dissanayake A, Galloway TS, Lowe DM, Thompson RC. 2008. Ingested microscopic plastic translocates to the circulatory system of the mussel, *Mytilus edulis* (L.). Environmental Science and Technology 42: 5026–5031.	Biota	Bivalve	polystyrene (ps) microspheres
Catarino AI, Macchia V, Sanderson WG, Thompson RC, Henry TB. 2018. Low levels of Microplastics (MP) in wild mussels indicate that MP ingestion by humans is minimal compared to exposure via household fibres fallout during a meal. Environmental Pollution 237: 675–684.	Biota	Bivalve	microplastics; mussels; fibres; field assessment; airborne household dust
Catarino AI, Thompson R, Sanderson W, Henry TB. 2017. Development and optimization of a standard method for extraction of Microplastics in mussels by enzyme digestion of soft tissues. Environmental Toxicology and Chemistry 36: 947–951.	Biota	Bivalve	emerging pollutants; environmental toxicology; enzymatic digestion; Fourier Transform Infrared (ft-ir); microplastics; mussels;
Clark JR, Cole M, Lindeque PK, Fileman E, Blackford J, Lewis C, Lenton TM, Galloway TS. 2016. Marine Microplastic debris: a targeted plan for understanding and quantifying interactions with marine life. Frontiers in Ecology and the Environment 14: 317–324.	Biota	Review	no keywords listed
Cole M, Galloway TS. 2015. Ingestion of Nanoplastics and Microplastics by Pacific Oyster Larvae. Environmental Science & Technology 49: 14625–14632.	Biota	Bivalve	polyethylene beads
Cole M, Lindeque P, Fileman E, Halsband C, Galloway TS. 2015. The Impact of Polystyrene Microplastics on Feeding, Function and Fecundity in the Marine Copepod *Calanus helgolandicus*. Environmental Science & Technology 49: 1130–1137.	Biota	Zooplankton	polystyrene (ps) beads
Cole M, Lindeque P, Fileman E, Halsband C, Goodhead R, Moger J, Galloway TS.	Biota	Zooplankton	commercial polystyrene (ps)

2013. Microplastic ingestion by zooplankton. Environmental Science and Technology 47: 6646–6655.			spheres
Cole M, Lindeque P, Halsband C, Galloway TS. 2011. Microplastics as contaminants in the marine environment: A review. Marine Pollution Bulletin 62: 2588–2597.	Biota	Review	microplastics; marine litter; plastic debris; priority pollutant
Cole M, Lindeque PK, Fileman E, Clark J, Lewis C, Halsband C, Galloway TS. 2016. Microplastics Alter the Properties and Sinking Rates of Zooplankton Faecal Pellets. Environmental Science and Technology 50: 3239–3246.	Biota	Zooplankton	polystyrene (ps)
Cole M. 2016. A novel method for preparing Microplastic fibers. Scientific Reports 6: 1–7.	Technique	Sampling	no keywords listed
Coppock RL, Galloway TS, Cole M, Fileman ES, Queirós AM, Lindeque PK. 2019. Microplastics alter feeding selectivity and faecal density in the copepod, *Calanus helgolandicus*. Science of the Total Environment 687: 780–789.	Biota	Copepod	biological carbon pump; faecal pellet; marine pollution; plastic; sinking; zooplankton
Courtene-Jones W, Quinn B, Ewins C, Gary SF, Narayanaswamy BE. 2019. Consistent Microplastic ingestion by deep-sea invertebrates over the last four decades (1976–2015), a study from the North East Atlantic. Environmental Pollution 244: 503–512.	Biota	Invertebrates	microplastic; time series; deep sea; marine litter; long-term study
Courtene-Jones W, Quinn B, Murphy F, Gary SF, Narayanaswamy BE. 2017. Optimisation of enzymatic digestion and validation of specimen preservation methods for the analysis of ingested Microplastics. Analytical Methods 9: 1437–1445.	Biota	Bivalve	no keywords listed
Cunningham EM, Sigwart JD. 2019. Environmentally accurate Microplastic levels and their absence from exposure studies. Integrative and Comparative Biology 59: 1485–1496.	Review	Biota	no keywords listed
Devriese LI, van der Meulen MD, Maes T, Bekaert K, Paul-Pont I, Frère L, Robbens J, Vethaak AD. 2015. Microplastic contamination in brown shrimp (*Crangon crangon*, Linnaeus 1758) from coastal waters of the Southern North Sea and Channel area. Marine Pollution Bulletin 98: 179–187.	Biota	Decapod	microplastics; synthetic fibers; *Crangon crangon*; seafood; contamination
Furness RW. 1985. Plastic particle pollution: Accumulation by procellariiform seabirds at Scottish Colonies. Marine Pollution Bulletin 16: 103–106.	Biota	Bird	plastic pollution; arctic; human impact; Northern Fulmar; climate change
Galloway TS, Cole M, Lewis C. 2017. Interactions of Microplastic debris throughout the marine ecosystem. Nature Ecology and Evolution 1: 1–8.	Biota	Review	no keywords listed

Gouin T, Roche N, Lohmann R, Hodges G. 2011. A thermodynamic approach for assessing the environmental exposure of chemicals absorbed to Microplastic. Environmental Science and Technology 45: 1466–1472.	Contaminants	Chemicals	no keywords listed
Green DS, Boots B, O'Connor NE, Thompson R. 2017. Microplastics Affect the Ecological Functioning of an Important Biogenic Habitat. Environmental Science and Technology 51: 68–77.	Biota	Bivalve	Polylactic acid (PLA) and high density polyethylene (HDPE)
Green DS, Colgan TJ, Thompson RC, Carolan JC. 2019. Exposure to Microplastics reduces attachment strength and alters the haemolymph proteome of blue mussels (*Mytilus edulis*). Environmental Pollution 246: 423–434.	Biota	Bivalve	polylactic acid (pla) and high density polyethylene (hdpe); biodegradable; microplastics; tenacity; proteins; polylactic acid; polyethylene; immunity
Green DS. 2016. Effects of Microplastics on European flat oysters, *Ostrea edulis* and their associated benthic communities. Environmental Pollution 216: 95–103.	Biota	Bivalve	polylactic acid (PLA) and high density polyethylene (HDPE); plastic debris; marine litter; polylactic acid; polyethylene; *Ostrea edulis*; mesocosms; assemblages
Harris MP, Wanless S. 1994. Ingested elastic and other artifacts found in puffins in Britain over a 24-year period. Marine Pollution Bulletin 28: 54–55.	Biota	Bird	no keywords listed
Hermsen E, Pompe R, Besseling E, Koelmans AA. 2017. Detection of low numbers of Microplastics in North Sea fish using strict quality assurance criteria. Marine Pollution Bulletin 122: 253–258.	Biota	Fish	analytical method; fish; ingestion; miroplastics; quality assurance
Hodgson DJ, Bréchon AL, Thompson RC. 2018. Ingestion and fragmentation of plastic carrier bags by the amphipod *Orchestia gammarellus*: Effects of plastic type and fouling load. Marine Pollution Bulletin 127: 154–159.	Biota	Zooplankton	High density polyethylene (HDPE), degradable and biodegradable plastics; microplastic; biofouling; single-use carrier bags; polyethylene; litter; polymers
Horton AA, Jürgens MD, Lahive E, van Bodegom PM, Vijver MG. 2018. The influence of exposure and physiology on Microplastic ingestion by the freshwater fish *Rutilus rutilus* (roach) in the River Thames, UK. Environmental Pollution 236: 188–194.	Effect	Toxicology	plastic pollution; fibres; uptake; exposure; RAMAN
Hurley RR, Woodward JC, Rothwell JJ. 2017. Ingestion of Microplastics by	Substrate	Sediment	no keywords listed

Freshwater Tubifex Worms. Environmental Science & Technology 51: 12844–12851.			
Koelmans AA, Bakir A, Burton GA, Janssen CR. 2016. Microplastic as a Vector for Chemicals in the Aquatic Environment: Critical Review and Model-Supported Reinterpretation of Empirical Studies. Environmental Science & Technology 50: 3315–3326.	Contaminants	Review	no keywords listed
Li J, Green C, Reynolds A, Shi H, Rotchell JM. 2018. Microplastics in mussels sampled from coastal waters and supermarkets in the United Kingdom. Environmental Pollution 241: 35–44.	Biota	Bivalve	*Mytilus*; microplastics; shellfish; human consumption
Lobelle D, Cunliffe M. 2011. Early microbial biofilm formation on marine plastic debris. Marine Pollution Bulletin 62: 197–200.	Biota	Microorganism	biofilm; plastic debris; polyethylene; pollution; bacteria
Lusher AL, Hernandez-Milian G, O'Brien J, Berrow S, O'Connor I, Officer R. 2015. Microplastic and macroplastic ingestion by a deep diving, oceanic cetacean: The True's beaked whale *Mesoplodon mirus*. Environmental Pollution 199: 185–191.	Biota	Marine Mammals	Atlantic ocean; marine pollution; plastic debris; True's Beaked Whale; microplastics
Lusher AL, McHugh M, Thompson RC. 2013. Occurrence of Microplastics in the gastrointestinal tract of pelagic and demersal fish from the English Channel. Marine Pollution Bulletin 67: 94–99.	Biota	Fish	marine debris; plastic; feeding; ft-ir; polymer
McGoran AR, Clark PF, Morritt D. 2017. Presence of Microplastic in the digestive tracts of European flounder, *Platichthys flesus*, and European smelt, *Osmerus eperlanus*, from the River Thames. Environmental Pollution 220: 744–751.	Biota	Fish	fibres; microplastics; *Osmerus eperlanus*; *Platichthys flesus*; River Thames; United Kingdom
McGoran AR, Clark PF, Morritt D. 2017. Presence of Microplastic in the digestive tracts of European flounder, *Platichthys flesus*, and European smelt, *Osmerus eperlanus*, from the River ThamesEnvironmental Pollution 220: 744–751.	Biota	Fish	*Platichthys flesus*; *Osmerus eperlanus*; River Thames; microplastics; fibres; United Kingdom
McGoran AR, Cowie PR, Clark PF, McEvoy JP, Morritt D. 2018. Ingestion of plastic by fish: A comparison of Thames Estuary and Firth of Clyde populations. Marine Pollution Bulletin 137: 12–23.	Biota	Fish	microplastics; microfibres; Thames Estuary; Firth of Clyde fish populations; FTIR spectroscopy
Muller-Karanassos C, Turner A, Arundel W, Vance T, Lindeque PK, Cole M. 2019. Antifouling paint particles in intertidal estuarine sediments from	Biota	Invertebrates	antifouling paint particles; microplastic; estuarine

southwest England and their ingestion by the harbour ragworm, *Hediste diversicolor*. Environmental Pollution 249: 163–170.			sediment; copper; zinc; benthic organisms
Murphy F, Russell M, Ewins C, Quinn B. 2017. The uptake of macroplastic & microplastic by demersal & pelagic fish in the Northeast Atlantic around Scotland. Marine Pollution Bulletin 122: 353–359.	Biota	Fish	macroplastic; microplastics; fish; ingestion; Northeast Atlantic
Murray F, Cowie PR. 2011. Plastic contamination in the decapod crustacean *Nephrops norvegicus* (Linnaeus, 1758). Marine Pollution Bulletin 62: 1207–1217.	Biota	Decapod	*Nephrops*; Clyde Sea; stomach contents; plastic filaments; fishing waste
Nelms SE, Barnett J, Brownlow A, Davison NJ, Deaville R, Galloway TS, Lindeque PK, Santillo D, Godley BJ. 2019. Microplastics in marine mammals stranded around the British coast: ubiquitous but transitory? Scientific Reports 9: 1–8.	Biota	Marine Mammals	no keywords listed
Nelms SE, Galloway TS, Godley BJ, Jarvis DS, Lindeque PK. 2018. Investigating Microplastic trophic transfer in marine top predators. Environmental Pollution 238: 999–1007.	Biota	Seal	marine mammal; microplastic; plastic; pollution; trophic transfer
O'Hanlon NJ, Bond AL, Lavers JL, Masden EA, James NA. 2019. Monitoring nest incorporation of anthropogenic debris by Northern Gannets across their range. Environmental Pollution 255: 113152.	Biota	Bird	marine; nesting material; plastics; pollution; seabird; sentinel species; Sulidae
O'Hanlon NJ, James NA, Masden EA, Bond AL. 2017. Seabirds and marine plastic debris in the northeastern Atlantic: A synthesis and recommendations for monitoring and research. Environmental Pollution 231: 1291–1301.	Review	Bird spp.	no keywords listed
Smith LE. 2018. Plastic ingestion by *Scyliorhinus canicula* trawl captured in the North Sea. Marine Pollution Bulletin 130: 6–7.	Biota	Fish	microplastic; ingestion; pollution; *Scyliorhinus canicula*
Steer M, Cole M, Thompson RC, Lindeque PK. 2017. Microplastic ingestion in fish larvae in the western English Channel. Environmental Pollution 226: 250–259.	Biota	Fish	plastic debris; zooplankton; ft-ir; coastal fisheries
Thompson RC. 2017. Future of the Sea: Plastic Pollution. Foresight, Government Office for Science	Review	Governance	no keywords listed
Turner A, Lau KS. 2016. Elemental concentrations and bioaccessibilities in beached plastic foam litter, with particular reference to lead in polyurethane. Marine Pollution Bulletin 112: 265–270.	Contaminants	Chemicals	plastics; polyurethane; foams; seabirds; lead; flame retardants
Turner A, Wallerstein C, Arnold R, Webb D. 2019. Marine pollution from	Contaminants	Chemicals	pyroplastic; plastiglomerates;

pyroplastics. Science of the Total Environment 694: 133610.			marine litter; weathering; XRF; lead
Turner A. 2016. Heavy metals, metalloids and other hazardous elements in marine plastic litter. Marine Pollution Bulletin journal 111: 136–142.	Contaminants	Chemicals	marine plastic; FP-XRF; ropes; foams; heavy metals; flame retardants
Votier SC, Archibald K, Morgan G, Morgan L. 2011. The use of plastic debris as nesting material by a colonial seabird and associated entanglement mortality. Marine Pollution Bulletin 62: 168–172.	Biota	Bird	entanglement; marine debris; plastic pollution; seabirds; nesting; Northern Gannet; *Morus bassanus*
Watts AJR, Lewis C, Goodhead RM, Beckett SJ, Moger J, Tyler CR, Galloway TS. 2014. Uptake and retention of Microplastics by the shore crab C*arcinus maenas*. Environmental Science and Technology 48: 8823–8830	Biota	Decapod	polystyrene (ps) microspheres
Welden NA, Abylkhani B, Howarth LM. 2018. The effects of trophic transfer and environmental factors on Microplastic uptake by plaice, *Pleuronectes plastessa*, and spider crab, *Maja squinado*. Environmental Pollution 239: 351–358.	Biota	Fish	fishing; pollution; plastic; particles; food web; Sand Eel
Welden NA, Cowie PR. 2017. Degradation of common polymer ropes in a sublittoral marine environment. Marine Pollution Bulletin 118: 248–253.	Technique	Sampling	microplastic; microfibre; marine pollution; biofouling; tensile strength; fragmentation
Welden NAC, Cowie PR. 2016. Environment and gut morphology influence Microplastic retention in langoustine, *Nephrops norvegicus*. Environmental Pollution 214: 859–865.	Biota	Decapod	microplastic; pollution; monitoring; Decapoda
Welden NAC, Cowie PR. 2016. Long-term Microplastic retention causes reduced body condition in the langoustine, *Nephrops norvegicus*. Environmental Pollution 218: 895–900.	Effect	Biological	microplastic; nutrition; *Nephrops norvegicus*; feeding rate
Windsor FM, Tilley RM, Tyler CR, Ormerod SJ. 2019b. Microplastic ingestion by riverine macroinvertebrates. Science of the Total Environment 646: 68–74.	Biota	Invertebrates	biomonitoring; invertebrates; pollution; plastic; rivers

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Societal Impacts

Lee J. 2015. Economic valuation of marine litter and Microplastic pollution in the marine environment: An initial assessment of the case of the United Kingdom. Discussion Paper 1–16.	Governance	Governance	economic valuation; marine litter; microplastics; environmental status; control

			measures
McNicholas G, Cotton M. 2019. Stakeholder perceptions of marine plastic waste management in the United Kingdom. Ecological Economics 163: 77–87.	Governance	Knowledge	no keywords listed
Wyles KJ, Pahl S, Carroll L, Thompson RC. 2019. An evaluation of the Fishing For Litter (FFL) scheme in the UK in terms of attitudes, behavior, barriers and opportunities. Marine Pollution Bulletin 144: 48–60.	Governance	Knowledge	passive fishing for litter; fishing industry; behavior change; spillover; motivations; debris

Sources Distribution and Trend

Anderson ZT, Cundy AB, Croudace IW, Warwick PE, Celis-hernandez O, Stead JL. 2018. A rapid method for assessing the accumulation of Microplastics in the sea surface microlayer (SML) of estuarine systems. Scientific Reports 1–11	Substrate	Water	no keywords listed
Balas CE, Williams AT, Simmons SL, Ergin A. 2001. A statistical riverine litter propagation model. Marine Pollution Bulletin 42: 1169–1176.	Substrate	Water	litter; plastics; simulation model; stranding probability; river taff; Wales
Blair RM, Waldron S, Gauchotte-Lindsay C. 2019. Average daily flow of Microplastics through a tertiary wastewater treatment plant over a ten-month period. Water Research 163: 114909.	Governance	WWTP	microplastic pollution; wwtp; sewage; effluent discharge; ftir-atr
Blair RM, Waldron S, Phoenix VR, Gauchotte-Lindsay C. 2019. Microscopy and elemental analysis characterisation of Microplastics in sediment of a freshwater urban river in Scotland, UK. Environmental Science and Pollution Research 26: 12491–12504.	Substrate	Sediment	microplastic; emerging contaminants; freshwater; electron microscopy; fibres
Blumenröder J, Sechet P, Kakkonen JE, Hartl MGJ. 2017. Microplastic contamination of intertidal sediments of Scapa Flow, Orkney: A first assessment. Marine Pollution Bulletin 124: 112–120.	Substrate	Beach	microplastic; intertidal sediment
Browne MA, Galloway TS, Thompson RC. 2010. Spatial patterns of plastic debris along estuarine shorelines. Environmental Science and Technology 44: 3404–3409.	Substrate	Beach	no keywords listed
Burns EE, Boxall ABA. 2018. Microplastics in the Aquatic Environment: Evidence for or Against Adverse Impacts and Major Knowledge Gaps. Environmental Toxicology and Chemistry 37: 2776–2796.	Review	Governance	microplastics; persistent organic pollutants; risk; species sensitivity distribution
Caulton E, Mocogni M. 1987. Preliminary studies of man-made litter in the Firth of Forth, Scotland. Marine Pollution Bulletin 18: 446–450.	Substrate	Beach	no keywords listed

Courtene-Jones W, Quinn B, Gary SF, Mogg AOM, Narayanaswamy BE. 2017. Microplastic pollution identified in deep-sea water and ingested by benthic invertebrates in the Rockall Trough, North Atlantic Ocean. Environmental Pollution 231: 271–280.	Substrate	Sediment	no keywords listed
Gallagher A, Rees A, Rowe R, Stevens J, Wright P. 2016. Microplastics in the Solent estuarine complex, UK: An initial assessment. Marine Pollution Bulletin 102: 243–249.	Substrate	Water	microplastics; plankton trawls; Fourier transform infrared spectroscopy (FTIR); estuarine complex
Holmes LA, Turner A, Thompson RC. 2012. Adsorption of trace metals to plastic resin pellets in the marine environment. Environmental Pollution 160: 42–48.	Substrate	Beach	plastic pellets; trace metals; adsorption; kinetics; seawater
Horton AA, Svendsen C, Williams RJ, Spurgeon DJ, Lahive E. 2017. Large Microplastic particles in sediments of tributaries of the River Thames, UK – Abundance, sources and methods for effective quantification. Marine Pollution Bulletin 114: 218–226.	Substrate	Sediment	microplastics; freshwater; sediment; sources; pollution; RAMAN
Hurley R, Woodward J, Rothwell JJ. 2018. Microplastic contamination of river beds significantly reduced by catchment-wide flooding. Nature Geoscience 11: 251–257.	Substrate	Sediment	no keywords listed
Kartar S, Abou-Seedo F, Sainsbury M. 1976. Polystyrene spherules in the Severn Estuary - A progress report. Marine Pollution Bulletin 7: 52.	Substrate	Water, Sediment	
Kay P, Hiscoe R, Moberley I, Bajic L, McKenna N. 2018. Wastewater treatment plants as a source of Microplastics in river catchments Environmental Science and Pollution Research 25: 20264–20267.	Governance	WWTP	microplastics; emerging contaminants; rivers; water quality; pollution; wastewater
Lusher AL, Burke A, Connor IO, Officer R. 2014. Microplastic pollution in the Northeast Atlantic Ocean: Validated and opportunistic sampling. Marine Pollution Bulletin 88: 325–333.	Substrate	Water	plastic; fibres; sub-surface; neuston; continuous monitoring
Marine Conservation Society. 2012. Beachwatch Big Weekend 2012.	Governance	Action	no keywords listed
Marine Conservation Society. 2015. Great British Beach Clean 2014 report.	Governance	Action	no keywords listed
Marine Conservation Society. 2015. Great British beach clean 2015 report.	Governance	Action	no keywords listed
Marine Conservation Society. 2016. Great British beach clean 2016 report.	Governance	Action	no keywords listed
Marine Conservation Society. 2017. Great British beach clean 2017 report.	Governance	Action	no keywords listed
Marine Conservation Society. 2018. Great British beach clean 2018 report.	Governance	Action	no keywords listed
Marine Conservation Society. 2019. Great British beach clean 2019 report.	Governance	Action	no keywords listed

Martin J, Lusher A, Thompson RC, Morley A. 2017. The Deposition and Accumulation of Microplastics in Marine Sediments and Bottom Water from the Irish Continental Shelf. Scientific Reports 7: 1–9.	Substrate	Sediment	no keywords listed
Meng Y, Kelly FJ, Wright SL. 2020. Advances and challenges of Microplastic pollution in freshwater ecosystems: A UK perspective. Environmental Pollution 256: 113445.	Technique	Review	microplastics; freshwater; pollution; UK
Morris AW, Hamilton EI. 1974. Polystyrene Spherules in the Bristol Channel. Marine Pollution Bulletin 5: 26–27.	Substrate	Water, Sediment	
Morritt D, Stefanoudis P V., Pearce D, Crimmen OA, Clark PF. 2014. Plastic in the Thames: A river runs through it. Marine Pollution Bulletin 78: 196–200.	Substrate	Water	estuary; fyke-nets; plastics; River Thames; sanitary products; United Kingdom
Murphy F, Ewins C, Carbonnier F, Quinn B. 2016. Wastewater Treatment Works (WwTW) as a Source of Microplastics in the Aquatic Environment. Environmental Science and Technology 50: 5800–5808.	Governance	WWTP	no keywords listed
Nelms SE, Coombes C, Foster LC, Galloway TS, Godley BJ, Lindeque PK, Witt MJ. 2017. Marine anthropogenic litter on British beaches: A 10-year nationwide assessment using citizen science data. Science of the Total Environment 579: 1399–1409.	Substrate	Beach	marine anthropogenic litter; citizen science; beach clean; plastic pollution; temporal trend; spatial pattern
Nizzetto L, Bussi G, Futter MN, Butterfield D, Whitehead PG. 2016. A theoretical assessment of Microplastic transport in river catchments and their retention by soils and river sediments. Environmental Science: Processes and Impacts 18: 1050–1059.	Substrate	Water	no keywords listed
Quilliam RS, Jamieson J, Oliver DM. 2014. Seaweeds and plastic debris can influence the survival of faecal indicator organisms in beach environments. Marine Pollution Bulletin 84: 201–207.	Substrate	Beach	beach grooming; FIO; revised bathing water directive (RWBP); waterborne pathogens; wrack
Rees G, Pond K. 1995. Marine Litter Monitoring Programmes-A Review of Methods with Special Reference to National Surveys. Marine Pollution Bulletin 30: 103–108.	Substrate	Beach	no keywords listed
Rodrigues A, Oliver DM, McCarron A, Quilliam RS. 2019. Colonisation of plastic pellets (nurdles) by *E. coli* at public bathing beaches. Marine Pollution Bulletin 139: 376–380.	Substrate	Beach	bathing water directive; marine plastic debris; plastic pollution; plastisphere; public health
Sadri SS, Thompson RC. 2014. On the quantity and composition of floating plastic debris entering and leaving the Tamar Estuary, Southwest England.	Substrate	Water	marine debris; riverine litter; microplastic; plastic; tidal;

Marine Pollution Bulletin 81: 55–60.			Tamar River
Turner A, Wallerstein C, Arnold R. 2019. Identification, origin and characteristics of bio-bead Microplastics from beaches in western Europe. Science of the Total Environment 664: 938–947.	Substrate	Beach	marine microplastics; pre-production pellets; bio-beads; water treatment; heavy metals; bromine
Turner A. 2017. Trace elements in fragments of fishing net and other filamentous plastic litter from two beaches in SW England. Environmental Pollution 224: 722–728.	Substrate	Beach	filamentous plastic litter; fishing gear; fp-xrf; heavy metals; bromine; seabirds
Turrell WR. 2018. A simple model of wind-blown tidal strandlines: How marine litter is deposited on a mid-latitude, macro-tidal shelf sea beach. Marine Pollution Bulletin 137: 315–330.	Substrate	Beach	marine plastics; beach litter; strandlines; survey design; marine strategy framework directive; descriptor 11
Turrell WR. 2019. Spatial distribution of foreshore litter on the northwest European continental shelf. Marine Pollution Bulletin 142: 583–594.	Substrate	Beach	beach litter; spatial variation; northwest European shelf; monitoring; indicators
Unger A, Harrison N. 2016. Fisheries as a source of marine debris on beaches in the United Kingdom. Marine Pollution Bulletin 107: 52–58.	Substrate	Beach	marine litter; plastic debris; beach survey; MARPOL; fishing; UK
Vaughan R, Turner SD, Rose NL. 2017. Microplastics in the sediments of a UK urban lake. Environmental Pollution 229: 10–18.	Substrate	Sediment	lake sediments; litter; microplastics; plastics; urban lake
Velander KA, Mocogni M. 1998. Maritime litter and sewage contamination at Cramond Beach Edinburgh - A comparative study. Marine Pollution Bulletin 36: 385–389.	Governance	WWTP	no keywords listed
Watts AJR, Porter A, Hembrow N, Sharpe J, Galloway TS, Lewis C. 2017. Through the sands of time: Beach litter trends from nine cleaned north cornish beaches. Environmental Pollution 228: 416–424.	Governance	Knowledge	marine litter; plastic; fishing litter; tourism; un-sourced litter
Williams AT, Randerson P, Alharbi OA. 2014. From a millennium baseline to 2012: Beach litter changes in Wales. Marine Pollution Bulletin 84: 17–26.	Substrate	Beach	beach litter; Wales; public recreation; Markov model
Williams AT, Simmons SL. 1999. Sources of riverine litter: The river Taff, South Wales, UK. Water, Air, and Soil Pollution 112: 197–216.	Substrate	Water	fly tipping; riverine litter; sewage; sources
Windsor FM, Durance I, Horton AA, Thompson RC, Tyler CR, Ormerod SJ. 2019. A catchment-scale perspective of plastic pollution. Global Change Biology	Substrate	Catchment	ecological risk; ecotoxicology; macroplastic; microplastic;

25: 1207–1221.			pollution; river basin
Zalasiewicz J, Waters C, Williams M, Aldridge DC, Wilkinson IP. 2018. The stratigraphical signature of the Anthropocene in England and its wider context. Proceedings of the Geologists' Association 129: 482–491.	Physical Process	Geology	Anthropocene; stratigraphy; neobiota

China

Culture Sustainability Future

A preliminary study on the prevention and control of Marine Microplastics pollution **李**莹莹. **海洋微塑料**污染防治法律问题初探[J]. **西安**电子科技大学学报(**社会科学版**), 2018, v.28；No.130(01):74-80.	Governance	Management	no english keywords listed
Brief analysis of Marine treatment system for plastic and Microplastic pollution**王菊英**, **林新珍**. 应对塑料及微塑料污染的海洋治理体系浅析[J]. **太平洋学**报, 2018, v.26(04):83-91.	Technique	Management	no english keywords listed
Development trend and existing problems of Marine Microplastic pollution research**李道季**, **朱礼鑫**, **常思**远, et al. **海洋微塑料**污染研究发展态势及存在问题[J]. 华东师范大学学报(**自然科学版**), 2019, 2019(3):174-185.	Review	Substrate	no english keywords listed
Ge Z, Shi H, Mei X, Dai Z, Li D. 2016. Semi-automatic recognition of marine debris on beaches. Scientific Reports 6: 1–9.	Technique	LIDAR	no keywords listed
Marine Microplastic pollution and its prevention and control**麻耘豪**. **海洋微塑料**污染及其防治[J]. **当代化工研究**, 39(03):16-17.	Governance	Management	no english keywords listed
Microplastic pollution in freshwater environment and watershed control strategies in China**吴辰熙**, **潘响亮**, **施**华宏, et al. **我国淡水**环境微塑料污染与流域管控策略[J]. **中国科学院院刊**, 2018, 33(10):16-24.	Governance	Management	no english keywords listed
Pay attention to the coastal and Marine Microplastic pollution to strengthen the prevention and control of science and technology research**章海波**[1,2],	Technique	Management	no english keywords listed

周倩[1,2], 周阳[1,2], et al. 重视海岸及海洋微塑料污染加强防治科技监管研究工作[J]. 中国科学院院刊, 2016(31):1189.			
Research status and countermeasures of Marine Microplastics analysis methods吴立锋. 海洋微塑料分析方法研究现状及其应对措施[J]. 环境科学与技术(05).	Technique	Sampling	no english keywords listed
Study on Marine Microplastic Pollution and Marine ecological environment management王亭玉.海洋微塑料污染及海洋生态环境治理研究.牡丹江大学学报,2018,27(3):37-39.	Governance	Management	no english keywords listed
Study on Marine plastics and Microplastics management legislation张嘉戌, 柳青, 张承龙, et al. 海洋塑料和微塑料管理立法研究[J]. 海洋环境科学, 38(2).	Governance	Management	no english keywords listed
The pollution hazard of Microplastics in coastal zone system in China and its countermeasures许旺, 梁鸿, 马嵩, et al. 我国海岸带系统微塑料污染危害及治理对策[J]. 环境与可持续发展, 2018, v.43;No.688(02):23-28.	Technique	Management	no english keywords listed
The pollution of Marine Microplastics and its countermeasures李道季. 海洋微塑料污染状况及其应对措施建议[J]. 环境科学研究, 2019, 32(02):21-26.	Governance	Management	no english keywords listed
Truong N Van, BeiPing C. 2019. Plastic marine debris: sources, impacts and management. International Journal of Environmental Studies 76: 953–973.	Governance	Governance	plastic waste; annex v MARPOL 73/78 marine pollution

Environmental Interaction Impact

Accumulation of plastic microparticles of different sizes in the gill tissues of Zebra Fish and their effects on anthracene toxicity 蔡亚云,赵佳玥,李文锋,宋文娟,张道勇,潘响亮.不同粒径塑料微颗粒在斑马鱼腮组织中的积累及其对蒽毒性的影响.应用与环境生物学报,2017,23(6):1154-1158.	Effect	Toxicology	no english keywords listed

Adsorption behavior of antibiotics on Microplastics surface张凯娜. **抗生素在微塑料表面的吸附行**为研究[D].	Contaminants	Antibiotics	no english keywords listed
Adsorption of halogenated carbazole and artificial musk by Microplastics张晓军. **微塑料**对卤代咔唑和人工麝香的吸附研究[D].	Contaminants	Chemicals	no english keywords listed
Adsorption of organic pollutants by Microplastic particles and their effects on their bioavailability 张凯, 孙红文. **(可降解)微塑料**颗粒吸附有机污染物及对其生物有效性的影响[J]. 环境化学, 2018, v.37(03):5-12.	Contaminants	Chemicals	no english keywords listed
Advances in Marine Microplastics pollution and biodegradation **唐黎**标. **海洋微塑料**污染及生物降解研究进展[J]. **塑料包装**, 2019, 29(02):9-12.	Technique	Management	no english keywords listed
Advances in migration distribution, biological effects and analytical methods of Microplastics in the environment **王彤, 胡献**刚, **周启星**. 环境中微塑料的迁移分布、生物效应及分析方法的研究进展[J]. **科学通**报, 2018.	Technique	Chemicals	no english keywords listed
Advances in research on ecotoxicological effects of Microplastics on Marine organisms **薄**军, 陈梦云, **方超**, et al. **微塑料**对海洋生物生态毒理学效应研究进展[J]. 应用海洋学学报, 2018, 37(04):151-157.	Effect	Toxicology	no english keywords listed
Aquatic ecotoxicity and carrier effects of Microplastic pollution. 2018. 陈启晴, 杨守业, Henner, et al. **微塑料**污染的水生生态毒性与载体作用[J]. **生**态毒理学报, 2018.	Effect	Toxicology	no english keywords listed
Characteristics and spatial and temporal distribution of Microplastic pollutants in sediments from the mouth of Poyang Lake**李文**华, 简敏菲, **余厚平**, et al. **鄱阳湖"五河"入湖口沉**积物中微塑料污染物的特征及其时空分布[J]. **湖泊科学**, 31(2).	Substrate	Sediment	no english keywords listed

Characteristics of lake Microplastics pollution and its adsorption behavior with phenanthrene and pyrene in central China**王文**锋. 华中地区湖泊微塑料污染特征及其与菲、芘的吸附行为研究[D].	Contaminants	Chemicals	no english keywords listed
Cheng Z, Li H, Yu L, Yang Z, Xu X, Wang H, Wong M-H. 2018. Phthalate esters distribution in coastal mariculture of Hong Kong, China. Environmental Science and Pollution Research 25: 17321–17329.	Contaminants	Plastisizers	mariculture; sediment; cultured fish; phthalate esters; risk assessment;
Current situation of Marine Microplastics pollution and its ecotoxicological effects on Fish**武芳竹**, **曾江宁**, **徐**晓群, et al. **海洋微塑料**污染现状及其对鱼类的生态毒理效应[J]. **海洋学**报, 2019, 41(02):89-102.	Effect	Toxicology	no english keywords listed
Current status of Microplastic pollution and its impact on Marine life**殷岑**, **魏梦碧**, **刘会会**. **微塑料**污染现状及对海洋生物影响的研究进展[J]. 环境监控与预警, 2018, 10(06):5-15.	Effect	Toxicology	no english keywords listed
Di M, Liu X, Wang W, Wang J. 2018. Manuscript prepared for submission to Environmental Toxicology and Pharmacology Pollution in drinking water source areas: Microplastics in the Danjiangkou Reservoir, China. Environmental Toxicology and Pharmacology 65: 82–89.	Substrate	Water, Sediment	abundance; microplastic; pollutant; sediment; water sources
Ding J, Jiang F, Li J, Wang Z, Sun C, Wang Z, Fu L, Ding NX, He C. 2019. Microplastics in the Coral Reef Systems from Xisha Islands of South China Sea. Environmental Science & Technology 53: 8036−8046 Article.	Biota	Coral	no keywords listed
Ding J, Li J, Sun C, He C, Jiang F, Gao F, Zheng L. 2018. Separation and Identification of Microplastics in Digestive System of Bivalves. Chinese Journal of Analytical Chemistry 46: 690–697.	Biota	Bivalve	bivalves; digestive system; infrared spectroscopy; microplastic; microplastic pollution
Distribution characteristics of Microplastics in the ocean and their effects on living things张霭琦. **微塑料在海洋中的分布特征及**对生物的影响[J]. 资源节约与环保, 2018, 205(12):142-143.	Physical Process	Ocean	no english keywords listed
Distribution of Microplastics in the East China Sea and Yellow Sea and their accumulation in zooplankton**刘涛**.	Biota	Zooplankton	no english keywords listed

微塑料在黄东海的分布及其在浮游动物体内累积的研究[D]. 2017.			
Ecological effects of Marine Microplastics as biological carriers**何蕾, 黄芳娟, 殷克**东. **海洋微塑料作**为生物载体的生态效应[J]. 热带海洋学报, 2018, 37(4).	Contaminants	Plastisizers	no english keywords listed
Effect of Microplastic particles on immune gene expression of rainbow trout**曹露, 李永, 梁瑞峰**, et al. **微塑料**颗粒对虹鳟免疫基因表达**的影响**[J]. 环境科学学报, 2018, v.38(08):395-400.	Effect	Toxicology	no english keywords listed
Environmental Behavior and Ecological Effects of Microplastics in the 0cean**李富云**,贾芳丽,**涂海峰**,孙翠竹,**李**锋民.**海洋中微塑料的**环境行为和生态影响.**生**态毒理学报,2017,12(6):11-18.	Effect	Toxicology	no english keywords listed
Feng Z, Zhang T, Li Y, He X, Wang R, Xu J, Gao G. 2019. The accumulation of Microplastics in fish from an important fish farm and mariculture area, Haizhou Bay, China. Science of the Total Environment 696: 1–10.	Biota	Fish	Haizhou Bay; marine animals; microplastics; non-digestive tissues; pollution; scaleless fish
Fok L, Cheng NYI, Yeung Y. 2019a. Mismanaged Plastic Waste : Far Side of the Moon. Pages 1–14 in So WWM, Chow CF, and Lee JCK, eds. Environmental Sustainability and Education for Waste Management. Springer Singapore.	Review	Governance	marine debris; microplastics; waste management; education; preventive strategies
Fu Z, Wang J. 2019. Current practices and future perspectives of Microplastic pollution in freshwater ecosystems in China. Science of the Total Environment 691: 697–712.	Technique	Review	biota; China; freshwater; microplastics; sediment
Huang J-S, Koongolla JB, Li H-X, Lin L, Pan Y-F, Liu S, He W-H, Maharana D, Xu X-R. 2019. Microplastic accumulation in fish from Zhanjiang mangrove wetland, South China. Science of the Total Environment 134839.	Biota	Fish	microplastics; ingestion; accumulation; fish; mangrove
Jabeen K, Su L, Li J, Yang D, Tong C, Mu J, Shi H. 2017. Microplastics and mesoplastics in fish from coastal and fresh waters of China. Environmental Pollution 221: 141–149.	Biota	Fish	fish; ingestion; marine debris; mesoplastics; microplastics
Jiang P, Zhao S, Zhu L, Li D. 2018b. Microplastic-associated bacterial assemblages in the intertidal zone of the Yangtze Estuary. Science of the Total Environment 624: 48–54.	Biota	Microorganism	plastic marine debris; microplastic; 16s rRNA; plastisphere; pathogens; China
Li H, La Guardia MJ, Liu H, Hale RC, Mainor TM, Harvey E, Sheng G, Fu J. 2019a. Brominated and organophosphate flame retardants along a sediment transect encompassing the Guiyu, China e-waste recycling zone. Science of	Substrate	Sediment	circuit board; flame retardants; polymer additive; risk characterization; source

the Total Environment 646: 58–67.			attribution
Li H, Ma L, Lin L, Ni Z, Xu X, Shi H, Yan Y, Zheng G, Rittschof D. 2018a. Microplastics in oysters *Saccostrea cucullata* along the Pearl River. Environmental Pollution 236: 619–625.	Biota	Bivalve	microplastics; oyster; estuary
Li J, Qu X, Su L, Zhang W, Yang D, Kolandhasamy P, Li D, Shi H. 2016. Microplastics in mussels along the coastal waters of China. Environmental Pollution 214: 177–184.	Biota	Bivalve	biomonitoring; microplastic; mussels; seafood
Li J, Yang D, Li L, Jabeen K, Shi H. 2015. Microplastics in commercial bivalves from China. Environmental Pollution 207: 190–195.	Biota	Bivalve	microplastic; bivalve; seafood; human health
Li W, Zhang Y, Wu N, Zhao Z, Xu W, Ma Y, Niu Z. 2019. Colonization Characteristics of Bacterial Communities on Plastic Debris Influenced by Environmental Factors and Polymer Types in the Haihe Estuary of Bohai Bay, China. Environmental Science & Technology 53: 10763–10773.	Biota	Microorganism	no keywords listed
Luo H, Xiang Y, He D, Li Y, Zhao Y, Wang S, Pan X. 2019. Leaching behavior of fluorescent additives from Microplastics and the toxicity of leachate to *Chlorella vulgaris*. Science of the Total Environment 678: 1–9.	Biota	Microorganism	additives; ecotoxicology; leaching behavior; microalgae; microplastics
Many kinds of Microplastics are found in the atmospheric environment of coastal cities and their deposition fluxes[1]**周倩**,**田崇国**,骆永明.滨海城市大气环境中发现多种微塑料及其沉降通量差异.**科学通**报,2017,62(33):3902-3909.	Substrate	Atmospheric	no english keywords listed
Microplastics and their ecological effects in water environment陈彪, **汪羚**, **李达**, et al. **水**环境中的微塑料及其生态效应[J]. **生**态毒理学报, 2019(1):30-40.	Effect	Biological	no english keywords listed
Microplastics in the environment and their effects on human health张思梦, 查金, **孟**伟, et al. 环境中的微塑料及其对人体健康的影响[J]. **中国塑料**, 2019, 33(04):85-92.	Governance	Governance	no english keywords listed
Migration, transformation and environmental effects of Microplastics in terrestrial water environment**刘治君**, 杨凌肖, **王**琼, et al. **微塑料在**陆地水环境中的迁移转化与环境效应[J]. 环境科学与技术, 2018, v.41(04):66-72+97.	Substrate	Water	no english keywords listed

Mohsen M, Wang Q, Zhang L, Sun L, Lin C, Yang H. 2019. Microplastic ingestion by the farmed sea cucumber *Apostichopus japonicus* in China. Environmental Pollution 245:1071–8. Available from: https://doi.org/10.1016/j.envpol.2018.11.083	Biota	Echinoderm	sea cucumber; microplastics ingestion; deposit feeder; coelomic fluid; sediment
Ng CKY, Ang PO, Russell DJ, Balazs GH, Murphy MB. 2016. Marine Macrophytes and Plastics Consumed by Green Turtles (*Chelonia mydas*) in Hong Kong, South China Sea Region. Chelonian Conservation and Biology 15: 289–292.	Biota	Turtle	no keywords listed
Nie H, Wang J, Xu K, Huang Y, Yan M. 2019. Microplastic pollution in water and fish samples around Nanxun Reef in Nansha Islands, South China Sea. Science of the Total Environment 696: 1–7.	Biota	Fish	microplastic; microbeads; surface water; fish; Nansha Islands
Pollution and ecological effects of Marine Microplastics谢弘晟. **海洋微塑料的**污染及生态效应[J]. 资源节约与环保, 2018(12).	Effect	Toxicology	no english keywords listed
Qu X, Su L, Li H, Liang M, Shi H. 2018. Assessing the relationship between the abundance and properties of Microplastics in water and in mussels. Science of the Total Environment 621: 679–686.	Biota	Bivalve	accumulation; man-made fiber; marine environment; microplastic; mussel
Research advances on ecological effects of Microplastic pollution in the marine environment**刘强**, **徐旭丹**, **黄**伟, et al. **海洋微塑料**污染的生态效应研究进展[J]. **生**态学报, 2017, 37(22):7397-7409.	Effect	Toxicology	no english keywords listed
Research advances on the occurrence, sources and ecotoxicological effects of Microplastics in freshwater environment**丁**剑楠, 张闪闪, 邹华, et al. **淡水**环境中微塑料的赋存、来源和生态毒理效应研究进展[J]. **生**态环境学报, 2017(9).	Effect	Toxicology	no keywords listed
Research progress on adsorption behavior and biological effects of Microplastics**屈沙沙**, **朱会卷**, **刘**锋平, et al. **微塑料吸附行**为及对生物影响的研究进展[J]. 环境卫生学杂志, 2017(01):81-84.	Effect	Toxicology	no english keywords listed
Research progress on environmental behavior and ecological toxicity of Microplastics**刘沙沙**, **付建平**, **郭楚玲**, et al.	Review	Contaminants	no english keywords listed

微塑料的环境行为及其生态毒性研究进展[J]. 农业环境科学学报, 2019, 38(05):7-19.			
Research progress on the combined action of Microplastics and pollutants in water张鸳, 邹亚丹, **徐擎擎**, et al. **微塑料与水中**污染物的联合作用研究进展[J]. **海洋湖沼通**报, 2019, 167(02):61-71.	Review	Plastic	no english keywords listed
Research progress on the combined toxicity of Microplastics and pesticide pollution邹亚丹, **徐擎擎**, 张鸳, et al. **微塑料与**农药污染的联合毒性作用研究进展[J]. **生**态毒理学报, 2017, 12(4):25-33.	Effect	Toxicology	no english keywords listed
Research progress on toxic effects of Microplastics on microalgae**王素春**, **刘光洲**, 张欢, et al. **微塑料**对微藻的毒性效应研究进展[J]. **海洋**环境科学, 38(2).	Effect	Toxicology	no english keywords listed
Shen M, Zhang Y, Zhu Y, Song B, Zeng G, Hu D, Wen X, Ren X. 2019. Recent advances in toxicological research of nanoplastics in the environment: A review. Environmental Pollution 252: 511–521.	Review	Contaminants	humans; nanoplastics; organisms; toxic effects; toxicity assessment
Study on feeding process and influence of Microplastics on freshwater zooplankton**涂**烨楠, **凌海波**, **吴辰熙**, et al. **淡水浮游**动物摄食微塑料过程及影响研究[J]. 环境科学与技术, v.41(11):1-8.	Biota	Zooplankton	no english keywords listed
Study on Microplastic pollution in sediments and oysters in Huang-Bohai sea**冉文**. **黄渤海沉**积物和牡蛎体内微塑料污染现状研究[D].	Biota	Bivalve	no english keywords listed
Study on Microplastics enrichment characteristics of C*rassostrea gigas* in intertidal zone around Bohai sea**冉文**, **滕佳**, **刘永亮**, et al. 环渤海潮间带长牡蛎微塑料富集特征研究[J]. **海洋通**报, 2018, 37(05):106-113.	Biota	Bivalve	no english keywords listed
Study on pollution characteristics and correlation between coastal mussels and Microplastics in water bodies in China**曲**晓芸.	Biota	Bivalve	no english keywords listed

我国沿海贻贝与水体中微塑料的污染特征及其相关性研究[D].			
Su L, Cai H, Kolandhasamy P, Wu C, Rochman CM, Shi H. 2018. Using the Asian clam as an indicator of Microplastic pollution in freshwater ecosystems. Environmental Pollution 234: 347–355.	Biota	Bivalve	microplastic; freshwater; Asian clam; bioindicator; sediment
Su L, Deng H, Li B, Chen Q, Pettigrove V, Wu C, Shi H. 2019. The occurrence of Microplastic in specific organs in commercially caught fishes from coast and estuary area of east China. Journal of Hazardous Materials 365: 716–724.	Biota	Fish	blank control; east China; fish; microplastics; organs
Sun X, Li Q, Zhu M, Liang J, Zheng S, Zhao Y. 2016. Ingestion of microplastics by natural zooplankton groups in the northern South China Sea. Marine Pollution Bulletin 115: 217–224.	Biota	Zooplankton	encounter rate; ingestion; microplastics; northern region of the South China Sea; zooplankton
Sun X, Liang J, Zhu M, Zhao Y, Zhang B. 2018. Microplastics in seawater and zooplankton from the Yellow Sea. Environmental Pollution 242: 585–595.	Biota	Zooplankton	microplastics; zooplankton; the Yellow Sea; ecologically relevant metrics; repository
Sun X, Liu T, Zhu M, Liang J, Zhao Y, Zhang B. 2018. Retention and characteristics of Microplastics in natural zooplankton taxa from the East China Sea. Science of the Total Environment 640–641: 232–242.	Biota	Zooplankton	microplastics; retention; the East China Sea; zooplankton
Teng J, Wang Q, Ran W, Wu D, Liu Y, Sun S, Liu H, Cao R, Zhao J. 2019. Microplastic in cultured oysters from different coastal areas of China. Science of the Total Environment journal 653: 1282–1292.	Biota	Bivalve	microplastics; oyster; coastal area; uptake
The combined toxic effects of polystyrene Microplastics and polybrominated diphenyl ether on *Chlamys farreri*滕瑶. 聚苯乙烯微塑料和多溴联苯醚对栉孔扇贝的联合毒性效应[D].	Contaminants	Chemicals	no english keywords listed
Wang J, Wang M, Ru S, Liu X. 2019b. High levels of Microplastic pollution in the sediments and benthic organisms of the South Yellow Sea, China. Science of the Total Environment 651: 1661–1669.	Substrate	Sediment	microplastics; sediment; benthic organism; South Yellow Sea
Wang S, Xue N, Li W, Zhang D, Pan X, Luo Y. 2019. Selectively enrichment of antibiotics and ARGs by microplastics in river, estuary and marine waters. Science of the Total Environment 134594.	Contaminants	Antibiotics	antibiotics; args; bacterial community; microplastics; salinity
Wang W, Gao H, Jin S, Li R, Na G. 2019. The ecotoxicological effects of Microplastics on aquatic food web, from primary producer to human: A review. Ecotoxicology and Environmental Safety 173: 110–117.	Effect	Toxicology	aquatic biota; associated contaminants; ecotoxicological effects; human health;

Wang W, Liu H, Chen F, Xia J. 2019. Research on ecotoxicology of Microplastics on freshwater aquatic organisms. Environmental Pollutants and Bioavailability 31: 131–137.	Review	Toxicology	microplastics microplastics; aquatic; aquatic organisms; ecotoxicology; environments; freshwater; freshwater environments; microplastics; organisms
Wang Z, Chen M, Zhang L, Wang K, Yu X, Zheng Z, Zheng R. 2018. Sorption behaviors of phenanthrene on the Microplastics identified in a mariculture farm in Xiangshan Bay, southeastern China. Science of the Total Environment 628–629.	Contaminants	Plastisizers	marine debris; plastic; fiber; pahs; uptake; seafood
Xiong X, Chen X, Zhang K, Mei Z, Hao Y, Zheng J, Wu C, Wang K, Ruan Y, Lam PKS, Wang D. 2018. Microplastics in the intestinal tracts of East Asian finless porpoises (*Neophocaena asiaeorientalis sunameri*) from Yellow Sea and Bohai Sea of China. Marine Pollution Bulletin 136: 55–60.	Biota	Dolphin/Porpoise	cetacean; finless porpoise; ingestion; microplastics
Xu X, Wang S, Gao F, Li J, Zheng L, Sun C, He C, Wang Z, Qu L. 2019. Marine Microplastic-associated bacterial community succession in response to geography, exposure time, and plastic type in China's coastal seawaters. Marine Pollution Bulletin 145: 278–286.	Biota	Microorganism	bacterial community; coastal seawater; microplastic degradation; plastisphere
Zhan Z, Wang J, Peng J, Xie Q, Huang Y, Gao Y. 2016. Sorption of 3,3',4,4'-tetrachlorobiphenyl by Microplastics: A case study of polypropylene. Marine Pollution Bulletin 110: 559–563.	Effect	Toxicology	capacity; microplastic; model; pcb77; polypropylene; sorption
Zhang F, Wang X, Xu J, Zhu L, Peng G, Xu P, Li D. 2019. Food-web transfer of Microplastics between wild caught fish and crustaceans in East China Sea. Marine Pollution Bulletin 146: 173–182.	Biota	Fish	marine food chain; microplastic; trophic transfer; wild fish
Zhang H, Zhou Q, Xie Z, Zhou Y, Tu C, Fu C, Mi W, Ebinghaus R, Christie P, Luo Y. 2018. Occurrences of organophosphorus esters and phthalates in the Microplastics from the coastal beaches in north China. Science of the Total Environment 616–617: 1505–1512.	Contaminants	Plastisizers	microplastics; chemical additives; coastal beaches; source identification; spatial variation
Zhang P, Yan Z, Lu G, Ji Y. 2019. Single and combined effects of Microplastics and roxithromycin on *Daphnia magna*. Environmental Science and Pollution Research 2: 17010–17020.	Effect	Roxithromycin	*Daphnia magna*; integrated assessment; microplastics; oxidative stress; roxithromycin; toxicity
Zhang S, Song C, Zhang J, Chen Z, Zhang C, Qiu L, Chen J. 2018. Effects of micro-	Biota	Fish	micro-plastics;

plastics on sulfamethoxazole (SMZ) residues in Tilapia (*Oreochromis niloticus*) muscle**.** Journal of Ecology and Rural Environment 张石云, **宋超**, 张敬卫, et al. **微塑料暴露**对罗非鱼肌肉中磺胺甲唑残留的影响[J]. **生**态与农村环境学报, 2018, 34(09):91-98.			sulfamethoxazole; residue; tilapia; muscle
Zhang S, Wang J, Liu X, Qu F, Wang X, Wang X, Li Y. 2019. Trends in Analytical Chemistry microplastics in the environment: A review of analytical methods, distribution, and biological effects. Trends in Analytical Chemistry 111: 62–72.	Technique	Review	analytical method; microplastics; ocean; plastics; sediment; soil
Zheng K, Fan Y, Zhu Z, Chen G, Tang C, Peng X. 2019. Occurrence and Species - Specific Distribution of Plastic Debris in Wild Freshwater Fish from the Pearl River Catchment, China. Environmental Toxicology and Chemistry 38: 1504–1513.	Biota	Fish	freshwater fish; habitats and feeding habits; plastic debris; species-specific distribution
Zhu C, Li D, Sun Y, Zheng X, Peng X, Zheng K, Hu B, Luo X, Mai B. 2019. Plastic debris in marine birds from an island located in the South China Sea. Marine Pollution Bulletin 149: 110566.	Biota	Bird spp.	marine birds; plastic debris; South China Sea; Yongxing Island
Zhu L, Wang H, Chen B, Sun X, Qu K, Xia B. 2019. Microplastic ingestion in deep-sea fish from the South China Sea. Science of the Total Environment 677: 493–501.	Biota	Fish	deep-sea; fish; ingestion; microplastics; South China Sea
Societal Impacts			
Lin C, Nakamura S. 2019. Approaches to solving China's marine plastic pollution and CO_2 emission problems. Economic Systems Research 31: 143–157.	Physical Process	Emission	no keywords listed
Shen M, Mao D, Xie H, Li C. 2019. The Social Costs of Marine Litter along the East China Sea : Evidence from Ten Coastal Scenic Spots of Zhejiang Province, China. Sustainability (Switzerland) 1–15.	Governance	Governance	social costs; marine litter; contingent valuation model; choice experiment model
Sources Distribution and Trend			
Abundance, morphology and spatial distribution of Microplastics in inky river sediments 亓会英, **王元元**, 张大海, et al. **墨水河沉**积物中微塑料的丰度、形态及其空间分布[J]. **海洋湖沼通**报,	Substrate	Sediment	no english keywords listed

2019(3):69-77.			
Bai M, Zhu L, An L, Peng G, Li D. 2018. Estimation and prediction of plastic waste annual input into the sea from China. Acta Oceanologica Sinica 37: 26–39.	Physical Process	Input	China; marine; material flow analysis; plastic waste; prediction
Cai M, He H, Liu M, Li S, Tang G, Wang W, Huang P, Wei G, Lin Y, Chen B, Hu J, Cen Z. 2018. Lost but can't be neglected: Huge quantities of small Microplastics hide in the South China Sea. Science of the Total Environment 633: 1206–1216.	Substrate	Seawater	microplastic; distribution; seawater; inventory; marginal sea; South China Sea
Characteristics of Microplastic pollution in water and sediment of Huanghaisangou Bay熊宽旭, 赵新月, **周倩**, et al. **黄海桑沟湾水体及沉**积物中微塑料污染特征研究[J]. **海洋**环境科学, 2019, 38(02):41-47+63.	Substrate	Water, Sediment	no english keywords listed
Characteristics of Microplastic pollution in Xiamen Bay beach**刘启明**, **梁海涛**, 锡桂莉, et al. **厦**门湾海滩微塑料污染特征[J]. 环境科学, 2019, 40(03):209-213.	Substrate	Beach	no english keywords listed
Chen H, Wang S, Guo H, Lin H, Zhang Y, Long Z, Huang H. 2019. Study of marine debris around a tourist city in East China: Implication for waste management. Science of the Total Environment 676: 278–289.	Substrate	Governance	beached debris; benthic debris; clean coast index; floating debris; low value waste; plastic
Chen M, Jin M, Tao P, Wang Z, Xie W, Yu X, Wang K. 2018. Assessment of Microplastics derived from mariculture in Xiangshan. Environmental Pollution 242: 1146–1156.	Substrate	Water, Sediment	marine debris; nearshore; coastal water; sediment; pollution
Cheng PK, Fok L, Hung PL, Cheung LTO. 2018. Spatio-temporal comparison of neustonic Microplastic density in Hong Kong waters under the influence of the Pearl River Estuary. Science of the Total Environment 628–629: 731–739.	Substrate	Water	Hong Kong; microplastics; Pearl River; plastic debris; South China Sea
Cheung PK, Cheung LTO, Fok L. 2016. Seasonal variation in the abundance of marine plastic debris in the estuary of a subtropical macro-scale drainage basin in South China. Science of the Total Environment 562: 658–665.	Substrate	Beach	beach survey; Hong Kong; marine plastic debris; microplastics; Pearl River; seasonal variation
Cheung PK, Fok L. 2017. Characterisation of plastic microbeads in facial scrubs and their estimated emissions in Mainland China. Water Research 122: 53–61.	Governance	Emission	China; emission; microbeads; microplastics; personal care and cosmetic products; sewage

			treatment
Cheung PK, Hung PL, Fok L. 2019. River Microplastic Contamination and Dynamics upon a Rainfall Event in Hong Kong, China. Environmental Processes 6: 253–264.	Substrate	Rain	microplastics; plastic debris; river; South China
Dai Z, Zhang H, Zhou Q, Tian Y, Chen T, Tu C. 2018. Occurrence of Microplastics in the water column and sediment in an inland sea affected by intensive anthropogenic activities. Environmental Pollution 1–9.	Substrate	Water, Sediment	Bohai Sea; microplastics; sediment; vertical distribution; water column
Di M, Wang J. 2018. Microplastics in surface waters and sediments of the Three Gorges. Science of the Total Environment 616–617: 1620–1627.	Substrate	Water	freshwater; pollutant; RAMAN spectroscopy; TGR
Ding L, Guo X, Yang X, Zhang Q, Yang C. 2019. Microplastics in surface waters and sediments of the Wei River, in the northwest of China. Science of the Total Environment 667: 427–434.	Substrate	Water	microplastics; abundance; surface water; sediment; Wei River
Distribution and composition of Microplastics in the surface seawater of east China sea**刘涛**, 孙晓霞, **朱明亮**, et al. 东海表层海水中微塑料分布与组成[J]. **海洋与湖沼**, 2018.	Substrate	Seawater	no english keywords listed
Distribution and sedimentation characteristics of Microplastics in surface sediments of tidal flat of Changjiang estuary**朱**晓桐, **衣俊**, 强丽媛, et al. 长江口潮滩表层沉积物中微塑料的分布及沉降特点[J]. 环境科学, 2018, v.39(05):99-106.	Substrate	Sediment	no keywords listed
Distribution characteristics and source of sediment Microplastics in the section of Lean-Poyang Lake**周隆胤**, 简敏菲, **余厚平**, et al. 乐安河—**鄱阳湖段底泥微塑料的分布特征及其来源**[J]. **土壤学**报, 2018, 55(05):185-195.	Substrate	Sediment	no english keywords listed
Distribution characteristics of Microplastics in 4 bathing beaches in Qingdao罗雅丹, **林千惠**, 贾芳丽, et al. **青**岛4**个海水浴**场微塑料的分布特征[J]. 环境科学, 2019, 40(06):141-148.	Substrate	Water, Sediment	no english keywords listed
Eutrophication evaluation of Xiaxin wharf water body in Dongting Lake district and characteristics of Microplastic pollution冯志桥, 钟伟, 罗鑫, et al. **洞庭湖区下新**码头水体富营养化评价及微塑料污染特征研究[J].	Substrate	Water	no english keywords listed

环境保护与循环经济, 2019, 39(04):50-53.			
Fan Y, Zheng K, Zhu Z, Chen G, Peng X. 2019. Distribution, sedimentary record, and persistence of Microplastics in the Pearl River catchment, China. Environmental Pollution 251: 862–870.	Substrate	Sediment	microplastics; river; sedimentary core; vertical distribution; spatial and seasonal patterns
Fok L, Cheung PK, Tang G, Li WC. 2017. Size distribution of stranded small plastic debris on the coast of Guangdong, South China. Environmental Pollution 220: 407–412.	Substrate	Coast	marine plastic debris; size distribution; fragmentation; beach; China
Fok L, Cheung PK. 2015. Hong Kong at the Pearl River Estuary: A hotspot of Microplastic pollution. Marine Pollution Bulletin 99: 112–118.	Substrate	Beach	abundance; beach survey; Hong Kong; marine debris; microplastics; Pearl River Estuary
Fok L, Wing T, Lam L, Li H, Xu X. 2019b. A meta-analysis of methodologies adopted by Microplastic studies in China. Science of the Total Environment 135371.	Technique	Sampling	microplastics; methodologies; sample collection; sample processing procedures; China
Investigation and analysis of Microplastic particles in sediments of Fuxi River张耀丹, **李**锡鹏, **王旭**, et al. **釜溪河沉**积物微塑料颗粒调查分析的研究[J]. **四**川环境, 2019, 38(02):50-56.	Substrate	Sediment	no english keywords listed
Jiang C, Yin L, Wen X, Du C, Wu L, Long Y, Liu Y, Ma Y, Yin Q, Zhou Z, Pan H. 2018a. Microplastics in Sediment and Surface Water of West Dongting Lake and South Dongting Lake: Abundance, Source and Composition. International Journal of Environmental Research and Public Health 15: 1–15.	Substrate	Water, Sediment	Dongting Lake; microplastic; sediment; surface water
Li J, Zhang H, Zhang K, Yang R, Li R, Li Y. 2018. Characterization, source, and retention of Microplastic in sandy beaches and mangrove wetlands of the Qinzhou Bay, China. Marine Pollution Bulletin 136: 401–406.	Substrate	Beach	aquaculture; beach; mangrove; microplastics; retention
Li R, Zhang L, Xue B, Wang Y. 2019. Abundance and characteristics of Microplastics in the mangrove sediment of the semi-enclosed Maowei Sea of the South China sea: New implications for location, rhizosphere, and sediment composition. Environmental Pollution 244: 685–692.	Substrate	Sediment	microplastics; semi-enclosed Maowei Sea; mangrove sediment
Li X, Chen L, Mei Q, Dong B, Dai X, Ding G, Zeng EY. 2018. Microplastics in sewage sludge from the wastewater treatment plants in China. Water	Governance	WWTP	microplastic pollutants; sludge disposal; land application;

Research 142: 75–85.			WWTP parameters; spatial distribution; temporal distribution
Lin L, Zuo L, Peng J, Cai L, Fok L, Yan Y, Li H, Xu X. 2018. Occurrence and distribution of Microplastics in an urban river: A case study in the Pearl River along Guangzhou City, China. Science of the Total Environment Journal 644: 375–381.	Substrate	Water, Sediment	microplastics; surface water; sediment; pearl river; wastewater treatment plants
Liu S, Jian M, Zhou L, Li W. 2019. Distribution and characteristics of Microplastics in the sediments of Poyang Lake. Water Science & Technology 79: 1868–1877.	Substrate	Sediment	no keywords listed
Lo HS, Xu X, Wong CY, Cheung SG. 2018. Comparisons of Microplastic pollution between mudflats and sandy beaches in Hong Kong. Environmental Pollution 236: 208–217	Substrate	Sediment	marine debris; microplastic; mudflats; sandy beaches
Luo W, Su L, Craig NJ, Du F, Wu C, Shi H. 2019. Comparison of Microplastic pollution in different water bodies from urban creeks to coastal waters. Environmental Pollution 246: 174–182.	Substrate	Water, Sediment	microplastics; freshwater; small water bodies; river networks
Ma Y, Huang A, Cao S, Sun F, Wang L, Guo H, Ji R. 2016. Effects of nanoplastics and Microplastics on toxicity, bioaccumulation, and environmental fate of phenanthrene in fresh water. Environmental Pollution 219: 166–173.	Effect	Toxicology	microplastics; nanoplastics; phenanthrene; Joint toxicity; bioaccumulation; environmental fate
Mai L, Bao L, Shi L, Liu L, Zeng EY. 2018. Polycyclic aromatic hydrocarbons affiliated with Microplastics in surface waters of Bohai and Huanghai Seas, China. Environmental Pollution 241: 834–840.	Contaminants	Chemicals	microplastics; polycyclic aromatic hydrocarbons; pretreatment; sorption; fate and transport; oceanic environment
Mu J, Qu L, Jin F, Zhang S, Fang C, Ma X, Zhang W, Huo C, Cong Y, Wang J. 2019. Abundance and distribution of microplastics in the surface sediments from the northern Bering and Chukchi Seas. Environmental Pollution 245: 122–130.	Substrate	Sediment	Arctic; microplastics; polar region; sediment; µftir
Pan Z, Guo H, Chen H, Wang S, Sun X, Zou Q, Zhang Y, Lin H, Cai S, Huang J. 2019. Microplastics in the Northwestern Pacific: Abundance, distribution, and characteristics. Science of the Total Environment 650: 1913–1922.	Substrate	Ocean	abundance; chemical fingerprint; distribution; microplastic; Northwestern Pacific

Peng G, Xu P, Zhu B, Bai M, Li D. 2018. Microplastics in freshwater river sediments in Shanghai, China : A case study of risk assessment in mega-cities. Environmental Pollution 234: 448–456.	Substrate	Sediment	microplastic; freshwater; risk assessment; FT-IR; pollution
Peng G, Zhu B, Yang D, Su L, Shi H, Li D. 2017. Microplastics in sediments of the Changjiang Estuary, ChinaEnvironmental Pollution 225: 283–290.	Substrate	Sediment	microplastic; sediment; Changjiang Estuary; μ-FT-IR; marine pollution
Phuong NN, Zalouk-Vergnoux A, Poirier L, Kamari A, Châtel A, Mouneyrac C, Lagarde F. 2016. Is there any consistency between the Microplastics found in the field and those used in laboratory experiments? Environmental Pollution 211: 111–123.	Technique	Sampling	biological effects; field samples; ingestion; laboratory exposures; microplastics
Qiu Q, Peng J, Yu X, Chen F, Wang J, Dong F. 2015. Occurrence of Microplastics in the coastal marine environment : First observation on sediment of China. Marine Pollution Bulletin 98: 274–280.	Substrate	Sediment	microplastics; China; fluorescence microscope FTIR; sediment
Qiu Q, Tan Z, Wang J, Peng J, Li M, Zhan Z. 2016. Extraction, enumeration and identification methods for monitoring Microplastics in the environment. Estuarine, Coastal and Shelf Science 176: 102–109.	Technique	Sampling	sediment; seawater; organism; quality; quantity
Separation and surface morphology of Microplastics in the sediment of wetland in Poyang Lake - Raohe section简敏菲,**周隆胤**,**余厚平**,**刘淑**丽.**鄱阳湖**-饶河入湖段湿地底泥中微塑料的分离及其表面形貌特征.环境科学学报,2018,38(2):579-586.	Technique	Plastic	no english keywords listed
Separation of Microplastics from a coastal soil and their surface microscopic features[1]**周倩**,**章海波**,**周阳**,**李**远,**薛勇**,**付**传城,**涂晨**,骆永明.滨海潮滩土壤中微塑料的分离及其表面微观特征.**科学通**报,2016(14):1604-1611.	Technique	Sampling	no english keywords listed
Shanghai Rendu Ocean NPO Development Centre. Fishery and Aquaculture Marine Debris Survey Report --in the Yellow Sea Area of China. 2019.	Governance	Governance	fishery-based, beach litter, Yellow Sea area, citizen science, China
Spatiotemporal distribution and risk assessment of Microplastics in Yangtze estuary**徐沛**, **彭谷雨**, **朱礼鑫**, et al. 长江口微塑料时空分布及风险评价[J]. **中国**环境科学, 2019, 39(05):281-287.	Substrate	Sediment	no english keywords listed
Su L, Xue Y, Li L, Yang D, Kolandhasamy P, Li D, Shi H. 2016. Microplastics in	Substrate	Sediment	microplastic; freshwater; Asian

Taihu Lake, China. Environmental Pollution 216: 711–719.			clam; biomonitoring
Tan X, Yu X, Cai L, Wang J, Peng J. Microplastics and associated PAHs in surface water from the Feilaixia Reservoir in the Beijiang River, China. Chemosphere [Internet]. 2019;221:834–40. Available from: https://doi.org/10.1016/j.chemosphere.2019.01.022	Substrate	Water	microplastics; pahs; GC-MS; Feilaixia Reservoir; surface water
Tang G, Liu M, Zhou Q, He H, Chen K, Zhang H, Hu J, Huang Q, Luo Y, Ke H, Chen B, Xu X, Cai M. 2018. Microplastics and polycyclic aromatic hydrocarbons (PAHs) in Xiamen coastal areas : Implications for anthropogenic impacts. Science of the Total Environment 634: 811–820.	Contaminants	Chemicals	cluster analysis; correlation analysis; human activities; microplastics; pops; Southeast China
The characteristics of Microplastics in the surface soil of Zhangpu coastal area of Fujian province邓加聪, 陈晓凤, 张志鹏, et al. 福建漳浦近岸海域表层土壤中微塑料的赋存特征[J]. 福建师大福清分校学报, 2019, 153(02):80-88.	Substrate	Coast	no english keywords listed
Tsang YY, Mak CW, Liebich C, Lam SW, Sze ETP, Chan KM. 2017. Microplastic pollution in the marine waters and sediments of Hong Kong. Marine Pollution Bulletin 115: 20–28.	Substrate	Water, Sediment	coastal waters; plastic pollution; sediments; spatial variation; temporal variation
Wang J, Lu L, Wang M, Jiang T, Liu X, Ru S. 2019a. Typhoons increase the abundance of Microplastics in the marine environment and cultured organisms : A case study in Sanggou Bay, China. Science of the Total Environment 667: 1–8.	Substrate	Seawater	microplastic; typhoon; Sanggou Bay; oyster; scanning electron microscopy/energy dispersive spectroscopy
Wang J, Peng J, Tan Z, Gao Y, Zhan Z, Chen Q, Cai L. 2017. Microplastics in the surface sediments from the Beijiang River littoral zone: Composition, abundance, surface textures and interaction with heavy metals. Chemosphere 171: 248–258.	Substrate	Sediment	microplastics; Beijiang River; sediments; μ-FTIR; sem/eds; ICP-MS
Wang J, Zheng L, Li J. 2018. A critical review on the sources and instruments of marine Microplastics and prospects on the relevant management in China. Waste Management and Research 36: 898–911.	Review	Substrate	microplastics; instruments; marine environment; proposals/solutions; sources
Wang MH, He Y, Sen B. 2019. Research and management of plastic pollution in coastal environments of China. Environmental Pollution 248: 898–905.	Review	Governance	abundance; impact; management; marine; microplastic; plastic debris
Wang T, Zou X, Li B, Yao Y, Li J, Hui H, Yu W, Wang C. 2018. Microplastics in a wind farm area: A case study at the Rudong Offshore Wind Farm, Yellow	Substrate	Water, Sediment	bed shear stress; human activity; microplastic;

Sea, China. Marine Pollution Bulletin 128: 466–474.			offshore wind farm; Yellow Sea
Wang T, Zou X, Li B, Yao Y, Zang Z, Li Y, Yu W, Wang W. 2019. Preliminary study of the source apportionment and diversity of Microplastics: Taking floating Microplastics in the South China Sea as and example. Environmental Pollution 245: 965–974.	Technique	Sampling	microplastic; source apportionment; source-specific classification; microplastic diversity index; South China Sea
Wang W, Ndungu AW, Li Z, Wang J. 2017. Microplastics pollution in inland freshwaters of China : A case study in urban surface waters of Wuhan, China. Science of the Total Environment, The 575: 1369–1374.	Substrate	Water	microplastics; pollution; urban surface waters; Wuhan
Wang W, Wang J. 2018. Investigation of Microplastics in aquatic environments: An overview of the methods used, from field sampling to laboratory analysis. Trends in Analytical Chemistry 108: 195–202.	Technique	Sampling	aquatic environment; detection; methods; microplastics; quality control and quality assurance
Wang W, Yuan W, Chen Y, Wang J. 2018c. Microplastics in surface waters of Dongting Lake and Hong Lake, China. Science of the Total Environment 633: 539–545.	Substrate	Water	microplastics; inland freshwater; abundance; morphological property; chemical component
Wang Z, Qin Y, Li W, Yang W, Meng Q, Yang J. 2019. Microplastic contamination in freshwater : first observation in Lake Ulansuhai, Yellow River Basin, China. Environmental Chemistry Letters 17: 1821–1830.	Substrate	Water	microplastic; contamination; freshwater; Yellow River Hetao irrigation district; Lake Ulansuhai
Wang Z, Su B, Xu X, Di D, Huang H, Mei K, Dahlgren RA, Zhang M, Shang X. 2018. Preferential accumulation of small (<300 μm) Microplastics in the sediments of a coastal plain river network in eastern China. Waters Research.	Substrate	Sediment	no keywords listed
Wen X, Du C, Xu P, Zeng G, Huang D, Yin L, Yin Q, Hu L, Wan J, Zhang J, Tan S, Deng R. 2018. Microplastic pollution in surface sediments of urban water areas in Changsha, China : Abundance, composition, surface textures. Marine Pollution Bulletin 136: 414–423.	Substrate	Sediment	Changsha; china; microplastic; surface sediment; urban water areas
Wu F, Pennings SC, Tong C, Xu Y. 2020. Variation in Microplastics composition at small spatial and temporal scales in a tidal flat of the Yangtze Estuary, China. Science of the Total Environment 699: 134252.	Substrate	Sediment	intertidal zone; hydrological processes; microplastics pollution; sediment; small

			scale
Wu N, Zhang Y, Zhang X, Zhao Z, He J, Li W, Ma Y, Niu Z. 2019. Occurrence and distribution of Microplastics in surface water and sediments of two typical estuaries in Bohai Bay, China. Environmental Science Processes and Impacts 1–9.	Substrate	Water, Sediment	no keywords listed
Xiong X, Wu C, Elser JJ, Mei Z, Hao Y. 2019. Occurrence and fate of Microplastic debris in middle and lower reaches of the Yangtze River – From inland to the sea. Science of the Total Environment 659: 66–73.	Substrate	Water	microplastics; Yangtze River; transport
Xiong X, Zhang K, Chen X, Shi H, Luo Z, Wu C. 2018. Sources and distribution of Microplastics in China's largest inland lake – Qinghai Lake. Environmental Pollution 235: 899–906.	Substrate	Water	lake current; plastic debris; remote lake; tourism; weathering
Xu P, Peng G, Su L, Gao Y, Gao L, Li D. 2018. Microplastic risk assessment in surface waters : A case study in the Changjiang Estuary, China. Marine Pollution Bulletin 133: 647–654.	Substrate	Water	no keywords listed
Yan M, Nie H, Xu K, He Y, Hu Y. 2019. Microplastic abundance, distribution and composition in the Pearl River along Guangzhou city and Pearl River estuary, China. Chemosphere 217: 879–886.	Substrate	Water	biomonitor; fiber
Yin L, Jiang C, Wen X, Du C, Zhong W, Feng Z, Long Y, Ma Y. 2019. Microplastic Pollution in Surface Water of Urban Lakes in Changsha, China. International Journal of Environmental Research and Public Health Article 16: 2–10.	Substrate	Water	microplastic; Changsha; urban lakes; surface water; pollution
Yu X, Peng J, Wang J, Wang K, Bao S. 2016. Occurrence of Microplastics in the beach sand of the Chinese inner sea: the Bohai Sea. Environmental Pollution 214: 722–730.	Substrate	Beach	contaminant; plastic; Chinese coast; Bohai Bay
Yuan W, Liu X, Wang W, Di M, Wang J. 2019. Microplastic abundance, distribution and composition in water, sediments, and wild fish from Poyang Lake, China. Ecotoxicology and Environmental Safety 170: 180–187.	Substrate	Reef	*Carassius auratus*; freshwater; microplastics; sediment; surface water
Zhang B, Wu D, Yang X, Teng J, Liu Y, Zhang C, Zhao J, Yin X, You L, Liu Y, Wang Q. 2019. Microplastic pollution in the surface sediments collected from Sishili Bay, North Yellow Sea, China. Marine Pollution Bulletin journal 141: 9–15.	Substrate	Sediment	Microplastics; surface sediments; Sishili Bay; Yellow Sea; pollution level
Zhang C, Zhou H, Cui Y, Wang C, Li Y, Zhang D. 2019. Microplastics in offshore sediment in the Yellow Sea and East China. Environmental Pollution 244: 827–833.	Substrate	Sediment	marine pollution; microplastics; offshore sediments; southern Yellow Sea; East

Zhang J, Zhang C, Deng Y, Wang R, Bai J, Wu J, Zhou Y, Wang J. 2019. Microplastics in the surface water of small-scale estuaries in Shanghai. Marine Pollution Bulletin 149: 110569.	Substrate	Water	China Sea microplastics; small-scale estuary; Shanghai; surface water
Zhang K, Gong W, Lv J, Xiong X, Wu C. 2015. Accumulation of floating Microplastics behind the Three Gorges Dam. Environmental Pollution 204: 117–123.	Substrate	Water	no keywords listed
Zhang K, Shi H, Peng J, Wang Y, Xiong X, Wu C, Lam PKS. 2018. Microplastic pollution in China's inland water systems: A review of findings, methods, characteristics, effects, and management. Science of the Total Environment 630: 1641–1653.	Review	Substrate	China; inland water; management; microplastics; sources
Zhang K, Su J, Xiong X, Wu X, Wu C, Liu J. 2016. Microplastic pollution of lakeshore sediments from remote lakes in Tibet plateau, China. Environmental Pollution 219: 450–455.	Substrate	Sediment	microplastics; northern Tibet; lakeshore sediment; distribution; identification; surface texture
Zhang K, Xiong X, Hu H, Wu C, Bi Y, Wu Y, Zhou B, Lam PKS, Liu J. 2017. Occurrence and Characteristics of Microplastic Pollution in Xiangxi Bay of Three Gorges Reservoir, ChinaEnvironmental Science and Technology 51: 3794–3801.	Substrate	Water	no keywords listed
Zhang L, Liu J, Xie Y, Zhong S, Yang B, Lu D, Zhong Q. 2019. Distribution of Microplastics in surface water and sediments of Qin river in Beibu Gulf, China. Science of the Total Environment 2–9.	Substrate	Water, Sediment	microplastics; surface water; sediment; Qin River; human activities
Zhang W, Ma X, Zhang Z, Wang Y, Wang J, Wang J, Ma D. 2015. Persistent organic pollutants carried on plastic resin pellets from two beaches in China. Marine Pollution Bulletin 99: 28–34.	Substrate	Beach	microplastics; OCPs; PAHs; PCBs
Zhang W, Zhang S, Wang J, Wang Y, Mu J, Wang P, Lin X, Ma D. 2017. Microplastic pollution in the surface waters of the Bohai Sea, China. Environmental Pollution 231: 541–548.	Substrate	Water	microplastic; the Bohai Sea; floating; plastic
Zhao J, Ran W, Teng J, Liu Y, Liu H, Yin X, Cao R, Wang Q. 2018. Microplastic pollution in sediments from the Bohai Sea and the Yellow Sea, China. Science of the Total Environment 640–641: 637–645.	Substrate	Sediment	microplastic; Yellow Sea; Bohai Sea; sediment
Zhao S, Wang T, Zhu L, Xu P, Wang X, Gao L, Li D. 2019. Analysis of suspended Microplastics in the Changjiang Estuary : Implications for riverine plastic load	Substrate	Water	plastic debris; microplastic; plastic loads; river;

to the ocean. Water Research 161: 560–569.			Changjiang Estuary; East China Sea
Zhao S, Zhu L, Li D. 2015. Characterization of small plastic debris on tourism beaches around the South China Sea. Regional Studies in Marine Science 1: 55–62.	Substrate	Beach	beaches; polymer composition; RAMAN spectroscopy; small plastic debris; South China Sea
Zhao S, Zhu L, Li D. 2015. Microplastic in three urban estuaries, China. Environmental Pollution 206: 597–604.	Substrate	Water	microplastic estuary; typhoon; RAMAN spectroscopy; pollution
Zhao S, Zhu L, Wang T, Li D. 2014. Suspended Microplastics in the surface water of the Yangtze Estuary System, China: First observations on occurrence, distribution. Marine Pollution Bulletin 86: 562–568.	Substrate	Water	East China Sea; marine debris; suspended microplastic; Yangtze Estuary
Zheng Y, Li J, Cao W, Liu X, Jiang F, Ding J. 2019. Distribution characteristics of Microplastics in the seawater and sediment : A case study in Jiaozhou Bay, China. Science of the Total Environment 674: 27–35.	Substrate	Water, Sediment	China; distribution mechanism; Jiaozhou Bay; micro-Fourier transform infrared spectrometry; microplastics; residual current; sediment
Zhou C, Liu X, Wang Z, Yang T, Shi L, Wang L, Cong L, Liu X, Yang J. 2015. Marine debris surveys on four beaches in Rizhao City of China. Global Journal of Environmental Science and Management 1: 305–314.	Substrate	Beach	abundance; beached marine debris (BMD); composition; Rizhao City; source
Zhou C, Liu X, Wang Z, Yang T, Shi L, Wang L, You S, Li M, Zhang C. 2016. Assessment of marine debris in beaches or seawaters around the China Seas and coastal provinces. Waste Management 48: 652–660.	Substrate	Water, Sediment	assessment; beached marine debris (BMD); floating marine debris (FMD); source; submerged marine debris (SMD)
Zhou P, Huang C, Fang H, Cai W, Li D, Li X, Yu H. 2011. The abundance, composition and sources of marine debris in coastal seawaters or beaches around the northern South China Sea (China). Marine Pollution Bulletin 62: 1998–2007.	Substrate	Water	abundance; composition; marine debris; source; the northern South China Sea
Zhu J, Zhang Q, Li Y, Tan S, Kang Z, Yu X, Lan W, Cai L, Wang J, Shi H. 2018. Microplastic pollution in the Maowei Sea, a typical mariculture bay of China. Science of the Total Environment 1–7.	Substrate	Seawater	Maowei Sea; microplastics; surface water; fishery products
Zhu L, Bai H, Chen B, Sun X, Qu K, Xia B. 2018. Microplastic pollution in North	Substrate	Water, Sediment	microplastics; surface

Yellow Sea, China: Observations on occurrence, distribution and identification. Science of the Total Environment 636: 20–29.	seawater; sediment; micro-FTIR; fishery