Supplementary Material

Towards understanding the factors behind the limited integra-tion of multispecies ecotoxicity assessment in environmental risk characterisation of graphene family materials - A bibliometric review

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Table S1: Review articles published in the past 10 years within the scope of ecotoxicology or environmental application of GFMs.

Year of publication	Review topic and conception	Ecotoxicological systems presented and evaluated in the review articles	Ref.
2015	The ecotoxicity of graphene family materials: current status, knowledge gaps and future needs	acute and chronic single species tests	[1]
2017	Ecotoxicological effects of graphene-based materials	acute and chronic single species tests, WW microbial community	[2]
2017	Review of environmental life cycle assessment (LCA) studies of graphene production	LCA study, no detailed analysis in terms of complexity	[3]
2017	Environmental impact of engineered carbon nanoparticles: from releases to effects on the aquatic biota	acute and chronic single species tests	[4]
2018	Safety Assessment of Graphene-Based Materials: Focus on Human Health and the Environment	human exposure studies, LCA study, acute and chronic single species tests	[5]
2018	An overview of graphene materials: Properties, applications and toxicity on aquatic environments	acute and chronic single species tests, WW microbial community	[6]
2020	Toxicity Studies on Graphene-Based Nanomaterials in Aquatic Organisms: Current Understanding	acute and chronic single species tests	[7]
2020	Aquatic nanotoxicology: impact of carbon nanomaterials on algal flora	acute and chronic single species tests	[8]
2021	Wastewater treatment nexus: Carbon nanomaterials towards potential aquatic ecotoxicity	acute and chronic single species tests, WW microbial community, trophic transfer	[9]
2022	Graphene-based nanomaterials and microbial communities: a review of their interactions, from ecotoxicology to bioprocess engineering perspectives	microbial community studies in different environmental compartments and WW	[10]
2022	Graphene-based materials for environmental applications: a review	no detailed analysis in terms of complexity	[11]

2022	Review on Graphene-, Graphene Oxide-, Reduced Graphene Oxide-Based Flexible Composites: From Fabrication to Applications	no detailed analysis in terms of complexity	[12]
2022	Insights on synthesis and applications of graphene-based materials in wastewater treatment: A review	no detailed analysis in terms of complexity	[13]
2022	A review on sustainable production of graphene and related life cycle assessment	LCA study, no detailed analysis in terms of complexity	[14]
2023	A Review on Properties and Environmental Applications of Graphene and Its Derivative-Based Composites	no detailed analysis in terms of complexity	[15]

*WW: wastewater

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