Tire wear particles in the aquatic environment - A revie occurrence, fate and effects

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Citation Report

#	Article	IF	Citations
2	Ingestion and Chronic Effects of Car Tire Tread Particles on Freshwater Benthic Macroinvertebrates. Environmental Science & Technology, 2018, 52, 13986-13994.	10.0	90
3	Raman microspectroscopy as a tool for microplastic particle analysis. TrAC - Trends in Analytical Chemistry, 2018, 109, 214-226.	11.4	185
4	Using High-Resolution Mass Spectrometry to Identify Organic Contaminants Linked to Urban Stormwater Mortality Syndrome in Coho Salmon. Environmental Science & Technology, 2018, 52, 10317-10327.	10.0	149
5	Two Birds with One Stoneâ€"Fast and Simultaneous Analysis of Microplastics: Microparticles Derived from Thermoplastics and Tire Wear. Environmental Science and Technology Letters, 2018, 5, 608-613.	8.7	165
6	Current research trends on plastic pollution and ecological impacts on the soil ecosystem: A review. Environmental Pollution, 2018, 240, 387-395.	7.5	737
7	Characterizing export of land-based microplastics to the estuary - Part I: Application of integrated geospatial microplastic transport models to assess tire and road wear particles in the Seine watershed. Science of the Total Environment, 2019, 646, 1639-1649.	8.0	166
8	Plastic sources: A survey across scientific and grey literature for their inventory and relative contribution to microplastics pollution in natural environments, with an emphasis on surface water. Science of the Total Environment, 2019, 693, 133499.	8.0	210
9	Occurrence of tire wear particles and other microplastics within the tributaries of the Charleston Harbor Estuary, South Carolina, USA. Marine Pollution Bulletin, 2019, 145, 569-582.	5.0	158
10	Vertical Distribution of Microplastics in the Water Column and Surficial Sediment from the Milwaukee River Basin to Lake Michigan. Environmental Science & Technology, 2019, 53, 12227-12237.	10.0	246
11	Uptake of trace elements by vegetable plants grown on agricultural soils: Evaluation of trace metal accumulation and potential health risk. Journal of African Earth Sciences, 2019, 160, 103635.	2.0	21
12	Generation of nano- and micro-sized organic pollutant emulsions in simulated road runoff. Environment International, 2019, 133, 105140.	10.0	6
13	Wastewater treatment plants as a source of plastics in the environment: a review of occurrence, methods for identification, quantification and fate. Environmental Science: Water Research and Technology, 2019, 5, 1908-1931.	2.4	112
14	Tire and road wear particles in road environment â€“ Quantification and assessment of particle dynamics by Zn determination after density separation. Chemosphere, 2019, 222, 714-721.	8.2	149
15	Comparative toxicity of organic mixture attached to road deposited sediments: Inadequacy of conventionally using individual pollutants to assess comprehensive hazard effects. Ecotoxicology and Environmental Safety, 2019, 180, 357-365.	6.0	4
16	Chlorinated Paraffins in Car Tires Recycled to Rubber Granulates and Playground Tiles. Environmental Science & Technology, 2019, 53, 7595-7603.	10.0	63
17	Acute and long-term toxicity of micronized car tire wear particles to Hyalella azteca. Aquatic Toxicology, 2019, 213, 105216.	4.0	79
18	Microplastic contamination and pollutant levels in mussels and cockles collected along the channel coasts. Environmental Pollution, 2019, 250, 807-819.	7.5	123
19	Ecotoxicity and genotoxicity of polystyrene microplastics on higher plant Vicia faba. Environmental Pollution, 2019, 250, 831-838.	7.5	542

#	Article	IF	Citations
20	Whole transcriptome analysis of an estuarine amphipod exposed to highway road dust. Science of the Total Environment, 2019, 675, 141-150.	8.0	4
21	Release of Nitrosamines and Nitrosamine Precursors from Scrap Tires. Environmental Science and Technology Letters, 2019, 6, 251-256.	8.7	21
22	Impact of holding time on toxicity change of urban road dust during runoff process. Science of the Total Environment, 2019, 668, 1267-1276.	8.0	5
23	Evaluation of Tire Wear Contribution to PM2.5 in Urban Environments. Atmosphere, 2019, 10, 99.	2.3	89
24	Experiment and simulation of supersaturated total dissolved gas dissipation: Focus on the effect of confluence types. Water Research, 2019, 155, 320-332.	11.3	25
25	Detection and Quantification of Tire Particles in Sediments Using a Combination of Simultaneous Thermal Analysis, Fourier Transform Infra-Red, and Parallel Factor Analysis. International Journal of Environmental Research and Public Health, 2019, 16, 3444.	2.6	19
26	Modelling engineered nanomaterials in wet-weather discharges. NanoImpact, 2019, 16, 100188.	4.5	8
27	Plastic litter in the European Arctic: What do we know?. Emerging Contaminants, 2019, 5, 308-318.	4.9	79
28	Characterizing export of land-based microplastics to the estuary - Part II: Sensitivity analysis of an integrated geospatial microplastic transport modeling assessment of tire and road wear particles. Science of the Total Environment, 2019, 646, 1650-1659.	8.0	48
29	(Micro) plastic fluxes and stocks in Lake Geneva basin. TrAC - Trends in Analytical Chemistry, 2019, 112, 66-74.	11.4	72
30	Identification of potentially mobile and persistent transformation products of REACH-registered chemicals and their occurrence in surface waters. Water Research, 2019, 150, 86-96.	11.3	77
31	Microplastics in wastewater treatment plants: Detection, occurrence and removal. Water Research, 2019, 152, 21-37.	11.3	1,069
32	Relevance of nano- and microplastics for freshwater ecosystems: A critical review. TrAC - Trends in Analytical Chemistry, 2019, 110, 375-392.	11.4	346
33	Are We Speaking the Same Language? Recommendations for a Definition and Categorization Framework for Plastic Debris. Environmental Science & Technology, 2019, 53, 1039-1047.	10.0	1,322
34	Microplastic ingestion ubiquitous in marine turtles. Global Change Biology, 2019, 25, 744-752.	9.5	210
35	Sorption of organic substances to tire wear materials: Similarities and differences with other types of microplastic. TrAC - Trends in Analytical Chemistry, 2019, 113, 392-401.	11.4	65
36	Microplastic pollution in vegetable farmlands of suburb Wuhan, central China. Environmental Pollution, 2020, 257, 113449.	7.5	294
37	Dynamic probabilistic material flow analysis of rubber release from tires into the environment. Environmental Pollution, 2020, 258, 113573.	7.5	83

#	Article	IF	Citations
38	Occurrence and characteristics of microplastics in surface road dust in Kusatsu (Japan), Da Nang (Vietnam), and Kathmandu (Nepal). Environmental Pollution, 2020, 256, 113447.	7.5	148
39	Increased Temperature and Turbulence Alter the Effects of Leachates from Tire Particles on Fathead Minnow (Pimephales promelas). Environmental Science & Technology, 2020, 54, 1750-1759.	10.0	52
40	The molecular interactions of organic compounds with tire crumb materials differ substantially from those with other microplastics. Environmental Sciences: Processes and Impacts, 2020, 22, 121-130.	3.5	9
41	Microplastic pollution in a stormwater floating treatment wetland: Detection of tyre particles in sediment. Science of the Total Environment, 2020, 713, 136356.	8.0	163
42	Physical and chemical properties of non-exhaust particles generated from wear between pavements and tyres. Atmospheric Environment, 2020, 224, 117252.	4.1	70
43	A close relationship between microplastic contamination and coastal area use pattern. Water Research, 2020, 171, 115400.	11.3	150
44	Chemical composition and ecotoxicity of plastic and car tire rubber leachates to aquatic organisms. Water Research, 2020, 169, 115270.	11.3	314
45	The structure of agricultural microplastics (PT, PU and UF) and their sorption capacities for PAHs and PHE derivates under various salinity and oxidation treatments. Environmental Pollution, 2020, 257, 113525.	7.5	64
46	Ecotoxicology of micronized tire rubber: Past, present and future considerations. Science of the Total Environment, 2020, 706, 135694.	8.0	102
47	Organic pollutants, nano- and microparticles in street sweeping road dust and washwater. Environment International, 2020, 135, 105337.	10.0	56
48	Comparison of the abundance of microplastics between rural and urban areas: A case study from East Dongting Lake. Chemosphere, 2020, 244, 125486.	8.2	108
49	Microplastics and Nanoplastics in the Freshwater and Terrestrial Environment: A Review. Water (Switzerland), 2020, 12, 2633.	2.7	126
50	Characterization of tire and road wear particles from road runoff indicates highly dynamic particle properties. Water Research, 2020, 185, 116262.	11.3	68
51	Nanoplastics Disturb Nitrogen Removal in Constructed Wetlands: Responses of Microbes and Macrophytes. Environmental Science & Technology, 2020, 54, 14007-14016.	10.0	128
52	Investigating the presence of microplastics in demersal sharks of the North-East Atlantic. Scientific Reports, 2020, 10, 12204.	3.3	48
53	Atmospheric transport is a major pathway of microplastics to remote regions. Nature Communications, 2020, 11, 3381.	12.8	489
54	Microplastic and tire wear particle occurrence in fishes from an urban estuary: Influence of feeding characteristics on exposure risk. Marine Pollution Bulletin, 2020, 160, 111539.	5.0	73
55	Evaluating scenarios toward zero plastic pollution. Science, 2020, 369, 1455-1461.	12.6	739

#	Article	IF	Citations
56	Determination of Environmental Micro(Nano)Plastics by Matrix-Assisted Laser Desorption/Ionizationâ€“Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2020, 92, 14346-14356.	6.5	57
57	Aramid Nanofiber Reinforced Rubber Compounds for the Application of Tire Tread with High Abrasion Resistance and Fuel Saving Efficiency. ACS Applied Polymer Materials, 2020, 2, 4874-4884.	4.4	36
58	Car Tire Crumb Rubber: Does Leaching Produce a Toxic Chemical Cocktail in Coastal Marine Systems?. Frontiers in Environmental Science, 2020, 8, .	3.3	76
59	Isolation and Extraction of Microplastics from Environmental Samples: An Evaluation of Practical Approaches and Recommendations for Further Harmonization. Applied Spectroscopy, 2020, 74, 1049-1065.	2.2	104
60	Source identification and implications of heavy metals in urban roads for the coastal pollution in a beach town, Busan, Korea. Marine Pollution Bulletin, 2020, 161, 111724.	5.0	28
61	Occurrence of tire and bitumen wear microplastics on urban streets and in sweepsand and washwater. Science of the Total Environment, 2020, 729, 138950.	8.0	134
62	Road de-icing salt: Assessment of a potential new source and pathway of microplastics particles from roads. Science of the Total Environment, 2020, 738, 139352.	8.0	27
63	Microplastic contamination on the lower Chao Phraya: Abundance, characteristic and interaction with heavy metals. Chemosphere, 2020, 257, 127234.	8.2	60
64	Long-term assessment of nanoplastic particle and microplastic fiber flux through a pilot wastewater treatment plant using metal-doped plastics. Water Research, 2020, 182, 115860.	11.3	80
65	Dysbiosis in the Gut Microbiota of Soil Fauna Explains the Toxicity of Tire Tread Particles. Environmental Science & Technology, 2020, 54, 7450-7460.	10.0	71
66	Bacterial community colonization on tire microplastics in typical urban water environments and associated impacting factors. Environmental Pollution, 2020, 265, 114922.	7.5	58
67	Are we underestimating the sources of microplastic pollution in terrestrial environment?. Journal of Hazardous Materials, 2020, 400, 123228.	12.4	260
68	Tyre wear particles: an abundant yet widely unreported microplastic?. Environmental Science and Pollution Research, 2020, 27, 18345-18354.	5.3	157
69	Tyre and road wear particles (TRWP) - A review of generation, properties, emissions, human health risk, ecotoxicity, and fate in the environment. Science of the Total Environment, 2020, 733, 137823.	8.0	344
70	Size distributions and heavy metal pollution of urban road-deposited sediments (RDS) related to traffic types. Environmental Science and Pollution Research, 2020, 27, 34199-34210.	5.3	8
71	Microplastics in the environment: Interactions with microbes and chemical contaminants. Science of the Total Environment, 2020, 743, 140518.	8.0	229
72	Source-related smart suspect screening in the aqueous environment: search for tire-derived persistent and mobile trace organic contaminants in surface waters. Analytical and Bioanalytical Chemistry, 2020, 412, 4909-4919.	3.7	62
73	Microplastics in Urban Environments: Sources, Pathways, and Distribution. Handbook of Environmental Chemistry, 2020, , 41-61.	0.4	23

#	Article	IF	Citations
74	Microplastics entering northwestern Lake Ontario are diverse and linked to urban sources. Water Research, 2020, 174, 115623.	11.3	206
75	Toxicological effects of micronized tire crumb rubber on mummichog (Fundulus heteroclitus) and fathead minnow (Pimephales promelas). Ecotoxicology, 2020, 29, 524-534.	2.4	29
76	Microplastic Contamination in Freshwater Environments: A Review, Focusing on Interactions with Sediments and Benthic Organisms. Environments - MDPI, 2020, 7, 30.	3.3	202
77	More Than a First Flush: Urban Creek Storm Hydrographs Demonstrate Broad Contaminant Pollutographs. Environmental Science & Technology, 2020, 54, 6152-6165.	10.0	74
78	Experimental investigation on the characteristics of tire wear particles under different non-vehicle operating parameters. Tribology International, 2020, 150, 106354.	5.9	24
79	Abundance, morphology, and removal efficiency of microplastics in two wastewater treatment plants in Nanjing, China. Environmental Science and Pollution Research, 2021, 28, 9327-9337.	5.3	33
80	Quantifying metal emissions from vehicular traffic using real world emission factors. Environmental Pollution, 2021, 268, 115805.	7.5	38
81	Microplastics and associated contaminants in the aquatic environment: A review on their ecotoxicological effects, trophic transfer, and potential impacts to human health. Journal of Hazardous Materials, 2021, 405, 124187.	12.4	308
82	Investigation of the external conditions and material compositions affecting the formation mechanism and size distribution of tire wear particles. Atmospheric Environment, 2021, 244, 118018.	4.1	18
83	The diverse metal composition of plastic items and its implications. Science of the Total Environment, 2021, 764, 142870.	8.0	22
84	A ubiquitous tire rubberâ€“derived chemical induces acute mortality in coho salmon. Science, 2021, 371, 185-189.	12.6	504
85	Spatial Distribution of Microplastics in Surficial Benthic Sediment of Lake Michigan and Lake Erie. Environmental Science & Technology, 2021, 55, 373-384.	10.0	65
86	Microplastic's story. Marine Pollution Bulletin, 2021, 162, 111820.	5.0	47
87	The distribution and impact of polystyrene nanoplastics on cucumber plants. Environmental Science and Pollution Research, 2021, 28, 16042-16053.	5.3	114
88	Chemical mapping of tire and road wear particles for single particle analysis. Science of the Total Environment, 2021, 757, 144085.	8.0	73
89	Aggregation kinetics of fragmental PET nanoplastics in aqueous environment: Complex roles of electrolytes, pH and humic acid. Environmental Pollution, 2021, 268, 115828.	7.5	50
90	Tyre and road wear particles - A calculation of generation, transport and release to water and soil with special regard to German roads. Science of the Total Environment, 2021, 752, 141939.	8.0	95
91	Material flow analysis of plastic in organic waste in Switzerland. Soil Use and Management, 2021, 37, 277-288.	4.9	18

#	Article	IF	Citations
92	Challenges with Quantifying Tire Road Wear Particles: Recognizing the Need for Further Refinement of the ISO Technical Specification. Environmental Science and Technology Letters, 2021, 8, 231-236.	8.7	52
93	Design of convexâ€hull bionic tire tread compounds and mechanism on collaborative improvement of wet resistance and wear resistance. Journal of Applied Polymer Science, 2021, 138, 50446.	2.6	4
94	Emerging Contaminants: Analysis, Aquatic Compartments and Water Pollution. Environmental Chemistry for A Sustainable World, 2021, , 1-111.	0.5	3
95	Revisiting Microplastics in Landfill Leachate: Unnoticed Tiny Microplastics and Their Fate in Treatment Works. Water Research, 2021, 190, 116784.	11.3	106
96	Development of a New Testing Approach for Decentralised Technical Sustainable Drainage Systems. Water (Switzerland), 2021, 13, 722.	2.7	6
97	Tire wear particle and leachate exposures from a pristine and road-worn tire to Hyalella azteca: Comparison of chemical content and biological effects. Aquatic Toxicology, 2021, 232, 105769.	4.0	56
98	Bioretention cells remove microplastics from urban stormwater. Water Research, 2021, 191, 116785.	11.3	96
99	A review of current approaches for the study of microplastic contamination in crustaceans. Environmental Reviews, 2021, 29, 64-74.	4.5	15
100	Occurrence and removal of microplastics in wastewater treatment plants and drinking water purification facilities: A review. Chemical Engineering Journal, 2021, 410, 128381.	12.7	62
101	Occurrence of Substituted p-Phenylenediamine Antioxidants in Dusts. Environmental Science and Technology Letters, 2021, 8, 381-385.	8.7	88
102	Quantification and Analysis of Microplastics in Farmland Soils: Characterization, Sources, and Pathways. Agriculture (Switzerland), 2021, 11, 330.	3.1	35
103	Gap Analysis and Future Needs of Tyre Wear Particles. , 0, , .		1
105	Constraining the atmospheric limb of the plastic cycle. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	232
106	Understanding plastic degradation and microplastic formation in the environment: A review. Environmental Pollution, 2021, 274, 116554.	7.5	559
107	Non-exhaust traffic emissions: Sources, characterization, and mitigation measures. Science of the Total Environment, 2021, 766, 144440.	8.0	128
108	Investigation on the adsorption and desorption behaviors of heavy metals by tire wear particles with or without UV ageing processes. Environmental Research, 2021, 195, 110858.	7.5	45
109	A review on the characteristics of microplastics in wastewater treatment plants: A source for toxic chemicals. Journal of Cleaner Production, 2021, 295, 126480.	9.3	138
110	Loading, transport, and treatment of emerging chemical and biological contaminants of concern in stormwater. Water Science and Technology, 2021, 83, 2863-2885.	2.5	19

#	Article	IF	Citations
111	Tire wear particles concentrations in gully pot sediments. Science of the Total Environment, 2021, 769, 144785.	8.0	28
112	Assessing small-scale freshwater microplastics pollution, land-use, source-to-sink conduits, and pollution risks: Perspectives from Japanese rivers polluted with microplastics. Science of the Total Environment, 2021, 768, 144655.	8.0	103
113	A methodology for capturing tire wear particles: Computational particle fluid dynamics modelling and experimental verification. Powder Technology, 2021, 384, 176-185.	4.2	10
115	Factors Influencing Distribution Characteristics of Total Dissolved Gas Supersaturation at Confluences. Water Resources Research, 2021, 57, e2020WR028760.	4.2	14
116	Microplastics, chlorpyrifos and their mixtures modulate immune processes in the terrestrial crustacean Porcellio scaber. Science of the Total Environment, 2021, 772, 144900.	8.0	45
117	The importance of tribology for reducing CO2 emissions and for sustainability. Wear, 2021, 474-475, 203768.	3.1	24
118	Abatement of hazardous materials and biomass waste via pyrolysis and co-pyrolysis for environmental sustainability and circular economy. Environmental Pollution, 2021, 278, 116836.	7.5	64
119	Microplastics generated from a biodegradable plastic in freshwater and seawater. Water Research, 2021, 198, 117123.	11.3	140
120	Car and truck tire wear particles in complex environmental samples â€“ A quantitative comparison with â€œtraditionalâ€•microplastic polymer mass loads. Science of the Total Environment, 2021, 773, 145667.	8.0	74
121	Anthropogenic factors associated with contaminants of emerging concern detected in inland Minnesota lakes (Phase II). Science of the Total Environment, 2021, 772, 146188.	8.0	13
122	Adsorption and desorption behaviors of antibiotics by tire wear particles and polyethylene microplastics with or without aging processes. Science of the Total Environment, 2021, 771, 145451.	8.0	82
123	Environmental risks of car tire microplastic particles and other road runoff pollutants. Microplastics and Nanoplastics, 2021, 1, .	8.8	43
124	Baseflow and Stormflow Zinc Loads in a Small Agricultural River Catchment Influenced by an Industrial Area. Water (Switzerland), 2021, 13, 2113.	2.7	5
125	Oceanic long-range transport of organic additives present in plastic products: an overview. Environmental Sciences Europe, 2021, 33, .	5.5	43
126	Investigation of the Formation Mechanism and Environmental Risk of Tireâ€”Pavement Wearing Waste (TPWW). Sustainability, 2021, 13, 8172.	3.2	1
127	Tire abrasion particles negatively affect plant growth even at low concentrations and alter soil biogeochemical cycling. Soil Ecology Letters, 2022, 4, 409-415.	4.5	28
128	Crumb Rubber in Concreteâ€”The Barriers for Application in the Construction Industry. Infrastructures, 2021, 6, 116.	2.8	21
129	Chemical Analysis of Microplastics and Nanoplastics: Challenges, Advanced Methods, and Perspectives. Chemical Reviews, 2021, 121, 11886-11936.	47.7	309

#	Article	IF	Citations
130	Acute Toxicity of a Tire Rubber-Derived Chemical, 6PPD Quinone, to Freshwater Fish and Crustacean Species. Environmental Science and Technology Letters, 2021, 8, 779-784.	8.7	99
131	Organic Markers of Tire and Road Wear Particles in Sediments and Soils: Transformation Products of Major Antiozonants as Promising Candidates. Environmental Science & Technology, 2021, 55, 11723-11732.	10.0	50
132	Treading Water: Tire Wear Particle Leachate Recreates an Urban Runoff Mortality Syndrome in Coho but Not Chum Salmon. Environmental Science & Technology, 2021, 55, 11767-11774.	10.0	68
133	The Tire Wear Compounds 6PPD-Quinone and 1,3-Diphenylguanidine in an Urban Watershed. Archives of Environmental Contamination and Toxicology, 2022, 82, 171-179.	4.1	83
134	p-Phenylenediamine Antioxidants in PM_{2.5}: The Underestimated Urban Air Pollutants. Environmental Science & Technology, 2022, 56, 6914-6921.	10.0	61
135	Towards a model for road runoff infiltration management. Npj Clean Water, 2021, 4, .	8.0	3
136	Comprehensive characterization of tire and road wear particles in highway tunnel road dust by use of size and density fractionation. Chemosphere, 2021, 279, 130530.	8.2	77
137	Time-Dependent Toxicity of Tire Particles on Soil Nematodes. Frontiers in Environmental Science, 2021, 9, .	3.3	12
138	Altered gene expression in Chironomus riparius (insecta) in response to tire rubber and polystyrene microplastics. Environmental Pollution, 2021, 285, 117462.	7.5	32
140	Microplastic pollution of worldwide lakes. Environmental Pollution, 2021, 284, 117075.	7.5	126
141	Mechanisms and the Engineering Approaches for the Degradation of Microplastics. ACS ES&T Engineering, 2021, 1, 1481-1501.	7.6	65
142	Removal of rubber, bitumen and other microplastic particles from stormwater by a gross pollutant trap - bioretention treatment train. Water Research, 2021, 202, 117457.	11.3	64
143	Environmental modelling of hexamethoxymethylmelamine, its transformation products, and precursor compounds: An emerging family of contaminants from tire wear. Chemosphere, 2021, 280, 130914.	8.2	14
144	Exploring the impacts of microplastics and associated chemicals in the terrestrial environment â€“ Exposure of soil invertebrates to tire particles. Environmental Research, 2021, 201, 111495.	7.5	48
145	Exposure to heavy metal and antibiotic enriches antibiotic resistant genes on the tire particles in soil. Science of the Total Environment, 2021, 792, 148417.	8.0	21
146	Detection of selected tire wear compounds in urban receiving waters. Environmental Pollution, 2021, 287, 117659.	7.5	74
147	Spatio-temporal distribution of microplastics in a Mediterranean river catchment: The importance of wastewater as an environmental pathway. Journal of Hazardous Materials, 2021, 420, 126481.	12.4	53
148	Microplastics as carbon-nutrient sources and shaper for microbial communities in stagnant water. Journal of Hazardous Materials, 2021, 420, 126662.	12.4	37

#	Article	IF	Citations
149	Quantification of tire tread wear particles in microparticles produced on the road using oleamide as a novel marker. Environmental Pollution, 2021, 288, 117811.	7.5	29
150	Quantifying the release of tyre wear particles to the marine environment via multiple pathways. Marine Pollution Bulletin, 2021, 172, 112897.	5.0	30
151	Environmental occurrence, fate, impact, and potential solution of tire microplastics: Similarities and differences with tire wear particles. Science of the Total Environment, 2021, 795, 148902.	8.0	101
152	Occurrence, distribution and affecting factors of microplastics in agricultural soils along the lower reaches of Yangtze River, China. Science of the Total Environment, 2021, 794, 148694.	8.0	105
153	Wood ash amended biochar for the removal of lead, copper, zinc and cadmium from aqueous solution. Environmental Technology and Innovation, 2021, 24, 101961.	6.1	16
154	Static modelling of the material flows of micro- and nanoplastic particles caused by the use of vehicle tyres. Environmental Pollution, 2021, 290, 118102.	7.5	18
155	Microplastics shift impacts of climate change on a plant-microbe mutualism: Temperature, CO2, and tire wear particles. Environmental Research, 2022, 203, 111727.	7.5	18
156	Are your shoes safe for the environment? â€“ Toxicity screening of leachates from microplastic fragments of shoe soles using freshwater organisms. Journal of Hazardous Materials, 2022, 421, 126779.	12.4	19
157	Probing the chemical complexity of tires: Identification of potential tire-borne water contaminants with high-resolution mass spectrometry. Science of the Total Environment, 2022, 802, 149799.	8.0	47
158	Automated identification and quantification of tire wear particles (TWP) in airborne dust: SEM/EDX single particle analysis coupled to a machine learning classifier. Science of the Total Environment, 2022, 803, 149832.	8.0	50
159	Microplastics pollution in the terrestrial environments: Poorly known diffuse sources and implications for plants. Science of the Total Environment, 2022, 805, 150431.	8.0	105
160	Effect of environmentally relevant concentrations of potentially toxic microplastic on coastal copepods. Aquatic Toxicology, 2021, 230, 105713.	4.0	20
161	Quantification of Non-Exhaust Particulate Matter Traffic Emissions and the Impact of COVID-19 Lockdown at London Marylebone Road. Atmosphere, 2021, 12, 190.	2.3	42
162	Plasticisers in the terrestrial environment: sources, occurrence and fate. Environmental Chemistry, 2021, 18, 111-130.	1.5	34
163	Synthesis of metal-doped nanoplastics and their utility to investigate fate and behaviour in complex environmental systems. Nature Nanotechnology, 2019, 14, 362-368.	31.5	186
165	GCâ€‰Ã—â€‰GCâ€“HRMS nontarget fingerprinting of organic micropollutants in urban freshwater sediments. Environmental Sciences Europe, 2020, 32, .	5.5	15
168	Microplastics and Wastewater Treatment Plantsâ€”A Review. Journal of Water Resource and Protection, 2020, 12, 1-35.	0.8	101
169	Human Health and Ocean Pollution. Annals of Global Health, 2020, 86, 151.	2.0	240

#	Article	IF	Citations
170	Application of material from used car tyres in geotechnicsâ€"an environmental impact analysis. PeerJ, 2020, 8, e9546.	2.0	11
171	Filter-less separation technique for micronized anthropogenic polymers from artificial seawater. Environmental Science: Water Research and Technology, 0, , .	2.4	2
172	Predicting the Global Environmental Distribution of Plastic Polymers. SSRN Electronic Journal, 0, , .	0.4	0
173	Occurrence and concentration of 20â€"100ÂÎ¼m sized microplastic in highway runoff and its removal in a gross pollutant trap â€" Bioretention and sand filter stormwater treatment train. Science of the Total Environment, 2022, 809, 151151.	8.0	30
174	Microplastics in Terrestrial and Freshwater Environments. Environmental Contamination Remediation and Management, 2022, , 87-130.	1.0	8
175	Pyrolysis-Gas Chromatography-Mass Spectrometry (Py-GC-MS) Quantification of Tire and Road Wear Particles (TRWP) in Environmental Matrices: Assessing the Importance of Microstructure in Instrument Calibration Protocols. Analytical Letters, 2022, 55, 1004-1016.	1.8	19
176	Analytical Chemistry of Plastic Debris: Sampling, Methods, and Instrumentation. Environmental Contamination Remediation and Management, 2022, , 17-67.	1.0	4
177	Characteristics, Toxic Effects, and Analytical Methods of Microplastics in the Atmosphere. Nanomaterials, 2021, 11, 2747.	4.1	26
179	Toxicological effects of 6PPD and 6PPD quinone in zebrafish larvae. Journal of Hazardous Materials, 2022, 424, 127623.	12.4	86
180	Exposure to leachates from post-consumer plastic and recycled rubber causes stress responses and mortality in a copepod Limnocalanus macrurus. Marine Pollution Bulletin, 2021, 173, 113103.	5.0	12
181	Scattered accumulation hotspots of macro-litter on the seafloor: Insights for mitigation actions. Environmental Pollution, 2022, 292, 118338.	7.5	10
182	Aging of tire and road wear particles in terrestrial and freshwater environments â€" A review on processes, testing, analysis and impact. Chemosphere, 2022, 288, 132467.	8.2	55
183	Elemental composition of fine and coarse particles across the greater Los Angeles area: Spatial variation and contributing sources. Environmental Pollution, 2022, 292, 118356.	7.5	21
185	Microplastics in the bogue, Boops boops: A snapshot of the past from the southern Tyrrhenian Sea. Journal of Hazardous Materials, 2022, 424, 127669.	12.4	15
186	Role of Structural Morphology of Commodity Polymers in Microplastics and Nanoplastics Formation: Fragmentation, Effects and Associated Toxicity in the Aquatic Environment. Reviews of Environmental Contamination and Toxicology, 2021, 259, 123-169.	1.3	1
187	Utility of benzothiazoles as markers of tire-derived inputs to estuarine waters assessed by polyethylene sheets. Environmental Pollution, 2022, 293, 118571.	7.5	2
188	In Vitro Assessment Reveals the Effects of Environmentally Persistent Free Radicals on the Toxicity of Photoaged Tire Wear Particles. Environmental Science & Technology, 2022, 56, 1664-1674.	10.0	45
189	Characterization of Individual Tire and Road Wear Particles in Environmental Road Dust, Tunnel Dust, and Sediment. Environmental Science and Technology Letters, 2021, 8, 1057-1064.	8.7	39

#	Article	IF	Citations
190	The Influence of Microplastics from Ground Tyres on the Acute, Subchronical Toxicity and Microbial Respiration of Soil. Environments - MDPI, 2021, 8, 128.	3.3	17
191	Influence of particle size on inhomogeneity in rubber compositions of <scp>NR</scp>/<scp>BR</scp> blend wear particles by single particle analysis. Polymers for Advanced Technologies, 2022, 33, 897-903.	3.2	2
192	Rethinking the relevance of microplastics as vector for anthropogenic contaminants: Adsorption of toxicants to microplastics during exposure in a highly polluted stream - Analytical quantification and assessment of toxic effects in zebrafish (Danio rerio). Science of the Total Environment, 2022, 816, 151640.	8.0	8
193	Chemical effects of different types of rubber-based products on early life stages of Pacific oyster, Crassostrea gigas. Journal of Hazardous Materials, 2022, 427, 127883.	12.4	11
194	In Vitro Digestion of Tire Particles in a Fish Model (Oncorhynchus mykiss): Solubilization Kinetics of Heavy Metals and Effects of Food Coingestion. Environmental Science & Technology, 2021, 55, 15788-15796.	10.0	18
195	Environmental degradation and formation of secondary microplastics from packaging material: A polypropylene film case study. Polymer Degradation and Stability, 2022, 195, 109794.	5.8	22
196	Fugitive Release and Influencing Factors of Microplastics in Urbanized Watersheds: A Case Study of the Central Area of Suzhou City. SSRN Electronic Journal, 0, , .	0.4	0
197	Toxic metal concentrations and Cuâ€“Znâ€“Pb isotopic compositions in tires. Journal of Analytical Science and Technology, 2022, 13, .	2.1	20
198	Emerging investigator series: microplastic sources, fate, toxicity, detection, and interactions with micropollutants in aquatic ecosystems â€“ a review of reviews. Environmental Sciences: Processes and Impacts, 2022, 24, 172-195.	3.5	22
199	Impact of Vehicle Type, Tyre Feature and Driving Behaviour on Tyre Wear Emissions Under Real-World Driving Conditions. SSRN Electronic Journal, 0, , .	0.4	0
200	Current status and future perspectives of microplastic pollution in typical cryospheric regions. Earth-Science Reviews, 2022, 226, 103924.	9.1	45
201	Human impacts and their interactions in the Baltic Sea region. Earth System Dynamics, 2022, 13, 1-80.	7.1	25
202	Investigation of abiotic degradation of tire cryogrinds. Polymer Degradation and Stability, 2022, 195, 109814.	5.8	16
203	Consequences of Plastic Trash on Behavior and Ecology of Birds. Emerging Contaminants and Associated Treatment Technologies, 2022, , 347-368.	0.7	1
204	Raman tweezers for tire and road wear micro- and nanoparticles analysis. Environmental Science: Nano, 2022, 9, 145-161.	4.3	14
205	Trends in particulate matter generation from truck and bus radial tires using a wear tester. Journal of Applied Polymer Science, 2022, 139, .	2.6	3
206	PET particles raise microbiological concerns for human health while tyre wear microplastic particles potentially affect ecosystem services in waters. Journal of Hazardous Materials, 2022, 429, 128397.	12.4	18
207	Road dust-associated microplastics from vehicle traffics and weathering. , 2022, , 257-271.		3

#	Article	IF	Citations
208	Micro-Nano Plastic in the Aquatic Environment: Methodological Problems and Challenges. Animals, 2022, 12, 297.	2.3	21
209	Waste tire particles as efficient materials towards hexavalent chromium removal: Characterisation, adsorption behaviour, equilibrium, and kinetic modelling. Chemosphere, 2022, 295, 133797.	8.2	24
210	Analysis on advances and characteristics of microplastic pollution in Chinaâ€™s lake ecosystems. Ecotoxicology and Environmental Safety, 2022, 232, 113254.	6.0	18
211	Toxicity of micro and nano tire particles and leachate for model freshwater organisms. Journal of Hazardous Materials, 2022, 429, 128319.	12.4	39
212	Determination of tire wear markers in soil samples and their distribution in a roadside soil. Chemosphere, 2022, 294, 133653.	8.2	30
213			

#	Article	IF	Citations
226	Traffic-related sources may dominate urban water contamination for many organic contaminants. Environmental Research Letters, 2022, 17, 044030.	5.2	3
227	White Rot Fungi Produce Novel Tire Wear Compound Metabolites and Reveal Underappreciated Amino Acid Conjugation Pathways. Environmental Science and Technology Letters, 2022, 9, 391-399.	8.7	14
228	Effects of Polyester Fibers and Car Tire Particles on Freshwater Invertebrates. Environmental Toxicology and Chemistry, 2022, 41, 1555-1567.	4.3	11
229	Microplastics in marine and aquatic habitats: sources, impact, and sustainable remediation approaches. Environmental Sustainability, 2022, 5, 39-49.	2.8	12
230	Concentration and leachability of N-(1,3-dimethylbutyl)-Nâ€²-phenyl-p-phenylenediamine (6PPD) and its quinone transformation product (6PPD-Q) in road dust collected in Tokyo, Japan. Environmental Pollution, 2022, 302, 119082.	7.5	49
231	Acute toxicity of tire wear particles, leachates and toxicity identification evaluation of leachates to the marine copepod, Tigriopus japonicus. Chemosphere, 2022, 297, 134099.	8.2	30
232	Sources and fate of atmospheric microplastics revealed from inverse and dispersion modelling: From global emissions to deposition. Journal of Hazardous Materials, 2022, 432, 128585.	12.4	33
233	Characteristics of unorganized emissions of microplastics from road fugitive dust in urban mining bases. Science of the Total Environment, 2022, 827, 154355.	8.0	14
234	A look down the drain: Identification of dissolved and particle bound organic pollutants in urban runoff waters and sediments. Environmental Pollution, 2022, 302, 119047.	7.5	13
235	Internalization, reduced growth, and behavioral effects following exposure to micro and nano tire particles in two estuarine indicator species. Chemosphere, 2022, 296, 133934.	8.2	28
236	Investigation of the adsorption behavior of Pb(II) onto natural-aged microplastics as affected by salt ions. Journal of Hazardous Materials, 2022, 431, 128643.	12.4	66
237	Occurrence of tire and road wear particles in urban and peri-urban snowbanks, and their potential environmental implications. Science of the Total Environment, 2022, 824, 153785.	8.0	41
238	Evaluation of three pyrolyzer technologies for quantitative pyrolysis-gas chromatography-mass spectrometry (Py-GC-MS) of tire tread polymer in an artificial sediment matrix. Environmental Advances, 2022, 8, 100213.	4.8	11
239	Tire wear particle emissions: Measurement data where are you?. Science of the Total Environment, 2022, 830, 154655.	8.0	18
240	Visualizing undyed microplastic particles and fibers with plasmon-enhanced fluorescence. Chemical Engineering Journal, 2022, 442, 136117.	12.7	9
241	Plastic in the air?! - Spider webs as spatial and temporal mirror for microplastics including tire wear particles in urban air. Science of the Total Environment, 2022, 832, 155008.	8.0	23
242	Particles formation due to the wear of tires and measures for the wear reduction: A review. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2022, 236, 3075-3089.	1.9	3
243	LASTÄ°K TOZU KAYNAKLI KÄ°RLÄ°LÄžÄ°N TOPRAK AZOT PROSESLERÄ°NE ETKÄ°SÄ°: ARITMA Ã‡AMURU Ä°LE BÄ°YOSTÄ°MÃœLAS Ã‡ALIÅžMASI. UludaÄŸ University Journal of the Faculty of Engineering, 0, , 849-864.	0.2	0

#	Article	IF	Citations
244	Transformation Product Formation upon Heterogeneous Ozonation of the Tire Rubber Antioxidant 6PPD (N-(1,3-dimethylbutyl)-Nâ€²-phenyl-p-phenylenediamine). Environmental Science and Technology Letters, 2022, 9, 413-419.	8.7	38
245	Ã°leri atÄ±ksu arÄ±tma metotlarÄ±nÄ±n mikroplastik giderim veriminin incelenmesi. Journal of Anatolian Environmental and Animal Sciences, 0, , .	0.7	0
246	The travelling particles: community dynamics of biofilms on microplastics transferred along a salinity gradient. ISME Communications, 2022, 2, .	4.2	15
247	Pollution from Transport: Detection of Tyre Particles in Environmental Samples. Energies, 2022, 15, 2816.	3.1	9
248	Ecological Impact of End-of-Life-Tire (ELT)-Derived Rubbers: Acute and Chronic Effects at Organism and Population Levels. Toxics, 2022, 10, 201.	3.7	7
250	Treatments of wood ash amended biochar to reduce nutrient leaching and immobilise lead, copper, zinc and cadmium in aqueous solution: column experiments. Environmental Science: Water Research and Technology, 2022, 8, 1277-1286.	2.4	3
251	An Estimation of Tire and Road Wear Particles Emissions in Surface Water Based on a Conceptual Framework. SSRN Electronic Journal, 0, , .	0.4	0
253	Particles as carriers of matter in the aquatic environment: Challenges and ways ahead for transdisciplinary research. Science of the Total Environment, 2022, , 155831.	8.0	0
255	Fugitive release and influencing factors of microplastics in urbanized watersheds: A case study of the central area of Suzhou City. Science of the Total Environment, 2022, 837, 155653.	8.0	14
256	Analytical strategies for the quali-quantitation of tire and road wear particles â€“ A critical review. TrAC - Trends in Analytical Chemistry, 2022, 154, 116650.	11.4	13
257	Chemical Leaching from Tire Wear Particles with Various Treadwear Ratings. International Journal of Environmental Research and Public Health, 2022, 19, 6006.	2.6	9
258	Estimation of the concentration of nano-carbon black in tire-wear particles using emission factors of PM10, PM2.5, and black carbon. Chemosphere, 2022, 303, 134976.	8.2	8
259	A Review of Road Traffic-Derived Non-Exhaust Particles: Emissions, Physicochemical Characteristics, Health Risks, and Mitigation Measures. Environmental Science & Technology, 2022, 56, 6813-6835.	10.0	95
260	Freshwater suspended particulate matterâ€"Key components and processes in floc formation and dynamics. Water Research, 2022, 220, 118655.	11.3	34
263	Influence of Tire Wear Particle Input on Water Purification Efficiency of Bioretention System. SSRN Electronic Journal, 0, , .	0.4	0
264	Plastics in soil environments: All things considered. Advances in Agronomy, 2022, , 1-132.	5.2	3
265	A fitâ€forâ€purpose categorization scheme for microplastic morphologies. Integrated Environmental Assessment and Management, 2023, 19, 422-435.	2.9	6
266	Phenotypic toxicity, oxidative response, and transcriptomic deregulation of the rotifer Brachionus plicatilis exposed to a toxic cocktail of tire-wear particle leachate. Journal of Hazardous Materials, 2022, 438, 129417.	12.4	16

#	Article	IF	Citations
267	Impact of vehicle type, tyre feature and driving behaviour on tyre wear under real-world driving conditions. Science of the Total Environment, 2022, 842, 156950.	8.0	16
268	Methodology for Direct Measurement of the Tire Emission Factors. SSRN Electronic Journal, 0, , .	0.4	0
269	Experimental Studies of the Effect of Air Filter Pressure Drop on the Composition and Emission Changes of a Compression Ignition Internal Combustion Engine. Energies, 2022, 15, 4815.	3.1	12
270	A Preliminary European-Scale Assessment of Microplastics in Urban Wastewater. Frontiers in Environmental Science, 0, 10, .	3.3	2
271	Toxicity of tire wear particles and the leachates to microorganisms in marine sediments. Environmental Pollution, 2022, 309, 119744.	7.5	12
272	Distribution characteristics of microplastics in urban rivers in Chengdu city: The influence of land-use type and population and related suggestions. Science of the Total Environment, 2022, 846, 157411.	8.0	14
273	Chiral perspective evaluations: Enantioselective hydrolysis of 6PPD and 6PPD-quinone in water and enantioselective toxicity to Gobiocypris rarus and Oncorhynchus mykiss. Environment International, 2022, 166, 107374.	10.0	29
274	Wastewater treatment plants act as essential sources of microplastic formation in aquatic environments: A critical review. Water Research, 2022, 221, 118825.	11.3	59
275	Tire rubber chemicals reduce juvenile oyster (Crassostrea gigas) filtration and respiration under experimental conditions. Marine Pollution Bulletin, 2022, 181, 113936.	5.0	3
276	The study of wear particle emissions of soft rubber on rolling contact under braking conditions. Wear, 2022, 506-507, 204431.	3.1	1
277	Risk associated with microplastics in urban aquatic environments: A critical review. Journal of Hazardous Materials, 2022, 439, 129587.	12.4	16
278	Distribution patterns of rubber tire-related chemicals with particle size in road and indoor parking lot dust. Science of the Total Environment, 2022, 844, 157144.	8.0	24
279	Microplastic Contamination in Urban, Farmland and Desert Environments along a Highway in Southern Xinjiang, China. International Journal of Environmental Research and Public Health, 2022, 19, 8890.	2.6	6
280	Method Development for Separation and Analysis of Tire and Road Wear Particles from Roadside Soil Samples. Environmental Science & Technology, 2022, 56, 11910-11921.	10.0	21
281	Comparison of Methods for Sampling Particulate Emissions from Tires under Different Test Environments. Atmosphere, 2022, 13, 1262.	2.3	6
282	The ecotoxicological consequences of microplastics and co-contaminants in aquatic organisms: a mini-review. Emerging Topics in Life Sciences, 2022, 6, 339-348.	2.6	14
283	Leachable Additives of Tire Particles Explain the Shift in Microbial Community Composition and Function in Coastal Sediments. Environmental Science & Technology, 2022, 56, 12257-12266.	10.0	25
284	Composition and transformation chemistry of tire-wear derived organic chemicals and implications for air pollution. Atmospheric Pollution Research, 2022, 13, 101533.	3.8	17

#	Article	IF	Citations
285	The need for environmental regulation of tires: Challenges and recommendations. Environmental Pollution, 2022, 311, 119974.	7.5	15
286	An estimation of tire and road wear particles emissions in surface water based on a conceptual framework. Science of the Total Environment, 2022, 848, 157760.	8.0	7
287	How the Yangtze River transports microplastic to the east China sea. Chemosphere, 2022, 307, 136112.	8.2	11
288	Effects of tire wear particles with and without photoaging on anaerobic biofilm sulfide production in sewers and related mechanisms. Chemosphere, 2022, 308, 136185.	8.2	10
289	Comprehensive analysis of spatial distribution of microplastics in Rawal Lake, Pakistan using trawl net and sieve sampling methods. Chemosphere, 2022, 308, 136111.	8.2	9
290	Constructing a fine dispersion and chemical interface based on an electrostatic self-assembly and aqueous phase compound in GO/SiO2/SBR composites to achieve high-wear resistance in eco-friendly green tires. Chemical Engineering Journal, 2023, 452, 139113.	12.7	8
291	Wastewater treatment plant serves as a potentially controllable source of microplastic: Association of microplastic removal and operational parameters and water quality data. Journal of Hazardous Materials, 2023, 441, 129974.	12.4	15
292	Machine learning application in forecasting tire wear particles emission in China under different potential socioeconomic and climate scenarios with tire microplastics context. Journal of Hazardous Materials, 2023, 441, 129878.	12.4	9
293	Abundance, Distribution, and Composition of Microplastics in the Filter Media of Nine Aged Stormwater Bioretention Systems. SSRN Electronic Journal, 0, , .	0.4	0
294	Formation of airborne microplastics. Comprehensive Analytical Chemistry, 2022, , .	1.3	0
295	Microplastics (MPs) in marine food chains: Is it a food safety issue?. Advances in Food and Nutrition Research, 2023, , 101-140.	3.0	3
296	Bioaccumulation of N-(1,3-dimethylbutyl)-Nâ€²-phenyl-p-phenylenediamine (6PPD) and its potential cardiotoxicity in larval zebrafish (Danio rerio). SSRN Electronic Journal, 0, , .	0.4	2
297	Emission of Tire and Bitumen Particles in the Environment: The Role of Baseflow and Stormwater in a Dense Urban Environment. SSRN Electronic Journal, 0, , .	0.4	0
298	Micro and nanoplastics. , 2024, , 381-384.		0
299	Recent Trends on Microplastics Pollution and Its Remediation: A Review. Recent Innovations in Chemical Engineering, 2022, 15, 169-188.	0.4	1
300	A Review of the Origins of Microplastics arriving at Wastewater Treatment Plants. Detritus, 2022, , 41-55.	0.9	1
301	Differentiating and Quantifying Carbonaceous (Tire, Bitumen, and Road Marking Wear) and Non-carbonaceous (Metals, Minerals, and Glass Beads) Non-exhaust Particles in Road Dust Samples from a Traffic Environment. Water, Air, and Soil Pollution, 2022, 233, .	2.4	14
302	Recent trends in industrial and academic developments of green tyre technology. Polymer Bulletin, 2023, 80, 8215-8244.	3.3	11

#	Article	IF	Citations
303	Historical and current occurrence of microplastics in water and sediment of a Finnish lake affected by WWTP effluents. Environmental Pollution, 2022, 314, 120298.	7.5	11
304	On airborne tire wear particles along roads with different traffic characteristics using passive sampling and optical microscopy, single particle SEM/EDX, and Âµ-ATR-FTIR analyses. Frontiers in Environmental Science, 0, 10, .	3.3	14
305	Bioaccessibility of Organic Compounds Associated with Tire Particles Using a Fish In Vitro Digestive Model: Solubilization Kinetics and Effects of Food Coingestion. Environmental Science & Technology, 2022, 56, 15607-15616.	10.0	9
306	Microplastics in the Marine Environment: A Review of Their Sources, Formation, Fate, and Ecotoxicological Impact. , 0, , .		1
307	Baseline concentrations, source apportionment, and probabilistic risk assessment of heavy metals in urban street dust in Northeast Brazil. Science of the Total Environment, 2023, 858, 159750.	8.0	16
308	Concentrations and Retention Efficiency of Tire Wear Particles from Road Runoff in Bioretention Cells. Water (Switzerland), 2022, 14, 3233.	2.7	3
310	Microplastics in human food chains: Food becoming a threat to health safety. Science of the Total Environment, 2023, 858, 159834.	8.0	87
311	Quantitative assessment of additive leachates in abiotic weathered tire cryogrinds and its application to tire wear particles in roadside soil samples. Chemosphere, 2023, 311, 137132.	8.2	11
312	Concentrations of tire wear microplastics and other traffic-derived non-exhaust particles in the road environment. Environment International, 2022, 170, 107618.	10.0	30
313	Assessing regional emissions of vehicle-based tire wear particle from macro-to micro/nano-scales with pandemic lockdowns and electromobility scenarios implications. Chemosphere, 2023, 311, 137209.	8.2	4
314	Novel magnetic single-layer nano-MXene as a highly effective adsorbent and new SALDI-TOF-MS matrix for enrichment and rapid determination of p-Phenylenediamine antioxidants in water. Chemical Engineering Journal, 2023, 454, 139978.	12.7	6
315	Microplastics in urban catchments: Review of sources, pathways, and entry into stormwater. Science of the Total Environment, 2023, 858, 159781.	8.0	19
316	Time-concentration profiles of tire particle additives and transformation products under natural and artificial aging. Science of the Total Environment, 2023, 859, 160150.	8.0	19
317	Microbial community shifts induced by plastic and zinc as substitutes of tire abrasion. Scientific Reports, 2022, 12, .	3.3	2
318	Tire and rubber particles in the environmentâ€"A case study from a hot arid region. Frontiers in Environmental Science, 0, 10, .	3.3	4
319	Recent progress in the rubber antioxidants: A review. Polymer Degradation and Stability, 2023, 207, 110223.	5.8	22
320	Smallholder vegetable farming produces more soil microplastics pollution than large-scale farming. Environmental Pollution, 2023, 317, 120805.	7.5	7
321	Aquatic toxicity of tire microplastics on marine and freshwater organisms: An in silico approach. Chemosphere, 2023, 313, 137523.	8.2	2

#	Article	IF	Citations
322	Current levels and composition profiles of microplastics in irrigation water. Environmental Pollution, 2023, 318, 120858.	7.5	10
323	Methodology for the direct measurement of tire emission factors. Science of the Total Environment, 2023, 863, 160853.	8.0	7
324	Review on invasion of microplastic in our ecosystem and implications. Science Progress, 2022, 105, 003685042211407.	1.9	3
325	Soil Storage Conditions Alter the Effects of Tire Wear Particles on Microbial Activities in Laboratory Tests. Environmental Science and Technology Letters, 2022, 9, 1037-1043.	8.7	2
326	Formation of disinfection by-products from microplastics, tire wear particles, and other polymer-based materials. Water Research, 2023, 230, 119528.	11.3	10
327	Characteristics of Real-World Non-Exhaust Particulates from Vehicles. Energies, 2023, 16, 177.	3.1	2
328	Microplastics Concentrations in Soil Along a Racetrack. Water, Air, and Soil Pollution, 2023, 234, .	2.4	1
329	Human airway organoids as 3D in vitro models for a toxicity assessment of emerging inhaled pollutants: Tire wear particles. Frontiers in Bioengineering and Biotechnology, 0, 10, .	4.1	8
330	Microplastics Derived from Food Packaging Wasteâ€"Their Origin and Health Risks. Materials, 2023, 16, 674.	2.9	22
331	Occurrence and risks of 23 tire additives and their transformation products in an urban water system. Environment International, 2023, 171, 107715.	10.0	19
332	Current scenario and challenges of plastic pollution in Bangladesh: a focus on farmlands and terrestrial ecosystems. Frontiers of Environmental Science and Engineering, 2023, 17, .	6.0	6
333	Microplastics: A Review of Policies and Responses. Microplastics, 2023, 2, 1-26.	4.2	7
334	Uptake, Metabolism, and Accumulation of Tire Wear Particle-Derived Compounds in Lettuce. Environmental Science & Technology, 2023, 57, 168-178.	10.0	15
335	Scientific Knowledge Mapping and Thematic Evolution for Tire Wear Particles. Sustainability, 2023, 15, 583.	3.2	1
336	Tire and Road Wear Particle-Containing Sediments with High Organic Content Impact Behavior and Survival of Chironomid Larvae (Chironomus riparius). Environments - MDPI, 2023, 10, 23.	3.3	2
337	Estimated discharge of microplastics via urban stormwater during individual rain events. Frontiers in Environmental Science, 0, 11, .	3.3	6
338	Variation in Abundance Ratio of Isoprene and Dipentene Produced from Wear Particles Composed of Natural Rubber by Pyrolysis Depending on the Particle Size and Thermal Aging. Polymers, 2023, 15, 929.	4.5	8
339	A comprehensive review of tyre wear particles: Formation, measurements, properties, and influencing factors. Atmospheric Environment, 2023, 297, 119597.	4.1	12

#	Article	IF	Citations
340	Exploring the Potential Hormonal Effects of Tire Polymers (TPs) on Different Species Based on a Theoretical Computational Approach. Polymers, 2023, 15, 1719.	4.5	0
341	Measurement of tyre dust particles in the atmosphere using chemical tracers. Atmospheric Environment, 2023, 298, 119607.	4.1	4
342	Refinement of a microfurnace pyrolysis-GCâ€"MS method for quantification of tire and road wear particles (TRWP) in sediment and solid matrices. Science of the Total Environment, 2023, 874, 162305.	8.0	12
343	The role of baseflow and stormwater in transport of tire and bitumen particles in Tehran city: A dense urban environment. Journal of Contaminant Hydrology, 2023, 256, 104180.	3.3	2
344	Analysis, environmental occurrence, fate and potential toxicity of tire wear compounds 6PPD and 6PPD-quinone. Journal of Hazardous Materials, 2023, 452, 131245.	12.4	19
345	The responses of microbial metabolic activity, bacterial community and resistance genes under the coexistence of nanoplastics and quaternary ammonium compounds in the sewage environment. Science of the Total Environment, 2023, 879, 163064.	8.0	1
346	Identification and quantification of tire wear particles by employing different cross-validation techniques: FTIR-ATR Micro-FTIR, Pyr-GC/MS, and SEM. Environmental Pollution, 2023, 326, 121511.	7.5	13
347	Occurrence and spatial distribution of microplastic contaminated with heavy metals in a tropical river: Effect of land use and population density. Marine Pollution Bulletin, 2023, 191, 114919.	5.0	9
348	Impacts of particles released from vehicles on environment and health. Tribology International, 2023, 184, 108417.	5.9	8
349	Unraveling the toxicity of tire wear contamination in three freshwater species: From chemical mixture to nanoparticles. Journal of Hazardous Materials, 2023, 453, 131402.	12.4	10
350	Amino antioxidants: A review of their environmental behavior, human exposure, and aquatic toxicity. Chemosphere, 2023, 317, 137913.	8.2	12
351	Phosphonium Ionic Liquidâ€Activated Sulfur Vulcanization: A Way Forward to Reduce Zinc Oxide Levels in Industrial Rubber Formulations. ChemSusChem, 2023, 16, .	6.8	5
352	Abundance, distribution, and composition of microplastics in the filter media of nine aged stormwater bioretention systems. Chemosphere, 2023, 320, 138103.	8.2	7
353	Comparison of lead adsorption on the aged conventional microplastics, biodegradable microplastics and environmentally-relevant tire wear particles. Chemical Engineering Journal, 2023, 460, 141838.	12.7	25
354	Biomonitoring of Airborne Microplastic Deposition in Semi-Natural and Rural Sites Using the Moss Hypnum cupressiforme. Plants, 2023, 12, 977.	3.5	4
355	Quantitation of guanidine derivatives as representative persistent and mobile organic compounds in water: method development. Analytical and Bioanalytical Chemistry, 2023, 415, 1953-1965.	3.7	2
356	Exposure to 6-PPD Quinone at Environmentally Relevant Concentrations Causes Abnormal Locomotion Behaviors and Neurodegeneration in Caenorhabditis elegans. Environmental Science & Technology, 2023, 57, 4940-4950.	10.0	29
357	The Minderoo-Monaco Commission on Plastics and Human Health. Annals of Global Health, 2023, 89, .	2.0	48

#	Article	IF	Citations
359	Preliminary study on microplastic abundance in mangrove sediment cores at Mae Klong River, upper Gulf of Thailand. Frontiers in Environmental Science, 0, 11, .	3.3	5
360	Chemical characteristics, leaching, and stability of the ubiquitous tire rubber-derived toxicant 6PPD-quinone. Environmental Sciences: Processes and Impacts, 2023, 25, 901-911.	3.5	11
361	The Effect of Tire Age and Anti-Lock Braking System on the Coefficient of Friction and Braking Distance. Sustainability, 2023, 15, 6945.	3.2	1
362	Characterization of N-(1,3-dimethylbutyl)-Nâ€²-phenyl-p-phenylenediamine (6PPD)-induced cardiotoxicity in larval zebrafish (Danio rerio). Science of the Total Environment, 2023, 882, 163595.	8.0	8
363	Rapid generation of aged tire-wear particles using dry-, wet-, and cryo-milling for ecotoxicity testing. Environmental Pollution, 2023, 330, 121787.	7.5	1
364	Silent Contamination: The State of the Art, Knowledge Gaps, and a Preliminary Risk Assessment of Tire Particles in Urban Parks. Toxics, 2023, 11, 445.	3.7	2
365	Tire wear particles: Trends from bibliometric analysis, environmental distribution with meta-analysis, and implications. Environmental Pollution, 2023, 322, 121150.	7.5	10
366	Statistical analysis, machine learning modeling, and text analytics of aggregation attachment efficiency: Mono and binary particle systems. Journal of Hazardous Materials, 2023, 454, 131482.	12.4	3
367	Evaluation of stormwater microbiomes for the potential biodegradation of tire wear particle contaminants. Journal of Applied Microbiology, 2023, 134, .	3.1	0
368	Urban runoff mortality syndrome in zooplankton caused by tire wear particles. Environmental Pollution, 2023, 329, 121721.	7.5	3
369	Overall distribution of tire-wear particles, nanoâ€‘carbon black, and heavy metals in size-fractionated road dust collected from steel industrial complexes. Science of the Total Environment, 2023, 884, 163878.	8.0	5
370	In situ biomonitoring using caged lumpfish (Cyclopterus lumpus) eggs reveal plastic and rubber associated chemicals in a harbour area in Central Norway. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2023, 86, 397-403.	2.3	1
371	Aging, characterization and sorption behavior evaluation of tire wear particles for tetracycline in aquatic environment. Chemosphere, 2023, 335, 139116.	8.2	4
372	Analytical challenges and possibilities for the quantification of tire-road wear particles. TrAC - Trends in Analytical Chemistry, 2023, 165, 117121.	11.4	7
373	How Many Chemicals in Commerce Have Been Analyzed in Environmental Media? A 50 Year Bibliometric Analysis. Environmental Science & Technology, 2023, 57, 9119-9129.	10.0	6
374	Mechanistic insight into the adverse outcome of tire wear and road particle leachate exposure in zebrafish (Danio rerio) larvae. Environment International, 2023, 178, 108053.	10.0	6
375	Assessment of road run-off and domestic wastewater contribution to microplastic pollution in a densely populated area (Flanders, Belgium). Environmental Pollution, 2023, 333, 122090.	7.5	3
376	Pollution Status and Environmental Effects of Microplastics in Agricultural Soil. Advances in Environmental Protection, 2023, 13, 618-625.	0.1	0

#	Article	IF	Citations
377	Multi-element analysis of tyre rubber for metal tracers. Environment International, 2023, 178, 108047.	10.0	3
378	Path-following and tire loss investigation of a front in-wheel-drive electric vehicle with off-centre CG. Mechanism and Machine Theory, 2023, 189, 105422.	4.5	3
379	Leaching of chemicals and DOC from tire particles under simulated marine conditions. Frontiers in Environmental Science, 0, 11, .	3.3	6
380	Weathering Effects on Degradation of Low-Density Polyethylene-Nanosilica Composite with Added Pro-oxidant. Journal of Polymers and the Environment, 0, , .	5.0	1
381	Environmental Microplastics: A Significant Pollutant of the Anthropocene. , 2023, , 89-105.		0
382	Liver Metabolic Dysregulation Induced by Polypropylene Nano- and Microplastics in Nile Tilapia Using Internal Extractive Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2023, 95, 7863-7871.	6.5	3
383	Chemical composition and potential health risks of tire and road wear microplastics from light-duty vehicles in an urban tunnel in China. Environmental Pollution, 2023, 330, 121835.	7.5	4
384	Green Supply Chain Coordination Considering Carbon Emissions and Product Green Level Dependent Demand. Mathematics, 2023, 11, 2355.	2.2	2
385	Potential thyroid hormone disorder risks of tire antioxidants to aquatic food chain organisms after absorbing free radicals in marine and freshwater environments. Aquatic Toxicology, 2023, 260, 106587.	4.0	2
386	Real-Time Pyrolysis Dynamics of Thermally Aged Tire Microplastics by TGA-FTIR-GC/MS. Water (Switzerland), 2023, 15, 1944.	2.7	0
387	Characterization of tire and road wear particles in urban river samples. Environmental Advances, 2023, 12, 100385.	4.8	2
388	Micron-size tire tread particles leach organic compounds at higher rates than centimeter-size particles: Compound identification and profile comparison. Environmental Pollution, 2023, 334, 122116.	7.5	3
389	Tyre and road wear particles from source to sea. Microplastics and Nanoplastics, 2023, 3, .	8.8	4
390	Occurrence and risk associated with urban road-deposited microplastics. Journal of Hazardous Materials, 2023, 459, 132012.	12.4	6
391	Identifying potential toxic organic substances in leachates from tire wear particles and their mechanisms of toxicity to Scenedesmus obliquus. Journal of Hazardous Materials, 2023, 458, 132022.	12.4	8
394	Tire wear particles in different water environments: occurrence, behavior, and biological effectsâ€"a review and perspectives. Environmental Science and Pollution Research, 2023, 30, 90574-90594.	5.3	5
395	Occurrence and dynamics of microplastics and emerging concern microparticles in coastal sediments: Impact of stormwater upgrade and port-associated facilities. Science of the Total Environment, 2023, 899, 165724.	8.0	1
396	First insights into 6PPD-quinone formation from 6PPD photodegradation in water environment. Journal of Hazardous Materials, 2023, 459, 132127.	12.4	7

#	Article	IF	Citations
397	Assessing biodegradation of roadway particles via complementary mass spectrometry and NMR analyses. Science of the Total Environment, 2023, 900, 165698.	8.0	0
398	Review of the global evolution of regulations on single-use plastics and lessons drawn for Canada. Waste Management and Research, 0, , .	3.9	0
399	Interventions of river network structures on urban aquatic microplastic footprint from a connectivity perspective. Water Research, 2023, 243, 120418.	11.3	3
400	Acute toxicity of tire wear particles and leachate to Daphnia magna. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2023, 272, 109713.	2.6	1
402	Toxic effects of tire wear particles and the leachate on the Chinese mitten crab (Eriocheir sinensis). Environmental Pollution, 2023, 335, 122354.	7.5	1
403	River export of macro- and microplastics to seas by sources worldwide. Nature Communications, 2023, 14, .	12.8	16
404	Tire-rubber related pollutant 6-PPD quinone: A review of its transformation, environmental distribution, bioavailability, and toxicity. Journal of Hazardous Materials, 2023, 459, 132265.	12.4	13
405	Physical and chemical characteristics of particles emitted by a passenger vehicle at the tire-road contact. Chemosphere, 2023, 340, 139874.	8.2	2
406	High levels of tire wear particles in soils along low traffic roads. Science of the Total Environment, 2023, 903, 166470.	8.0	4
407	Chemical characteristics of fine tire wear particles generated on a tire simulator. Environmental Pollution, 2023, 336, 122399.	7.5	1
408	Toxic effects of environmentally persistent free radicals (EPFRs) on the surface of tire wear particles on freshwater biofilms: The alleviating role after sewage-incubation-aging. Chemosphere, 2023, 342, 140179.	8.2	4
409	Microplastics and Tire Wear Particles in Urban Stormwater: Abundance, Characteristics, and Potential Mitigation Strategies. Environmental Science & Technology, 2023, 57, 12829-12837.	10.0	6
410	Brand-Specific Toxicity of Tire Tread Particles Helps Identify the Determinants of Toxicity. Environmental Science & Technology, 2023, 57, 11267-11278.	10.0	6
411	Using Data-Driven Methods and Aging Information to Quantitatively Identify Microplastic Environmental Sources and Establish a Comprehensive Discrimination Index. Environmental Science & Technology, 2023, 57, 11279-11288.	10.0	7
412	Review of emerging contaminants in green stormwater infrastructure: Antibiotic resistance genes, microplastics, tire wear particles, PFAS, and temperature. Science of the Total Environment, 2024, 906, 167195.	8.0	4
413	Rising seas and roadway debris: Microplastic and low-density tire wear particles in street-associated tidal floodwater. Marine Pollution Bulletin, 2023, 195, 115502.	5.0	0
414	Review: Mitigation measures to reduce tire and road wear particles. Science of the Total Environment, 2023, 904, 166537.	8.0	3
415	Differential cytotoxicity to human cells in vitro of tire wear particles emitted from typical road friction patterns: The dominant role of environmental persistent free radicals. Chemosphere, 2023, 343, 140256.	8.2	4

#	Article	IF	Citations
416	Tire Wear Monitoring Approach for Hotspot Identification in Road Deposited Sediments from a Metropolitan City in Germany. Sustainability, 2023, 15, 12029.	3.2	1
417	Nanoparticle-specific and chemical-specific effects of tire wear particle leachate on amphibian early life stages. Journal of Hazardous Materials Advances, 2023, 12, 100357.	3.0	0
418	Toxicity of tire particle leachates on early life stages of keystone sea urchin species. Environmental Pollution, 2023, 336, 122453.	7.5	5
419	Non-exhaust particulate pollution in Asian countries: A comprehensive review of sources, composition, and health effects. Environmental Engineering Research, 2024, 29, 230384-0.	2.5	1
420	Lethal effect of leachates from tyre wear particles on marine copepods. Marine Environmental Research, 2023, 191, 106163.	2.5	5
421	Accelerated aging of tire and road wear particles by elevated temperature, artificial sunlight and mechanical stress â€" A laboratory study on particle properties, extractables and leachables. Science of the Total Environment, 2023, 904, 166679.	8.0	3
422	Special issue and perspective on the chemistry and physics of carbonaceous particle formation. Combustion and Flame, 2023, , 113042.	5.2	0
423	Integrated tire wear buildup and rainfall-runoff model to simulate tire wear particles in stormwater. Journal of Environmental Management, 2023, 346, 118958.	7.8	0
424	Adsorption/desorption of mercury (II) by artificially weathered microplastics: Kinetics, isotherms, and influencing factors. Environmental Pollution, 2023, 337, 122621.	7.5	3
425	Assessing the Biodegradability of Tire Tread Particles and Influencing Factors. Environmental Toxicology and Chemistry, 2024, 43, 31-41.	4.3	1
426	Sulfate radical-based advanced oxidation process effects on tire wear particles aging and ecotoxicity. Science of the Total Environment, 2024, 906, 167497.	8.0	0
427	PM10 emissions from tires: A disruptive estimate questioning present pollution mitigation strategies. Atmospheric Pollution Research, 2024, 15, 101939.	3.8	0
428	Analysis of Roadside Soil Characteristics and Tire Wear Particles(TWPs) According to Traffic Volume. Journal of Environmental Science International, 2023, 32, 627-634.	0.2	0
430	Comparison of monochloramination and chlorination of 1,3-diphenylguandine (DPG): Kinetics, transformation products, and cell-based in-vitro testing. Science of the Total Environment, 2024, 906, 167743.	8.0	1
431	Ingestion of car tire crumb rubber and uptake of associated chemicals by lumpfish (Cyclopterus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1	3.3	0
432	Unraveling the Marine Microplastic Cycle: The First Simultaneous Data Set for Air, Sea Surface Microlayer, and Underlying Water. Environmental Science & Technology, 2023, 57, 16541-16551.	10.0	1
434	State of Knowledge on the Effects of Tire-Derived Aggregate (TDA) Used in Civil Engineering Projects on the Surrounding Aquatic Environment. Sustainability, 2023, 15, 15141.	3.2	0
435	Investigation of physical and chemical properties of particulate matter caused by vehicle tire wear. International Journal of Environmental Science and Technology, 0, , .	3.5	0

#	Article	IF	Citations
436	Integrating metabolomics and high-throughput sequencing to investigate the effects of tire wear particles on mung bean plants and soil microbial communities. Environmental Pollution, 2024, 340, 122872.	7.5	4
437	Toxic Tire Wear Compounds (6PPD-Q and 4-ADPA) Detected in Airborne Particulate Matter Along a Highway in Mississippi, USA. Bulletin of Environmental Contamination and Toxicology, 2023, 111, .	2.7	3
439	A simple method for microwave-assisted preparation of tire samples. Scientific Reports, 2023, 13, .	3.3	0
440	Shades of greyâ€"tire characteristics and road surface influence tire and road wear particle (TRWP) abundance and physicochemical properties. Frontiers in Environmental Science, 0, 11, .	3.3	2
441	Effect of bioturbation of the mitten crab on distribution of tire wear particles and their combined effect on sediment ecosystem. Chemosphere, 2024, 346, 140603.	8.2	0
442	Evaluation of tire tread particle toxicity to fish using rainbow trout cell lines. Science of the Total Environment, 2024, 912, 168933.	8.0	0
443	Non-targeted analysis based on quantitative prediction and toxicity assessment for emerging contaminants in tire particle leachates. Environmental Research, 2024, 243, 117806.	7.5	0
444	Gene expression analysis of Chironomus riparius in response to acute exposure to tire rubber microparticles and leachates. Environmental Pollution, 2024, 342, 123111.	7.5	0
446	Long-term sublethal exposure to polyethylene and tire wear particles: Effects on risk-taking behaviour in invasive and native fish. Science of the Total Environment, 2024, 908, 168233.	8.0	2
448	Optimized and Validated Settling Velocity Measurement for Small Microplastic Particles (10â€"400 Î¼m). ACS ES&T Water, 2023, 3, 4056-4065.	4.6	1
450	An overview of the occurrence and distribution of plastics in wastewater treatment plants and the necessity of developing up-to-date management strategies. , 2023, 1, .		0
451	What is known and unknown concerning microplastics from tyre wear?. Road Materials and Pavement Design, 0, , 1-22.	4.0	0
452	Separation and quantification of tire and road wear particles in road dust samples: Bonded-sulfur as a novel marker. Journal of Hazardous Materials, 2024, 465, 133089.	12.4	1
453	Seasonal variations in concentrations of PM2.5 and tire wear particle of < 2.5ÂÎ¼m (TWP2.5) and polymeric components of PM2.5 at a bus stop. Atmospheric Environment, 2024, 318, 120243.	4.1	0
454	Micro and Nanoplastic Contamination and Its Effects on Freshwater Mussels Caged in an Urban Area. Journal of Xenobiotics, 2023, 13, 761-774.	6.7	1
456	Common types of microdebris affect the physiology of reef-building corals. Science of the Total Environment, 2024, 912, 169276.	8.0	2
457	Realistic assessment of tire and road wear particle emissions and their influencing factors on different types of roads. Journal of Hazardous Materials, 2024, 465, 133301.	12.4	0
459	A Comprehensive Review of Risk Assessments of Organic Effluents in Car Workshops. Environments - MDPI, 2023, 10, 220.	3.3	0

#	Article	IF	Citations
460	Tire materials disturb transformations of nitrogen compounds and affect the structure of biomass in aerobic granular sludge reactors. Journal of Hazardous Materials, 2024, 465, 133223.	12.4	0
462	Screening of Tire-Derived Chemicals and Tire Wear Particles in a Road Tunnel Wash Water Treatment Basin. Environmental Science and Technology Letters, 0, , .	8.7	0
463	Abundance and Characterization of Anthropogenic Microlitter in Effluent from Three Wastewater Treatment Plants in Gran Canaria (Canary Islands, Spain). Water (Switzerland), 2024, 16, 64.	2.7	0
464	Abundance and distribution of tire and road wear particles in the Seine River, France. Science of the Total Environment, 2024, 913, 169633.	8.0	0
465	Ubiquitous occurrence of p-Phenylenediamine (PPD) antioxidants and PPD-quinones in fresh atmospheric snow and their amplification effects on associated aqueous contamination. Journal of Hazardous Materials, 2024, 465, 133409.	12.4	0
466	Risk implications induced by behaviors of artificial and pavement-generated TWPs in river water: Role of particle-self properties and incubation aging. Environmental Pollution, 2024, 343, 123277.	7.5	1
467	Contribution of Road Vehicle Tyre Wear to Microplastics and Ambient Air Pollution. Sustainability, 2024, 16, 522.	3.2	1
468	Recognition and detection technology for microplastic, its source and health effects. Environmental Science and Pollution Research, 2024, 31, 11428-11452.	5.3	0
469	Prevalence of microplastics and fate in wastewater treatment plants: a review. Environmental Chemistry Letters, 2024, 22, 657-690.	16.2	0
470	Tire particles and their leachates reduce the filtration rate of the mussel Mytilus edulis. Marine Environmental Research, 2024, 195, 106348.	2.5	0
471	Mapping the tire supply chain and its microplastics emissions using a multi-stakeholder approach. Resources, Conservation and Recycling, 2024, 203, 107389.	10.8	0
472	Microplastics in the terrestrial environment. , 2024, , 229-247.		1
473	Life stage-specific effects of tire particle leachates on the cosmopolitan planktonic copepod Acartia tonsa. Environmental Pollution, 2024, 343, 123256.	7.5	1
474	Ecotoxicity of tire wear particles to antioxidant enzyme system and metabolic functional activity of river biofilms: The strengthening role after incubation-aging in migrating water phases. Science of the Total Environment, 2024, 914, 169849.	8.0	0
475	Effect of vacuum UV and UV-C treatment on degradation and ecotoxicity of tire wear microrubber leachates. Water Science and Technology, 0, , .	2.5	0
476	Effects of polyethylene, polylactic acid, and tire particles on the sediment microbiome and metabolome at high and low temperatures. Applied and Environmental Microbiology, 2024, 90, .	3.1	0
477	Traceable determination of metal composition of tyres using tandem ICP-MS and benchmarking of emissions inventories. Environmental Sciences: Processes and Impacts, 2024, 26, 298-304.	3.5	0
478	Impact of Microplastic on Freshwater Sediment Biogeochemistry and Microbial Communities Is Polymer Specific. Water (Switzerland), 2024, 16, 348.	2.7	0

#	Article	IF	Citations
479	An overview of the key topics related to the study of tire particles and their chemical leachates: From problems to solutions. TrAC - Trends in Analytical Chemistry, 2024, 172, 117563.	11.4	0
480	Ascertaining appropriate measuring methods to determine tire wear particle pollution on driving school grounds in China. Journal of Hazardous Materials, 2024, 466, 133657.	12.4	0
481	Mikroplastik weltweit â€“ Die Belastung in Deutschland im internationalen Vergleich. , 2023, , 213-220.		0
482	Evaluation of tire wear particle concentrations in TSP and PM10 using polymeric and molecular markers. Chemical Engineering Research and Design, 2024, 184, 342-354.	5.6	0
483	Interspecific interactions disrupted by roads. Biological Reviews, 2024, 99, 1121-1139.	10.4	0
484	Wear Behavior of SBR/BR Compounds Including Different ZnO Types. Journal of Physics: Conference Series, 2024, 2692, 012010.	0.4	0
485	Value for money: a cost-effectiveness analysis of microplastic analytics in seawater. Microplastics and Nanoplastics, 2024, 4, .	8.8	1
486	Ecotoxicity of three typical tire wear particles to periphytic biofilms: The potentiating role after natural water-incubation-aging. Environmental Pollution, 2024, 345, 123561.	7.5	0
488	Firefighting wastewater from a tire recycling plant: Chemical characterization and simultaneous removal of multiple pollutants. Journal of Environmental Chemical Engineering, 2024, 12, 112148.	6.7	0
489	Leaching of tire particles and simultaneous biodegradation of leachables. Water Research, 2024, 253, 121322.	11.3	0
490	The Plastiverse Extends to Hydrogeologic Systems: Microplastics Are an Important Emerging Groundwater Contaminant Class. Ground Water Monitoring and Remediation, 2024, 44, 15-38.	0.8	0
491	Tire plastic and road-wear particles on Yujing Expressway in the restoration area of Mu Us Sandy Land: Occurrence characteristics and ecological risk screening. Journal of Hazardous Materials, 2024, 468, 133860.	12.4	0
493	Source, fate, toxicity, and remediation of micro-plastic in wetlands: A critical review. Watershed Ecology and the Environment, 2024, 6, 41-53.	1.8	0
494	Photoaged Tire Wear Particles Leading to the Oxidative Damage on Earthworms (Eisenia fetida) by Disrupting the Antioxidant Defense System: The Definitive Role of Environmental Free Radicals. Environmental Science & Technology, 2024, 58, 4500-4509.	10.0	0
495	Screening of organic chemicals associated to virgin low-density polyethylene microplastic pellets exposed to the Mediterranean Sea environment by combining gas chromatography and liquid chromatography coupled to quadrupole-time-of-flight mass spectrometry. Science of the Total Environment, 2024, 922, 171250.	8.0	0
496	Effect of tire wear particle accumulation on nitrogen removal and greenhouse gases abatement in bioretention systems: Soil characteristics, microbial community, and functional genes. Environmental Research, 2024, 251, 118574.	7.5	0
500	Non-targeted screening and photolysis transformation of tire-related compounds in roadway runoff. Science of the Total Environment, 2024, 924, 171622.	8.0	0
501	Assessment of Tire-Additive Transformation Product 6PPD-Quinone in Urban-Impacted Watersheds. ACS ES&T Water, 2024, 4, 1422-1432.	4.6	0

#	Article	IF	Citations
502	Mixture toxicity of 6PPD-quinone and polystyrene nanoplastics in zebrafish. Environmental Pollution, 2024, 348, 123835.	7.5	0
503	Re-Interpretation of Metal(Loid) Concentrations in Urban Soils of Two Different Land Uses by Positive Matrix Factorisation. Environmental Forensics, 0, , 1-19.	2.6	0
504	Enhancing groundwater recharge in drinking water protection zones in Flanders (Belgium): A novel approach to assess stormwater managed aquifer recharge potential. Journal of Hydrology: Regional Studies, 2024, 53, 101747.	2.4	0
505	A perspective on the impacts of microplastics on mosquito biology and their vectorial capacity. Medical and Veterinary Entomology, 2024, 38, 138-147.	1.5	0
506	Model-based analysis of erosion-induced microplastic delivery from arable land to the stream network of a mesoscale catchment. Soil, 2024, 10, 211-230.	4.9	0