

An overview of commercially used brominated flame retardants, their
use patterns in different countries/regions and possible alternatives

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Citation Report

#	ARTICLE	IF	CITATIONS
3	Levels and trends of polybrominated diphenylethers and other brominated flame retardants in wildlife. <i>Environment International</i> , 2003, 29, 757-770.	4.8	375
4	Polybrominated Diphenyl Ethers (PBDEs): New Pollutants-Old Diseases. <i>Clinical Medicine and Research</i> , 2003, 1, 281-290.	0.4	269
5	Different Levels of Polybrominated Diphenyl Ethers (PBDEs) and Chlorinated Compounds in Breast Milk from Two U.K. Regions. <i>Environmental Health Perspectives</i> , 2004, 112, 1085-1091.	2.8	198
6	The state of contaminants in the Greenland environment. <i>Science of the Total Environment</i> , 2004, 331, 1-4.	3.9	5
7	Polybrominated diphenyl ethers and organochlorine compounds in biota from the marine environment of East Greenland. <i>Science of the Total Environment</i> , 2004, 331, 143-155.	3.9	62
8	DIETARY ACCUMULATION AND METABOLISM OF POLYBROMINATED DIPHENYL ETHERS BY JUVENILE CARP (CYPRINUS CARPIO). <i>Environmental Toxicology and Chemistry</i> , 2004, 23, 1939.	2.2	146
9	Human exposure to polybrominated diphenyl ethers through the diet. <i>Journal of Chromatography A</i> , 2004, 1054, 321-326.	1.8	117
10	Temporal Trends and Spatial Distributions of Brominated Flame Retardants in Archived Fishes from the Great Lakes. <i>Environmental Science & Technology</i> , 2004, 38, 2779-2784.	4.6	160
11	Atmospheric Emissions of Polybrominated Diphenyl Ethers and Other Persistent Organic Pollutants during a Major Anthropogenic Combustion Event. <i>Environmental Science & Technology</i> , 2004, 38, 1681-1685.	4.6	54
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15	Polybrominated Diphenyl Ethers in the Environment and in People: A Meta-Analysis of Concentrations. <i>Environmental Science & Technology</i> , 2004, 38, 945-956.	4.6	1,400
16	Levels and Temporal Trends (1988~1999) of Polybrominated Diphenyl Ethers in Beluga Whales (<i>Delphinapterus leucas</i>) from the St. Lawrence Estuary, Canada. <i>Environmental Science & Technology</i> , 2004, 38, 2971-2977.	4.6	91
17	Global Pollution Monitoring of Polybrominated Diphenyl Ethers Using Skipjack Tuna as a Bioindicator. <i>Environmental Science & Technology</i> , 2004, 38, 2312-2316.	4.6	158
18	Distribution and Fate of HBCD and TBBPA Brominated Flame Retardants in North Sea Estuaries and Aquatic Food Webs. <i>Environmental Science & Technology</i> , 2004, 38, 5497-5504.	4.6	513
19	Occurrence and Bioavailability of Polybrominated Diphenyl Ethers and Hexabromocyclododecane in Sediment and Fish from the Cinca River, a Tributary of the Ebro River (Spain). <i>Environmental Science & Technology</i> , 2004, 38, 2603-2608.	4.6	213
20	LC-ESI-MS-MS method for the analysis of tetrabromobisphenol A in sediment and sewage sludge. <i>Analyst</i> , 2004, 129, 724.	1.7	84

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22	Polybrominated Diphenyl Ether Flame Retardants in the U.S. Population: Current Levels, Temporal Trends, and Comparison With Dioxins, Dibenzofurans, and Polychlorinated Biphenyls. <i>Journal of Occupational and Environmental Medicine</i> , 2005, 47, 199-211.	0.9	300
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34	Effect of Sewage-Sludge Application on Concentrations of Higher-Brominated Diphenyl Ethers in Soils and Earthworms. <i>Environmental Science & Technology</i> , 2005, 39, 9064-9070.	4.6	145
35	Identification of Brominated Carbazoles in Sediment Cores from Lake Michigan. <i>Environmental Science & Technology</i> , 2005, 39, 9446-9451.	4.6	82
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107	Spatial distribution and accumulation of brominated flame retardants, polychlorinated biphenyls and organochlorine pesticides in blue mussels (<i>Mytilus edulis</i>) from coastal waters of Korea. <i>Environmental Pollution</i> , 2007, 148, 562-569.	3.7	82
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126	Brominated Flame Retardants in North-East Atlantic Marine Ecosystems. <i>Environmental Health Perspectives</i> , 2007, 115, 35-41.	2.8	85
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507	Polybrominated diphenyl ethers in fat samples from White-chinned Petrels (<i>Procellaria</i>) Tj ETQqO O O rgBT /Overlock 10 Tf 50 187 Td (ae Bulletin, 2013, 77, 396-399.	2.3	7
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521	Chlorinated compounds and polybrominated diphenyl ethers (PBDEs) in mussels (<i>Mytilus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	2.3	31
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534	Bioaccumulation of polybrominated diphenyl ethers and several alternative halogenated flame retardants in a small herbivorous food chain. <i>Environmental Pollution</i> , 2013, 174, 164-170.	3.7	57
535	Polybrominated diphenyl ethers (PBDEs) and hexabromocyclododecane (HBCD) in seven different marine bird species from Iceland. <i>Chemosphere</i> , 2013, 93, 1526-1532.	4.2	17
536	Effect of copper on in vivo fate of BDE-209 in pumpkin. <i>Journal of Hazardous Materials</i> , 2013, 262, 311-317.	6.5	19
537	Spatial distributions and temporal trends in polybrominated diphenyl ethers in Detroit River suspended sediments. <i>Chemosphere</i> , 2013, 91, 778-783.	4.2	21
538	In vitro endocrine disruption and TCDD-like effects of three novel brominated flame retardants: TBPH, TBB, & TBCO. <i>Toxicology Letters</i> , 2013, 223, 252-259.	0.4	71
539	In vitro endocrine disruption potential of organophosphate flame retardants via human nuclear receptors. <i>Toxicology</i> , 2013, 314, 76-83.	2.0	276
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822	Role of brominated diphenyl ether-209 in the proliferation and apoptosis of rat cultured neural stem cells in vitro. <i>Molecular and Cellular Toxicology</i> , 2016, 12, 45-52.	0.8	10
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961	Elevated Concentrations of 4-Bromobiphenyl and 1,3,5-Tribromobenzene Found in Deep Water of Lake Geneva Based on GC-MS-TOFMS and GC-MS-ECD. <i>ACS Omega</i> , 2017, 2, 641-652.	1.6	13
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967	Profiling of Selected Functional Metabolites in the Central Nervous System of Marine Medaka (<i>Oryzias melastigma</i>) for Environmental Neurotoxicological Assessments. <i>Archives of Environmental Contamination and Toxicology</i> , 2017, 72, 269-280.	2.1	7
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977	Exposure to flame retardant chemicals and occurrence and severity of papillary thyroid cancer: A case-control study. <i>Environment International</i> , 2017, 107, 235-242.	4.8	118
978	Simultaneous liquid chromatography–tandem mass spectrometry analysis of brominated flame retardants (tetrabromobisphenol A and hexabromocyclododecane diastereoisomers) in French breast milk. <i>Chemosphere</i> , 2017, 186, 762-769.	4.2	25
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995	Recovery of waste printed circuit boards through pyrometallurgical processing: A review. <i>Resources, Conservation and Recycling</i> , 2017, 126, 209-218.	5.3	136
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1017	Determination of hexabromocyclododecane in soil by supercritical fluid extraction and gas chromatography mass spectrometry. <i>Analytical Methods</i> , 2018, 10, 1181-1189.	1.3	8
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1054	High levels of medium-chain chlorinated paraffins and polybrominated diphenyl ethers on the inside of several household baking oven doors. <i>Science of the Total Environment</i> , 2018, 615, 1019-1027.	3.9	44
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1093	Integrating population connectivity into pollution assessment: Overwintering mixing reveals flame retardant contamination in breeding areas in a migratory raptor. <i>Environmental Research</i> , 2018, 166, 553-561.	3.7	14
1094	Time Trends of Polybrominated Diphenyl Ethers (PBDEs) in Antarctic Biota. <i>ACS Omega</i> , 2018, 3, 6595-6604.	1.6	21
1095	Application of polymer nanocomposites in the flame retardancy study. <i>Journal of Loss Prevention in the Process Industries</i> , 2018, 55, 381-391.	1.7	47
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1097	Simultaneous Screening of Major Flame Retardants and Plasticizers in Polymer Materials Using Pyrolyzer/Thermal Desorption Gas Chromatography Mass Spectrometry (Py/TD- $\hat{\Gamma}$ C-MS). <i>Molecules</i> , 2018, 23, 728.	1.7	21
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1100	High efficient alternating anaerobic/aerobic process for polyester resin wastewater treatment: Performance and microbial community structure. <i>Biochemical Engineering Journal</i> , 2018, 138, 121-130.	1.8	23
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1102	HBCD and TBBPA in human scalp hair: Evidence of internal exposure. <i>Chemosphere</i> , 2018, 207, 70-77.	4.2	46
1103	Photodegradation of brominated flame retardants in polystyrene: Quantum yields, products and influencing factors. <i>Chemosphere</i> , 2018, 211, 943-951.	4.2	25
1104	Estimation of Exposure to Organic Flame Retardants via Hand Wipe, Surface Wipe, and Dust: Comparability of Different Assessment Strategies. <i>Environmental Science & Technology</i> , 2018, 52, 9946-9953.	4.6	52
1105	Prioritization of 10 organic flame retardants using an avian hepatocyte toxicogenomic assay. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 3134-3144.	2.2	23
1106	Determination of polybrominated diphenyl ethers in human serum by gas chromatography $\hat{\Gamma}$ inductively coupled plasma mass spectrometry. <i>Journal of Chromatography A</i> , 2018, 1572, 112-118.	1.8	9
1107	Green synthesis of bromine by TiO ₂ heterogeneous photocatalysis and/or ozone: A kinetic study. <i>Journal of Catalysis</i> , 2018, 366, 167-175.	3.1	13
1108	Tetrabromobisphenol A alters soil microbial community via selective antibacterial activity. <i>Ecotoxicology and Environmental Safety</i> , 2018, 164, 597-603.	2.9	14
1109	Toxicological Risks and Considerations Associated With Lipophilic Contaminant Burdens of Southern Ocean Mysticetes. , 2018, , 381-400.		7

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1124	Concentrations of Brominated Flame Retardants in Indoor Air and Dust from Ireland Reveal Elevated Exposure to Decabromodiphenyl Ethane. Environmental Science & Technology, 2019, 53, 9826-9836.	4.6	62
1125	Using high-throughput transcriptome sequencing to investigate the biotransformation mechanism of hexabromocyclododecane with Rhodospseudomonas palustris in water. Science of the Total Environment, 2019, 692, 249-258.	3.9	18
1126	Temporal and spatial surveys of polybromodiphenyl ethers (PBDEs) contamination of soil near a factory using PBDEs in northern Taiwan. Chemosphere, 2019, 236, 124117.	4.2	11
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1129	Characterization of environmentally friendly degradation of hexabromocyclododecane by a <i>Bacillus</i> strain HBCD-sjtu. <i>International Biodeterioration and Biodegradation</i> , 2019, 145, 104794.	1.9	13
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1134	Metabolic profiling study on potential toxicity in male mice treated with Dechlorane 602 using UHPLC-ESI-IT-TOF-MS. <i>Environmental Pollution</i> , 2019, 246, 141-147.	3.7	9
1135	Spatial and Temporal Trends (2004-2016) of Selected Alternative Flame Retardants in Fish of the Laurentian Great Lakes. <i>Environmental Science & Technology</i> , 2019, 53, 1786-1796.	4.6	12
1136	Molecular mechanisms and tissue targets of brominated flame retardants, BDE-47 and TBBPA, in embryo-larval life stages of zebrafish (<i>Danio rerio</i>). <i>Aquatic Toxicology</i> , 2019, 209, 99-112.	1.9	50
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1139	Release of tetrabromobisphenol A (TBBPA)-derived non-extractable residues in oxic soil and the effects of the TBBPA-degrading bacterium <i>Ochrobactrum</i> sp. strain T. <i>Journal of Hazardous Materials</i> , 2019, 378, 120666.	6.5	15
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1144	Abundances and concentrations of brominated azo dyes detected in indoor dust. <i>Environmental Pollution</i> , 2019, 252, 784-793.	3.7	18
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1147	Strategies for controlling release of plastic compounds into foodstuffs based on application of nanoparticles and its potential health issues. <i>Trends in Food Science and Technology</i> , 2019, 90, 1-12.	7.8	27
1148	Selective decomposition of hexabromocyclododecane in polystyrene and recyclability improvement of its polymeric component. <i>Polymer Degradation and Stability</i> , 2019, 166, 40-49.	2.7	0
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1151	Rat strain response differences upon exposure to technical or alpha hexabromocyclododecane. <i>Food and Chemical Toxicology</i> , 2019, 130, 284-307.	1.8	10
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1156	Decreasing but still high levels of halogenated flame retardants in wetland birds in central Spain. <i>Chemosphere</i> , 2019, 228, 83-92.	4.2	6
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1158	Halogenated flame retardants in mangrove sediments from the Pearl River Estuary, South China: Comparison with historical data and correlation with microbial community. <i>Chemosphere</i> , 2019, 227, 315-322.	4.2	25
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1160	Kinetics and mechanisms of debromination of tetrabromobisphenol A by Cu coated nano zerovalent iron. <i>Chemical Engineering Journal</i> , 2019, 373, 95-103.	6.6	29
1161	Rapid and simultaneous analysis of tetrabromobisphenol A and hexabromocyclododecane in water by direct immersion solid phase microextraction: Uniform design to explore factors. <i>Ecotoxicology and Environmental Safety</i> , 2019, 176, 364-369.	2.9	12
1162	Contaminant and Environmental Influences on Thyroid Hormone Action in Amphibian Metamorphosis. <i>Frontiers in Endocrinology</i> , 2019, 10, 276.	1.5	54
1163	Persistent Halogenated Organic Pollutants in Surface Water in a Megacity: Distribution Characteristics and Ecological Risks in Wuhan, China. <i>Archives of Environmental Contamination and Toxicology</i> , 2019, 77, 98-114.	2.1	9

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1165	Synergistic Effect of Photocatalytic Degradation of Hexabromocyclododecane in Water by UV/TiO ₂ /persulfate. <i>Catalysts</i> , 2019, 9, 189.	1.6	24
1166	Toxicity of BDE-47, BDE-99 and BDE-153 on swimming behavior of the unicellular marine microalgae <i>Platymonas subcordiformis</i> and implications for seawater quality assessment. <i>Ecotoxicology and Environmental Safety</i> , 2019, 174, 408-416.	2.9	16
1167	Phytotoxicity and genotoxicity evaluation of 2,4,6-tribromophenol solution treated by UV-based oxidation processes. <i>Environmental Pollution</i> , 2019, 249, 354-361.	3.7	13
1168	Tris (1,3-dichloro-2-propyl) phosphate treatment induces DNA damage, cell cycle arrest and apoptosis in murine RAW264.7 macrophages. <i>Journal of Toxicological Sciences</i> , 2019, 44, 133-144.	0.7	11
1169	Hepatic transcriptional dose-response analysis of male and female Fischer rats exposed to hexabromocyclododecane. <i>Food and Chemical Toxicology</i> , 2019, 133, 110262.	1.8	25
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1171	Halogenated and organophosphorus flame retardants in cetaceans from the southwestern Indian Ocean. <i>Chemosphere</i> , 2019, 226, 791-799.	4.2	51
1172	Is informal electronic waste recycling a newer source for atmospheric industrial persistent organic pollutants in Indian metropolitan cities?. <i>Current Opinion in Environmental Science and Health</i> , 2019, 8, 29-35.	2.1	11
1173	Recycled construction and demolition waste as a possible source of materials for composite manufacturing. <i>Journal of Building Engineering</i> , 2019, 24, 100742.	1.6	79
1174	Biotransformation of short-chain chlorinated paraffins (SCCPs) with LinA2: A HCH and HBCD converting bacterial dehydrohalogenase. <i>Chemosphere</i> , 2019, 226, 744-754.	4.2	31
1175	Contamination and ecological risk of polybrominated diphenyl ethers (PBDEs) in surface sediments of mangrove wetlands: A nationwide study in China. <i>Environmental Pollution</i> , 2019, 249, 992-1001.	3.7	35
1176	Polychlorinated Biphenyls, Polybrominated Biphenyls, and Brominated Flame Retardants. , 2019, , 501-518.		4
1177	Flame retardant concentrations and profiles in wild birds associated with landfill: A critical review. <i>Environmental Pollution</i> , 2019, 248, 646-658.	3.7	39
1178	Characterization and Source Identification of Polybrominated Diphenyl Ethers (PBDEs) in Air in Xi'an: Based on a Five-Year Study. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 520.	1.2	2
1179	Cardiovascular toxicity of decabrominated diphenyl ethers (BDE-209) and decabromodiphenyl ethane (DBDPE) in rats. <i>Chemosphere</i> , 2019, 223, 675-685.	4.2	81
1180	Toughening and enhancing mechanical and thermal properties of adhesives and glass-fiber reinforced epoxy composites by brominated epoxy. <i>Composites Part B: Engineering</i> , 2019, 165, 604-612.	5.9	28
1181	Comparing pollution patterns and human exposure to atmospheric PBDEs and PCBs emitted from different e-waste dismantling processes. <i>Journal of Hazardous Materials</i> , 2019, 369, 142-149.	6.5	58

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1184	e-WASTE: Everything an ICT Scientist and Developer Should Know. IEEE Access, 2019, 7, 169614-169635.	2.6	15
1185	Highly sensitive and selective fluorescent sensor for tetrabromobisphenol-A in electronic waste samples using molecularly imprinted polymer coated quantum dots. Microchemical Journal, 2019, 144, 93-101.	2.3	51
1186	Characterization of polybrominated diphenyl ethers (PBDEs) in various aqueous samples in Taiwan. Science of the Total Environment, 2019, 649, 388-395.	3.9	32
1187	Analytical methods for the determination of emerging contaminants in sewage sludge samples. A review. Talanta, 2019, 192, 508-533.	2.9	112
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1190	Novel brominated flame retardant (NBFR) concentrations and spatial distributions in global fishmeal. Ecotoxicology and Environmental Safety, 2019, 170, 306-313.	2.9	22
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1192	Efficient photocatalytic debromination of 2,2,4,4-tetrabromodiphenyl ether by Ag-loaded CdS particles under visible light. Chemosphere, 2019, 220, 723-730.	4.2	8
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1199	In Situ Microbial Degradation of PBDEs in Sediments from an E-Waste Site as Revealed by Positive Matrix Factorization and Compound-Specific Stable Carbon Isotope Analysis. Environmental Science & Technology, 2019, 53, 1928-1936.	4.6	55

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1202	Thermal decomposition of brominated flame retardants (BFRs): Products and mechanisms. <i>Progress in Energy and Combustion Science</i> , 2019, 70, 212-259.	15.8	168
1203	Measurement of legacy and emerging flame retardants in indoor dust from a rural village (Kopawa) in Nepal: Implication for source apportionment and health risk assessment. <i>Ecotoxicology and Environmental Safety</i> , 2019, 168, 304-314.	2.9	40
1204	Unraveling the Exposome. , 2019, , .		9
1205	The Dust Exposome. , 2019, , 247-254.		4
1206	Determination of HFRs and OPFRs in PM2.5 by ultrasonic-assisted extraction combined with multi-segment column purification and GC-MS/MS. <i>Talanta</i> , 2019, 194, 320-328.	2.9	24
1207	The effect of brominated epoxy on epoxy/phenolic reactive blends. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47172.	1.3	4
1208	Designing modified polybrominated diphenyl ether BDE-47, BDE-99, BDE-100, BDE-183, and BDE-209 molecules with decreased estrogenic activities using 3D-QSAR, pharmacophore models coupled with resolution V of the 210-3 fractional factorial design and molecular docking. <i>Journal of Hazardous Materials</i> , 2019, 364, 151-162.	6.5	26
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1211	Oxidation of 2,4-bromophenol by UV/PDS and formation of bromate and brominated products: A comparison to UV/H ₂ O ₂ . <i>Chemical Engineering Journal</i> , 2019, 358, 1342-1350.	6.6	50
1212	In situ synthesized and dispersed melamine polyphosphate flame retardant epoxy resin composites. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47194.	1.3	19
1213	Organohalogenated Contaminants (OHCs) in Surface Sediments and Water of East Dongting Lake and Hong Lake, China. <i>Archives of Environmental Contamination and Toxicology</i> , 2019, 76, 157-170.	2.1	25
1214	Extracellular polymeric substances (EPS) modulate adsorption isotherms between biochar and 2,2,4,4-tetrabromodiphenyl ether. <i>Chemosphere</i> , 2019, 214, 176-183.	4.2	28
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1218	Bioaccumulation and biomagnification of hexabromocyclododecane (HBCDD) in insect-dominated food webs from a former e-waste recycling site in South China. <i>Chemosphere</i> , 2020, 240, 124813.	4.2	10

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1222	Modeling the Fate of Chemicals in Products. Springer Theses, 2020, , .	0.0	3
1223	Oxidation of tetrabromobisphenol A (TBBPA) by peroxymonosulfate: The role of in-situ formed HOBr. <i>Water Research</i> , 2020, 169, 115202.	5.3	47
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1225	Technical textiles for military applications. <i>Journal of the Textile Institute</i> , 2020, 111, 273-308.	1.0	35
1226	Renewable nanobrick wall coatings for fire protection of wood. <i>Green Materials</i> , 2020, 8, 131-138.	1.1	10
1227	Occurrence and congener profiles of polybrominated diphenyl ethers in green mussels (<i>Perna viridis</i>) collected from northern South China Sea and the associated potential health risk. <i>Science of the Total Environment</i> , 2020, 698, 134276.	3.9	13
1228	Halogenated flame retardants in sediments from the Upper Laurentian Great Lakes: Implications to long-range transport and evidence of long-term transformation. <i>Journal of Hazardous Materials</i> , 2020, 384, 121346.	6.5	13
1229	Occurrence and potential risks of emerging contaminants in water. , 2020, , 1-25.		13
1230	Ammoniated MOF-74(Zn) derivatives as luminescent sensor for highly selective detection of tetrabromobisphenol A. <i>Ecotoxicology and Environmental Safety</i> , 2020, 187, 109821.	2.9	25
1231	Occurrence, air-sea exchange, and gas-particle partitioning of atmospheric polybrominated diphenyl ethers from East Asia to the Northwest Pacific Ocean. <i>Chemosphere</i> , 2020, 240, 124933.	4.2	10
1232	Ecotoxicity of emerging halogenated flame retardants. <i>Comprehensive Analytical Chemistry</i> , 2020, 88, 71-105.	0.7	7
1233	Transcriptomic and Proteomic Responses of the Organohalide-Respiring Bacterium <i>Desulfoluna spongiphila</i> to Growth with 2,6-Dibromophenol as the Electron Acceptor. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	13
1234	Contaminant-related oxidative distress in common kingfisher (<i>Alcedo atthis</i>) breeding at an e-waste site in South China. <i>Environmental Research</i> , 2020, 182, 109079.	3.7	7
1235	Assessment of persistent organic pollutants (POPs) in sediments of the Eastern Indian Ocean. <i>Science of the Total Environment</i> , 2020, 710, 136335.	3.9	30
1236	Alternative halogenated flame retardants (AHFRs) in green mussels from the south China sea. <i>Environmental Research</i> , 2020, 182, 109082.	3.7	7

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1238	Polybrominated diphenyl ethers and organophosphate esters flame retardants in play mats from China and the exposure risks for children. <i>Environment International</i> , 2020, 135, 105348.	4.8	30
1240	Improvement of the dispersity of micro-nano particles for PP/PVC composites using gas-assisted dispersion in a controlled foaming process. <i>Polymer Engineering and Science</i> , 2020, 60, 524-534.	1.5	9
1241	Exposure to HBCD promotes adipogenesis both in vitro and in vivo by interfering with Wnt6 expression. <i>Science of the Total Environment</i> , 2020, 705, 135917.	3.9	18
1242	Thermogravimetric analysis of aromatic boronic acids for potential flame retardant applications. <i>Thermochimica Acta</i> , 2020, 683, 178476.	1.2	13
1243	Single sample preparation for brominated flame retardants in fish and shellfish with dual detection: GC-MS/MS (PBDEs) and LC-MS/MS (HBCDs). <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 397-411.	1.9	18
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1245	A Bio-derived Char Forming Flame Retardant Additive for Nylon 6 Based on Crosslinked Tannic Acid. <i>Thermochimica Acta</i> , 2020, 693, 178750.	1.2	16
1246	X-Ray fluorescence analysis of Mexican varieties of dried chili peppers. <i>Journal of Food Composition and Analysis</i> , 2020, 93, 103592.	1.9	1
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1248	Synergistic Effects of Black Phosphorus/Boron Nitride Nanosheets on Enhancing the Flame-Retardant Properties of Waterborne Polyurethane and Its Flame-Retardant Mechanism. <i>Polymers</i> , 2020, 12, 1487.	2.0	50
1249	In Vivo Accumulation of Plastic-Derived Chemicals into Seabird Tissues. <i>Current Biology</i> , 2020, 30, 723-728.e3.	1.8	82
1250	Suitability and Modification of Different Renewable Materials as Feedstock for Sustainable Flame Retardants. <i>Molecules</i> , 2020, 25, 5122.	1.7	13
1251	Tetrabromobisphenol A, terabromobisphenol S and other bromophenolic flame retardants cause cytotoxic effects and induce oxidative stress in human peripheral blood mononuclear cells (in vitro) Tj ETQq1 1 0.784314 rgBT /Overbo		
1252	Release kinetics as a key linkage between the occurrence of flame retardants in microplastics and their risk to the environment and ecosystem: A critical review. <i>Water Research</i> , 2020, 185, 116253.	5.3	59
1253	Foamed Polystyrene in the Marine Environment: Sources, Additives, Transport, Behavior, and Impacts. <i>Environmental Science & Technology</i> , 2020, 54, 10411-10420.	4.6	69
1254	Pet hair as a potential sentinel of human exposure: Investigating partitioning and exposures from OPEs and PAHs in indoor dust, air, and pet hair from China. <i>Science of the Total Environment</i> , 2020, 745, 140934.	3.9	19
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1258	Thermal Degradation of Polystyrene (PS) Nanocomposites Loaded with Sol Gel-Synthesized ZnO Nanorods. <i>Polymers</i> , 2020, 12, 1935.	2.0	28
1259	Polycarbonate/Sulfonamide Composites with Ultralow Contents of Halogen-Free Flame Retardant and Desirable Compatibility. <i>Materials</i> , 2020, 13, 3656.	1.3	12
1260	Human Health Risk Assessment by Dietary Intake and Spatial Distribution Pattern of Polybrominated Diphenyl Ethers and Dechloran Plus from Selected Cities of Pakistan. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 9543.	1.2	7
1261	Photodegradation of Decabromo Diphenyl Ether Flame Retardant in Poly (Acrylonitrile Butadiene) Tj ETQq1 1 0.784314 rgBT /Overlo	0.4	4
1262	Introduction of emerging halogenated flame retardants in the environment. <i>Comprehensive Analytical Chemistry</i> , 2020, 88, 1-39.	0.7	22
1263	Maternal exposure to organophosphate flame retardants alters locomotor and anxiety-like behavior in male and female adult offspring. <i>Hormones and Behavior</i> , 2020, 122, 104759.	1.0	25
1264	Photodegradation of 1,3,5-Tris-(2,3-dibromopropyl)-1,3,5-triazine-2,4,6-trione and decabromodiphenyl ethane flame retardants: Kinetics, Main products, and environmental implications. <i>Journal of Hazardous Materials</i> , 2020, 398, 122983.	6.5	9
1265	Assessment of PCDD/Fs, dioxin-like PCBs and PBDEs in Mediterranean striped dolphins. <i>Marine Pollution Bulletin</i> , 2020, 156, 111207.	2.3	10
1266	Flame-retardant and Self-healing Biomass Aerogels Based on Electrostatic Assembly. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020, 38, 1294-1304.	2.0	19
1267	Supramolecular solvent-based microextraction of aryl-phosphate flame retardants in indoor dust from houses and education buildings in Spain. <i>Science of the Total Environment</i> , 2020, 733, 139291.	3.9	16
1268	Organic contaminants formed during fire extinguishing using different firefighting methods assessed by nontarget analysis. <i>Environmental Pollution</i> , 2020, 265, 114834.	3.7	9
1269	Halogenated organic contaminants of concern in urban-influenced waters of Lake Ontario, Canada: Passive sampling with targeted and non-targeted screening. <i>Environmental Pollution</i> , 2020, 264, 114733.	3.7	22
1270	Novel <sc>multi</sc>-element DOPO</sc> derivative toward <sc>low</sc>-flammability</sc> epoxy resin. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49427.	1.3	30
1271	Occurrence of Halogenated and Organophosphate Flame Retardants in Sediments and Eels (<i>Anguilla</i>) Tj ETQq1 1 0.784314 rgBT /Overlo	1.5	7
1272	Chemical identity and cardiovascular toxicity of hydrophobic organic components in PM2.5. <i>Ecotoxicology and Environmental Safety</i> , 2020, 201, 110827.	2.9	39
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1276	Efficient removal of tetrabromobisphenol A (TBBPA) using sewage sludge-derived biochar: Adsorptive effect and mechanism. <i>Chemosphere</i> , 2020, 251, 126370.	4.2	51
1277	Compound-specific carbon isotope analysis for mechanistic characterization of debromination of decabrominated diphenyl ether. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8758.	0.7	2
1278	Facile synthesis of a Co/Fe bi-MOFs/CNF membrane nanocomposite and its application in the degradation of tetrabromobisphenol A. <i>Carbohydrate Polymers</i> , 2020, 247, 116731.	5.1	58
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1280	Metabolomics strategies and analytical techniques for the investigation of contaminants of industrial origin. , 2020, , 195-233.		0
1281	Temporal Trends in Polybrominated Diphenylethers (PBDEs) in Blubber of Ringed Seals (<i>Pusa hispida</i>) from Ulukhaktok, NT, Canada Between 1981 and 2015. <i>Archives of Environmental Contamination and Toxicology</i> , 2020, 79, 167-176.	2.1	7
1282	Novel trends in the thermo-chemical recycling of plastics from WEEE containing brominated flame retardants. <i>Environmental Science and Pollution Research</i> , 2021, 28, 59190-59213.	2.7	36
1283	Hydrated and anhydrous zinc borate fillers for tuning the flame retardancy of epoxy nanocomposites. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48987.	1.3	13
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1285	Trends of production, consumption and environmental emissions of Decabromodiphenyl ether in mainland China. <i>Environmental Pollution</i> , 2020, 260, 114022.	3.7	33
1286	Perinatal low-dose PBDE-47 exposure hampered thyroglobulin turnover and induced thyroid cell apoptosis by triggering ER stress and lysosomal destabilization contributing to thyroid toxicity in adult female rats. <i>Journal of Hazardous Materials</i> , 2020, 392, 122265.	6.5	24
1287	A Detailed Review Study on Potential Effects of Microplastics and Additives of Concern on Human Health. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 1212.	1.2	804
1288	Halogenated flame retardants in atmospheric particles from a North African coastal city (Bizerte,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 831-840.	1.8	7
1289	Cellular changes of microbial consortium GY1 during decabromodiphenyl ether (BDE-209) biodegradation and identification of strains responsible for BDE-209 degradation in GY1. <i>Chemosphere</i> , 2020, 249, 126205.	4.2	19
1290	Structural binding interactions of tetrabromobisphenol A with sex steroid nuclear receptors and sex hormone-binding globulin. <i>Journal of Applied Toxicology</i> , 2020, 40, 832-842.	1.4	5
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1295	Analysing Flammability Characteristics of Green Biocomposites: An Overview. <i>Fire Technology</i> , 2021, 57, 31-67.	1.5	29
1296	Advancements in traditional and nanosized flame retardants for polymers—A review. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50050.	1.3	51
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1299	Assessing the effects of textile leachates in fish using multiple testing methods: From gene expression to behavior. <i>Ecotoxicology and Environmental Safety</i> , 2021, 207, 111523.	2.9	37
1300	Magnesium hydroxide nanoparticles grafted by DOPO and its flame retardancy in ethylene–vinyl acetate copolymers. <i>Journal of Applied Polymer Science</i> , 2021, 138, .	1.3	22
1301	Hydrogen bromide in syngas: Effects on tar reforming, water gas-shift activities and sintering of Ni-based catalysts. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119435.	10.8	9
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1303	Determinants of flame retardants in non-occupationally exposed individuals – A review. <i>Chemosphere</i> , 2021, 263, 127923.	4.2	9
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1305	Concentrations of organic contaminants in industrial and municipal bioresources recycled in agriculture in the UK. <i>Science of the Total Environment</i> , 2021, 765, 142787.	3.9	24
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1307	<i>In Utero</i> and Lactational Exposure to an Environmentally Relevant Mixture of Brominated Flame Retardants Induces a Premature Development of the Mammary Glands. <i>Toxicological Sciences</i> , 2021, 179, 206-219.	1.4	7
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1311	Temporal trends of halogenated and organophosphate contaminants in striped dolphins from the Mediterranean Sea. <i>Science of the Total Environment</i> , 2021, 753, 142205.	3.9	23
1312	Contamination levels and temporal trends of legacy and current-use brominated flame retardants in a dated sediment core from Beppu Bay, southwestern Japan. <i>Chemosphere</i> , 2021, 266, 129180.	4.2	18
1313	Biomarkers, matrices and analytical methods targeting human exposure to chemicals selected for a European human biomonitoring initiative. <i>Environment International</i> , 2021, 146, 106082.	4.8	83
1314	Evaluating couch polyurethane foam for a potential passive sampler of semivolatile organic compounds. <i>Chemosphere</i> , 2021, 271, 129349.	4.2	1
1315	Brominated and phosphate flame retardants from interior and surface dust of personal computers: insights into sources for human dermal exposure. <i>Environmental Science and Pollution Research</i> , 2021, 28, 12566-12575.	2.7	12
1316	Thyroid hormone, gene expression, and Central Nervous System: Where we are. <i>Seminars in Cell and Developmental Biology</i> , 2021, 114, 47-56.	2.3	20
1317	Gas chromatographic analysis of emerging and persistent environmental contaminants. , 2021, , 835-864.		2
1318	A comparison of developmental toxicity of brominated and halogen-free flame retardant on zebrafish. <i>Ecotoxicology and Environmental Safety</i> , 2021, 208, 111745.	2.9	14
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1320	On-line spectroscopic study of brominated flame retardant extraction in supercritical CO ₂ . <i>Chemosphere</i> , 2021, 263, 128282.	4.2	10
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1322	Microbial Degradation of Organic Constituents for Sustainable Development. , 2021, , 103-117.		0
1323	Thirteen scarce resources analyzed. , 2021, , 147-380.		1
1324	Fire-Safe Polymer Composites: Flame-Retardant Effect of Nanofillers. <i>Polymers</i> , 2021, 13, 540.	2.0	44
1325	Spatial and temporal variations of halogenated flame retardants and organophosphate esters in landfill air: Potential linkages with gull exposure. <i>Environmental Pollution</i> , 2021, 271, 116396.	3.7	13
1326	Alkyl sulfone bridged phosphorus flame-retardants for polypropylene. <i>Materials and Design</i> , 2021, 200, 109459.	3.3	15
1327	Chemical Recycling of WEEE Plastics—Production of High Purity Monocyclic Aromatic Chemicals. <i>Processes</i> , 2021, 9, 530.	1.3	14

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1329	A low-volume air sampling method for legacy and novel brominated flame retardants in indoor environment using a newly developed sorbent mixture. <i>Ecotoxicology and Environmental Safety</i> , 2021, 210, 111837.	2.9	1
1330	The Influence of Copper on Halogenation/Dehalogenation Reactions of Aromatic Compounds and Its Role in the Destruction of Polyhalogenated Aromatic Contaminants. <i>Catalysts</i> , 2021, 11, 378.	1.6	11
1331	Long-Term Field Study on Fate, Transformation, and Vertical Transport of Tetrabromobisphenol A in Soil-Plant Systems. <i>Environmental Science & Technology</i> , 2021, 55, 4607-4615.	4.6	5
1332	Polybrominated diphenyl ethers in surface sediments from fishing ports along the coast of Bohai Sea, China. <i>Marine Pollution Bulletin</i> , 2021, 164, 112037.	2.3	9
1333	Effects of the brominated flame retardant, TBCO, on development of zebrafish (<i>Danio rerio</i>) embryos. <i>Chemosphere</i> , 2021, 266, 129195.	4.2	7
1334	Potential health risk assessment of HFRs, PCBs, and OCPs in the Yellow River basin. <i>Environmental Pollution</i> , 2021, 275, 116648.	3.7	19
1335	Uncovering Evidence for Endocrine-Disrupting Chemicals That Elicit Differential Susceptibility through Gene-Environment Interactions. <i>Toxics</i> , 2021, 9, 77.	1.6	3
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1337	Contamination status, emission sources, and human health risk of brominated flame retardants in urban indoor dust from Hanoi, Vietnam: the replacement of legacy polybrominated diphenyl ether mixtures by alternative formulations. <i>Environmental Science and Pollution Research</i> , 2021, 28, 43885-43896.	2.7	8
1339	Brominated flame-retardant composition in firefighter bunker gear and its thermal performance analysis. <i>Journal of Fire Sciences</i> , 2021, 39, 207-223.	0.9	4
1340	High strength, low flammability, and smoke suppression for epoxy thermoset enabled by a low-loading phosphorus-nitrogen-silicon compound. <i>Composites Part B: Engineering</i> , 2021, 211, 108640.	5.9	80
1341	Cu-Catalyzed Hydrodehalogenation of Brominated Aromatic Pollutants in Aqueous Solution. <i>Catalysts</i> , 2021, 11, 699.	1.6	2
1342	Temporal trends of legacy and novel brominated flame retardants in sediments along the Rhône River corridor in France. <i>Chemosphere</i> , 2021, 271, 129889.	4.2	19
1343	Polybrominated diphenyl ethers (PBDEs) concentrations in soil and plants around municipal dumpsites in Abuja, Nigeria. <i>Environmental Pollution</i> , 2021, 277, 116794.	3.7	13
1344	Assessment of polybrominated diphenyl ethers and emerging brominated flame retardants in Pheretima (a Traditional Chinese Medicine): Occurrence, residue profiles, and potential health risks. <i>Environmental Pollution</i> , 2021, 276, 116680.	3.7	8
1345	Plastic additives in deep-sea debris collected from the western North Pacific and estimation for their environmental loads. <i>Science of the Total Environment</i> , 2021, 768, 144537.	3.9	18
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1348	The brominated flame retardants TBEC and DPTE alter prostate growth, histology and gene expression patterns in the mouse. <i>Reproductive Toxicology</i> , 2021, 102, 43-55.	1.3	4
1349	A facile and sustainable approach for simultaneously flame retarded, UV protective and reinforced poly(lactic acid) composites using fully bio-based complexing couples. <i>Composites Part B: Engineering</i> , 2021, 215, 108833.	5.9	62
1350	Disturbance of the Dlk1-Dio3 imprinted domain may underlie placental Dio3 suppression and extracellular thyroid hormone disturbance in placenta-derived JEG-3 cells following decabromodiphenyl ether (BDE209) exposure. <i>Toxicology</i> , 2021, 458, 152837.	2.0	6
1351	Occurrence, bioaccumulation, fate, and risk assessment of novel brominated flame retardants (NBFRs) in aquatic environments – A critical review. <i>Water Research</i> , 2021, 198, 117168.	5.3	90
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1353	Temporal trends of novel brominated flame retardants in mollusks from the Chinese Bohai Sea (2011–2018). <i>Science of the Total Environment</i> , 2021, 777, 146101.	3.9	12
1355	Environmental characteristics and formations of polybrominated dibenzo-p-dioxins and dibenzofurans. <i>Environment International</i> , 2021, 152, 106450.	4.8	22
1356	Critical review of analytical methods for the determination of flame retardants in human matrices. <i>Analytica Chimica Acta</i> , 2022, 1193, 338828.	2.6	9
1357	Polybrominated diphenyl ethers in indoor dusts from industrial factories, offices, and houses in northern Vietnam: Contamination characteristics and human exposure. <i>Environmental Geochemistry and Health</i> , 2022, 44, 2375-2388.	1.8	5
1358	The potential association of polybrominated diphenyl ether concentrations in serum to thyroid function in patients with abnormal thyroids: a pilot study. <i>Annals of Palliative Medicine</i> , 2021, 10, 9192-9205.	0.5	4
1359	A review of the success and challenges in characterizing human dermal exposure to flame retardants. <i>Archives of Toxicology</i> , 2021, 95, 3459-3473.	1.9	3
1360	A review of environmental occurrence, analysis, bioaccumulation, and toxicity of organophosphate esters. <i>Environmental Science and Pollution Research</i> , 2021, 28, 49507-49528.	2.7	50
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1362	Mechanistic insight into hydroxylation of 2,2,4,4-tetrabromodiphenyl ether during biodegradation by typical aerobic bacteria: Experimental and computational studies. <i>Journal of Hazardous Materials</i> , 2021, 416, 126132.	6.5	5
1363	Halogenated flame retardants in wild, prey-sized mud carp from an e-waste recycling site in South China, 2006–2016: Residue dynamics and ecological risk assessment. <i>Environmental Pollution</i> , 2021, 291, 118270.	3.7	4
1364	Potential environmental fate and risk based on the hydroxyl radical-initiated transformation of atmospheric 1,2-dibromo-4-(1,2-dibromoethyl)cyclohexane stereoisomers. <i>Journal of Hazardous Materials</i> , 2021, 417, 126031.	6.5	3
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1366	Nucleophilic and redox properties of polybrominated diphenyl ether derived-quinone/hydroquinone metabolites are responsible for their neurotoxicity. <i>Journal of Hazardous Materials</i> , 2021, 420, 126697.	6.5	10
1367	A PBPK model describing the pharmacokinetics of $\hat{\text{I}}^3$ -HBCD exposure in mice. <i>Toxicology and Applied Pharmacology</i> , 2021, 428, 115678.	1.3	7
1368	Maize plant (<i>Zea mays</i>) uptake of organophosphorus and novel brominated flame retardants from hydroponic cultures. <i>Chemosphere</i> , 2022, 287, 132456.	4.2	12
1369	Human health risks from brominated flame retardants and polycyclic aromatic hydrocarbons in indoor dust. <i>Chemosphere</i> , 2021, 282, 131005.	4.2	28
1370	Size distribution and inhalation exposure of airborne particle-bound polybrominated diphenyl ethers, new brominated flame retardants, organophosphate esters, and chlorinated paraffins at urban open consumption place. <i>Science of the Total Environment</i> , 2021, 794, 148695.	3.9	11
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