

Christian Sonne

List of Publications by Year in descending order

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Version: 2024-02-01

393
papers

16,061
citations

13865

67
h-index

28297

105
g-index

401
all docs

401
docs citations

401
times ranked

11839
citing authors

#	ARTICLE	IF	CITATIONS
1	Exposure and effects assessment of persistent organohalogen contaminants in arctic wildlife and fish. <i>Science of the Total Environment</i> , 2010, 408, 2995-3043.	8.0	660
2	Valorization of biomass waste to engineered activated biochar by microwave pyrolysis: Progress, challenges, and future directions. <i>Chemical Engineering Journal</i> , 2020, 389, 124401.	12.7	484
3	Population Genomics Reveal Recent Speciation and Rapid Evolutionary Adaptation in Polar Bears. <i>Cell</i> , 2014, 157, 785-794.	28.9	363
4	Immunotoxic effects of environmental pollutants in marine mammals. <i>Environment International</i> , 2016, 86, 126-139.	10.0	292
5	What are the toxicological effects of mercury in Arctic biota?. <i>Science of the Total Environment</i> , 2013, 443, 775-790.	8.0	287
6	Predicting global killer whale population collapse from PCB pollution. <i>Science</i> , 2018, 361, 1373-1376.	12.6	252
7	Health effects from long-range transported contaminants in Arctic top predators: An integrated review based on studies of polar bears and relevant model species. <i>Environment International</i> , 2010, 36, 461-491.	10.0	237
8	Progress in microwave pyrolysis conversion of agricultural waste to value-added biofuels: A batch to continuous approach. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110148.	16.4	206
9	A review on phytoremediation of contaminants in air, water and soil. <i>Journal of Hazardous Materials</i> , 2021, 403, 123658.	12.4	192
10	Current state of knowledge on biological effects from contaminants on arctic wildlife and fish. <i>Science of the Total Environment</i> , 2019, 696, 133792.	8.0	184
11	Preliminary screening of perfluorooctane sulfonate (PFOS) and other fluorochemicals in fish, birds and marine mammals from Greenland and the Faroe Islands. <i>Environmental Pollution</i> , 2005, 136, 323-329.	7.5	176
12	Observation of emerging per- and polyfluoroalkyl substances (PFASs) in Greenland marine mammals. <i>Chemosphere</i> , 2016, 144, 2384-2391.	8.2	174
13	Brominated Flame Retardants in Polar Bears (<i>Ursus maritimus</i>) from Alaska, the Canadian Arctic, East Greenland, and Svalbard. <i>Environmental Science & Technology</i> , 2006, 40, 449-455.	10.0	172
14	Circumpolar Study of Perfluoroalkyl Contaminants in Polar Bears (<i>Ursus maritimus</i>). <i>Environmental Science & Technology</i> , 2005, 39, 5517-5523.	10.0	159
15	Is dietary mercury of neurotoxicological concern to wild polar bears (<i>Ursus maritimus</i>)?. <i>Environmental Toxicology and Chemistry</i> , 2009, 28, 133-140.	4.3	151
16	Temporal trends of persistent organic pollutants in Arctic marine and freshwater biota. <i>Science of the Total Environment</i> , 2019, 649, 99-110.	8.0	150
17	A recent global review of hazardous chlorpyrifos pesticide in fruit and vegetables: Prevalence, remediation and actions needed. <i>Journal of Hazardous Materials</i> , 2020, 400, 123006.	12.4	150
18	Tissue-specific congener composition of organohalogen and metabolite contaminants in East Greenland polar bears (<i>Ursus maritimus</i>). <i>Environmental Pollution</i> , 2008, 152, 621-629.	7.5	149

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19	Tracking pan-continental trends in environmental contamination—using sentinel raptors—what types of samples should we use?. <i>Ecotoxicology</i> , 2016, 25, 777-801.	2.4	149
20	Global change effects on the long-term feeding ecology and contaminant exposures of <i>Eurasian</i> Greenland polar bears. <i>Global Change Biology</i> , 2013, 19, 2360-2372.	9.5	147
21	Engineered biochar via microwave CO ₂ and steam pyrolysis to treat carcinogenic Congo red dye. <i>Journal of Hazardous Materials</i> , 2020, 395, 122636.	12.4	142
22	An overview of existing raptor contaminant monitoring activities in Europe. <i>Environment International</i> , 2014, 67, 12-21.	10.0	140
23	Vacuum pyrolysis incorporating microwave heating and base mixture modification: An integrated approach to transform biowaste into eco-friendly bioenergy products. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 127, 109871.	16.4	140
24	Increasing Perfluoroalkyl Contaminants in East Greenland Polar Bears (<i>Ursus maritimus</i>): A New Toxic Threat to the Arctic Bears. <i>Environmental Science & Technology</i> , 2008, 42, 2701-2707.	10.0	131
25	COVID-19's unsustainable waste management. <i>Science</i> , 2020, 368, 1438-1438.	12.6	129
26	Mitigation of indoor air pollution: A review of recent advances in adsorption materials and catalytic oxidation. <i>Journal of Hazardous Materials</i> , 2021, 405, 124138.	12.4	128
27	A review of ecological impacts of global climate change on persistent organic pollutant and mercury pathways and exposures in arctic marine ecosystems. <i>Environmental Epigenetics</i> , 2015, 61, 617-628.	1.8	116
28	Chlorinated hydrocarbon contaminants and metabolites in polar bears (<i>Ursus maritimus</i>) from Alaska, Canada, East Greenland, and Svalbard: 1996–2002. <i>Science of the Total Environment</i> , 2005, 351-352, 369-390.	8.0	113
29	Hydroxylated and methyl sulfone PCB metabolites in adipose and whole blood of polar bear (<i>Ursus</i>) $T_j ETQq1 1 0.784314 \text{ ng BT} / \text{Overlock}$	8.0	111
30	Bioaccumulation and biotransformation of brominated and chlorinated contaminants and their metabolites in ringed seals (<i>Pusa hispida</i>) and polar bears (<i>Ursus maritimus</i>) from East Greenland. <i>Environment International</i> , 2009, 35, 1118-1124.	10.0	110
31	Mercury-associated DNA hypomethylation in polar bear brains via the Luminometric Methylation Assay: a sensitive method to study epigenetics in wildlife. <i>Molecular Ecology</i> , 2010, 19, 307-314.	3.9	110
32	Perfluoroalkyl contaminants in liver tissue from East Greenland polar bears (<i>Ursus maritimus</i>). <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 981-986.	4.3	109
33	Enzymatic conversion of pretreated lignocellulosic biomass: A review on influence of structural changes of lignin. <i>Bioresource Technology</i> , 2021, 324, 124631.	9.6	109
34	Xenoendocrine Pollutants May Reduce Size of Sexual Organs in East Greenland Polar Bears (<i>Ursus</i>) $T_j ETQq0 0 0 \text{ ng BT} / \text{Overlock 10 Tf 50}$	10.0	108
35	Temporal trends of Hg in Arctic biota, an update. <i>Science of the Total Environment</i> , 2011, 409, 3520-3526.	8.0	108
36	Seasonal and temporal trends in polychlorinated biphenyls and organochlorine pesticides in East Greenland polar bears (<i>Ursus maritimus</i>), 1990–2001. <i>Science of the Total Environment</i> , 2004, 331, 107-124.	8.0	107

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37	Novel brominated flame retardants and dechlorane plus in Greenland air and biota. <i>Environmental Pollution</i> , 2015, 196, 284-291.	7.5	107
38	State of knowledge on current exposure, fate and potential health effects of contaminants in polar bears from the circumpolar Arctic. <i>Science of the Total Environment</i> , 2019, 664, 1063-1083.	8.0	106
39	Progress in waste valorization using advanced pyrolysis techniques for hydrogen and gaseous fuel production. <i>Bioresource Technology</i> , 2021, 320, 124299.	9.6	104
40	Is Bone Mineral Composition Disrupted by Organochlorines in East Greenland Polar Bears (<i>Ursus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	6.0	103
41	Flame retardants and legacy contaminants in polar bears from Alaska, Canada, East Greenland and Svalbard, 2005â€“2008. <i>Environment International</i> , 2011, 37, 365-374.	10.0	102
42	Target Tissue Selectivity and Burdens of Diverse Classes of Brominated and Chlorinated Contaminants in Polar Bears (<i>Ursus maritimus</i>) from East Greenland. <i>Environmental Science & Technology</i> , 2008, 42, 752-759.	10.0	95
43	High capacity oil absorbent wood prepared through eco-friendly deep eutectic solvent delignification. <i>Chemical Engineering Journal</i> , 2020, 401, 126150.	12.7	93
44	Tissue-Specific Concentrations and Patterns of Perfluoroalkyl Carboxylates and Sulfonates in East Greenland Polar Bears. <i>Environmental Science & Technology</i> , 2012, 46, 11575-11583.	10.0	91
45	Trends in Mercury in Hair of Greenlandic Polar Bears (<i>Ursus maritimus</i>) during 1892âˆ“2001. <i>Environmental Science & Technology</i> , 2006, 40, 1120-1125.	10.0	90
46	Emerging nanobiotechnology in agriculture for the management of pesticide residues. <i>Journal of Hazardous Materials</i> , 2021, 401, 123369.	12.4	90
47	Valorization of municipal wastes using co-pyrolysis for green energy production, energy security, and environmental sustainability: A review. <i>Chemical Engineering Journal</i> , 2021, 421, 129749.	12.7	90
48	Cortisol levels in hair of East Greenland polar bears. <i>Science of the Total Environment</i> , 2011, 409, 831-834.	8.0	86
49	Temporal Trends and Future Predictions of Mercury Concentrations in Northwest Greenland Polar Bear (<i>Ursus maritimus</i>) Hair. <i>Environmental Science & Technology</i> , 2011, 45, 1458-1465.	10.0	85
50	A review of historical and recent locust outbreaks: Links to global warming, food security and mitigation strategies. <i>Environmental Research</i> , 2020, 191, 110046.	7.5	83
51	Mercury contamination in spotted seatrout, <i>Cynoscion nebulosus</i> : An assessment of liver, kidney, blood, and nervous system health. <i>Science of the Total Environment</i> , 2010, 408, 5808-5816.	8.0	82
52	Trends of perfluorochemicals in Greenland ringed seals and polar bears: Indications of shifts to decreasing trends. <i>Chemosphere</i> , 2013, 93, 1607-1614.	8.2	82
53	Simultaneous removal of toxic ammonia and lettuce cultivation in aquaponic system using microwave pyrolysis biochar. <i>Journal of Hazardous Materials</i> , 2020, 396, 122610.	12.4	81
54	Immunologic, reproductive, and carcinogenic risk assessment from POP exposure in East Greenland polar bears (<i>Ursus maritimus</i>) during 1983â€“2013. <i>Environment International</i> , 2018, 118, 169-178.	10.0	79

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55	Selenium in soil-microbe-plant systems: Sources, distribution, toxicity, tolerance, and detoxification. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 2383-2420.	12.8	79
56	Brain region-specific perfluoroalkylated sulfonate (PFSA) and carboxylic acid (PFCA) accumulation and neurochemical biomarker Responses in east Greenland polar Bears (<i>Ursus maritimus</i>). <i>Environmental Research</i> , 2015, 138, 22-31.	7.5	78
57	Anthropogenic flank attack on polar bears: interacting consequences of climate warming and pollutant exposure. <i>Frontiers in Ecology and Evolution</i> , 2015, 3, .	2.2	77
58	Physiologically-based pharmacokinetic modelling of immune, reproductive and carcinogenic effects from contaminant exposure in polar bears (<i>Ursus maritimus</i>) across the Arctic. <i>Environmental Research</i> , 2015, 140, 45-55.	7.5	77
59	Accumulation of Short-, Medium-, and Long-Chain Chlorinated Paraffins in Marine and Terrestrial Animals from Scandinavia. <i>Environmental Science & Technology</i> , 2019, 53, 3526-3537.	10.0	77
60	Bioaccumulation and biomagnification of perfluoroalkyl acids and precursors in East Greenland polar bears and their ringed seal prey. <i>Environmental Pollution</i> , 2019, 252, 1335-1343.	7.5	76
61	A chronicle of SARS-CoV-2: Seasonality, environmental fate, transport, inactivation, and antiviral drug resistance. <i>Journal of Hazardous Materials</i> , 2021, 405, 124043.	12.4	76
62	A review on valorization of oyster mushroom and waste generated in the mushroom cultivation industry. <i>Journal of Hazardous Materials</i> , 2020, 400, 123156.	12.4	75
63	Three decades (1983â€“2010) of contaminant trends in East Greenland polar bears (<i>Ursus maritimus</i>). Part 1: Legacy organochlorine contaminants. <i>Environment International</i> , 2013, 59, 485-493.	10.0	74
64	Processed Bamboo as a Novel Formaldehyde-Free High-Performance Furniture Biocomposite. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30824-30832.	8.0	74
65	A first evaluation of the usefulness of feathers of nestling predatory birds for non-destructive biomonitoring of persistent organic pollutants. <i>Environment International</i> , 2011, 37, 622-630.	10.0	73
66	Fluorine Mass Balance and Suspect Screening in Marine Mammals from the Northern Hemisphere. <i>Environmental Science & Technology</i> , 2020, 54, 4046-4058.	10.0	73
67	Potential Emergence of Antiviral-Resistant Pandemic Viruses via Environmental Drug Exposure of Animal Reservoirs. <i>Environmental Science & Technology</i> , 2020, 54, 8503-8505.	10.0	72
68	Elevation in wildfire frequencies with respect to the climate change. <i>Journal of Environmental Management</i> , 2022, 301, 113769.	7.8	70
69	PFAS profiles in three North Sea top predators: metabolic differences among species?. <i>Environmental Science and Pollution Research</i> , 2013, 20, 8013-8020.	5.3	69
70	A review of dietary phytochemicals and their relation to oxidative stress and human diseases. <i>Chemosphere</i> , 2021, 271, 129499.	8.2	69
71	Two decades of biomonitoring polar bear health in Greenland: a review. <i>Acta Veterinaria Scandinavica</i> , 2012, 54, .	1.6	68
72	Health effects from contaminant exposure in Baltic Sea birds and marine mammals: A review. <i>Environment International</i> , 2020, 139, 105725.	10.0	67

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73	Twenty years of monitoring of persistent organic pollutants in Greenland biota. A review. <i>Environmental Pollution</i> , 2016, 217, 114-123.	7.5	66
74	Measuring environmental stress in East Greenland polar bears, 1892–1927 and 1988–2009: What does hair cortisol tell us?. <i>Environment International</i> , 2012, 45, 15-21.	10.0	65
75	TEMPO-oxidized cellulose nanofibers/polyacrylamide hybrid hydrogel with intrinsic self-recovery and shape memory properties. <i>Cellulose</i> , 2021, 28, 1469-1488.	4.9	65
76	Do Organohalogen Contaminants Contribute to Histopathology in Liver from East Greenland Polar Bears (<i>Ursus maritimus</i>)?. <i>Environmental Health Perspectives</i> , 2005, 113, 1569-1574.	6.0	62
77	Reproductive performance in East Greenland polar bears (<i>Ursus maritimus</i>) may be affected by organohalogen contaminants as shown by physiologically-based pharmacokinetic (PBPK) modelling. <i>Chemosphere</i> , 2009, 77, 1558-1568.	8.2	62
78	ARE ORGANOHALOGEN CONTAMINANTS A COFACTOR IN THE DEVELOPMENT OF RENAL LESIONS IN EAST GREENLAND POLAR BEARS (<i>URSUS MARITIMUS</i>)?. <i>Environmental Toxicology and Chemistry</i> , 2006, 25, 1551.	4.3	60
79	Three decades (1983–2010) of contaminant trends in East Greenland polar bears (<i>Ursus maritimus</i>). Part 2: Brominated flame retardants. <i>Environment International</i> , 2013, 59, 494-500.	10.0	60
80	High-pressure CO ₂ hydrothermal pretreatment of peanut shells for enzymatic hydrolysis conversion into glucose. <i>Chemical Engineering Journal</i> , 2020, 385, 123949.	12.7	60
81	Core-shell structured molecularly imprinted materials for sensing applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 133, 116043.	11.4	60
82	Arctic-adapted dogs emerged at the Pleistocene–Holocene transition. <i>Science</i> , 2020, 368, 1495-1499.	12.6	60
83	Sustainable management of municipal solid waste through waste-to-energy technologies. <i>Bioresource Technology</i> , 2022, 355, 127247.	9.6	60
84	Are liver and renal lesions in East Greenland polar bears (<i>Ursus maritimus</i>) associated with high mercury levels?. <i>Environmental Health</i> , 2007, 6, 11.	4.0	59
85	Brain region distribution and patterns of bioaccumulative perfluoroalkyl carboxylates and sulfonates in East Greenland polar bears (<i>Ursus maritimus</i>). <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 713-722.	4.3	58
86	Serosurvey for <i>Trichinella</i> in polar bears (<i>Ursus maritimus</i>) from Svalbard and the Barents Sea. <i>Veterinary Parasitology</i> , 2010, 172, 256-263.	1.8	57
87	Organohalogen compounds of emerging concern in Baltic Sea biota: Levels, biomagnification potential and comparisons with legacy contaminants. <i>Environment International</i> , 2020, 144, 106037.	10.0	57
88	Body feathers as a potential new biomonitoring tool in raptors: A study on organohalogenated contaminants in different feather types and preen oil of West Greenland white-tailed eagles (<i>Haliaeetus albicilla</i>). <i>Environment International</i> , 2011, 37, 1349-1356.	10.0	56
89	Effects of Polar Bear and Killer Whale Derived Contaminant Cocktails on Marine Mammal Immunity. <i>Environmental Science & Technology</i> , 2017, 51, 11431-11439.	10.0	56
90	Covid-19 pandemic in the lens of food safety and security. <i>Environmental Research</i> , 2021, 193, 110405.	7.5	56

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91	Comparative hepatic microsomal biotransformation of selected PBDEs, including decabromodiphenyl ether, and decabromodiphenyl ethane flame retardants in Arctic marine feeding mammals. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 1506-1514.	4.3	55
92	Progress in the torrefaction technology for upgrading oil palm wastes to energy-dense biochar: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111645.	16.4	55
93	Population genomics of grey wolves and wolf-like canids in North America. <i>PLoS Genetics</i> , 2018, 14, e1007745.	3.5	54
94	Ultrastructural change in lignocellulosic biomass during hydrothermal pretreatment. <i>Bioresource Technology</i> , 2021, 341, 125807.	9.6	54
95	Age and seasonal variability of polybrominated diphenyl ethers in free-ranging East Greenland polar bears (<i>Ursus maritimus</i>). <i>Environmental Pollution</i> , 2007, 146, 166-173.	7.5	53
96	Hydrogen production and heavy metal immobilization using hyperaccumulators in supercritical water gasification. <i>Journal of Hazardous Materials</i> , 2021, 402, 123541.	12.4	53
97	Phytoremediation of radionuclides in soil, sediments and water. <i>Journal of Hazardous Materials</i> , 2021, 407, 124771.	12.4	53
98	Impairment of Cellular Immunity in West Greenland Sledge Dogs (<i>Canis familiaris</i>) Dietary Exposed to Polluted Minke Whale (<i>Balaenoptera acutorostrata</i>) Blubber. <i>Environmental Science & Technology</i> , 2006, 40, 2056-2062.	10.0	52
99	Time Trends of Mercury in Feathers of West Greenland Birds of Prey During 1851-2003. <i>Environmental Science & Technology</i> , 2006, 40, 5911-5916.	10.0	52
100	Relationships between organohalogen contaminants and blood plasma clinical chemical parameters in chicks of three raptor species from Northern Norway. <i>Ecotoxicology and Environmental Safety</i> , 2010, 73, 7-17.	6.0	52
101	Exposure to mixtures of organohalogen contaminants and associative interactions with thyroid hormones in East Greenland polar bears (<i>Ursus maritimus</i>). <i>Environment International</i> , 2011, 37, 694-708.	10.0	51
102	Associations between complex OHC mixtures and thyroid and cortisol hormone levels in East Greenland polar bears. <i>Environmental Research</i> , 2012, 116, 26-35.	7.5	51
103	On the integration of ecological and physiological variables in polar bear toxicology research: a systematic review. <i>Environmental Reviews</i> , 2018, 26, 1-12.	4.5	50
104	Regional Contamination versus Regional Dietary Differences: Understanding Geographic Variation in Brominated and Chlorinated Contaminant Levels in Polar Bears. <i>Environmental Science & Technology</i> , 2011, 45, 896-902.	10.0	49
105	Blood plasma clinical chemical parameters as biomarker endpoints for organohalogen contaminant exposure in Norwegian raptor nestlings. <i>Ecotoxicology and Environmental Safety</i> , 2012, 80, 76-83.	6.0	48
106	Size and density of East Greenland polar bear (<i>Ursus maritimus</i>) skulls: Valuable bio-indicators of environmental changes?. <i>Ecological Indicators</i> , 2013, 34, 290-295.	6.3	48
107	Blubber-depth distribution and bioaccumulation of PCBs and organochlorine pesticides in Arctic-invading killer whales. <i>Science of the Total Environment</i> , 2017, 601-602, 237-246.	8.0	48
108	Applying microwave vacuum pyrolysis to design moisture retention and pH neutralizing palm kernel shell biochar for mushroom production. <i>Bioresource Technology</i> , 2020, 312, 123572.	9.6	48

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109	Quantitative relationships in delphinid neocortex. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 132.	1.7	46
110	Comparative hepatic in vitro depletion and metabolite formation of major perfluorooctane sulfonate precursors in arctic polar bear, beluga whale, and ringed seal. <i>Chemosphere</i> , 2014, 112, 225-231.	8.2	46
111	A review on production of lignin-based γ -irradiated, coccolatants: Sustainable feedstock and low carbon footprint applications. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110384.	16.4	46
112	White-Tailed Eagle (<i>Haliaeetus albicilla</i>) Body Feathers Document Spatiotemporal Trends of Perfluoroalkyl Substances in the Northern Environment. <i>Environmental Science & Technology</i> , 2019, 53, 12744-12753.	10.0	45
113	Development of formaldehyde-free bio-board produced from mushroom mycelium and substrate waste. <i>Journal of Hazardous Materials</i> , 2020, 400, 123296.	12.4	45
114	Organochlorine-induced histopathology in kidney and liver tissue from Arctic fox (<i>Vulpes lagopus</i>). <i>Chemosphere</i> , 2008, 71, 1214-1224.	8.2	43
115	Persistent organic pollutants and methoxylated polybrominated diphenyl ethers in different tissues of white-tailed eagles (<i>Haliaeetus albicilla</i>) from West Greenland. <i>Environmental Pollution</i> , 2013, 175, 137-146.	7.5	43
116	Organophosphate esters in East Greenland polar bears and ringed seals: Adipose tissue concentrations and in vitro depletion and metabolite formation. <i>Chemosphere</i> , 2018, 196, 240-250.	8.2	43
117	Temporal trends of mercury in marine biota of west and northwest Greenland. <i>Marine Pollution Bulletin</i> , 2007, 54, 72-80.	5.0	42
118	Geographic distribution of selected elements in the livers of polar bears from Greenland, Canada and the United States. <i>Environmental Pollution</i> , 2008, 153, 618-626.	7.5	42
119	Polar bear stress hormone cortisol fluctuates with the North Atlantic Oscillation climate index. <i>Polar Biology</i> , 2013, 36, 1525-1529.	1.2	41
120	Thyroid hormones and deiodinase activity in plasma and tissues in relation to high levels of organohalogen contaminants in East Greenland polar bears (<i>Ursus maritimus</i>). <i>Environmental Research</i> , 2015, 136, 413-423.	7.5	40
121	Sources, distribution and effects of rare earth elements in the marine environment: Current knowledge and research gaps. <i>Environmental Pollution</i> , 2021, 291, 118230.	7.5	40
122	Strategic hazard mitigation of waste furniture boards via pyrolysis: Pyrolysis behavior, mechanisms, and value-added products. <i>Journal of Hazardous Materials</i> , 2022, 421, 126774.	12.4	40
123	Advanced nanocellulose-based gas barrier materials: Present status and prospects. <i>Chemosphere</i> , 2022, 286, 131891.	8.2	39
124	Cadmium toxicity to ringed seals (<i>Phoca hispida</i>): an epidemiological study of possible cadmium-induced nephropathy and osteodystrophy in ringed seals (<i>Phoca hispida</i>) from Qaanaaq in Northwest Greenland. <i>Science of the Total Environment</i> , 2002, 295, 167-181.	8.0	38
125	Effects of organohalogen pollutants on haematological and urine clinical chemical parameters in Greenland sledge dogs (<i>Canis familiaris</i>). <i>Ecotoxicology and Environmental Safety</i> , 2008, 69, 381-390.	6.0	38
126	Specialized sledge dogs accompanied Inuit dispersal across the North American Arctic. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20191929.	2.6	38

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127	Establishing a definition of polar bear (<i>Ursus maritimus</i>) health: A guide to research and management activities. <i>Science of the Total Environment</i> , 2015, 514, 371-378.	8.0	37
128	Mercury and cortisol in Western Hudson Bay polar bear hair. <i>Ecotoxicology</i> , 2015, 24, 1315-1321.	2.4	37
129	A review on the deteriorating situation of smog and its preventive measures in Pakistan. <i>Journal of Cleaner Production</i> , 2021, 279, 123676.	9.3	37
130	Progress in pyrolysis conversion of waste into value-added liquid pyro-oil, with focus on heating source and machine learning analysis. <i>Energy Conversion and Management</i> , 2021, 245, 114638.	9.2	37
131	Multiple Cytokine and Acute-Phase Protein Gene Transcription in West Greenland Sledge Dogs (<i>Canis</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 2 Contamination and Toxicology, 2007, 53, 110-118.	4.1	35
132	Validation of adipose lipid content as a body condition index for polar bears. <i>Ecology and Evolution</i> , 2014, 4, 516-527.	1.9	35
133	Recent advances in asphaltene transformation in heavy oil hydroprocessing: Progress, challenges, and future perspectives. <i>Fuel Processing Technology</i> , 2021, 213, 106681.	7.2	35
134	Using nucleophilic naphthol derivatives to suppress biomass lignin repolymerization in fermentable sugar production. <i>Chemical Engineering Journal</i> , 2021, 420, 130258.	12.7	35
135	Adsorption of environmental contaminants on micro- and nano-scale plastic polymers and the influence of weathering processes on their adsorptive attributes. <i>Journal of Hazardous Materials</i> , 2022, 427, 127903.	12.4	35
136	Greenland sledge dogs (<i>Canis familiaris</i>) develop liver lesions when exposed to a chronic and dietary low dose of an environmental organohalogen cocktail. <i>Environmental Research</i> , 2008, 106, 72-80.	7.5	34
137	Prevalence of Antibodies Against <i>Toxoplasma gondii</i> in Polar Bears (<i>Ursus maritimus</i>) From Svalbard and East Greenland. <i>Journal of Parasitology</i> , 2009, 95, 89-94.	0.7	34
138	Mercury and histopathology of the vulnerable goliath grouper, <i>Epinephelus itajara</i> , in U.S. waters: A multi-tissue approach. <i>Environmental Research</i> , 2013, 126, 254-263.	7.5	34
139	Penile density and globally used chemicals in Canadian and Greenland polar bears. <i>Environmental Research</i> , 2015, 137, 287-291.	7.5	34
140	Per- and polyfluoroalkyl substances (PFASs) – New endocrine disruptors in polar bears (<i>Ursus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2 10.0	10.0	34
141	Histology of selected immunological organs in polar bear (<i>Ursus maritimus</i>) from East Greenland in relation to concentrations of organohalogen contaminants. <i>Science of the Total Environment</i> , 2005, 341, 119-132.	8.0	33
142	Plasma concentrations of organohalogenated pollutants in predatory bird nestlings: Associations to growth rate and dietary tracers. <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 2520-2527.	4.3	33
143	Hormesis induced by silver iodide, hydrocarbons, microplastics, pesticides, and pharmaceuticals: Implications for agroforestry ecosystems health. <i>Science of the Total Environment</i> , 2022, 820, 153116.	8.0	33
144	Renal lesions in Greenland sledge dogs (<i>Canis familiaris</i>) exposed to a natural dietary cocktail of persistent organic pollutants. <i>Toxicological and Environmental Chemistry</i> , 2007, 89, 563-576.	1.2	32

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146	Comparative fate of organohalogen contaminants in two top carnivores in Greenland: Captive sledge dogs and wild polar bears. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2008, 147, 306-315.	2.6	31
147	Stress management versus cognitive restructuring in trauma-affected refugees – A pragmatic randomised study. <i>Psychiatry Research</i> , 2018, 266, 116-123.	3.3	31
148	A study of metal concentrations and metallothionein binding capacity in liver, kidney and brain tissues of three Arctic seal species. <i>Science of the Total Environment</i> , 2009, 407, 6166-6172.	8.0	30
149	A screening of persistent organohalogenated contaminants in hair of East Greenland polar bears. <i>Science of the Total Environment</i> , 2010, 408, 5613-5618.	8.0	30
150	Alterations in thyroid hormone status in Greenland sledge dogs exposed to whale blubber contaminated with organohalogen compounds. <i>Ecotoxicology and Environmental Safety</i> , 2011, 74, 157-163.	6.0	30
151	Progress on bringing together raptor collections in Europe for contaminant research and monitoring in relation to chemicals regulation. <i>Environmental Science and Pollution Research</i> , 2019, 26, 20132-20136.	5.3	30
152	Microwave co-torrefaction of waste oil and biomass pellets for simultaneous recovery of waste and co-firing fuel. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111699.	16.4	29
153	A risk assessment review of mercury exposure in Arctic marine and terrestrial mammals. <i>Science of the Total Environment</i> , 2022, 829, 154445.	8.0	29
154	Liver and renal histopathology of North Atlantic long-finned pilot whales (<i>Globicephala</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td <i>Environmental Chemistry</i> , 2010, 92, 969-985.	1.2	28
155	Temporal and life history related trends of perfluorochemicals in harbor porpoises from the Danish North Sea. <i>Marine Pollution Bulletin</i> , 2011, 62, 1476-1483.	5.0	28
156	Spatial and temporal trends of selected trace elements in liver tissue from polar bears (<i>Ursus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 2.1 28	2.1	28
157	Ecological and spatial factors drive intra- and interspecific variation in exposure of subarctic predatory bird nestlings to persistent organic pollutants. <i>Environment International</i> , 2013, 57-58, 25-33.	10.0	28
158	A schematic sampling protocol for contaminant monitoring in raptors. <i>Ambio</i> , 2021, 50, 95-100.	5.5	28
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161	Pilot-scale co-processing of lignocellulosic biomass, algae, shellfish waste via thermochemical approach: Recent progress and future directions. <i>Bioresource Technology</i> , 2022, 347, 126687.	9.6	28
162	Development and evaluation of zinc oxide-blended kenaf fiber biocomposite for automotive applications. <i>Materials Today Communications</i> , 2020, 24, 101008.	1.9	27

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164	Production of modified biochar to treat landfill leachate using integrated microwave pyrolytic CO ₂ activation. <i>Chemical Engineering Journal</i> , 2021, 425, 131886.	12.7	27
165	Chronic dietary exposure to environmental organochlorine contaminants induces thyroid gland lesions in Arctic foxes (<i>Vulpes lagopus</i>). <i>Environmental Research</i> , 2009, 109, 702-711.	7.5	26
166	Influence of carbon and lipid sources on variation of mercury and other trace elements in polar bears (<i>Ursus maritimus</i>). <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 2739-2747.	4.3	26
167	Pollution threatens toothed whales. <i>Science</i> , 2018, 361, 1208-1208.	12.6	26
168	Temporal trends of legacy organochlorines in different white-tailed eagle (<i>Haliaeetus albicilla</i>) subpopulations: A retrospective investigation using archived feathers. <i>Environment International</i> , 2020, 138, 105618.	10.0	26
169	Spatial and temporal variation in size of polar bear (<i>Ursus maritimus</i>) sexual organs and its use in pollution and climate change studies. <i>Science of the Total Environment</i> , 2007, 387, 237-246.	8.0	25
170	A risk assessment of the effects of mercury on Baltic Sea, Greater North Sea and North Atlantic wildlife, fish and bivalves. <i>Environment International</i> , 2021, 146, 106178.	10.0	25
171	Nanomaterial-based aptasensors as an efficient substitute for cardiovascular disease diagnosis: Future of smart biosensors. <i>Biosensors and Bioelectronics</i> , 2021, 193, 113617.	10.1	25
172	Trends in fluctuating asymmetry in East Greenland polar bears (<i>Ursus maritimus</i>) from 1892 to 2002 in relation to organohalogen pollution. <i>Science of the Total Environment</i> , 2005, 341, 81-96.	8.0	24
173	Skull pathology in East Greenland and Svalbard polar bears (<i>Ursus maritimus</i>) during 1892 to 2002 in relation to organochlorine pollution. <i>Science of the Total Environment</i> , 2007, 372, 554-561.	8.0	24
174	Dietary, age and trans-generational effects on the fate of organohalogen contaminants in captive sledge dogs in Greenland. <i>Environment International</i> , 2009, 35, 56-62.	10.0	24
175	Health assessment of harbour porpoises (<i>PHOCOENA PHOCOENA</i>) from Baltic area of Denmark, Germany, Poland and Latvia. <i>Environment International</i> , 2020, 143, 105904.	10.0	24
176	A review of pathogens in selected Baltic Sea indicator species. <i>Environment International</i> , 2020, 137, 105565.	10.0	24
177	Bioaccumulation of mining derived metals in blood, liver, muscle and otoliths of two Arctic predatory fish species (<i>Gadus ogac</i> and <i>Myoxocephalus scorpius</i>). <i>Environmental Research</i> , 2020, 183, 109194.	7.5	24
178	A review on mobile phones as bacterial reservoirs in healthcare environments and potential device decontamination approaches. <i>Environmental Research</i> , 2020, 186, 109569.	7.5	24
179	Vertical flow constructed wetlands using expanded clay and biochar for wastewater remediation: A comparative study and prediction of effluents using machine learning. <i>Journal of Hazardous Materials</i> , 2021, 413, 125426.	12.4	24
180	Is Virtual Fencing an Effective Way of Enclosing Cattle? <i>Personality, Herd Behaviour and Welfare. Animals</i> , 2022, 12, 842.	2.3	24

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184	Emerging contaminants and biological effects in Arctic wildlife. <i>Trends in Ecology and Evolution</i> , 2021, 36, 421-429.	8.7	23
185	Progress and challenges in sensing of mycotoxins using molecularly imprinted polymers. <i>Environmental Pollution</i> , 2022, 305, 119218.	7.5	23
186	Potential correlation between perfluorinated acids and liver morphology in East Greenland polar bears (<i>Ursus maritimus</i>). <i>Toxicological and Environmental Chemistry</i> , 2008, 90, 275-283.	1.2	22
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189	A review of the factors causing paralysis in wild birds: Implications for the paralytic syndrome observed in the Baltic Sea. <i>Science of the Total Environment</i> , 2012, 416, 32-39.	8.0	21
190	Otolith Chemistry of Common Sculpins (<i>Myoxocephalus scorpius</i>) in a Mining Polluted Greenlandic Fjord (Black Angel Lead-Zinc Mine, West Greenland). <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	2.4	21
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192	Endosulfan, Short-Chain Chlorinated Paraffins (SCCPs) and Octachlorostyrene in Wildlife from Greenland: Levels, Trends and Methodological Challenges. <i>Archives of Environmental Contamination and Toxicology</i> , 2017, 73, 542-551.	4.1	21
193	Common Eider (<i>Somateria Mollissima</i>) Body Condition and Parasitic Load during a Mortality Event in the Baltic Proper. <i>Avian Biology Research</i> , 2018, 11, 167-172.	0.9	21
194	Florida lagoon at risk of ecosystem collapse. <i>Science</i> , 2019, 365, 991-992.	12.6	21
195	Characterisation and 3D structure of melanomacrophage centers in shorthorn sculpins (<i>Myoxocephalus scorpius</i>). <i>Tissue and Cell</i> , 2019, 57, 34-41.	2.2	21
196	Individual Prey Specialization Drives PCBs in Icelandic Killer Whales. <i>Environmental Science & Technology</i> , 2021, 55, 4923-4931.	10.0	21
197	Feeding habits of a new Arctic predator: insight from full-depth blubber fatty acid signatures of Greenland, Faroe Islands, Denmark, and managed-care killer whales <i>Orcinus orca</i> . <i>Marine Ecology - Progress Series</i> , 2018, 603, 1-12.	1.9	21
198	COMPARATIVE HEPATIC ACTIVITY OF XENOBIOTIC-METABOLIZING ENZYMES AND CONCENTRATIONS OF ORGANOHALOGENS AND THEIR HYDROXYLATED ANALOGUES IN CAPTIVE GREENLAND SLEDGE DOGS (<i>CANIS</i>)	1.0	21

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200	Organohalogen contaminants and Blood plasma clinical chemical parameters in three colonies of North Atlantic Great skua (<i>Stercorarius skua</i>). <i>Ecotoxicology and Environmental Safety</i> , 2013, 92, 245-251.	6.0	20
201	Antiparasite treatments reduce humoral immunity and impact oxidative status in raptor nestlings. <i>Ecology and Evolution</i> , 2013, 3, 5157-5166.	1.9	20
202	Structure-Dependent <i>in Vitro</i> Metabolism of Alkyl-Substituted Analogues of Triphenyl Phosphate in East Greenland Polar Bears and Ringed Seals. <i>Environmental Science and Technology Letters</i> , 2018, 5, 214-219.	8.7	20
203	Histological mucous cell quantification and mucosal mapping reveal different aspects of mucous cell responses in gills and skin of shorthorn sculpins (<i>Myoxocephalus scorpius</i>). <i>Fish and Shellfish Immunology</i> , 2020, 100, 334-344.	3.6	20
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206	Progress, prospects, and challenges in standardization of sampling and analysis of micro- and nano-plastics in the environment. <i>Journal of Cleaner Production</i> , 2021, 325, 129321.	9.3	20
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209	Differences in growth, size and sexual dimorphism in skulls of East Greenland and Svalbard polar bears (<i>Ursus maritimus</i>). <i>Polar Biology</i> , 2008, 31, 945-958.	1.2	18
210	Fluctuating Asymmetry in Metric Traits; a Practical Example of Calculating Asymmetry, Measurement Error, and Repeatability. <i>Annales Zoologici Fennici</i> , 2008, 45, 32-38.	0.6	18
211	Thyroid gland lesions in organohalogen contaminated East Greenland polar bears (<i>Ursus</i>). <i>Environmental Science & Technology</i> , 2012, 46, 1921-1926.	1.2	18
212	Accumulation and potential health effects of organohalogenated compounds in the arctic fox (<i>Vulpes lagopus</i>) – a review. <i>Science of the Total Environment</i> , 2015, 502, 510-516.	8.0	18
213	Exposure to Persistent Organic Pollutants Reduces Testosterone Concentrations and Affects Sperm Viability and Morphology during the Mating Peak Period in a Controlled Experiment on Farmed Arctic Foxes (<i>Vulpes lagopus</i>). <i>Environmental Science & Technology</i> , 2017, 51, 4673-4680.	10.0	18
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215	The ongoing cut-down of the Amazon rainforest threatens the climate and requires global tree planting projects: A short review. <i>Environmental Research</i> , 2020, 181, 108887.	7.5	18
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218	<i>Ursidibacter maritimus</i> gen. nov., sp. nov. and <i>Ursidibacter arcticus</i> sp. nov., two new members of the family Pasteurellaceae isolated from the oral cavity of bears. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2015, 65, 3683-3689.	1.7	18
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220	Glacial ice supports a distinct and undocumented polar bear subpopulation persisting in late 21st-century sea-ice conditions. <i>Science</i> , 2022, 376, 1333-1338.	12.6	18
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222	Temporal and Spatial Variation in Metric Asymmetry in Skulls of Polar Bears (<i>Ursus maritimus</i>) from East Greenland and Svalbard. <i>Annales Zoologici Fennici</i> , 2008, 45, 15-31.	0.6	17
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224	Effects of implanted satellite transmitters on behavior and survival of female common eiders. <i>Journal of Wildlife Management</i> , 2011, 75, 1553-1557.	1.8	17
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226	Metal residues, histopathology and presence of parasites in the liver and gills of fourhorn sculpin (<i>Myoxocephalus quadricornis</i>) and shorthorn sculpin (<i>Myoxocephalus scorpius</i>) near a former lead-zinc mine in East Greenland. <i>Environmental Research</i> , 2017, 153, 171-180.	7.5	17
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228	Temporal trends of mercury differ across three northern white-tailed eagle (<i>Haliaeetus albicilla</i>) subpopulations. <i>Science of the Total Environment</i> , 2019, 687, 77-86.	8.0	17
229	Effects of waste-based pyrolysis as heating source: Meta-analyze of char yield and machine learning analysis. <i>Fuel</i> , 2022, 318, 123578.	6.4	17
230	Temporal monitoring of liver and kidney lesions in contaminated East Greenland polar bears (<i>Ursus</i>)	10.0	16
231	Xenoestrogenic and dioxin-like activity in blood of East Greenland polar bears (<i>Ursus maritimus</i>). <i>Chemosphere</i> , 2013, 92, 583-591.	8.2	16
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237	Recycling of aquaculture wastewater and sediment for sustainable corn and water spinach production. <i>Chemosphere</i> , 2021, 268, 129329.	8.2	16
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239	Tissue healing in two harbor porpoises (<i>Phocoena phocoena</i>) following long-term satellite transmitter attachment. <i>Marine Mammal Science</i> , 2012, 28, E316.	1.8	15
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247	Lead and Other Trace Elements in Danish Birds of Prey. <i>Archives of Environmental Contamination and Toxicology</i> , 2019, 77, 359-367.	4.1	14
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250	The nexus between biofuels and pesticides in agroforestry: Pathways toward United Nations sustainable development goals. <i>Environmental Research</i> , 2022, 214, 113751.	7.5	14
251	Trans-generational and neonatal humoral immune responses in West Greenland sledge dogs (<i>Canis</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 67 To Environment, 2010, 408, 5801-5807.	8.0	13
252	Altered vitamin D status in liver tissue and blood plasma from Greenland sledge dogs (<i>Canis</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 To blubber. <i>Ecotoxicology and Environmental Safety</i> , 2014, 104, 403-408.	6.0	13

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254	Mucous cell responses to contaminants and parasites in shorthorn sculpins (<i>Myoxocephalus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 207-216.	8.0	13
255	Body mass, mercury exposure, biochemistry and untargeted metabolomics of incubating common eiders (<i>Somateria mollissima</i>) in three Baltic colonies. <i>Environment International</i> , 2020, 142, 105866.	10.0	13
256	Using low carbon footprint high-pressure carbon dioxide in bioconversion of aspen branch waste for sustainable bioethanol production. <i>Bioresource Technology</i> , 2020, 313, 123675.	9.6	13
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260	Migratory and diurnal activity of North Atlantic killer whales (<i>Orcinus orca</i>) off northern Norway. <i>Journal of Experimental Marine Biology and Ecology</i> , 2020, 533, 151456.	1.5	12
261	Homology Modeling and Probable Active Site Cavity Prediction of Uncharacterized Arsenate Reductase in Bacterial spp.. <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 1-18.	2.9	12
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265	Testosterone concentrations and male genital organ morphology in Greenland sledge dogs (<i>Canis</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 707 Chemistry, 2010, 92, 955-967.	1.2	11
266	Allee effect in polar bears: a potential consequence of polychlorinated biphenyl contamination. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161883.	2.6	11
267	Spatiotemporal variation in home range size of female polar bears and correlations with individual contaminant load. <i>Polar Biology</i> , 2016, 39, 1479-1489.	1.2	11
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270	Haematology, blood biochemistry, parasites and pathology of common eider (<i>Somateria mollissima</i>) males during a mortality event in the Baltic. <i>Science of the Total Environment</i> , 2019, 683, 559-567.	8.0	11

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272	First predatory journals, now conferences: The need to establish lists of fake conferences. <i>Science of the Total Environment</i> , 2020, 715, 136990.	8.0	11
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