

Un Hyuk Yim

List of Publications by Year in descending order

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111
papers

3,858
citations

94433

37
h-index

144013

57
g-index

111
all docs

111
docs citations

111
times ranked

3671
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine learning techniques for chemical and type analysis of ocean oil samples via handheld spectrophotometer device. <i>Biosensors and Bioelectronics</i> : X, 2022, 10, 100128.	1.7	0
2	Best available technique for the recovery of marine benthic communities in a gravel shore after the oil spill: A mesocosm-based sediment triad assessment. <i>Journal of Hazardous Materials</i> , 2022, 435, 128945.	12.4	2
3	High-throughput screening of oil fingerprint using FT-IR coupled with chemometrics. <i>Science of the Total Environment</i> , 2021, 760, 143354.	8.0	7
4	Development of a portable oil type classifier using laser-induced fluorescence spectrometer coupled with chemometrics. <i>Journal of Hazardous Materials</i> , 2021, 416, 125723.	12.4	17
5	Sediment quality assessment combining chemical and biological (non)target analysis. <i>Aquatic Toxicology</i> , 2021, 238, 105883.	4.0	5
6	Environmental significance of lubricant oil: A systematic study of photooxidation and its consequences. <i>Water Research</i> , 2020, 168, 115183.	11.3	19
7	Rapid recovery of coastal environment and ecosystem to the Hebei Spirit oil spill's impact. <i>Environment International</i> , 2020, 136, 105438.	10.0	24
8	Stability of mechanically and chemically dispersed oil: Effect of particle types on oil dispersion. <i>Science of the Total Environment</i> , 2020, 716, 135343.	8.0	19
9	Handheld UV fluorescence spectrophotometer device for the classification and analysis of petroleum oil samples. <i>Biosensors and Bioelectronics</i> , 2020, 159, 112193.	10.1	23
10	Long-Term Ecological Impacts from Oil Spills: Comparison of Exxon Valdez, Hebei Spirit, and Deepwater Horizon. <i>Environmental Science & Technology</i> , 2020, 54, 6456-6467.	10.0	122
11	Activation of the nucleotide excision repair pathway by crude oil exposure: A translational study from model organisms to the Hebei Spirit Oil Spill Cohort. <i>Environmental Pollution</i> , 2019, 254, 112997.	7.5	3
12	Molecular level determination of water accommodated fraction with embryonic developmental toxicity generated by photooxidation of spilled oil. <i>Chemosphere</i> , 2019, 237, 124346.	8.2	15
13	Suspended particles enhance biodegradation of oil in sea. <i>Science of the Total Environment</i> , 2019, 685, 324-331.	8.0	15
14	Comparative evaluation of bioremediation techniques on oil contaminated sediments in long-term recovery of benthic community health. <i>Environmental Pollution</i> , 2019, 252, 137-145.	7.5	8
15	A systematic study of the effects of solvents on phenanthrene photooxidation. <i>Chemosphere</i> , 2019, 220, 900-909.	8.2	9
16	Fate of residual oils during remediation activities after the Wu Yi San oil spill. <i>Marine Pollution Bulletin</i> , 2019, 138, 328-332.	5.0	5
17	eDNA-based bioassessment of coastal sediments impacted by an oil spill. <i>Environmental Pollution</i> , 2018, 238, 739-748.	7.5	47
18	Microbial community composition and PAHs removal potential of indigenous bacteria in oil contaminated sediment of Taean coast, Korea. <i>Environmental Pollution</i> , 2018, 234, 503-512.	7.5	111

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19	Characterization of endocrine disruption potentials of coastal sediments of Taean, Korea employing H295R and MVLN assays—Reconnaissance at 5 years after Hebei Spirit oil spill. <i>Marine Pollution Bulletin</i> , 2018, 127, 264-272.	5.0	10
20	Biosurfactant-assisted bioremediation of crude oil by indigenous bacteria isolated from Taean beach sediment. <i>Environmental Pollution</i> , 2018, 241, 254-264.	7.5	128
21	A preliminary study on the role of suspended particulate matter in the bioavailability of oil-derived polycyclic aromatic hydrocarbons to oysters. <i>Science of the Total Environment</i> , 2018, 643, 1084-1090.	8.0	15
22	Estimating degree of degradation of spilled oils based on relative abundance of aromatic compounds observed by paper spray ionization mass spectrometry. <i>Journal of Hazardous Materials</i> , 2018, 359, 421-428.	12.4	13
23	Adverse effects and immune dysfunction in response to oral administration of weathered Iranian heavy crude oil in the rockfish <i>Sebastes schlegeli</i> . <i>Aquatic Toxicology</i> , 2018, 200, 127-135.	4.0	9
24	Bioaccumulation of Polycyclic Aromatic Hydrocarbons (PAHs) by the Marine Clam, <i>Macraa veneriformis</i> , Chronically Exposed to Oil-Suspended Particulate Matter Aggregates. <i>Environmental Science & Technology</i> , 2018, 52, 7910-7920.	10.0	26
25	<i>Zobellella maritima</i> sp. nov., a polycyclic aromatic hydrocarbon-degrading bacterium, isolated from beach sediment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2018, 68, 2279-2284.	1.7	10
26	<i>Oceanimonas marisflavi</i> sp. nov., a polycyclic aromatic hydrocarbon-degrading marine bacterium. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2018, 68, 2990-2995.	1.7	13
27	Development of Real-time and Simultaneous Quantification of Volatile Organic Compounds in Ambient with SIFT-MS (Selected Ion Flow Tube-Mass Spectrometry). <i>Journal of Korean Society for Atmospheric Environment</i> , 2018, 34, 393-405.	1.1	16
28	Human health and ecological assessment programs for Hebei Spirit oil spill accident of 2007: Status, lessons, and future challenges. <i>Chemosphere</i> , 2017, 173, 180-189.	8.2	30
29	RNA seq- and DEG-based comparison of developmental toxicity in fish embryos of two species exposed to Iranian heavy crude oil. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2017, 196, 1-10.	2.6	9
30	Developmental toxicity in flounder embryos exposed to crude oils derived from different geographical regions. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2017, 196, 19-26.	2.6	6
31	Searching for novel modes of toxic actions of oil spill using <i>E. Coli</i> live cell array reporter system — A Hebei Spirit oil spill study. <i>Chemosphere</i> , 2017, 169, 669-677.	8.2	4
32	Paper Spray Chemical Ionization: Highly Sensitive Ambient Ionization Method for Low- and Nonpolar Aromatic Compounds. <i>Analytical Chemistry</i> , 2017, 89, 9056-9061.	6.5	31
33	Endocrine disrupting potential of PAHs and their alkylated analogues associated with oil spills. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 1117-1125.	3.5	38
34	Contamination and Human Health Risk Assessment of Polycyclic Aromatic Hydrocarbons (PAHs) in Oysters After the Wu Yi San Oil Spill in Korea. <i>Archives of Environmental Contamination and Toxicology</i> , 2017, 73, 103-117.	4.1	15
35	Environmental Impacts and Recovery After the Hebei Spirit Oil Spill in Korea. <i>Archives of Environmental Contamination and Toxicology</i> , 2017, 73, 47-54.	4.1	36
36	Long-Term Monitoring of PAH Contamination in Sediment and Recovery After the Hebei Spirit Oil Spill. <i>Archives of Environmental Contamination and Toxicology</i> , 2017, 73, 93-102.	4.1	23

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37	Marine Environmental Emergencies in the North Pacific Ocean: Lessons Learned from Recent Oil Spills. Archives of Environmental Contamination and Toxicology, 2017, 73, 1-4.	4.1	11
38	Reconnaissance of dioxin-like and estrogen-like toxicities in sediments of Taean, Korea-seven years after the Hebei Spirit oil spill. Chemosphere, 2017, 168, 1203-1210.	8.2	6
39	A review of the effects of particle types on oil-suspended particulate matter aggregate formation. Ocean Science Journal, 2016, 51, 535-548.	1.3	20
40	Origins of suspended particulate matter based on sterol distribution in low salinity water mass observed in the offshore East China Sea. Marine Pollution Bulletin, 2016, 108, 281-288.	5.0	16
41	Thyroid Hormone Disruption by Water-Accommodated Fractions of Crude Oil and Sediments Affected by the Hebei Spirit Oil Spill in Zebrafish and GH3 Cells. Environmental Science & Technology, 2016, 50, 5972-5980.	10.0	27
42	Optimization and application of atmospheric pressure chemical and photoionization hydrogen-deuterium exchange mass spectrometry for speciation of oxygen-containing compounds. Analytical and Bioanalytical Chemistry, 2016, 408, 3281-3293.	3.7	17
43	Bioaccessibility of AhR-active PAHs in sediments contaminated by the Hebei Spirit oil spill: Application of Tenax extraction in effect-directed analysis. Chemosphere, 2016, 144, 706-712.	8.2	39
44	Modeling the changes in the concentration of aromatic hydrocarbons from an oil-coated gravel column. Ocean Science Journal, 2015, 50, 763-773.	1.3	5
45	Effect-directed analysis and mixture effects of AhR-active PAHs in crude oil and coastal sediments contaminated by the Hebei Spirit oil spill. Environmental Pollution, 2015, 199, 110-118.	7.5	43
46	Measured and predicted affinities of binding and relative potencies to activate the AhR of PAHs and their alkylated analogues. Chemosphere, 2015, 139, 23-29.	8.2	28
47	Structure-dependent degradation of polar compounds in weathered oils observed by atmospheric pressure photo-ionization hydrogen/deuterium exchange ultrahigh resolution mass spectrometry. Journal of Hazardous Materials, 2015, 296, 93-100.	12.4	35
48	Differential Toxicokinetics Determines the Sensitivity of Two Marine Embryonic Fish Exposed to Iranian Heavy Crude Oil. Environmental Science & Technology, 2015, 49, 13639-13648.	10.0	52
49	A practical review on photooxidation of crude oil: Laboratory lamp setup and factors affecting it. Water Research, 2015, 68, 304-315.	11.3	52
50	Integrative assessment of sediment quality in terms of chemical contamination in Jinhae Bay, South Korea. Ocean Science Journal, 2014, 49, 265-278.	1.3	11
51	Assessment of pollution and ecological risk of heavy metals in the surface sediments of Ulsan Bay, Korea. Ocean Science Journal, 2014, 49, 279-289.	1.3	39
52	Oil-suspended particulate matter aggregates: Formation mechanism and fate in the marine environment. Ocean Science Journal, 2014, 49, 329-341.	1.3	44
53	Source- and region-specific distribution of polycyclic aromatic hydrocarbons in sediments from Jinhae Bay, Korea. Science of the Total Environment, 2014, 470-471, 1485-1493.	8.0	40
54	Prediction of Ecotoxicity of Heavy Crude Oil: Contribution of Measured Components. Environmental Science & Technology, 2014, 48, 2962-2970.	10.0	45

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55	Temporal changes in TBT pollution in water, sediment, and oyster from Jinhae Bay after the total ban in South Korea. <i>Marine Pollution Bulletin</i> , 2014, 86, 547-554.	5.0	35
56	Environmental and ecological effects and recoveries after five years of the Hebei Spirit oil spill, Taean, Korea. <i>Ocean and Coastal Management</i> , 2014, 102, 522-532.	4.4	42
57	Assessment of TBT and organic booster biocide contamination in seawater from coastal areas of South Korea. <i>Marine Pollution Bulletin</i> , 2014, 78, 201-208.	5.0	68
58	Fish biological effect monitoring of chemical stressors using a generalized linear model in South Sea, Korea. <i>Marine Pollution Bulletin</i> , 2014, 78, 230-234.	5.0	2
59	Carbon isotope variations in diploptene for methane hydrate dissociation during the last glacial episode in the Japan Sea/East Sea. <i>Geochemical Journal</i> , 2014, 48, 287-297.	1.0	1
60	Determination of Petroleum Aromatic Hydrocarbons in Seawater Using Headspace Solid-Phase Microextraction Coupled to Gas Chromatography/Mass Spectrometry. <i>Journal of the Korean Society for Marine Environment & Energy</i> , 2014, 17, 27-35.	0.2	2
61	Acute and chronic toxicity study of the water accommodated fraction (WAF), chemically enhanced WAF (CEWAF) of crude oil and dispersant in the rock pool copepod <i>Tigriopus japonicus</i> . <i>Chemosphere</i> , 2013, 92, 1161-1168.	8.2	54
62	Composition and source identification of polycyclic aromatic hydrocarbons in mangrove sediments of Peninsular Malaysia: indication of anthropogenic input. <i>Environmental Earth Sciences</i> , 2013, 70, 2425-2436.	2.7	40
63	Variations in sea surface temperatures based on alkenones in Korea Plateau sediments of the East Sea (Sea of Japan) over the last 300,000 years. <i>Journal of Asian Earth Sciences</i> , 2013, 66, 140-149.	2.3	9
64	Monitoring toxicity of polycyclic aromatic hydrocarbons in intertidal sediments for five years after the Hebei Spirit oil spill in Taean, Republic of Korea. <i>Marine Pollution Bulletin</i> , 2013, 76, 241-249.	5.0	41
65	The comparison of naturally weathered oil and artificially photo-degraded oil at the molecular level by a combination of SARA fractionation and FT-ICR MS. <i>Journal of Hazardous Materials</i> , 2013, 263, 404-411.	12.4	57
66	Isotopic dilution determination of emerging flame retardants in marine sediments by HPLC-APCI-MS/MS. <i>Analytical Methods</i> , 2013, 5, 1771.	2.7	19
67	Petroleum hydrocarbon contaminations in the intertidal seawater after the Hebei Spirit oil spill – Effect of tidal cycle on the TPH concentrations and the chromatographic characterization of seawater extracts. <i>Water Research</i> , 2013, 47, 758-768.	11.3	62
68	Mesocosm study on weathering characteristics of Iranian Heavy crude oil with and without dispersants. <i>Journal of Hazardous Materials</i> , 2013, 248-249, 37-46.	12.4	16
69	Toxicity and Bioaccumulation of Petroleum Mixtures with Alkyl PAHs in Earthworms. <i>Human and Ecological Risk Assessment (HERA)</i> , 2013, 19, 819-835.	3.4	21
70	Spatial variability of biochemical responses in resident fish after the M/V Hebei Spirit Oil Spill (Taean, Korea). <i>Journal of Hazardous Materials</i> , 2013, 248-249, 13-29.	13	29
71	Oil Spill Environmental Forensics: the Hebei Spirit Oil Spill Case. <i>Environmental Science & Technology</i> , 2012, 46, 6431-6437.	10.0	108
72	Particle-Size Distribution of Polycyclic Aromatic Hydrocarbons in Urban Road Dust of Masan, Korea. <i>Archives of Environmental Contamination and Toxicology</i> , 2012, 63, 189-198.	4.1	24

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73	Multiple In Vitro Bioassay Approach in Sediment Toxicity Evaluation: Masan Bay, Korea. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2012, 89, 32-37.	2.7	15
74	Chemical tracers, sterol biomarkers and satellite imagery in the study of a river plume ecosystem in the Yellow Sea. <i>Continental Shelf Research</i> , 2012, 33, 29-36.	1.8	20
75	Fingerprint and weathering characteristics of stranded oils after the Hebei Spirit oil spill. <i>Journal of Hazardous Materials</i> , 2011, 197, 60-69.	12.4	116
76	Biomarker responses in pelagic and benthic fish over 1 year following the Hebei Spirit oil spill (Taeon, Tj ETQq0 0 0 rgBT /Overlock 10 TF	5.0	76
77	Polychlorinated biphenyls (PCBs) in a benthic ecosystem in Gwangyang Bay, South Korea. <i>Marine Pollution Bulletin</i> , 2011, 62, 2863-2868.	5.0	13
78	Three decades of TBT contamination in sediments around a large scale shipyard. <i>Journal of Hazardous Materials</i> , 2011, 192, 634-642.	12.4	32
79	Status and trend of butyltin contamination in Masan Bay, Korea. <i>Toxicology and Environmental Health Sciences</i> , 2011, 3, 46-53.	2.1	10
80	Occurrence and spatial distribution of organic contaminants in sediments from Chinhae Bay, Korea. <i>Toxicology and Environmental Health Sciences</i> , 2010, 2, 119-124.	2.1	3
81	Dispersion of organic contaminants from wastewater treatment outfall in Masan Bay, Korea. <i>Toxicology and Environmental Health Sciences</i> , 2010, 2, 200-206.	2.1	6
82	Understanding the accumulation features of POPs in squid from the offshore waters of southeast Korea. <i>Fisheries Science</i> , 2010, 76, 325-331.	1.6	2
83	Hebei Spirit oil spill monitored on site by fluorometric detection of residual oil in coastal waters off Taeon, Korea. <i>Marine Pollution Bulletin</i> , 2010, 60, 383-389.	5.0	98
84	Interrelationship of Pyrogenic Polycyclic Aromatic Hydrocarbon (PAH) Contamination in Different Environmental Media. <i>Sensors</i> , 2009, 9, 9582-9602.	3.8	17
85	Persistent organochlorine pollutants in Korean offshore waters: Squid (<i>Todarodes pacificus</i>) as a biomonitor. <i>Marine Pollution Bulletin</i> , 2009, 58, 1238-1244.	5.0	12
86	Biomarkers in marbled flounder (<i>Pleuronectes yokohamae</i>) from contaminated and reference sites in South Korea. <i>Marine Pollution Bulletin</i> , 2009, 58, 1754-1759.	5.0	4
87	Assessment of sediment contamination by persistent organic pollutants in Gyeonggi Bay, Korea. <i>Toxicology and Environmental Health Sciences</i> , 2009, 1, 56-63.	2.1	12
88	Biomonitoring background levels of PCBs and PBDEs in Seoul metropolitan atmosphere for possible health effects. <i>Toxicology and Environmental Health Sciences</i> , 2009, 1, 109-116.	2.1	5
89	Airborne mercury pollution from a large oil spill accident on the west coast of Korea. <i>Journal of Hazardous Materials</i> , 2009, 164, 380-384.	12.4	28
90	Biochemical changes in rockfish, <i>Sebastes schlegeli</i> , exposed to dispersed crude oil. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2009, 150, 218-223.	2.6	25

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91	Assessment of tributyltin contamination in a shipyard area using a mussel transplantation approach. <i>Marine Pollution Bulletin</i> , 2008, 57, 883-888.	5.0	23
92	Distribution characteristics of nonylphenolic chemicals in Masan Bay environments, Korea. <i>Chemosphere</i> , 2008, 71, 1162-1172.	8.2	72
93	Persistent organochlorine residues in estuarine and marine sediments from Ha Long Bay, Hai Phong Bay, and Ba Lat Estuary, Vietnam. <i>Chemosphere</i> , 2008, 72, 1193-1202.	8.2	74
94	Distribution and characteristics of PAHs in sediments from the marine environment of Korea. <i>Chemosphere</i> , 2007, 68, 85-92.	8.2	97
95	A congener-specific survey for polychlorinated dibenzo-p-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs) contamination in Masan Bay, Korea. <i>Chemosphere</i> , 2007, 68, 1613-1622.	8.2	26
96	Nationwide monitoring of polychlorinated biphenyls and organochlorine pesticides in sediments from coastal environment of Korea. <i>Chemosphere</i> , 2006, 64, 1479-1488.	8.2	107
97	Comet assay for the detection of genotoxicity in blood cells of flounder (<i>Paralichthys olivaceus</i>) exposed to sediments and polycyclic aromatic hydrocarbons. <i>Marine Pollution Bulletin</i> , 2006, 52, 1768-1775.	5.0	58
98	Spatio-temporal distribution and characteristics of PAHs in sediments from Masan Bay, Korea. <i>Marine Pollution Bulletin</i> , 2005, 50, 319-326.	5.0	146
99	Seasonal and spatial distribution of nonylphenol and IBP in Saemangeum Bay, Korea. <i>Marine Pollution Bulletin</i> , 2005, 51, 966-974.	5.0	27
100	A preliminary report of persistent organochlorine pollutants in the Yellow Sea. <i>Marine Pollution Bulletin</i> , 2005, 50, 217-222.	5.0	20
101	Assessment of butyl- and phenyltin pollution in the coastal environment of Korea using mussels and oysters. <i>Marine Pollution Bulletin</i> , 2005, 51, 922-931.	5.0	37
102	Levels of Persistent Organochlorine Contaminants in Fish from Korea and Their Potential Health Risk. <i>Archives of Environmental Contamination and Toxicology</i> , 2005, 48, 358-366.	4.1	62
103	Congener-Specific Survey for Polychlorinated Biphenyls in Sediments of Industrialized Bays in Korea: Regional Characteristics and Pollution Sources. <i>Environmental Science & Technology</i> , 2005, 39, 7380-7388.	10.0	102
104	Accumulation of butyl- and phenyltin compounds in starfish and bivalves from the coastal environment of Korea. <i>Environmental Pollution</i> , 2005, 133, 489-499.	7.5	43
105	Seasonal flux of nonylphenol in Han River, Korea. <i>Chemosphere</i> , 2004, 56, 1-6.	8.2	73
106	Accumulation of Tributyltin in Olive Flounder, <i>Paralichthys olivaceus</i> : Its Effect on Hepatic Cytochrome P450. <i>Archives of Environmental Contamination and Toxicology</i> , 2003, 44, 390-397.	4.1	14
107	Horizontal and vertical distribution of PCBs and chlorinated pesticides in sediments from Masan Bay, Korea. <i>Marine Pollution Bulletin</i> , 2003, 46, 244-253.	5.0	169
108	Identification of PAHs Sources in Bivalves and Sediments 5 Years After the Sea Prince Oil Spill in Korea. <i>Environmental Forensics</i> , 2002, 3, 357-366.	2.6	20

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109	Identification of PAHs Sources in Bivalves and Sediments 5 Years After the Sea Prince Oil Spill in Korea. Environmental Forensics, 2002, 3, 357-366.	2.6	4
110	Geographical distribution and accumulation features of organochlorine residues in bivalves from coastal areas of South Korea. Marine Pollution Bulletin, 2002, 45, 268-279.	5.0	107
111	Horizontal and Vertical Distribution of Butyltin Compounds in Sediments from Shipyards in Korea. Archives of Environmental Contamination and Toxicology, 2002, 43, 277-283.	4.1	40