

Chemical dispersants can suppress the activity of natural

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Three Widely-Available Dispersants Substantially Increase the Biodegradation of otherwise Undispersed Oil. <i>Journal of Marine Science: Research &amp; Development</i> , 2015, 06, .	0.4	7
3	Marine Snow Sedimented Oil Released During the Deepwater Horizon Spill. <i>Oceanography</i> , 2016, 29, 118-125.	0.5	105
4	The Role of Dispersants in Oil Spill Remediation: Fundamental Concepts, Rationale for Use, Fate, and Transport Issues. <i>Oceanography</i> , 2016, 29, 108-117.	0.5	48
5	What Happened to All of the Oil?. <i>Oceanography</i> , 2016, 29, 88-95.	0.5	40
6	Editorial: New Insights into Microbial Ecology through Subtle Nucleotide Variation. <i>Frontiers in Microbiology</i> , 2016, 7, 1318.	1.5	13
7	Microbial Control of the Concentrations of Dissolved Aquatic Hydrocarbons. <i>Springer Protocols</i> , 2016, , 149-166.	0.1	0
8	Responses of Microbial Communities to Hydrocarbon Exposures. <i>Oceanography</i> , 2016, 29, 136-149.	0.5	59
9	Differential effects of crude oil on denitrification and anammox, and the impact on N2O production. <i>Environmental Pollution</i> , 2016, 216, 391-399.	3.7	21
10	Ophthalmic effects of petroleum dispersant exposure on common murre (Uria aalge): An experimental study. <i>Marine Pollution Bulletin</i> , 2016, 113, 387-391.	2.3	7
11	Role of environmental factors and microorganisms in determining the fate of polycyclic aromatic hydrocarbons in the marine environment. <i>FEMS Microbiology Reviews</i> , 2016, 40, 814-830.	3.9	183
12	The role of microbial exopolymers in determining the fate of oil and chemical dispersants in the ocean. <i>Limnology and Oceanography Letters</i> , 2016, 1, 3-26.	1.6	105
13	Combined Experimental and Molecular Simulation Investigation of the Individual Effects of Corexit Surfactants on the Aerosolization of Oil Spill Matter. <i>Journal of Physical Chemistry A</i> , 2016, 120, 6048-6058.	1.1	5
14	Reconstructing metabolic pathways of hydrocarbon-degrading bacteria from the Deepwater Horizon oil spill. <i>Nature Microbiology</i> , 2016, 1, 16057.	5.9	173
15	Protocols for Radiotracer Estimation of Primary Hydrocarbon Oxidation in Oxygenated Seawater. <i>Springer Protocols</i> , 2016, , 263-276.	0.1	1
16	Response of the bacterial community in oil-contaminated marine water to the addition of chemical and biological dispersants. <i>Journal of Environmental Management</i> , 2016, 184, 473-479.	3.8	16
17	Simulation of oil bioremediation in a tidally influenced beach: Spatiotemporal evolution of nutrient and dissolved oxygen. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 2385-2404.	1.0	25
19	Environmental effects of the Deepwater Horizon oil spill: A review. <i>Marine Pollution Bulletin</i> , 2016, 110, 28-51.	2.3	527
20	The Gulf of Mexico ecosystem, six years after the Macondo oil well blowout. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016, 129, 4-19.	0.6	99

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21	Bacterial diversity in oil-polluted marine coastal sediments. <i>Current Opinion in Biotechnology</i> , 2016, 38, 24-32.	3.3	90
22	Bioremediation technologies for polluted seawater sampled after an oil-spill in Taranto Gulf (Italy): A comparison of biostimulation, bioaugmentation and use of a washing agent in microcosm studies. <i>Marine Pollution Bulletin</i> , 2016, 106, 119-126.	2.3	60
23	Assessing the impacts of oil-associated marine snow formation and sedimentation during and after the Deepwater Horizon oil spill. <i>Anthropocene</i> , 2016, 13, 18-33.	1.6	222
24	Reply to Prince et al.: Ability of chemical dispersants to reduce oil spill impacts remains unclear. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1422-E1423.	3.3	25
25	Oil dispersants do facilitate biodegradation of spilled oil. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1421.	3.3	42
26	Biodegradation of crude oil and dispersants in deep seawater from the Gulf of Mexico: Insights from ultra-high resolution mass spectrometry. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016, 129, 108-118.	0.6	42
27	Toxic effects of chemical dispersant Corexit 9500 on water flea <i>Daphnia magna</i> . <i>Journal of Applied Toxicology</i> , 2017, 37, 201-206.	1.4	16
28	Simulating pathways of subsurface oil in the Faroese-Shetland Channel using an ocean general circulation model. <i>Marine Pollution Bulletin</i> , 2017, 114, 315-326.	2.3	11
29	Microbial Fuel Cells for Organic Contaminated Soil Remedial Applications: A Review. <i>Energy Technology</i> , 2017, 5, 1156-1164.	1.8	69
30	Application of bacterial biosurfactants for enhanced removal and biodegradation of diesel oil in soil using a newly isolated consortium. <i>Chemical Engineering Research and Design</i> , 2017, 109, 72-81.	2.7	57
31	Corexit 9500 Enhances Oil Biodegradation and Changes Active Bacterial Community Structure of Oil-Enriched Microcosms. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	94
32	Microbial degradation of four crude oil by biosurfactant producing strain <i>Rhodococcus</i> sp.. <i>Bioresource Technology</i> , 2017, 232, 263-269.	4.8	66
33	Biotechnologies for Marine Oil Spill Cleanup: Indissoluble Ties with Microorganisms. <i>Trends in Biotechnology</i> , 2017, 35, 860-870.	4.9	158
34	Hydrocarbon and Lipid Microbiology Protocols. <i>Springer Protocols</i> , 2017, . .	0.1	0
35	Hydrocarbon composition and concentrations in the Gulf of Mexico sediments in the 3 years following the Macondo well blowout. <i>Environmental Pollution</i> , 2017, 229, 329-338.	3.7	23
36	Self-healing capacity of deep-sea ecosystems affected by petroleum hydrocarbons. <i>EMBO Reports</i> , 2017, 18, 868-872.	2.0	14
37	Effects of oil dispersants on photodegradation of parent and alkylated anthracene in seawater. <i>Environmental Pollution</i> , 2017, 229, 272-280.	3.7	22
38	Effect of Corexit 9500A on Mississippi Canyon crude oil weathering patterns using artificial and natural seawater. <i>Heliyon</i> , 2017, 3, e00269.	1.4	24

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39	The contribution of chemical dispersants and biosurfactants on crude oil biodegradation by <i>Pseudomonas</i> sp. LSH-7. <i>Journal of Cleaner Production</i> , 2017, 153, 74-82.	4.6	38
41	Ecogenomics of Deep-Ocean Microbial Bathotypes. , 2017, , 7-50.		8
42	Persistence and biodegradation of oil at the ocean floor following <i>Deepwater Horizon</i>. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9-E18.	3.3	93
43	Simulations predict microbial responses in the environment? This environment disagrees retrospectively. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8947-E8949.	3.3	5
44	How the dispersant Corexit impacts the formation of sinking marine oil snow. <i>Marine Pollution Bulletin</i> , 2017, 125, 139-145.	2.3	58
45	Size Distribution and Dispersion of Droplets Generated by Impingement of Breaking Waves on Oil Slicks. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 7938-7957.	1.0	86
46	The Variable Influence of Dispersant on Degradation of Oil Hydrocarbons in Subarctic Deep-Sea Sediments at Low Temperatures (0-5°C). <i>Scientific Reports</i> , 2017, 7, 2253.	1.6	40
47	Rapid Response of Eastern Mediterranean Deep Sea Microbial Communities to Oil. <i>Scientific Reports</i> , 2017, 7, 5762.	1.6	27
48	Chemical dispersants enhance the activity of oil- and gas condensate-degrading marine bacteria. <i>ISME Journal</i> , 2017, 11, 2793-2808.	4.4	114
49	Simulation of <i>Deepwater Horizon</i> oil plume reveals substrate specialization within a complex community of hydrocarbon degraders. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7432-7437.	3.3	120
50	Halloysites Stabilized Emulsions for Hydroformylation of Long Chain Olefins. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600435.	1.9	57
51	Role of EPS, Dispersant and Nutrients on the Microbial Response and MOS Formation in the Subarctic Northeast Atlantic. <i>Frontiers in Microbiology</i> , 2017, 8, 676.	1.5	36
52	Microbial Extracellular Polymeric Substances (EPSs) in Ocean Systems. <i>Frontiers in Microbiology</i> , 2017, 8, 922.	1.5	457
53	The Deep-Sea Microbial Community from the Amazonian Basin Associated with Oil Degradation. <i>Frontiers in Microbiology</i> , 2017, 8, 1019.	1.5	48
54	<i>Marinobacter</i> sp. from marine sediments produce highly stable surface-active agents for combatting marine oil spills. <i>Microbial Cell Factories</i> , 2017, 16, 186.	1.9	32
55	Respiratory, Dermal, and Eye Irritation Symptoms Associated with Corexit, EC9527A/EC9500A following the <i>Deepwater Horizon</i> Oil Spill: Findings from the GuLF STUDY. <i>Environmental Health Perspectives</i> , 2017, 125, 097015.	2.8	30
56	Biodegradation of marine oil spills in the Arctic with a Greenland perspective. <i>Science of the Total Environment</i> , 2018, 626, 1243-1258.	3.9	51
57	Effects of the Razor Clam <i>Tagelus plebeius</i> on the Fate of Petroleum Hydrocarbons: A Mesocosm Experiment. <i>Archives of Environmental Contamination and Toxicology</i> , 2018, 75, 306-315.	2.1	5

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58	Biodegradation of oil spill dispersant surfactants in cold seawater. <i>Chemosphere</i> , 2018, 204, 290-293.	4.2	29
59	Attachment of <i>Alcanivorax borkumensis</i> to Hexadecane-In-Artificial Sea Water Emulsion Droplets. <i>Langmuir</i> , 2018, 34, 5352-5357.	1.6	27
60	Bioremediation of Marine Oil Spills. , 2018, , 419-470.		9
61	Bacterial proliferation on clay nanotube Pickering emulsions for oil spill bioremediation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 164, 27-33.	2.5	71
62	Partial Photochemical Oxidation Was a Dominant Fate of <i>Deepwater Horizon</i> Surface Oil. <i>Environmental Science &amp; Technology</i> , 2018, 52, 1797-1805.	4.6	94
63	Current status of deepwater oil spill modelling in the Faroe-Shetland Channel, Northeast Atlantic, and future challenges. <i>Marine Pollution Bulletin</i> , 2018, 127, 484-504.	2.3	11
64	Acute toxicity of Corexit EC9500A and assessment of dioctyl sulfosuccinate as an indicator for monitoring four oil dispersants applied to diluted bitumen. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 1309-1319.	2.2	7
65	Integrating Dispersants in Oil Spill Response in Arctic and Other Icy Environments. <i>Environmental Science &amp; Technology</i> , 2018, 52, 6098-6112.	4.6	43
66	Structural and functional measures of marine microbial communities: An experiment to assess implications for oil spill management. <i>Marine Pollution Bulletin</i> , 2018, 131, 525-529.	2.3	12
67	SnapShot: Microbial Hydrocarbon Bioremediation. <i>Cell</i> , 2018, 172, 1336-1336.e1.	13.5	11
68	Microbial community and metagenome dynamics during biodegradation of dispersed oil reveals potential key-players in cold Norwegian seawater. <i>Marine Pollution Bulletin</i> , 2018, 129, 370-378.	2.3	91
69	Microbial communities in seawater from an Arctic and a temperate Norwegian fjord and their potentials for biodegradation of chemically dispersed oil at low seawater temperatures. <i>Marine Pollution Bulletin</i> , 2018, 129, 308-317.	2.3	35
70	Major changes in the composition of a Southern Ocean bacterial community in response to diatom-derived dissolved organic matter. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	1.3	25
71	Biodegradation of dispersed oil in seawater is not inhibited by a commercial oil spill dispersant. <i>Marine Pollution Bulletin</i> , 2018, 129, 555-561.	2.3	59
72	Dispersibility and biotransformation of oils with different properties in seawater. <i>Chemosphere</i> , 2018, 191, 44-53.	4.2	24
73	Response of marine bacteria to oil contamination and to high pressure and low temperature deep sea conditions. <i>MicrobiologyOpen</i> , 2018, 7, e00550.	1.2	22
74	BP Gulf Science Data Reveals Ineffectual Subsea Dispersant Injection for the Macondo Blowout. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	20
75	Cleanup in the Gulf: Oil Spill Dispersants and Health Symptoms in <i>Deepwater Horizon</i> Responders. <i>Environmental Health Perspectives</i> , 2018, 126, 024001.	2.8	3

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76	Petroleum Hydrocarbon-Degrading Bacteria for the Remediation of Oil Pollution Under Aerobic Conditions: A Perspective Analysis. <i>Frontiers in Microbiology</i> , 2018, 9, 2885.	1.5	384
77	Extracellular polymeric substances (EPS) producing and oil degrading bacteria isolated from the northern Gulf of Mexico. <i>PLoS ONE</i> , 2018, 13, e0208406.	1.1	53
78	Partitioning of oil compounds into marine oil snow: Insights into prevailing mechanisms and dispersant effects. <i>Marine Chemistry</i> , 2018, 206, 62-73.	0.9	23
79	Lessons from the 2010 Deepwater Horizon Accident in the Gulf of Mexico. , 2018, , 1-19.		3
80	Microbial community response and migration of petroleum compounds during a sea-ice oil spill experiment in Svalbard. <i>Marine Environmental Research</i> , 2018, 142, 214-233.	1.1	17
81	Adhesion of <i>Marinobacter hydrocarbonoclasticus</i> to Surfactant-Decorated Dodecane Droplets. <i>Langmuir</i> , 2018, 34, 14012-14021.	1.6	21
82	The role of microbially-mediated exopolymeric substances (EPS) in regulating Macondo oil transport in a mesocosm experiment. <i>Marine Chemistry</i> , 2018, 206, 52-61.	0.9	26
83	Engineered Clays as Sustainable Oil Dispersants in the Presence of Model Hydrocarbon Degrading Bacteria: The Role of Bacterial Sequestration and Biofilm Formation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14143-14153.	3.2	29
84	Biodegradation of dispersed oil in natural seawaters from Western Greenland and a Norwegian fjord. <i>Polar Biology</i> , 2018, 41, 2435-2450.	0.5	23
85	Hydrocarbon degradation and response of seafloor sediment bacterial community in the northern Gulf of Mexico to light Louisiana sweet crude oil. <i>ISME Journal</i> , 2018, 12, 2532-2543.	4.4	115
86	Bacterial Community Response in Deep Faroe-Shetland Channel Sediments Following Hydrocarbon Entrainment With and Without Dispersant Addition. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	12
87	Exposure to Crude Oil and Chemical Dispersant May Impact Marine Microbial Biofilm Composition and Steel Corrosion. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	22
88	A Retrospective Review of Microbiological Methods Applied in Studies Following the Deepwater Horizon Oil Spill. <i>Frontiers in Microbiology</i> , 2018, 9, 520.	1.5	8
89	Rapid Formation of Microbe-Oil Aggregates and Changes in Community Composition in Coastal Surface Water Following Exposure to Oil and the Dispersant Corexit. <i>Frontiers in Microbiology</i> , 2018, 9, 689.	1.5	72
90	Extracellular Enzyme Activity Profile in a Chemically Enhanced Water Accommodated Fraction of Surrogate Oil: Toward Understanding Microbial Activities After the Deepwater Horizon Oil Spill. <i>Frontiers in Microbiology</i> , 2018, 9, 798.	1.5	30
91	The Effect of Hydrostatic Pressure on Enrichments of Hydrocarbon Degrading Microbes From the Gulf of Mexico Following the Deepwater Horizon Oil Spill. <i>Frontiers in Microbiology</i> , 2018, 9, 808.	1.5	40
92	A critical review of marine snow in the context of oil spills and oil spill dispersant treatment with focus on the Deepwater Horizon oil spill. <i>Marine Pollution Bulletin</i> , 2018, 135, 346-356.	2.3	54
93	Biodegradation of Crude Oil and Corexit 9500 in Arctic Seawater. <i>Frontiers in Microbiology</i> , 2018, 9, 1788.	1.5	51

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94	Ecological response of nitrification to oil spills and its impact on the nitrogen cycle. <i>Environmental Microbiology</i> , 2019, 21, 18-33.	1.8	47
95	Biofilm Formation by Hydrocarbon-Degrading Marine Bacteria and Its Effects on Oil Dispersion. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14490-14499.	3.2	49
96	Investigation of Amphiphilic Polypeptoid-Functionalized Halloysite Nanotubes as Emulsion Stabilizer for Oil Spill Remediation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 27944-27953.	4.0	54
97	Marine biofilm bacterial community response and carbon steel loss following Deepwater Horizon spill contaminant exposure. <i>Biofouling</i> , 2019, 35, 870-882.	0.8	15
98	Interfacial Phenomena of Natural Dispersants for Crude Oil Spills. <i>Langmuir</i> , 2019, 35, 15904-15913.	1.6	4
99	Dispersant Enhances Hydrocarbon Degradation and Alters the Structure of Metabolically Active Microbial Communities in Shallow Seawater From the Northeastern Gulf of Mexico. <i>Frontiers in Microbiology</i> , 2019, 10, 2387.	1.5	12
100	Amphiphilic Janus particles for efficient dispersion of oil contaminants in seawater. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 54-64.	5.0	33
101	Hydrocarbon-Degrading Microbial Communities Are Site Specific, and Their Activity Is Limited by Synergies in Temperature and Nutrient Availability in Surface Ocean Waters. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	23
102	Role of Polysaccharides in Diatom <i>Thalassiosira pseudonana</i> and its Associated Bacteria in Hydrocarbon Presence. <i>Plant Physiology</i> , 2019, 180, 1898-1911.	2.3	40
103	Surfactant-enhanced Bioremediation of n-Hexadecane-contaminated Soil Using Halo-tolerant Bacteria <i>Paenibacillus glucanolyticus</i> sp. Strain T7-AHV Isolated from Marine Environment. <i>Chemical and Biochemical Engineering Quarterly</i> , 2019, 33, 111-123.	0.5	9
104	Importance of functional diversity in assessing the recovery of the microbial community after the Hebei Spirit oil spill in Korea. <i>Environment International</i> , 2019, 128, 89-94.	4.8	35
105	Microcosm evaluation of the impact of oil contamination and chemical dispersant addition on bacterial communities and sediment remediation of an estuarine port environment. <i>Journal of Applied Microbiology</i> , 2019, 127, 134-149.	1.4	9
106	Potential for Microbially Mediated Natural Attenuation of Diluted Bitumen on the Coast of British Columbia (Canada). <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	25
107	Global Aerobic Degradation of Hydrocarbons in Aquatic Systems. , 2019, , 797-814.		0
108	Metagenomic and metatranscriptomic responses of natural oil degrading bacteria in the presence of dispersants. <i>Environmental Microbiology</i> , 2019, 21, 2307-2319.	1.8	29
109	Microbial degradation of four dispersed crude oils by <i>Rhodococcus</i> sp. evaluated using carbon stable isotope analysis. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 1800-1807.	1.6	8
110	Microbes and Enzymes in Soil Health and Bioremediation. <i>Microorganisms for Sustainability</i> , 2019, , .	0.4	20
111	Characteristics of Microbial Communities and Their Correlation With Environmental Substrates and Sediment Type in the Gas-Bearing Formation of Hangzhou Bay, China. <i>Frontiers in Microbiology</i> , 2019, 10, 2421.	1.5	3



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112	Microbial Communities Responding to Deep-Sea Hydrocarbon Spills. , 2019, , 1-17.		1
113	Effects of Superdispersant-25 on the sorption dynamics of naphthalene and phenanthrene in marine sediments. <i>Journal of Soils and Sediments</i> , 2019, 19, 1576-1586.	1.5	1
114	A probabilistic model of decision making regarding the use of chemical dispersants to combat oil spills in the German Bight. <i>Water Research</i> , 2020, 169, 115196.	5.3	21
115	Chemical and biological dispersants differently affect the bacterial communities of uncontaminated and oil-contaminated marine water. <i>Brazilian Journal of Microbiology</i> , 2020, 51, 691-700.	0.8	4
116	Biodegradation of Petroleum Hydrocarbons in the Deep Sea. , 2020, , 107-124.		10
117	Partitioning of Organics Between Oil and Water Phases with and Without the Application of Dispersants. , 2020, , 125-138.		2
118	Summary of Contemporary Research on the Use of Chemical Dispersants for Deep-Sea Oil Spills. , 2020, , 494-512.		3
119	Anthropogenic pollution of aquatic ecosystems: Emerging problems with global implications. <i>Science of the Total Environment</i> , 2020, 713, 136586.	3.9	327
120	Stability of mechanically and chemically dispersed oil: Effect of particle types on oil dispersion. <i>Science of the Total Environment</i> , 2020, 716, 135343.	3.9	19
121	Assessment for oil spill chemicals: Current knowledge, data gaps, and uncertainties addressing human physical health risk. <i>Marine Pollution Bulletin</i> , 2020, 150, 110746.	2.3	39
122	Influence of pressure and dispersant on oil biodegradation by a newly isolated <i>Rhodococcus</i> strain from deep-sea sediments of the gulf of Mexico. <i>Marine Pollution Bulletin</i> , 2020, 150, 110683.	2.3	25
123	Biodegradation of Hydrocarbon-Contaminated Drill Mud Waste with Compost and Cow Bile. <i>Environmental Processes</i> , 2020, 7, 1111-1127.	1.7	5
124	Distinctive gene and protein characteristics of extremely piezophilic <i>Colwellia</i> . <i>BMC Genomics</i> , 2020, 21, 692.	1.2	27
125	Starvation-Dependent Inhibition of the Hydrocarbon Degrader <i>Marinobacter</i> sp. TT1 by a Chemical Dispersant. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 925.	1.2	12
126	Synergistic biodegradation of aromatic-aliphatic copolyester plastic by a marine microbial consortium. <i>Nature Communications</i> , 2020, 11, 5790.	5.8	122
127	Biophysical methods to quantify bacterial behaviors at oil-water interfaces. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2020, 47, 725-738.	1.4	11
128	Crude oil pollution and biodegradation at the Persian Gulf: A comprehensive and review study. <i>Journal of Environmental Health Science &amp; Engineering</i> , 2020, 18, 1415-1435.	1.4	22
129	Niche Partitioning between Coastal and Offshore Shelf Waters Results in Differential Expression of Alkane and Polycyclic Aromatic Hydrocarbon Catabolic Pathways. <i>MSystems</i> , 2020, 5, .	1.7	10



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130	Mild hydrostatic-pressure (15ÂMPa) affects the assembly, but not the growth, of oil-degrading coastal microbial communities tested under limiting conditions (5Â°C, no added nutrients). <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	4
131	Formation, Detection, and Modeling of Submerged Oil: A Review. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 642.	1.2	8
132	The Interactive Effects of Crude Oil and Corexit 9500 on Their Biodegradation in Arctic Seawater. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	10
133	Hydrocarbon-Degrading Bacteria Found Tightly Associated with the 50â€“70 Î¼m Cell-Size Population of Eukaryotic Phytoplankton in Surface Waters of a Northeast Atlantic Region. <i>Microorganisms</i> , 2020, 8, 1955.	1.6	10
134	Marine Snow Aggregates are Enriched in Polycyclic Aromatic Hydrocarbons (PAHs) in Oil Contaminated Waters: Insights from a Mesocosm Study. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 781.	1.2	13
135	Influence of oil, dispersant, and pressure on microbial communities from the Gulf of Mexico. <i>Scientific Reports</i> , 2020, 10, 7079.	1.6	15
136	Changes in microbial community in the presence of oil and chemical dispersant and their effects on the corrosion of API 5L steel coupons in a marine-simulated microcosm. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 6397-6411.	1.7	25
137	Probing the Chemical Transformation of Seawater-Soluble Crude Oil Components during Microbial Oxidation. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 690-701.	1.2	5
138	Bioconversion of Agroindustrial Waste in the Production of Bioemulsifier by <i>Stenotrophomonas maltophilia</i> UCP 1601 and Application in Bioremediation Process. <i>International Journal of Chemical Engineering</i> , 2020, 2020, 1-9.	1.4	16
139	Preparation and Oil Absorption Performance of Polyacrylonitrile Fiber Oil Absorption Material. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	1.1	5
140	Recent advances in carbon nanotube sponge-based sorption technologies for mitigation of marine oil spills. <i>Journal of Colloid and Interface Science</i> , 2020, 570, 411-422.	5.0	69
141	Diatom aggregation when exposed to crude oil and chemical dispersant: Potential impacts of ocean acidification. <i>PLoS ONE</i> , 2020, 15, e0235473.	1.1	10
142	Cold-water coral ( <i>Lophelia pertusa</i> ) response to multiple stressors: High temperature affects recovery from short-term pollution exposure. <i>Scientific Reports</i> , 2020, 10, 1768.	1.6	15
143	Kinetic analysis and parametric optimization for bioaugmentation of oil from oily wastewater with hydrocarbonoclastic <i>Rhodococcus pyridinivorans</i> F5 strain. <i>Environmental Technology and Innovation</i> , 2020, 17, 100630.	3.0	22
144	Time- and compound-dependent microbial community compositions and oil hydrocarbon degrading activities in seawater near the Chinese Zhoushan Archipelago. <i>Marine Pollution Bulletin</i> , 2020, 152, 110907.	2.3	18
145	The first decade of scientific insights from the Deepwater Horizon oil release. <i>Nature Reviews Earth &amp; Environment</i> , 2020, 1, 237-250.	12.2	52
146	Physiological Responses of Fish to Oil Spills. <i>Annual Review of Marine Science</i> , 2021, 13, 137-160.	5.1	23
147	Solid inoculants as a practice for bioaugmentation to enhance bioremediation of hydrocarbon contaminated areas. <i>Chemosphere</i> , 2021, 263, 128175.	4.2	12

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148	Initial oil concentration affects hydrocarbon biodegradation rates and bacterial community composition in seawater. <i>Marine Pollution Bulletin</i> , 2021, 162, 111867.	2.3	23
149	The Complexity of Spills: The Fate of the <i>Deepwater Horizon</i> Oil. <i>Annual Review of Marine Science</i> , 2021, 13, 109-136.	5.1	37
150	Isolation and characterization of a novel hydrocarbonoclastic and biosurfactant producing bacterial strain: <i>Fictibacillus phosphorivorans</i> RP3. <i>3 Biotech</i> , 2021, 11, 105.	1.1	5
151	Bacterial and archaeal diversity in oil fields and reservoirs and their potential role in hydrocarbon recovery and bioprospecting. <i>Environmental Science and Pollution Research</i> , 2021, 28, 58819-58836.	2.7	10
152	Biosurfactants and Their Applications in the Oil and Gas Industry: Current State of Knowledge and Future Perspectives. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 626639.	2.0	83
153	Microbial Functional Responses in Marine Biofilms Exposed to Deepwater Horizon Spill Contaminants. <i>Frontiers in Microbiology</i> , 2021, 12, 636054.	1.5	7
154	Effects of Petroleum By-Products and Dispersants on Ecosystems. <i>Oceanography</i> , 2021, 34, 152-163.	0.5	10
155	Nano-enhanced Bioremediation for Oil Spills: A Review. <i>ACS ES&amp;T Engineering</i> , 2021, 1, 928-946.	3.7	49
156	Effects of Dispersants and Biosurfactants on Crude-Oil Biodegradation and Bacterial Community Succession. <i>Microorganisms</i> , 2021, 9, 1200.	1.6	15
157	Aggregation and Degradation of Dispersants and Oil by Microbial Exopolymers (ADDOMEx): Toward a Synthesis of Processes and Pathways of Marine Oil Snow Formation in Determining the Fate of Hydrocarbons. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	1
158	Microbial communities in petroleum-contaminated sites: Structure and metabolisms. <i>Chemosphere</i> , 2022, 286, 131752.	4.2	35
159	The Interplay of Phototrophic and Heterotrophic Microbes Under Oil Exposure: A Microcosm Study. <i>Frontiers in Microbiology</i> , 2021, 12, 675328.	1.5	6
160	Response and oil degradation activities of a northeast Atlantic bacterial community to biogenic and synthetic surfactants. <i>Microbiome</i> , 2021, 9, 191.	4.9	16
161	When FLOW-FISH met FACS: Combining multiparametric, dynamic approaches for microbial single-cell research in the total environment. <i>Science of the Total Environment</i> , 2022, 806, 150682.	3.9	10
162	Exploration of marine bacterioplankton community assembly mechanisms during chemical dispersant and surfactant-assisted oil biodegradation. <i>Ecology and Evolution</i> , 2021, 11, 13862-13874.	0.8	7
163	Rapid capturing of oil-degrading bacteria by engineered attapulгите and their synergistic remediation for oil spill. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 272-280.	5.0	10
164	Marine Oil Snow, a Microbial Perspective. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	23
165	Bacterial aggregation assisted by anionic surfactant and calcium ions. <i>Soft Matter</i> , 2021, 17, 8474-8482.	1.2	4

#	ARTICLE	IF	CITATIONS
166	Effects of Pollution on Fish. , 2021, , 39-60.		0
167	Biodegradation of Petroleum Oil in Cold Marine Environments. , 2017, , 613-644.		9
168	Biosurfactants in Bioremediation and Soil Health. Microorganisms for Sustainability, 2019, , 353-378.	0.4	3
169	Metagenomic Data Mining in Oil Spill Studies. , 2019, , 211-223.		2
171	Microbial response to oil enrichment in Gulf of Mexico sediment measured using a novel long-term benthic lander system. Elementa, 2017, 5, .	1.1	19
172	Stress response of the black coral <i>Leiopathes glaberrima</i> when exposed to sub-lethal amounts of crude oil and dispersant. Elementa, 2017, 5, .	1.1	6
173	Polysaccharide hydrolysis in the presence of oil and dispersants: Insights into potential degradation pathways of exopolymeric substances (EPS) from oil-degrading bacteria. Elementa, 2019, 7, .	1.1	2
174	Comparative Proteomics of <i>Marinobacter</i> sp. TT1 Reveals Corexit Impacts on Hydrocarbon Metabolism, Chemotactic Motility, and Biofilm Formation. Microorganisms, 2021, 9, 3.	1.6	11
175	FROM THE TORREY CANYON TO TODAY: A 50 YEAR RETROSPECTIVE OF RECOVERY FROM THE OIL SPILL AND INTERACTION WITH CLIMATE-DRIVEN FLUCTUATIONS ON CORNISH ROCKY SHORES. International Oil Spill Conference Proceedings, 2017, 2017, 74-103.	0.1	6
176	Bacteria-Oil Microaggregates Are an Important Mechanism for Hydrocarbon Degradation in the Marine Water Column. MSystems, 2021, 6, e0110521.	1.7	5
177	Lessons from Marine-Based Oil Spill and Gas Leak Accidents. , 2017, , 9-15.		0
178	Global Aerobic Degradation of Hydrocarbons in Aquatic Systems. , 2017, , 1-18.		0
179	DISPERSANT PERFORMANCE: FINDING NEW RESULTS IN EXISTING DATA. International Oil Spill Conference Proceedings, 2017, 2017, 704-724.	0.1	0
180	Microbial Communities Responding to Deep-Sea Hydrocarbon Spills. , 2019, , 1-17.		0
181	Petroleum Spill Control With Biological Means. , 2019, , 197-210.		0
182	Introduction to the Volume. , 2020, , 4-15.		1
183	Oil Encapsulation Advantages of Amphiphilic Polymer-Grafted Silica Nanoparticle Systems. ACS Applied Polymer Materials, 0, , .	2.0	2
185	Lessons from the 2010 Deepwater Horizon Accident in the Gulf of Mexico. , 2020, , 847-864.		3

#	ARTICLE	IF	CITATIONS
189	Marine hydrocarbon-degrading bacteria: their role and application in oil-spill response and enhanced oil recovery. , 2022, , 591-600.		3
190	A Comparison between Chemical and Natural Dispersion of a North Sea Oil-spill. International Oil Spill Conference Proceedings, 2021, 2021, .	0.1	0
191	Contradictory Conclusions Surrounding the Effects of Chemical Dispersants on Oil Biodegradation. International Oil Spill Conference Proceedings, 2021, 2021, .	0.1	3
192	Crude oil and particulate fluxes including marine oil snow sedimentation and flocculant accumulation: Deepwater Horizon oil spill study. International Oil Spill Conference Proceedings, 2021, 2021, .	0.1	1
193	Surface properties and heavy metals chelation of lipopeptides biosurfactants produced from date flour by <i>Bacillus subtilis</i> ZN15: optimized production for application in bioremediation. Bioprocess and Biosystems Engineering, 2022, 45, 31-44.	1.7	14
194	Machine learning-aided causal inference for unraveling chemical dispersant and salinity effects on crude oil biodegradation. Bioresource Technology, 2022, 345, 126468.	4.8	22
195	Recent advances in nanoremediation: Carving sustainable solution to clean-up polluted agriculture soils. Environmental Pollution, 2022, 297, 118728.	3.7	31
196	Future oil spill response plans require integrated analysis of factors that influence the fate of oil in the ocean. Current Opinion in Chemical Engineering, 2022, 36, 100769.	3.8	7
197	Characterization of Lipopeptides Biosurfactants Produced by a Newly Isolated Strain <i>Bacillus subtilis</i> ZN15: Potential Environmental Application. Journal of Polymers and the Environment, 2022, 30, 2378-2391.	2.4	14
198	Metagenomic and Metatranscriptomic Responses of Chemical Dispersant Application during a Marine Dilbit Spill. Applied and Environmental Microbiology, 2022, 88, aem0215121.	1.4	9
200	Dispersed Crude Oil Induces Dysbiosis in the Red Snapper <i>Lutjanus campechanus</i> External Microbiota. Microbiology Spectrum, 2022, 10, e0058721.	1.2	6
201	Biosurfactants and chemotaxis interplay in microbial consortium-based hydrocarbons degradation. Environmental Science and Pollution Research, 2022, 29, 24391.	2.7	6
202	Reconstructing polyaromatic hydrocarbons degrading pathways in the enriched bacterial consortium and their biosurfactants characterization. Journal of Environmental Chemical Engineering, 2022, 10, 107219.	3.3	12
203	Insight into Remediation of Crude Oil Contaminated Soil in Rivers State Nigeria: Obstacles and Options (2012-2022). SSRN Electronic Journal, 0, , .	0.4	0
204	Bioremediation: an ecofriendly approach for the treatment of oil spills. , 2022, , 353-373.		4
205	Mesopelagic microbial community dynamics in response to increasing oil and Corexit 9500 concentrations. PLoS ONE, 2022, 17, e0263420.	1.1	3
206	Microbiomes of Hadal Fishes across Trench Habitats Contain Similar Taxa and Known Piezophiles. MSphere, 2022, 7, e0003222.	1.3	2
207	Natural attenuation of oil in marine environments: A review. Marine Pollution Bulletin, 2022, 176, 113464.	2.3	11

#	ARTICLE	IF	CITATIONS
208	Prospects in the bioremediation of petroleum hydrocarbon contaminants from hypersaline environments: A review. <i>Environmental Science and Pollution Research</i> , 2022, 29, 35615-35642.	2.7	12
209	Advances in Chemical Analysis of Oil Spills Since the <i>Deepwater Horizon</i> Disaster. <i>Critical Reviews in Analytical Chemistry</i> , 2023, 53, 1638-1697.	1.8	13
210	Dispersal of antibiotic resistance genes in an agricultural influenced multi-branch river network. <i>Science of the Total Environment</i> , 2022, 830, 154739.	3.9	9
211	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.	6.5	2
212	Integrative description of changes occurring on zebrafish embryos exposed to water-soluble crude oil components and its mixture with a chemical surfactant. <i>Toxicology and Applied Pharmacology</i> , 2022, , 116033.	1.3	3
213	Biosurfactant, a green and effective solution for bioremediation of petroleum hydrocarbons in the aquatic environment. <i>Discover Water</i> , 2022, 2, 1.	1.1	18
214	Effect of dispersants on bacterial colonization of oil droplets: A microfluidic approach. <i>Marine Pollution Bulletin</i> , 2022, 178, 113645.	2.3	6
242	Hydrolysis of Methylumbelliferyl Substrate Proxies for Esterase Activities as Indicator for Microbial Oil Degradation in the Ocean: Evidence from Observations in the Aftermath of the Deepwater Horizon Oil Spill (Gulf of Mexico). <i>Journal of Marine Science and Engineering</i> , 2022, 10, 583.	1.2	1
243	Interfacial biodegradation of phenanthrene in bacteria-carboxymethyl cellulose-stabilized Pickering emulsions. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 3829-3836.	1.7	4
244	Legacy and dispersant influence microbial community dynamics in cold seawater contaminated by crude oil water accommodated fractions. <i>Environmental Research</i> , 2022, 212, 113467.	3.7	4
245	Natural Asphalt Seeps Are Potential Sources for Recalcitrant Oceanic Dissolved Organic Sulfur and Dissolved Black Carbon. <i>Environmental Science &amp; Technology</i> , 2022, 56, 9092-9102.	4.6	13
246	Emulating Deep-Sea Bioremediation: Oil Plume Degradation by Undisturbed Deep-Sea Microbial Communities Using a High-Pressure Sampling and Experimentation System. <i>Energies</i> , 2022, 15, 4525.	1.6	1
247	Shrimp-waste based dispersant as oil spill treating agent: Biodegradation of dispersant and dispersed oil. <i>Journal of Hazardous Materials</i> , 2022, 439, 129617.	6.5	13
248	A first order-based model for the kinetics of formation of Pickering emulsions. <i>Journal of Colloid and Interface Science</i> , 2022, 628, 409-416.	5.0	4
249	The influences of oil in water preparation on the toxicity of crude oil to marine invertebrates and fish following short-term pulse and continuous exposures. <i>Environmental Toxicology and Chemistry</i> , 0, , .	2.2	1
250	Water Accommodated Fraction of Macondo Oil Has Limited Effects on Nitrate Reduction in Northern Gulf of Mexico Salt Marsh Sediments Regardless of Prior Oiling History. <i>Water, Air, and Soil Pollution</i> , 2022, 233, .	1.1	0
251	Fates of petroleum during the deepwater horizon oil spill: A chemistry perspective. <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	5
252	Reconfigurable modular microbiota systems for efficient and sustainable water treatment. <i>Chemical Engineering Journal</i> , 2023, 452, 139163.	6.6	3

#	ARTICLE	IF	CITATIONS
253	Informing marine shipping insurance premiums in the Arctic using marine microbial genomics. , 2023, , 125-138.		0
254	Tubulation and dispersion of oil by bacterial growth on droplets. <i>Soft Matter</i> , 2022, 18, 7217-7228.	1.2	6
255	Metatranscriptomic shifts suggest shared biodegradation pathways for Corexit 9500 components and crude oil in Arctic seawater. <i>Environmental Microbiology Reports</i> , 2023, 15, 51-59.	1.0	1
256	A half century of oil spill dispersant development, deployment and lingering controversy. <i>International Biodeterioration and Biodegradation</i> , 2023, 176, 105510.	1.9	5
257	Biodegradation potential of residue generated during the in-situ burning of oil in the marine environment. <i>Journal of Hazardous Materials</i> , 2023, 445, 130439.	6.5	4
258	THE EFFECTS OF OIL SPILL DISPERSANT USE ON MARINE BIRDS: A REVIEW OF SCIENTIFIC LITERATURE AND IDENTIFICATION OF INFORMATION GAPS. <i>Environmental Reviews</i> , 0, , .	2.1	0
259	Enhanced Petroleum Removal by Potent Biosurfactant Producer <i>Bacillus Subtilis</i> CC9 Strain Isolated from an Oil Field. <i>Hacettepe Journal of Biology and Chemistry</i> , 0, , .	0.3	0
260	Impacts of dispersants on microbial communities and ecological systems. <i>Applied Microbiology and Biotechnology</i> , 2023, 107, 1095-1106.	1.7	2
261	Novel approaches in the use of biosurfactants in the oil industry and environmental remediation. , 2023, , 107-128.		0
262	Identification of Different Lipopeptides Isoforms Produced by <i>Bacillus mojavensis</i> BI2 and Evaluation of Their Surface Activities for Potential Environmental Application. <i>Journal of Polymers and the Environment</i> , 0, , .	2.4	0
263	Succession Patterns of Microbial Composition and Activity following the Diesel Spill in an Urban River. <i>Microorganisms</i> , 2023, 11, 698.	1.6	0