

Kenneth Lee

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

2,239
citations

236925

25
h-index

254184

43
g-index

80
all docs

80
docs citations

80
times ranked

1369
citing authors

#	ARTICLE	IF	CITATIONS
1	Disposable masks release microplastics to the aqueous environment with exacerbation by natural weathering. <i>Journal of Hazardous Materials</i> , 2021, 417, 126036.	12.4	225
2	EFFECT OF DISPERSANT ON THE COMPOSITION OF THE WATER-ACCOMMODATED FRACTION OF CRUDE OIL AND ITS TOXICITY TO LARVAL MARINE FISH. <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 1496.	4.3	116
3	VDROP: A comprehensive model for droplet formation of oils and gases in liquids - Incorporation of the interfacial tension and droplet viscosity. <i>Chemical Engineering Journal</i> , 2014, 253, 93-106.	12.7	114
4	Chemical dispersants enhance the activity of oil- and gas condensate-degrading marine bacteria. <i>ISME Journal</i> , 2017, 11, 2793-2808.	9.8	114
5	Lab tests on the biodegradation of chemically dispersed oil should consider the rapid dilution that occurs at sea. <i>Marine Pollution Bulletin</i> , 2013, 73, 314-318.	5.0	113
6	The Influence of Salinity on Oil- <i>Mineral Aggregate Formation</i> . <i>Spill Science and Technology Bulletin</i> , 2002, 8, 65-71.	0.4	71
7	Hydrocarbon biodegradation by Arctic sea-ice and sub-ice microbial communities during microcosm experiments, Northwest Passage (Nunavut, Canada). <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw130.	2.7	68
8	Microbial Community Composition, Functions, and Activities in the Gulf of Mexico 1 Year after the Deepwater Horizon Accident. <i>Applied and Environmental Microbiology</i> , 2015, 81, 5855-5866.	3.1	64
9	Flume tank studies to elucidate the fate and behavior of diluted bitumen spilled at sea. <i>Marine Pollution Bulletin</i> , 2014, 83, 32-37.	5.0	57
10	Bioremediation and Biorestitution of a Crude Oil-Contaminated Freshwater Wetland on the St. Lawrence River. <i>Bioremediation Journal</i> , 2002, 6, 261-281.	2.0	54
11	Recent advances in developing cellulosic sorbent materials for oil spill cleanup: A state-of-the-art review. <i>Journal of Cleaner Production</i> , 2021, 311, 127630.	9.3	54
12	Evaluating Chemical Dispersant Efficacy in an Experimental Wave Tank: Significant Factors Determining <i>In Situ</i> Oil Droplet Size Distribution. <i>Environmental Engineering Science</i> , 2009, 26, 1407-1418.	1.6	51
13	Impact of mixing time and energy on the dispersion effectiveness and droplets size of oil. <i>Chemosphere</i> , 2017, 166, 246-254.	8.2	51
14	Factors influencing the fate of oil spilled on shorelines: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 1611-1628.	16.2	48
15	Droplet and bubble formation of combined oil and gas releases in subsea blowouts. <i>Marine Pollution Bulletin</i> , 2017, 120, 203-216.	5.0	42
16	Interactions between microplastics and oil dispersion in the marine environment. <i>Journal of Hazardous Materials</i> , 2021, 403, 123944.	12.4	42
17	A New Mechanism of Sediment Attachment to Oil in Turbulent Flows: Projectile Particles. <i>Environmental Science & Technology</i> , 2017, 51, 11020-11028.	10.0	35
18	A cross-comparison of biosurfactants as marine oil spill dispersants: Governing factors, synergetic effects and fates. <i>Journal of Hazardous Materials</i> , 2021, 416, 126122.	12.4	34

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19	Use of surface-washing agents for the treatment of oiled shorelines: Research advancements, technical applications and future challenges. <i>Chemical Engineering Journal</i> , 2020, 391, 123565.	12.7	33
20	Exploring the use of cellulose nanocrystal as surface-washing agent for oiled shoreline cleanup. <i>Journal of Hazardous Materials</i> , 2021, 402, 123464.	12.4	33
21	Investigation into the oil removal from sand using a surface washing agent under different environmental conditions. <i>Journal of Environmental Management</i> , 2020, 275, 111232.	7.8	30
22	Modelling the Transport of Oil-Associated Mineral-Aggregates (OMAs) in the Marine Environment and Assessment of Their Potential Risks. <i>Environmental Modeling and Assessment</i> , 2011, 16, 61-75.	2.2	29
23	Was the Deepwater Horizon Well Discharge Churn Flow? Implications on the Estimation of the Oil Discharge and Droplet Size Distribution. <i>Geophysical Research Letters</i> , 2018, 45, 2396-2403.	4.0	29
24	Metagenomic and metatranscriptomic responses of natural oil degrading bacteria in the presence of dispersants. <i>Environmental Microbiology</i> , 2019, 21, 2307-2319.	3.8	29
25	A Review on the Factors Affecting the Deposition, Retention, and Biodegradation of Oil Stranded on Beaches and Guidelines for Designing Laboratory Experiments. <i>Current Pollution Reports</i> , 2019, 5, 407-423.	6.6	29
26	Dispersants as marine oil spill treating agents: a review on mesoscale tests and field trials. <i>Environmental Systems Research</i> , 2021, 10, .	3.7	28
27	Numerical Study of Solute Transport in Heterogeneous Beach Aquifers Subjected to Tides. <i>Water Resources Research</i> , 2020, 56, e2019WR026430.	4.2	27
28	Recent advances in chemical and biological degradation of spilled oil: A review of dispersants application in the marine environment. <i>Journal of Hazardous Materials</i> , 2022, 436, 129260.	12.4	26
29	Investigation into the impact of aged microplastics on oil behavior in shoreline environments. <i>Journal of Hazardous Materials</i> , 2022, 421, 126711.	12.4	25
30	Transport of Oil Droplets in the Upper Ocean: Impact of the Eddy Diffusivity. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015727.	2.6	24
31	Formation of oil-particle aggregates: Particle penetration and impact of particle properties and particle-to-oil concentration ratios. <i>Science of the Total Environment</i> , 2021, 760, 144047.	8.0	23
32	Physicochemical change and microparticle release from disposable gloves in the aqueous environment impacted by accelerated weathering. <i>Science of the Total Environment</i> , 2022, 832, 154986.	8.0	23
33	Occurrence and biodegradation of hydrocarbons at high salinities. <i>Science of the Total Environment</i> , 2021, 762, 143165.	8.0	22
34	Machine learning-aided causal inference for unraveling chemical dispersant and salinity effects on crude oil biodegradation. <i>Bioresource Technology</i> , 2022, 345, 126468.	9.6	22
35	Oil jet with dispersant: Macro-scale hydrodynamics and tip streaming. <i>AIChE Journal</i> , 2017, 63, 5222-5234.	3.6	21
36	Microplastic-oil-dispersant agglomerates in the marine environment: Formation mechanism and impact on oil dispersion. <i>Journal of Hazardous Materials</i> , 2022, 426, 127825.	12.4	21

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37	Fate of diluted bitumen spilled in the coastal waters of British Columbia, Canada. <i>Marine Pollution Bulletin</i> , 2020, 150, 110691.	5.0	20
38	Formation of oil-particle aggregates: Impacts of mixing energy and duration. <i>Science of the Total Environment</i> , 2021, 795, 148781.	8.0	20
39	A COMPREHENSIVE NUMERICAL APPROACH TO PREDICT OIL-MINERAL AGGREGATE (OMA) FORMATION FOLLOWING OIL SPILLS IN AQUATIC ENVIRONMENTS. <i>International Oil Spill Conference Proceedings</i> , 2005, 2005, 873-877.	0.1	20
40	A framework for the evaluation and selection of shoreline surface washing agents in oil spill response. <i>Journal of Environmental Management</i> , 2021, 287, 112346.	7.8	19
41	Access-dispersion-recovery strategy for enhanced mitigation of heavy crude oil pollution using magnetic nanoparticles decorated bacteria. <i>Bioresource Technology</i> , 2021, 337, 125404.	9.6	18
42	Microplastic and oil pollution in oceans: Interactions and environmental impacts. <i>Science of the Total Environment</i> , 2022, 838, 156142.	8.0	17
43	Crude oil biodegradation in upper and supratidal seashores. <i>Journal of Hazardous Materials</i> , 2021, 416, 125919.	12.4	16
44	Brominated Flame Retardants, Microplastics, and Biocides in the Marine Environment: Recent Updates of Occurrence, Analysis, and Impacts. <i>Advances in Marine Biology</i> , 2018, 81, 167-211.	1.4	15
45	Oil Droplet Dispersion under a Deep-Water Plunging Breaker: Experimental Measurement and Numerical Modeling. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 230.	2.6	15
46	Modeling oil dispersion under breaking waves. Part I: Wave hydrodynamics. <i>Environmental Fluid Mechanics</i> , 2020, 20, 1527-1551.	1.6	14
47	Hypersaline Pore Water in Gulf of Mexico Beaches Prevented Efficient Biodegradation of Deepwater Horizon Beached Oil. <i>Environmental Science & Technology</i> , 2021, 55, 13792-13801.	10.0	14
48	Microbial Population Analysis as a Measure of Ecosystem Restoration. <i>Bioremediation Journal</i> , 2002, 6, 283-296.	2.0	12
49	Estimating the Usefulness of Chemical Dispersant to Treat Surface Spills of Oil Sands Products. <i>Journal of Marine Science and Engineering</i> , 2018, 6, 128.	2.6	12
50	Exploring the use of alginate hydrogel coating as a new initiative for emergent shoreline oiling prevention. <i>Science of the Total Environment</i> , 2021, 797, 149234.	8.0	12
51	Microbubble and nanobubble-based gas flotation for oily wastewater treatment: a review. <i>Environmental Reviews</i> , 2022, 30, 359-379.	4.5	12
52	A Method for Assessing Environmental Risks of Oil-Mineral-Aggregate to Benthic Organisms. <i>Human and Ecological Risk Assessment (HERA)</i> , 2010, 16, 762-782.	3.4	11
53	A green initiative for oiled sand cleanup using chitosan/rhamnolipid complex dispersion with pH-stimulus response. <i>Chemosphere</i> , 2022, 288, 132628.	8.2	11
54	Modeling oil biodegradation and bioremediation within beaches. <i>Current Opinion in Chemical Engineering</i> , 2022, 35, 100751.	7.8	11

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55	A pH-responsive phosphoprotein surface washing fluid for cleaning oiled shoreline: Performance evaluation, biotoxicity analysis, and molecular dynamic simulation. <i>Chemical Engineering Journal</i> , 2022, 437, 135336.	12.7	11
56	Characterization of Pore Water Flow in 3D Heterogeneous Permeability Fields. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086879.	4.0	10
57	Treatment of oiled beach sand using a green and responsive washing fluid with nonionic surfactant-modified nanoclay. <i>Journal of Cleaner Production</i> , 2022, 333, 130122.	9.3	10
58	Buoyant oleophilic magnetic activated carbon nanoparticles for oil spill cleanup. , 2022, 2, 100028.		10
59	Cleanup of oiled shorelines using a dual responsive nanoclay/sodium alginate surface washing agent. <i>Environmental Research</i> , 2022, 205, 112531.	7.5	9
60	Exploring the characteristics, performance, and mechanisms of a magnetic-mediated washing fluid for the cleanup of oiled beach sand. <i>Journal of Hazardous Materials</i> , 2022, 438, 129447.	12.4	9
61	Space-time variations of sea ice in Bohai Sea in the winter of 2009-2010 simulated with a coupled ocean and ice model. <i>Journal of Oceanography</i> , 2021, 77, 243-258.	1.7	8
62	Impact of Microplastics on Oil Dispersion Efficiency in the Marine Environment. <i>Sustainability</i> , 2021, 13, 13752.	3.2	8
63	Bioremediation of Petroleum Hydrocarbons in the Upper Parts of Sandy Beaches. <i>Environmental Science & Technology</i> , 2022, 56, 8124-8131.	10.0	8
64	Modeling the dispersion of drilling muds using the bblt model: the effects of settling velocity. <i>Environmental Modeling and Assessment</i> , 2009, 14, 585-594.	2.2	7
65	Formation and Vertical Mixing of Oil Droplets Resulting from Oil Slick Under Breaking Waves—A Modeling Study. <i>Environmental Forensics</i> , 2009, 10, 347-353.	2.6	7
66	Role of the hydrophobicity of mineral fines in the formation of oil-mineral aggregates. <i>Canadian Journal of Chemical Engineering</i> , 2013, 91, 698-703.	1.7	6
67	Hydrodynamics and Mixing Characteristics in Different-Size Aspirator Bottles for Water-Accommodated Fraction Tests. <i>Journal of Environmental Engineering, ASCE</i> , 2020, 146, .	1.4	6
68	Experimental Investigation of Oil Droplet Size Distribution in Underwater Oil and Oil-Air Jet. <i>Marine Technology Society Journal</i> , 2021, 55, 196-209.	0.4	6
69	PREDICTION OF OIL DROPLET MOVEMENT AND SIZE DISTRIBUTION: LAGRANGIAN METHOD AND VDROPI-J MODEL. <i>International Oil Spill Conference Proceedings</i> , 2017, 2017, 1194-1211.	0.1	5
70	Development of sludge-based activated char sorbent with enhanced hydrophobicity for oil spill cleanup. <i>Environmental Technology (United Kingdom)</i> , 2023, 44, 1772-1781.	2.2	5
71	Oil Transport Following the Deepwater Horizon Blowout. <i>Annual Review of Marine Science</i> , 2023, 15, .	11.6	5
72	Impacts of Iron, Nutrients, and Mineral Fines on Anaerobic Biodegradation of Canola Oil in Freshwater Sediments. <i>Soil and Sediment Contamination</i> , 2010, 19, 244-259.	1.9	3

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73	Exploring the effects of microalgal biomass on the oil behavior in a sand-water system. Environmental Science and Pollution Research, 2021, 28, 32985-32994.	5.3	3
74	Impact of mixing and resting times on the droplet size distribution and the petroleum hydrocarbonsâ€™ concentration in diluted bitumen-based water-accommodated fractions (WAFs). Chemosphere, 2022, , 133807.	8.2	3
75	Evaluation of Numerical Modeling Methods for the Management of Produced Water Discharges in the Coastal Region with a Canadian Case Study. Environmental Modeling and Assessment, 2014, 19, 57-70.	2.2	1
76	Habitat Recovery in an Oil-Contaminated Salt Marsh Following Bioremediation Treatments. International Oil Spill Conference Proceedings, 2003, 2003, 977-982.	0.1	1
77	Effects of tip streaming on the prediction of droplet size distribution in the presence of dispersants during subsea blowouts. International Oil Spill Conference Proceedings, 2017, 2017, 1212-1229.	0.1	1
78	Experimental and numerical investigation of the formation of Oil Particle Aggregates (OPA). International Oil Spill Conference Proceedings, 2017, 2017, 1911-1930.	0.1	1
79	Interaction of gas bubbles and oil droplets in subsea oil and gas blowouts â€” a new development of VDROP-J model.. International Oil Spill Conference Proceedings, 2017, 2017, 2017-194.	0.1	0
80	Experimental and modeling studies of the effects of nanoclay on the oil behaviors in a waterâ€™sand system. Environmental Science and Pollution Research, 2022, , 1.	5.3	0