

# Thomas L King

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,328  
citations

361413

20  
h-index

345221

36  
g-index

50  
all docs

50  
docs citations

50  
times ranked

702  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of droplets in subsea oil and gas blowouts: Development and validation of the numerical model VDROPI. Marine Pollution Bulletin, 2014, 83, 58-69.	5.0	124
2	VDROP: A comprehensive model for droplet formation of oils and gases in liquids - Incorporation of the interfacial tension and droplet viscosity. Chemical Engineering Journal, 2014, 253, 93-106.	12.7	114
3	Simulation of scenarios of oil droplet formation from the Deepwater Horizon blowout. Marine Pollution Bulletin, 2015, 101, 304-319.	5.0	75
4	A-DROP: A predictive model for the formation of oil particle aggregates (OPAs). Marine Pollution Bulletin, 2016, 106, 245-259.	5.0	69
5	Hydrocarbon biodegradation by Arctic sea-ice and sub-ice microbial communities during microcosm experiments, Northwest Passage (Nunavut, Canada). FEMS Microbiology Ecology, 2016, 92, fiv130.	2.7	68
6	Effects of chemical dispersants and mineral fines on crude oil dispersion in a wave tank under breaking waves. Marine Pollution Bulletin, 2007, 54, 983-993.	5.0	61
7	Assessment of chemical dispersant effectiveness in a wave tank under regular non-breaking and breaking wave conditions. Marine Pollution Bulletin, 2008, 56, 903-912.	5.0	59
8	Flume tank studies to elucidate the fate and behavior of diluted bitumen spilled at sea. Marine Pollution Bulletin, 2014, 83, 32-37.	5.0	57
9	Evaluating Chemical Dispersant Efficacy in an Experimental Wave Tank: 2â€”Significant Factors Determining <i>In Situ</i> Oil Droplet Size Distribution. Environmental Engineering Science, 2009, 26, 1407-1418.	1.6	51
10	Impact of mixing time and energy on the dispersion effectiveness and droplets size of oil. Chemosphere, 2017, 166, 246-254.	8.2	51
11	Underwater oil jet: Hydrodynamics and droplet size distribution. Chemical Engineering Journal, 2016, 299, 292-303.	12.7	46
12	Droplet and bubble formation of combined oil and gas releases in subsea blowouts. Marine Pollution Bulletin, 2017, 120, 203-216.	5.0	42
13	Effects of temperature and wave conditions on chemical dispersion efficacy of heavy fuel oil in an experimental flow-through wave tank. Marine Pollution Bulletin, 2010, 60, 1550-1559.	5.0	36
14	Oil droplets transport due to irregular waves: Development of large-scale spreading coefficients. Marine Pollution Bulletin, 2016, 104, 279-289.	5.0	35
15	A New Mechanism of Sediment Attachment to Oil in Turbulent Flows: Projectile Particles. Environmental Science & Technology, 2017, 51, 11020-11028.	10.0	35
16	Evolution of bubble size distribution from gas blowout in shallow water. Journal of Geophysical Research: Oceans, 2016, 121, 1573-1599.	2.6	33
17	Was the Deepwater Horizon Well Discharge Churn Flow? Implications on the Estimation of the Oil Discharge and Droplet Size Distribution. Geophysical Research Letters, 2018, 45, 2396-2403.	4.0	29
18	Fate of Surface Spills of Cold Lake Blend Diluted Bitumen Treated with Dispersant and Mineral Fines in a Wave Tank. Environmental Engineering Science, 2015, 32, 250-261.	1.6	24

#	ARTICLE	IF	CITATIONS
19	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
20	Settling of dilbit-derived oil-mineral aggregates (OMAs) & transport parameters for oil spill modelling. <i>Marine Pollution Bulletin</i> , 2017, 124, 292-302.	5.0	22
21	Measuring the fate of different diluted bitumen products in coastal surface waters. <i>Marine Pollution Bulletin</i> , 2020, 153, 111003.	5.0	22
22	Oil jet with dispersant: Macro-scale hydrodynamics and tip streaming. <i>AIChE Journal</i> , 2017, 63, 5222-5234.	3.6	21
23	Oil Droplets Transport Under a Deep-Water Plunging Breaker: Impact of Droplet Inertia. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 9082-9100.	2.6	19
24	Biodegradation Potential of <i>Bacillus</i> sp. PAH-2 on PAHs for Oil-Contaminated Seawater. <i>Molecules</i> , 2022, 27, 687.	3.8	16
25	An oil spill decision matrix in response to surface spills of various bitumen blends. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 928-938.	3.5	15
26	Inorganic nutrients have a significant, but minimal, impact on a coastal microbial community's response to fresh diluted bitumen. <i>Marine Pollution Bulletin</i> , 2019, 139, 381-389.	5.0	15
27	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
28	Hydrodynamics and dilution of an oil jet in crossflow: The role of small-scale motions from laboratory experiment and large eddy simulations. <i>International Journal of Heat and Fluid Flow</i> , 2020, 85, 108634.	2.4	13
29	Impact of particle concentration and out-of-range sizes on the measurements of the LISST. <i>Measurement Science and Technology</i> , 2018, 29, 055302.	2.6	12
30	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
31	Modeling oil dispersion under breaking waves. Part II: Coupling Lagrangian particle tracking with population balance model. <i>Environmental Fluid Mechanics</i> , 2020, 20, 1553-1578.	1.6	12
32	Reynolds number scaling to predict droplet size distribution in dispersed and undispersed subsurface oil releases. <i>Marine Pollution Bulletin</i> , 2016, 113, 332-342.	5.0	11
33	Oil Droplet Transport under Non-Breaking Waves: An Eulerian RANS Approach Combined with a Lagrangian Particle Dispersion Model. <i>Journal of Marine Science and Engineering</i> , 2018, 6, 7.	2.6	11
34	A Modeling Study on the Oil Spill of M/V Marathassa in Vancouver Harbour. <i>Journal of Marine Science and Engineering</i> , 2018, 6, 106.	2.6	10
35	Assessing weathered Endicott oil biodegradation in brackish water. <i>Marine Pollution Bulletin</i> , 2014, 86, 102-110.	5.0	9
36	Transport of oil droplets from a jet in crossflow: Dispersion coefficients and Vortex trapping. <i>Ocean Modelling</i> , 2021, 158, 101736.	2.4	9

#	ARTICLE	IF	CITATIONS
37	Canadian bitumen is engineered for transport, but the type of product produced can affect spill contingency planning. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 863-872.	3.5	7
38	<i>In situ</i> microcosms deployed at the coast of British Columbia (Canada) to study dilbit weathering and associated microbial communities under marine conditions. <i>FEMS Microbiology Ecology</i> , 2021, 97, .	2.7	7
39	Interfacial film formation: Influence on oil spreading rates in lab basin tests and dispersant effectiveness testing in a wave tank. <i>Marine Pollution Bulletin</i> , 2013, 71, 83-91.	5.0	6
40	Influence of Climatic Parameters on Changes in the Density and Viscosity of Diluted Bitumen after a Spill. <i>Journal of Environmental Science and Pollution Research</i> , 2019, 5, 373-382.	0.1	6
41	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
42	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
43	Trends in the Distribution of PCBs Compared to PACs in Sediments and Mussels of Halifax Harbour. <i>Water Quality Research Journal of Canada</i> , 2002, 37, 413-428.	2.7	4
44	A numerical model to simulate the droplet formation process resulting from the release of diluted bitumen products in marine environment. <i>International Oil Spill Conference Proceedings</i> , 2014, 2014, 449-462.	0.1	4
45	Impact of mixing and resting times on the droplet size distribution and the petroleum hydrocarbons concentration in diluted bitumen-based water-accommodated fractions (WAFs). <i>Chemosphere</i> , 2022, , 133807.	8.2	3
46	DBWM: A diluted bitumen weathering model. <i>Marine Pollution Bulletin</i> , 2022, 175, 113372.	5.0	2
47	Effects of tip streaming on the prediction of droplet size distribution in the presence of dispersants during subsea blowouts. <i>International Oil Spill Conference Proceedings</i> , 2017, 2017, 1212-1229.	0.1	1
48	Experimental and numerical investigation of the formation of Oil Particle Aggregates (OPA). <i>International Oil Spill Conference Proceedings</i> , 2017, 2017, 1911-1930.	0.1	1
49	Bitumen on Water: Charred Hay as a PFD (Petroleum Flotation Device). <i>Journal of Marine Science and Engineering</i> , 2015, 3, 1244-1259.	2.6	0
50	Interaction of gas bubbles and oil droplets in subsea oil and gas blowouts – a new development of VDROPI-J model.. <i>International Oil Spill Conference Proceedings</i> , 2017, 2017, 2017-194.	0.1	0