Michel C Boufadel

List of Publications by Year
in descending order

190	4,968	87401 40	156644 58
papers	citations	h-index	g-index

192	192	192	2669
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Oil Transport Following the Deepwater Horizon Blowout. Annual Review of Marine Science, 2023, 15, .	5.1	5
2	Dispersion modeling of particulate matter from the in-situ burning of spilled oil in the northwest Arctic area of Canada. Journal of Environmental Management, 2022, 301, 113913.	3.8	14
3	Modeling oil biodegradation and bioremediation within beaches. Current Opinion in Chemical Engineering, 2022, 35, 100751.	3.8	11
4	GIS-based approach for evaluating a community intrinsic resilience index. Natural Hazards, 2022, 111, 1271-1299.	1.6	6
5	Impact of a jet orifice on the hydrodynamics and the oil droplet size distribution. International Journal of Multiphase Flow, 2022, 147, 103921.	1.6	5
6	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.	4.2	3
7	Computational and experimental study of an oil jet in crossflow: coupling population balance model with multifluid large eddy simulation. Journal of Fluid Mechanics, 2022, 932, .	1.4	4
8	Oil droplet formation and vertical transport in the upper ocean. Marine Pollution Bulletin, 2022, 176, 113451.	2.3	6
9	Numerical simulation of benzene transport in shoreline groundwater affected by tides under different conditions. Frontiers of Environmental Science and Engineering, 2022, 16, 1.	3.3	5
10	Fractal scaling behavior of a sea ice draft field in the Chukchi Sea. Chaos, Solitons and Fractals, 2022, 158, 112031.	2.5	1
11	Bioremediation of Petroleum Hydrocarbons in the Upper Parts of Sandy Beaches. Environmental Science & Technology, 2022, 56, 8124-8131.	4.6	8
12	Oil biodegradation in permeable marine sediments: Effects of benthic pore-water advection and solute exchange. Journal of Hazardous Materials, 2022, 436, 129211.	6.5	5
13	Recent advances in chemical and biological degradation of spilled oil: A review of dispersants application in the marine environment. Journal of Hazardous Materials, 2022, 436, 129260.	6.5	26
14	Editorial overview: Hydrocarbon spills in coastal systems. Current Opinion in Chemical Engineering, 2022, 37, 100848.	3.8	0
15	Population agglomeration is a harbinger of the spatial complexity of COVID-19. Chemical Engineering Journal, 2021, 420, 127702.	6.6	11
16	Factors influencing the fate of oil spilled on shorelines: a review. Environmental Chemistry Letters, 2021, 19, 1611-1628.	8.3	48
17	Occurrence and biodegradation of hydrocarbons at high salinities. Science of the Total Environment, 2021, 762, 143165.	3.9	22
18	An effort to understand and improve the anaerobic biodegradation of petroleum hydrocarbons: A literature review. International Biodeterioration and Biodegradation, 2021, 157, 105156.	1.9	51

#	Article	IF	Citations
19	Formation of oil-particle aggregates: Particle penetration and impact of particle properties and particle-to-oil concentration ratios. Science of the Total Environment, 2021, 760, 144047.	3.9	23
20	Nonaqueous Phase Liquid Removal by Postconventional Techniques. Journal of Environmental Engineering, ASCE, 2021, 147, .	0.7	6
21	Transport of oil droplets from a jet in crossflow: Dispersion coefficients and Vortex trapping. Ocean Modelling, 2021, 158, 101736.	1.0	9
22	Physical Transport Processes that Affect the Distribution of Oil in the Gulf of Mexico: Observations and Modeling. Oceanography, 2021, 34, 58-75.	0.5	8
23	Dispersion of Oil Droplets in Rivers. Journal of Hydraulic Engineering, 2021, 147, .	0.7	3
24	Transport and Fate of Virus-Laden Particles in a Supermarket: Recommendations for Risk Reduction of COVID-19 Spreading. Journal of Environmental Engineering, ASCE, 2021, 147, .	0.7	12
25	Studies in Electrokinetic Migration Rates of Dyes in Sand and Clay. Journal of Hazardous, Toxic, and Radioactive Waste, 2021, 25, 04020071.	1.2	0
26	A kernel-modulated SIR model for Covid-19 contagious spread from county to continent. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	13
27	Transport and Formation of OPAs in Rivers. Journal of Environmental Engineering, ASCE, 2021, 147, .	0.7	4
28	ANISOTROPIC MULTIFRACTAL SCALING OF MOUNT LEBANON TOPOGRAPHY: APPROXIMATE CONDITIONING. Fractals, 2021, 29, 2150112.	1.8	3
29	A framework for the evaluation and selection of shoreline surface washing agents in oil spill response. Journal of Environmental Management, 2021, 287, 112346.	3.8	19
30	Large eddy simulation and experiment of shear breakup in liquid-liquid jet: Formation of ligaments and droplets. International Journal of Heat and Fluid Flow, 2021, 89, 108810.	1.1	9
31	Decision support tools for oil spill response (OSR-DSTs): Approaches, challenges, and future research perspectives. Marine Pollution Bulletin, 2021, 167, 112313.	2.3	24
32	Dispersants as marine oil spill treating agents: a review on mesoscale tests and field trials. Environmental Systems Research, 2021, 10, .	1.5	28
33	Crude oil biodegradation in upper and supratidal seashores. Journal of Hazardous Materials, 2021, 416, 125919.	6.5	16
34	Removal of hydrocarbons from heterogenous soil using electrokinetics and surfactants. Environmental Challenges, 2021, 4, 100071.	2.0	2
35	Development of a dispersibility assessment kit for use on oil spill response vessels. Marine Pollution Bulletin, 2021, 170, 112665.	2.3	2
36	Geochemical fluxes in sandy beach aquifers: Modulation due to major physical stressors, geologic heterogeneity, and nearshore morphology. Earth-Science Reviews, 2021, 221, 103800.	4.0	13

#	Article	IF	Citations
37	Multiphase CFD simulation of the nearshore spilled oil behaviors. Environmental Pollution, 2021, 288, 117730.	3.7	14
38	Formation of oil-particle aggregates: Impacts of mixing energy and duration. Science of the Total Environment, 2021, 795, 148781.	3.9	20
39	Behavior of surfactants and surfactant blends in soils during remediation: A review. Environmental Challenges, 2021, 2, 100007.	2.0	16
40	Hypersaline Pore Water in Gulf of Mexico Beaches Prevented Efficient Biodegradation of Deepwater Horizon Beached Oil. Environmental Science & Technology, 2021, 55, 13792-13801.	4.6	14
41	Experimental Investigation of Oil Droplet Size Distribution in Underwater Oil and Oil-Air Jet. Marine Technology Society Journal, 2021, 55, 196-209.	0.3	6
42	Experimental and Computational Study of Oil Jet in Crossflow. International Oil Spill Conference Proceedings, 2021, 2021, .	0.1	0
43	Small Scale Physical and Bio-Chemical Processes Affecting the Transport of Oil after a Spill. International Oil Spill Conference Proceedings, 2021, 2021, .	0.1	0
44	Oil droplets dispersion under a deep-water plunging breaker: Experimental measurements and numerical modeling. International Oil Spill Conference Proceedings, 2021, 2021, .	0.1	0
45	Dynamic Coupling of Near-Field and Far-Field Models. , 2020, , 139-154.		5
46	On the transport and landfall of marine oil spills, laboratory and field observations. Marine Pollution Bulletin, 2020, 150, 110805.	2.3	13
47	Hydrodynamics and Mixing Characteristics in Different-Size Aspirator Bottles for Water-Accommodated Fraction Tests. Journal of Environmental Engineering, ASCE, 2020, 146, .	0.7	6
48	A Review on Multiphase Underwater Jets and Plumes: Droplets, Hydrodynamics, and Chemistry. Reviews of Geophysics, 2020, 58, e2020RG000703.	9.0	22
49	Modeling oil dispersion under breaking waves. Part II:ÂCoupling Lagrangian particle tracking with population balance model. Environmental Fluid Mechanics, 2020, 20, 1553-1578.	0.7	12
50	Removal of hydrocarbon from soils possessing macro-heterogeneities using electrokinetics and surfactants. Chemical Engineering Journal Advances, 2020, 4, 100030.	2.4	6
51	Heterogeneity Affects Intertidal Flow Topology in Coastal Beach Aquifers. Geophysical Research Letters, 2020, 47, e2020GL089612.	1.5	28
52	Progress in Operational Modeling in Support of Oil Spill Response. Journal of Marine Science and Engineering, 2020, 8, 668.	1.2	46
53	Groundwater Flow and Moisture Dynamics in the Swash Zone: Effects of Heterogeneous Hydraulic Conductivity and Capillarity. Water Resources Research, 2020, 56, e2020WR028401.	1.7	15
54	Modeling oil dispersion under breaking waves.ÂPart I:ÂWave hydrodynamics. Environmental Fluid Mechanics, 2020, 20, 1527-1551.	0.7	14

#	Article	IF	Citations
55	Hydrodynamics and dilution of an oil jet in crossflow: The role of small-scale motions from laboratory experiment and large eddy simulations. International Journal of Heat and Fluid Flow, 2020, 85, 108634.	1.1	13
56	Bacteria forming drag-increasing streamers on a drop implicates complementary fates of rising deep-sea oil droplets. Scientific Reports, 2020, 10, 4305.	1.6	19
57	Transport of Oil Droplets in the Upper Ocean: Impact of the Eddy Diffusivity. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015727.	1.0	24
58	Numerical Study of Solute Transport in Heterogeneous Beach Aquifers Subjected to Tides. Water Resources Research, 2020, 56, e2019WR026430.	1.7	27
59	Characterization of Pore Water Flow in 3â€Ð Heterogeneous Permeability Fields. Geophysical Research Letters, 2020, 47, e2019GL086879.	1.5	10
60	Oil Droplet Dispersion under a Deep-Water Plunging Breaker: Experimental Measurement and Numerical Modeling. Journal of Marine Science and Engineering, 2020, 8, 230.	1.2	15
61	Fate of Crude Oil in the Environment and Remediation of Oil Spills. STEM Fellowship Journal, 2020, 6, 69-75.	0.5	6
62	Computation of the Mixing Energy in Rivers for Oil Dispersion. Journal of Environmental Engineering, ASCE, 2019, 145, .	0.7	6
63	Water flow and solute transport due to Macrotide in a gravel beach. Journal of Hydrology, 2019, 577, 123935.	2.3	1
64	High Pressure Injection of Chemicals in a Gravel Beach. Processes, 2019, 7, 525.	1.3	2
65	Effects of Tidally Varying Salinity on Groundwater Flow and Solute Transport: Insights From Modelling an Idealized Creek Marsh Aquifer. Water Resources Research, 2019, 55, 9656-9672.	1.7	33
66	The treatment of biodegradation in models of sub-surface oil spills: A review and sensitivity study. Marine Pollution Bulletin, 2019, 143, 204-219.	2.3	45
67	A Review on the Factors Affecting the Deposition, Retention, and Biodegradation of Oil Stranded on Beaches and Guidelines for Designing Laboratory Experiments. Current Pollution Reports, 2019, 5, 407-423.	3.1	29
68	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.	1.5	29
69	Impact of particle concentration and out-of-range sizes on the measurements of the LISST. Measurement Science and Technology, 2018, 29, 055302.	1.4	12
70	Behavior and dynamics of bubble breakup in gas pipeline leaks and accidental subsea oil well blowouts. Marine Pollution Bulletin, 2018, 131, 72-86.	2.3	32
71	Oil Droplets Transport Under a Deepâ€Water Plunging Breaker: Impact of Droplet Inertia. Journal of Geophysical Research: Oceans, 2018, 123, 9082-9100.	1.0	19
72	Estimating the Usefulness of Chemical Dispersant to Treat Surface Spills of Oil Sands Products. Journal of Marine Science and Engineering, 2018, 6, 128.	1.2	12

#	Article	IF	Citations
73	On the transport and modeling of dispersed oil under ice. Marine Pollution Bulletin, 2018, 135, 569-580.	2.3	19
74	Oil Droplet Transport under Non-Breaking Waves: An Eulerian RANS Approach Combined with a Lagrangian Particle Dispersion Model. Journal of Marine Science and Engineering, 2018, 6, 7.	1.2	11
75	Technological Advances for Ocean Surface Measurements by the Consortium for Advanced Research on Transport of Hydrocarbons in the Environment (CARTHE). Marine Technology Society Journal, 2018, 52, 71-76.	0.3	11
76	Spectral responses of gravel beaches to tidal signals. Scientific Reports, 2017, 7, 40770.	1.6	12
77	Droplet and bubble formation of combined oil and gas releases in subsea blowouts. Marine Pollution Bulletin, 2017, 120, 203-216.	2.3	42
78	Biodegradation of Dispersed Weathered Endicott Oil in Prince William Sound Water. Journal of Environmental Engineering, ASCE, 2017, 143, .	0.7	4
79	Numerical modeling of subsurface release and fate of benzene and toluene in coastal aquifers subjected to tides. Journal of Hydrology, 2017, 551, 793-803.	2.3	30
80	An oil spill decision matrix in response to surface spills of various bitumen blends. Environmental Sciences: Processes and Impacts, 2017, 19, 928-938.	1.7	15
81	Petroleum dynamics in the sea and influence of subsea dispersant injection during Deepwater Horizon. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10065-10070.	3.3	103
82	A New Mechanism of Sediment Attachment to Oil in Turbulent Flows: Projectile Particles. Environmental Science & Technology, 2017, 51, 11020-11028.	4.6	35
83	Hydrodynamics of oil jets without and with dispersant: Experimental and numerical characterization. Applied Ocean Research, 2017, 68, 77-90.	1.8	20
84	Oil jet with dispersant: Macroâ€scale hydrodynamics and tip streaming. AICHE Journal, 2017, 63, 5222-5234.	1.8	21
85	The influence of evaporation and rainfall on supratidal groundwater dynamics and salinity structure in a sandy beach. Water Resources Research, 2017, 53, 6218-6238.	1.7	38
86	Subsurface Flow and Moisture Dynamics in Response to Swash Motions: Effects of Beach Hydraulic Conductivity and Capillarity. Water Resources Research, 2017, 53, 10317-10335.	1.7	17
87	Impact of mixing time and energy on the dispersion effectiveness and droplets size of oil. Chemosphere, 2017, 166, 246-254.	4.2	51
88	PREDICTION OF OIL DROPLET MOVEMENT AND SIZE DISTRIBUTION: LAGRANGIAN METHOD AND VDROP-J MODEL. International Oil Spill Conference Proceedings, 2017, 2017, 1194-1211.	0.1	5
89	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
90	Experimental and numerical investigation of the formation of Oil Particle Aggregates (OPA). International Oil Spill Conference Proceedings, 2017, 2017, 1911-1930.	0.1	1

#	Article	IF	Citations
91	Evidence of salt accumulation in beach intertidal zone due to evaporation. Scientific Reports, 2016, 6, 31486.	1.6	61
92	Applications I: Degradation â€“ Pollution Mitigation and Waste Treatment Introduction. Springer Protocols, 2016, , 1-10.	0.1	0
93	Underwater oil jet: Hydrodynamics and droplet size distribution. Chemical Engineering Journal, 2016, 299, 292-303.	6.6	46
94	A-DROP: A predictive model for the formation of oil particle aggregates (OPAs). Marine Pollution Bulletin, 2016, 106, 245-259.	2.3	69
95	Special Issue on Managing Coastal Aquifers. Journal of Environmental Engineering, ASCE, 2016, 142, .	0.7	0
96	Bioremediation of the Exxon Valdez oil in Prince William Sound beaches. Marine Pollution Bulletin, 2016, 113, 156-164.	2.3	32
97	Evolution of bubble size distribution from gas blowout in shallow water. Journal of Geophysical Research: Oceans, 2016, 121, 1573-1599.	1.0	33
98	Simulation of oil bioremediation in a tidally influenced beach: Spatiotemporal evolution of nutrient and dissolved oxygen. Journal of Geophysical Research: Oceans, 2016, 121, 2385-2404.	1.0	25
99	Oil droplets transport due to irregular waves: Development of large-scale spreading coefficients. Marine Pollution Bulletin, 2016, 104, 279-289.	2.3	35
100	Characterization of Turbulent Properties in the EPA Baffled Flask for Dispersion Effectiveness Testing. Journal of Environmental Engineering, ASCE, 2016, 142, 1-14.	0.7	22
101	Dual effects of a dispersant and nutrient supplementation on weathered Endicott oil biodegradation in seawater. AIMS Environmental Science, 2016, 3, 739-751.	0.7	3
102	Biodegradation of subsurface oil in a tidally influenced sand beach: Impact of hydraulics and interaction with pore water chemistry. Water Resources Research, 2015, 51, 3193-3218.	1.7	38
103	Intercomparison of oil spill prediction models for accidental blowout scenarios with and without subsea chemical dispersant injection. Marine Pollution Bulletin, 2015, 96, 110-126.	2.3	90
104	Simulation of scenarios of oil droplet formation from the Deepwater Horizon blowout. Marine Pollution Bulletin, 2015, 101, 304-319.	2.3	75
105	Monitoring changes in salinity and metal concentrations in New Jersey (USA) coastal ecosystems Post-Hurricane Sandy. Environmental Earth Sciences, 2015, 73, 1169-1177.	1.3	17
106	Numerical study of solute transport in shallow beach aquifers subjected to waves and tides. Journal of Geophysical Research: Oceans, 2015, 120, 1409-1428.	1.0	59
107	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.	0.8	24
108	Numerical modeling of water flow and salt transport in bare saline soil subjected to evaporation. Journal of Hydrology, 2015, 524, 427-438.	2.3	39

#	Article	IF	Citations
109	Impacts of evaporation on subsurface flow and salt accumulation in a tidally influenced beach. Water Resources Research, 2015, 51, 5547-5565.	1.7	43
110	A field experiment and numerical modeling of a tracer at a gravel beach in Prince William Sound, Alaska. Hydrogeology Journal, 2014, 22, 1795-1805.	0.9	4
111	A new paradigm in oil spill modeling for decision making?. Environmental Research Letters, 2014, 9, 081001.	2.2	8
112	Evaluation of the biodegradation of Alaska North Slope oil in microcosms using the biodegradation model BIOB. Frontiers in Microbiology, 2014, 5, 212.	1.5	15
113	Evolution of droplets in subsea oil and gas blowouts: Development and validation of the numerical model VDROP-J. Marine Pollution Bulletin, 2014, 83, 58-69.	2.3	124
114	Assessing weathered Endicott oil biodegradation in brackish water. Marine Pollution Bulletin, 2014, 86, 102-110.	2.3	9
115	Simulation of the Landfall of the Deepwater Horizon Oil on the Shorelines of the Gulf of Mexico. Environmental Science & Technology, 2014, 48, 9496-9505.	4.6	59
116	Numerical study of wave effects on groundwater flow and solute transport in a laboratory beach. Journal of Contaminant Hydrology, 2014, 165, 37-52.	1.6	60
117	Migration of High-Pressure Air during Gas Well Drilling in the Appalachian Basin. Journal of Environmental Engineering, ASCE, 2014, 140, .	0.7	7
118	Flume tank studies to elucidate the fate and behavior of diluted bitumen spilled at sea. Marine Pollution Bulletin, 2014, 83, 32-37.	2.3	57
119	BIOB: A mathematical model for the biodegradation of low solubility hydrocarbons. Marine Pollution Bulletin, 2014, 83, 138-147.	2.3	30
120	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.	6.6	114
121	In Situ Oil Spill Countermeasures in Ice-Infested Waters: A Modeling Study of the Fate/Behaviours of Spilled Oil. International Oil Spill Conference Proceedings, 2014, 2014, 1215-1225.	0.1	1
122	A Numerical Model for Oil Droplet Evolution Emanating from Blowouts. International Oil Spill Conference Proceedings, 2014, 2014, 561-571.	0.1	1
123	Biodegradation of Dispersed Endicott Oil in Controlled Experiments. International Oil Spill Conference Proceedings, 2014, 2014, 1126-1140.	0.1	1
124	A numerical model to simulate the droplet formation process resulting from the release of diluted bitumen products in marine environment. International Oil Spill Conference Proceedings, 2014, 2014, 449-462.	0.1	4
125	Shoreline Bioremediation Model (SBM) - A Graphical User Interface for Simulating the Biodegradation of Beached Oil. International Oil Spill Conference Proceedings, 2014, 2014, 1099-1112.	0.1	1
126	Modeling Biodegradation of Subsurface Oil in Sand Beaches Polluted with Oil. International Oil Spill Conference Proceedings, 2014, 2014, 1113-1125.	0.1	0

#	Article	IF	Citations
127	Mathematical modeling of the biodegradation of residual hydrocarbon in a variably-saturated sand column. Biodegradation, 2013, 24, 153-163.	1.5	27
128	Comment on â€œEvolution of the Macondo Well Blowout: Simulating the Effects of the Circulation and Synthetic Dispersants on the Subsea Oil Transportâ€• Environmental Science & Technology, 2013, 47, 11905-11905.	4.6	19
129	Groundwater Flow in a Tidally Influenced Gravel Beach in Prince William Sound, Alaska. Journal of Hydrologic Engineering - ASCE, 2012, 17, 478-494.	0.8	15
130	Feasibility of High Pressure Injection of Chemicals into the Subsurface for the Bioremediation of the Exxon Valdez Oil. Ground Water Monitoring and Remediation, 2011, 31, 59-67.	0.6	13
131	Feasibility of Deep Nutrients Delivery into a Prince William Sound Beach for the Bioremediation of the Exxon Valdez Oil Spill. Ground Water Monitoring and Remediation, 2011, 31, 80-91.	0.6	9
132	Effect of viscosity, capillarity and grid spacing on thermal variable-density flow. Journal of Hydrology, 2011, 400, 41-57.	2.3	15
133	A tracer study in an Alaskan gravel beach and its implications on the persistence of the Exxon Valdez oil. Marine Pollution Bulletin, 2011, 62, 1261-1269.	2.3	35
134	Application of entropy analysis of in situ droplet-size spectra in evaluation of oil chemical dispersion efficacy. Marine Pollution Bulletin, 2011, 62, 2129-2136.	2.3	14
135	Beach geomorphic factors for the persistence of subsurface oil from the Exxon Valdez spill in Alaska. Environmental Monitoring and Assessment, 2011, 183, 5-21.	1.3	13
136	The Effect of Pore Water Chemistry on the Biodegradation ofÂtheÂExxon Valdez Oil Spill. Water Quality, Exposure, and Health, 2011, 2, 157-168.	1.5	8
137	Modeling solute transport and transient seepage in a laboratory beach under tidal influence. Environmental Modelling and Software, 2011, 26, 899-912.	1.9	44
138	A Biodegradation Assessment Tool for Decision on Beach Response. International Oil Spill Conference Proceedings, 2011, 2011, abs348.	0.1	7
139	Saltwater flushing by freshwater in a laboratory beach. Journal of Hydrology, 2010, 386, 1-12.	2.3	39
140	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.	2.3	36
141	A new perturbation solution of groundwater table fluctuations in tidal beaches. Journal of Hydrodynamics, 2010, 22, 55-60.	1.3	6
142	Long-term persistence of oil from the ExxonÂValdez spill in two-layer beaches. Nature Geoscience, 2010, 3, 96-99.	5.4	202
143	Hydrodynamics in a gravel beach and its impact on the Exxon Valdez oil. Journal of Geophysical Research, 2010, 115, .	3.3	42
144	Hydrodynamic factors affecting the persistence of the Exxon Valdez oil in a shallow bedrock beach. Water Resources Research, 2010, 46, .	1.7	58

#	Article	IF	Citations
145	Nutrient and Oxygen Concentrations within the Sediments of an Alaskan Beach Polluted with the Exxon Valdez Oil Spill. Environmental Science & Technology, 2010, 44, 7418-7424.	4.6	80
146	Evaluating Chemical Dispersant Efficacy in an Experimental Wave Tank: 2â€"Significant Factors Determining In Situ Oil Droplet Size Distribution. Environmental Engineering Science, 2009, 26, 1407-1418.	0.8	51
147	Evaluating Chemical Dispersant Efficacy in an Experimental Wave Tank: 1, Dispersant Effectiveness as a Function of Energy Dissipation Rate. Environmental Engineering Science, 2009, 26, 1139-1148.	0.8	26
148	Evaluating crude oil chemical dispersion efficacy in a flow-through wave tank under regular non-breaking wave and breaking wave conditions. Marine Pollution Bulletin, 2009, 58, 735-744.	2.3	42
149	Tide-induced head fluctuations in a coastal aquifer: effects of the elastic storage and leakage of the submarine outlet-capping. Hydrogeology Journal, 2009, 17, 1289-1296.	0.9	23
150	Quantifying Bank Storage of Variably Saturated Aquifers. Ground Water, 2008, 46, 841-850.	0.7	16
151	Assessment of chemical dispersant effectiveness in a wave tank under regular non-breaking and breaking wave conditions. Marine Pollution Bulletin, 2008, 56, 903-912.	2.3	59
152	Numerical simulation of the effect of the sloping submarine outlet-capping on tidal groundwater head fluctuation in confined coastal aquifers. Journal of Hydrology, 2008, 361, 339-348.	2.3	8
153	The enhancing effect of the elastic storage of the seabed aquitard on the tide-induced groundwater head fluctuation in confined submarine aquifer systems. Journal of Hydrology, 2008, 350, 83-92.	2.3	23
154	Tide-induced seawaterâ€"groundwater circulation in shallow beach aquifers. Journal of Hydrology, 2008, 352, 211-224.	2.3	113
155	An analytical solution and case study of groundwater head response to dual tide in an island leaky confined aquifer. Water Resources Research, 2008, 44, .	1.7	31
156	REGULAR AND BREAKING WAVES IN WAVE TANK FOR DISPERSION EFFECTIVENESS TESTING. International Oil Spill Conference Proceedings, 2008, 2008, 499-508.	0.1	11
157	OIL DROPLET SIZE DISTRIBUTION AS A FUNCTION OF ENERGY DISSIPATION RATE IN AN EXPERIMENTAL WAVE TANK. International Oil Spill Conference Proceedings, 2008, 2008, 621-626.	0.1	28
158	EFFECTS OF CHEMICAL DISPERSANTS AND MINERAL FINES ON PARTITIONING OF PETROLEUM HYDROCARBONS IN NATURAL SEAWATER. International Oil Spill Conference Proceedings, 2008, 2008, 633-638.	0.1	5
159	THE MOVEMENT OF OIL AT SEA DUE TO IRREGULAR WAVES. International Oil Spill Conference Proceedings, 2008, 2008, 943-947.	0.1	1
160	Tracer Studies in a Laboratory Beach Subjected to Waves. Journal of Environmental Engineering, ASCE, 2007, 133, 722-732.	0.7	35
161	Lateral and Longitudinal Variation of Hyporheic Exchange in a Piedmont Stream Pool. Environmental Science & Technology, 2007, 41, 4221-4226.	4.6	13
162	Tidal wave propagation in a coastal aquifer: Effects of leakages through its submarine outlet-capping and offshore roof. Journal of Hydrology, 2007, 337, 249-257.	2.3	59

#	Article	IF	Citations
163	Tide-induced head fluctuations in a confined aquifer with sediment covering its outlet at the sea floor. Water Resources Research, 2007, 43, .	1.7	74
164	Lagrangian simulation of oil droplets transport due to regular waves. Environmental Modelling and Software, 2007, 22, 978-986.	1.9	30
165	Tide-induced groundwater head fluctuation in coastal multi-layered aquifer systems with a submarine outlet-capping. Advances in Water Resources, 2007, 30, 1746-1755.	1.7	52
166	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.	2.3	61
167	A universal nutrient application strategy for the bioremediation of oil-polluted beaches. Marine Pollution Bulletin, 2007, 54, 1146-1161.	2.3	52
168	Evaluation of streambed hydraulic conductivity heterogeneity in an urban watershed. Stochastic Environmental Research and Risk Assessment, 2007, 21, 309-316.	1.9	42
169	Modelling tidal signals enhanced by a submarine spring in a coastal confined aquifer extending under the sea. Advances in Water Resources, 2007, 30, 1046-1052.	1.7	11
170	Solute transport in multiple-reach experiments: Evaluation of parameters and reliability of prediction. Journal of Hydrology, 2006, 323, 106-119.	2.3	20
171	Flow Dynamics in Eccentrically Rotating Flasks Used for Dispersant Effectiveness Testing. Environmental Fluid Mechanics, 2006, 6, 385-406.	0.7	34
172	Influence of streambed hydraulic conductivity on solute exchange with the hyporheic zone. Environmental Geology, 2006, 51, 203-210.	1.2	34
173	The movement of oil under non-breaking waves. Marine Pollution Bulletin, 2006, 52, 1056-1065.	2.3	28
174	Tracer Studies in Laboratory Beach Simulating Tidal Influences. Journal of Environmental Engineering, ASCE, 2006, 132, 616-623.	0.7	43
175	Evaluation of Mixing Energy in Laboratory Flasks Used for Dispersant Effectiveness Testing. Journal of Environmental Engineering, ASCE, 2006, 132, 93-101.	0.7	53
176	Multifractal characterization of airborne geophysical data at the Oak Ridge facility. Stochastic Environmental Research and Risk Assessment, 2005, 19, 227-240.	1.9	15
177	MEASURING ENERGY DISSIPATION RATES IN A WAVE TANK. International Oil Spill Conference Proceedings, 2005, 2005, 183-186.	0.1	8
178	Multifractal anisotropic scaling of the hydraulic conductivity. Water Resources Research, 2003, 39, .	1.7	53
179	Exact analytical expressions for the piezometric profile and water exchange between stream and groundwater during and after a uniform rise of the stream level. Water Resources Research, 2002, 38, 27-1-27-6.	1.7	14
180	The Role of Capillary Forces in Steady-State and Transient Seepage Flows. Ground Water, 2002, 40, 407-415.	0.7	26

#	Article	IF	Citations
181	ESTIMATION OF THE HIEC1 LOSS PARAMETERS FOR ROUTING THE PROBABLE MAXIMUM FLOOD. Journal of the American Water Resources Association, 2000, 36, 203-213.	1.0	2
182	A mechanistic study of nonlinear solute transport in a groundwater-surface water system Under steady state and transient hydraulic conditions. Water Resources Research, 2000, 36, 2549-2565.	1.7	147
183	Multifractal scaling of the intrinsic permeability. Water Resources Research, 2000, 36, 3211-3222.	1.7	65
184	Steady Seepage in Trenches and Dams: Effect of Capillary Flow. Journal of Hydraulic Engineering, 1999, 125, 286-294.	0.7	36
185	A numerical model for density-and-viscosity-dependent flows in two-dimensional variably saturated porous media. Journal of Contaminant Hydrology, 1999, 37, 1-20.	1.6	112
186	Optimum Nitrogen Concentration Supporting Maximum Crude Oil Biodegradation in Microcosms. International Oil Spill Conference Proceedings, 1999, 1999, 485-488.	0.1	12
187	UNIT HYDROGRAPHS DERWED FROM THE NASH MODEL. Journal of the American Water Resources Association, 1998, 34, 167-177.	1.0	23
188	2D Variably Saturated Flows: Physical Scaling and Bayesian Estimation. Journal of Hydrologic Engineering - ASCE, 1998, 3, 223-231.	0.8	41
189	Density-dependent flow in one-dimensional variably-saturated media. Journal of Hydrology, 1997, 202, 280-301.	2.3	12
190	TIDE-DRIVEN NUTRIENT TRANSPORT IN A BEACH MESOCOSM IN THE ABSENCE OF WAVES. International Oil Spill Conference Proceedings, 1997, 1997, 713-718.	0.1	4