Ian R Macdonald

List of Publications by Year in descending order

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50 papers	2,176 citations	201575 27 h-index	223716 46 g-index
51 all docs	51 docs citations	51 times ranked	2175 citing authors

#	Article	IF	Citations
1	Chronic oiling in global oceans. Science, 2022, 376, 1300-1304.	6.0	76
2	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
3	Heterogeneous hydrocarbon seepage at Mictlan asphalt knoll of the southern Gulf of Mexico. Marine and Petroleum Geology, 2021, 132, 105185.	1.5	3
4	The Asphalt Ecosystem of theÂSouthern Gulf of Mexico: Abyssal Habitats Across Space and Time. , 2020, , 132-146.		1
5	Temporal Variations of a Natural Hydrocarbon Seep Using a Deep-Sea Camera System. Journal of Atmospheric and Oceanic Technology, 2020, 37, 1737-1751.	0.5	6
6	Characteristics and hydrocarbon seepage at the Challenger Knoll in the Sigsbee Basin, Gulf of Mexico. Geo-Marine Letters, 2019, 39, 391-399.	0.5	4
7	Fueled by methane: deep-sea sponges from asphalt seeps gain their nutrition from methane-oxidizing symbionts. ISME Journal, 2019, 13, 1209-1225.	4.4	68
8	Amount and Fate of Gas and Oil Discharged at 3400 m Water Depth From a Natural Seep Site in the Southern Gulf of Mexico. Frontiers in Marine Science, 2019, 6, .	1.2	29
9	Linking Natural Oil Seeps from the Gulf of Mexico to Their Origin by Use of Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Environmental Science & Technology, 2018, 52, 1365-1374.	4.6	20
10	Slow Volcanoes: The Intriguing Similarities Between Marine Asphalt and Basalt Lavas. Oceanography, 2018, 31, .	0.5	10
11	No reef-associated gradient in the infaunal communities of Rapa Nui (Easter Island) â€“ Are oceanic waves more important than reef predators?. Estuarine, Coastal and Shelf Science, 2018, 210, 123-131.	0.9	9
12	Remote sensing estimation of surface oil volume during the 2010 Deepwater Horizon oil blowout in the Gulf of Mexico: scaling up AVIRIS observations with MODIS measurements. Journal of Applied Remote Sensing, 2018, 12, 1.	0.6	34
13	Application of the automatic seep location estimator (ASLE) with the use of contextual information for estimating offshore oil seeps. Remote Sensing Applications: Society and Environment, 2017, 5, 16-26.	0.8	1
14	Time series video analysis of bubble release processes at natural hydrocarbon seeps in the Northern Gulf of Mexico. Marine and Petroleum Geology, 2017, 82, 21-34.	1.5	49
15	Hindcast modeling of oil slick persistence from natural seeps. Remote Sensing of Environment, 2017, 189, 96-107.	4.6	32
16	Massive asphalt deposits, oil seepage, and gas venting support abundant chemosynthetic communities at the Campeche Knolls, southern Gulf of Mexico. Biogeosciences, 2016, 13, 4491-4512.	1.3	40
17	The Gulf of Mexico ecosystem, six years after the Macondo oil well blowout. Deep-Sea Research Part II: Topical Studies in Oceanography, 2016, 129, 4-19.	0.6	99
18	Oil slick morphology derived from AVIRIS measurements of the Deepwater Horizon oil spill: Implications for spatial resolution requirements of remote sensors. Marine Pollution Bulletin, 2016, 103, 276-285.	2.3	62

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19	Chronic, Anthropogenic Hydrocarbon Discharges in the Gulf of Mexico. Deep-Sea Research Part II: Topical Studies in Oceanography, 2016, 129, 187-195.	0.6	15
20	Coral injuries observed at Mesophotic Reefs after the Deepwater Horizon oil discharge. Deep-Sea Research Part II: Topical Studies in Oceanography, 2016, 129, 96-107.	0.6	39
21	Decline in condition of gorgonian octocorals on mesophotic reefs in the northern Gulf of Mexico: before and after the Deepwater Horizon oil spill. Coral Reefs, 2016, 35, 77-90.	0.9	55
22	Transience and persistence of natural hydrocarbon seepage in Mississippi Canyon, Gulf of Mexico. Deep-Sea Research Part II: Topical Studies in Oceanography, 2016, 129, 119-129.	0.6	24
23	Science in the aftermath: investigations of the DWH hydrocarbon discharge. Environmental Research Letters, 2014, 9, 125006.	2.2	7
24	Analysis of Oil-Volume Fluxes of Hydrocarbon-Seep Formations on the Green Canyon and Mississippi Canyon: A Study With 3D-Seismic Attributes in Combination With Satellite and Acoustic Data. SPE Reservoir Evaluation and Engineering, 2014, 17, 430-435.	1.1	6
25	Natural oil seepage at Kobuleti Ridge, eastern Black Sea. Marine and Petroleum Geology, 2014, 50, 68-82.	1.5	60
26	Gas hydrate dissolution rates quantified with laboratory and seafloor experiments. Geochimica Et Cosmochimica Acta, 2014, 125, 492-503.	1.6	29
27	DETECTION AND MAPPING OF FLOATING OIL EMULSIONS WITH SYNTHETIC APERTURE RADAR (SAR) IMAGERY. International Oil Spill Conference Proceedings, 2014, 2014, 300657.	0.1	1
28	Oil Spill Mapping and Measurement in the Gulf of Mexico With Textural Classifier Neural Network Algorithm (TCNNA). IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 2517-2525.	2.3	102
29	On the utility of radium isotopes as tracers of hydrocarbon discharge. Marine Chemistry, 2013, 156, 98-107.	0.9	10
30	Detection of thick patches of floating oil emulsions using X, C, and L-band SAR during Deep water Horizon oil spill. , 2013, , .		1
31	Analysis of Oil Volume Fluxes of Hydrocarbon Seep Formations on the Green Canyon and Mississippi Canyon: A Study Using 3D Seismic Attributes in Combination With Satellite and Acoustic Data. , 2013, , .		0
32	Detection of Floating Oil Anomalies From the Deepwater Horizon Oil Spill With Synthetic Aperture Radar. Oceanography, 2013, 26, .	0.5	99
33	Methane fluxes to the atmosphere from deepwater hydrocarbon seeps in the northern Gulf of Mexico. Journal of Geophysical Research, 2012, 117, .	3.3	30
34	Magnitude and oxidation potential of hydrocarbon gases released from the BP oil well blowout. Nature Geoscience, 2011, 4, 160-164.	5.4	214
35	Diversity of the arctic deep-sea benthos. Marine Biodiversity, 2011, 41, 87-107.	0.3	90
36	Comment on â€œA Persistent Oxygen Anomaly Reveals the Fate of Spilled Methane in the Deep Gulf of Mexicoâ€• Science, 2011, 332, 1033-1033.	6.0	23

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37	Grain size measurements of natural gas hydrates. Marine Geology, 2010, 274, 85-94.	0.9	24
38	Offshore oceanic impacts from the BP oil spill. Nature Geoscience, 2010, 3, 446-446.	5.4	16
39	Origin, distribution, and alteration of asphalts at Chapopote Knoll, Southern Gulf of Mexico. Marine and Petroleum Geology, 2010, 27, 1093-1106.	1.5	50
40	Shallow sediment deformation styles in north-western Campeche Knolls, Gulf of Mexico and their controls on the occurrence of hydrocarbon seepage. Marine and Petroleum Geology, 2010, 27, 959-972.	1.5	21
41	Benthic macrofauna and megafauna assemblages in the Arctic deep-sea Canada Basin. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 136-152.	0.6	69
42	Remote-sensing evaluation of geophysical anomaly sites in the outer continental slope, northern Gulf of Mexico. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 1859-1869.	0.6	72
43	Community composition and temporal change at deep Gulf of Mexico cold seeps. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 1891-1903.	0.6	45
44	Metabolic variability in seafloor brines revealed by carbon and sulphur dynamics. Nature Geoscience, 2009, 2, 349-354.	5.4	111
45	Considerable methane fluxes to the atmosphere from hydrocarbon seeps in the Gulf of Mexico. Nature Geoscience, 2009, 2, 561-565.	5.4	174
46	Biogeochemical controls on authigenic carbonate formation at the Chapopote â€œasphalt volcanoâ€, Bay of Campeche. Chemical Geology, 2009, 266, 390-402.	1.4	52
47	Using SAR images to delineate ocean oil slicks with a texture-classifying neural network algorithm (TCNNA). Canadian Journal of Remote Sensing, 2009, 35, 411-421.	1.1	125
48	Correspondence of sea fan orientations with measured currents on hard bottom habitats of the Mississippi/Alabama continental shelf. Continental Shelf Research, 2008, 28, 302-308.	0.9	9
49	Synthetic Aperture Radar Image Processing using the Supervised Textural-Neural Network Classification Algorithm. , 2008, , .		17
50	AlvinExplores the Deep Northern Gulf of Mexico Slope. Eos, 2007, 88, 341.	0.1	33