

# Christopher M Reddy

## List of Publications by Year in descending order

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228  
papers

15,694  
citations

17440

63  
h-index

19747

117  
g-index

232  
all docs

232  
docs citations

232  
times ranked

12969  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plastic Accumulation in the North Atlantic Subtropical Gyre. <i>Science</i> , 2010, 329, 1185-1188.	12.6	1,024
2	Tracking Hydrocarbon Plume Transport and Biodegradation at Deepwater Horizon. <i>Science</i> , 2010, 330, 201-204.	12.6	701
3	Organic micropollutants in marine plastics debris from the open ocean and remote and urban beaches. <i>Marine Pollution Bulletin</i> , 2011, 62, 1683-1692.	5.0	654
4	Composition and fate of gas and oil released to the water column during the <i>Deepwater Horizon</i> oil spill. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20229-20234.	7.1	599
5	The size, mass, and composition of plastic debris in the western North Atlantic Ocean. <i>Marine Pollution Bulletin</i> , 2010, 60, 1873-1878.	5.0	544
6	Combustion-Derived Polycyclic Aromatic Hydrocarbons in the Environment—A Review. <i>Environmental Forensics</i> , 2005, 6, 109-131.	2.6	497
7	Evaluation of a protocol for the quantification of black carbon in sediments. <i>Global Biogeochemical Cycles</i> , 2001, 15, 881-890.	4.9	341
8	Impact of the <i>Deepwater Horizon</i> oil spill on a deep-water coral community in the Gulf of Mexico. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20303-20308.	7.1	335
9	Resolving the Unresolved Complex Mixture in Petroleum-Contaminated Sediments. <i>Environmental Science &amp; Technology</i> , 2003, 37, 1653-1662.	10.0	302
10	Two Abundant Bioaccumulated Halogenated Compounds Are Natural Products. <i>Science</i> , 2005, 307, 917-920.	12.6	296
11	Oil Weathering after the <i>Deepwater Horizon</i> Disaster Led to the Formation of Oxygenated Residues. <i>Environmental Science &amp; Technology</i> , 2012, 46, 8799-8807.	10.0	290
12	The West Falmouth Oil Spill after Thirty Years: The Persistence of Petroleum Hydrocarbons in Marsh Sediments. <i>Environmental Science &amp; Technology</i> , 2002, 36, 4754-4760.	10.0	282
13	Chemical data quantify <i>Deepwater Horizon</i> hydrocarbon flow rate and environmental distribution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20246-20253.	7.1	258
14	Fallout plume of submerged oil from <i>Deepwater Horizon</i>. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15906-15911.	7.1	242
15	Human Health and Ocean Pollution. <i>Annals of Global Health</i> , 2020, 86, 151.	2.0	240
16	High-Resolution Record of Pyrogenic Polycyclic Aromatic Hydrocarbon Deposition during the 20th Century. <i>Environmental Science &amp; Technology</i> , 2003, 37, 53-61.	10.0	213
17	Radiocarbon as a Tool To Apportion the Sources of Polycyclic Aromatic Hydrocarbons and Black Carbon in Environmental Samples. <i>Environmental Science &amp; Technology</i> , 2002, 36, 1774-1782.	10.0	200
18	Sunlight Converts Polystyrene to Carbon Dioxide and Dissolved Organic Carbon. <i>Environmental Science and Technology Letters</i> , 2019, 6, 669-674.	8.7	158

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19	Recalcitrance and Degradation of Petroleum Biomarkers upon Abiotic and Biotic Natural Weathering of <i>&lt;i&gt;Deepwater Horizon&lt;/i&gt;</i> Oil. <i>Environmental Science &amp; Technology</i> , 2014, 48, 6726-6734.	10.0	148
20	Expansion of the Analytical Window for Oil Spill Characterization by Ultrahigh Resolution Mass Spectrometry: Beyond Gas Chromatography. <i>Environmental Science &amp; Technology</i> , 2013, 47, 7530-7539.	10.0	144
21	Assessment of photochemical processes in marine oil spill fingerprinting. <i>Marine Pollution Bulletin</i> , 2014, 79, 268-277.	5.0	143
22	Determination of HBCD, PBDEs and MeO-BDEs in California sea lions ( <i>Zalophus californianus</i> ) stranded between 1993 and 2003. <i>Marine Pollution Bulletin</i> , 2006, 52, 522-531.	5.0	141
23	Environmental Chemistry of Benzothiazoles Derived from Rubber. <i>Environmental Science &amp; Technology</i> , 1997, 31, 2847-2853.	10.0	140
24	Targeted Petroleomics: Analytical Investigation of Macondo Well Oil Oxidation Products from Pensacola Beach. <i>Energy &amp; Fuels</i> , 2014, 28, 4043-4050.	5.1	130
25	Elevated levels of diesel range organic compounds in groundwater near Marcellus gas operations are derived from surface activities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13184-13189.	7.1	130
26	Nanoaggregates of Asphaltenes in a Reservoir Crude Oil and Reservoir Connectivity. <i>Energy &amp; Fuels</i> , 2009, 23, 1178-1188.	5.1	121
27	Nontargeted Comprehensive Two-Dimensional Gas Chromatography/Time-of-Flight Mass Spectrometry Method and Software for Inventorying Persistent and Bioaccumulative Contaminants in Marine Environments. <i>Environmental Science &amp; Technology</i> , 2012, 46, 8001-8008.	10.0	115
28	Contribution of Biomass Burning to Atmospheric Polycyclic Aromatic Hydrocarbons at Three European Background Sites. <i>Environmental Science &amp; Technology</i> , 2005, 39, 2976-2982.	10.0	113
29	Biodegradation and environmental behavior of biodiesel mixtures in the sea: An initial study. <i>Marine Pollution Bulletin</i> , 2007, 54, 894-904.	5.0	111
30	GC-MS analysis of total petroleum hydrocarbons and polycyclic aromatic hydrocarbons in seawater samples after the North Cape oil spill. <i>Marine Pollution Bulletin</i> , 1999, 38, 126-135.	5.0	107
31	Tracking the Weathering of an Oil Spill with Comprehensive Two-Dimensional Gas Chromatography. <i>Environmental Forensics</i> , 2006, 7, 33-44.	2.6	107
32	Analysis of unresolved complex mixtures of hydrocarbons extracted from Late Archean sediments by comprehensive two-dimensional gas chromatography (GC $\times$ GC). <i>Organic Geochemistry</i> , 2008, 39, 846-867.	1.8	107
33	Using Comprehensive Two-Dimensional Gas Chromatography Retention Indices To Estimate Environmental Partitioning Properties for a Complete Set of Diesel Fuel Hydrocarbons. <i>Analytical Chemistry</i> , 2005, 77, 7172-7182.	6.5	106
34	Petroleum dynamics in the sea and influence of subsea dispersant injection during <i>&lt;i&gt;Deepwater Horizon&lt;/i&gt;</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10065-10070.	7.1	103
35	Acoustic measurement of the <i>&lt;i&gt;Deepwater Horizon&lt;/i&gt;</i> Macondo well flow rate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20235-20239.	7.1	101
36	Early Evaluation of Potential Environmental Impacts of Carbon Nanotube Synthesis by Chemical Vapor Deposition. <i>Environmental Science &amp; Technology</i> , 2009, 43, 8367-8373.	10.0	100

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37	Rapid microbial respiration of oil from the <i>Deepwater Horizon</i> spill in offshore surface waters of the Gulf of Mexico. <i>Environmental Research Letters</i> , 2011, 6, 035301.	5.2	98
38	Indications of Transformation Products from Hydraulic Fracturing Additives in Shale-Gas Wastewater. <i>Environmental Science &amp; Technology</i> , 2016, 50, 8036-8048.	10.0	96
39	Comparison of GC-MS, GC-MRM-MS, and GC-MS-MS to characterise higher plant biomarkers in Tertiary oils and rock extracts. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 87, 299-322.	3.9	94
40	Resolving Biodegradation Patterns of Persistent Saturated Hydrocarbons in Weathered Oil Samples from the <i>Deepwater Horizon</i> Disaster. <i>Environmental Science &amp; Technology</i> , 2014, 48, 1628-1637.	10.0	94
41	Partial Photochemical Oxidation Was a Dominant Fate of <i>Deepwater Horizon</i> Surface Oil. <i>Environmental Science &amp; Technology</i> , 2018, 52, 1797-1805.	10.0	94
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.	7.1	93
43	Identification of a novel alkenone in Black Sea sediments. <i>Organic Geochemistry</i> , 2001, 32, 633-645.	1.8	89
44	Weathering of Oil Spilled in the Marine Environment. <i>Oceanography</i> , 2016, 29, 126-135.	1.0	89
45	Disentangling Oil Weathering Using GC-MS. 1. Chromatogram Analysis. <i>Environmental Science &amp; Technology</i> , 2007, 41, 5738-5746.	10.0	88
46	Unprecedented Ultrahigh Resolution FT-ICR Mass Spectrometry and Parts-Per-Billion Mass Accuracy Enable Direct Characterization of Nickel and Vanadyl Porphyrins in Petroleum from Natural Seeps. <i>Energy &amp; Fuels</i> , 2014, 28, 2454-2464.	5.1	88
47	Photochemical Degradation of Polycyclic Aromatic Hydrocarbons in Oil Films. <i>Environmental Science &amp; Technology</i> , 2008, 42, 2432-2438.	10.0	86
48	High-resolution historical records from Pettaquamscutt River basin sediments: 2. Pb isotopes reveal a potential new stratigraphic marker. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 1813-1824.	3.9	84
49	Industrially synthesized single-walled carbon nanotubes: compositional data for users, environmental risk assessments, and source apportionment. <i>Nanotechnology</i> , 2008, 19, 185706.	2.6	82
50	Oxygenated weathering products of Deepwater Horizon oil come from surprising precursors. <i>Marine Pollution Bulletin</i> , 2013, 75, 140-149.	5.0	80
51	Long-term consequences of residual petroleum on salt marsh grass. <i>Journal of Applied Ecology</i> , 2008, 45, 1284-1292.	4.0	79
52	Multiple Alkynes React with Ethylene To Enhance Carbon Nanotube Synthesis, Suggesting a Polymerization-like Formation Mechanism. <i>ACS Nano</i> , 2010, 4, 7185-7192.	14.6	79
53	First Day of an Oil Spill on the Open Sea: Early Mass Transfers of Hydrocarbons to Air and Water. <i>Environmental Science &amp; Technology</i> , 2014, 48, 9400-9411.	10.0	78
54	Long-term biological effects of petroleum residues on fiddler crabs in salt marshes. <i>Marine Pollution Bulletin</i> , 2007, 54, 955-962.	5.0	74

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55	Molecular and isotopic identification of PAH sources in a highly industrialized urban estuary. <i>Organic Geochemistry</i> , 2005, 36, 619-632.	1.8	72
56	Compound class oil fingerprinting techniques using comprehensive two-dimensional gas chromatography (GC $\times$ GC). <i>Organic Geochemistry</i> , 2010, 41, 1026-1035.	1.8	71
57	Determination of Microbial Carbon Sources in Petroleum Contaminated Sediments Using Molecular <sup>14</sup> C Analysis. <i>Environmental Science &amp; Technology</i> , 2005, 39, 2552-2558.	10.0	70
58	Molecular evidence of Late Archean archaea and the presence of a subsurface hydrothermal biosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14260-14265.	7.1	70
59	Halogenated organic compounds in archived whale oil: A pre-industrial record. <i>Environmental Pollution</i> , 2007, 145, 668-671.	7.5	69
60	Disentangling Oil Weathering at a Marine Seep Using GC $\times$ GC: Broad Metabolic Specificity Accompanies Subsurface Petroleum Biodegradation. <i>Environmental Science &amp; Technology</i> , 2008, 42, 7166-7173.	10.0	69
61	Stable chlorine and carbon isotopic compositions of selected semi-volatile organochlorine compounds. <i>Organic Geochemistry</i> , 2002, 33, 437-444.	1.8	67
62	Humic Substances and Crude Oil Induce Cytochrome P450 1A Expression in the Amazonian Fish Species <i>Colossoma macropomum</i> (Tambaqui). <i>Environmental Science &amp; Technology</i> , 2006, 40, 2851-2858.	10.0	67
63	Combining biomarker and bulk compositional gradient analysis to assess reservoir connectivity. <i>Organic Geochemistry</i> , 2010, 41, 812-821.	1.8	66
64	High-resolution historical records from Pettaquamscutt River basin sediments: 1. <sup>210</sup> Pb and varve chronologies validate record of <sup>137</sup> Cs released by the Chernobyl accident. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 1803-1812.	3.9	65
65	Natural organobromine in marine sediments: New evidence of biogeochemical Br cycling. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	4.9	65
66	Carbon and Chlorine Isotope Effects During Abiotic Reductive Dechlorination of Polychlorinated Ethanes. <i>Environmental Science &amp; Technology</i> , 2007, 41, 4662-4668.	10.0	63
67	Simulating Gas-Liquid-Water Partitioning and Fluid Properties of Petroleum under Pressure: Implications for Deep-Sea Blowouts. <i>Environmental Science &amp; Technology</i> , 2016, 50, 7397-7408.	10.0	63
68	Precursor gas chemistry determines the crystallinity of carbon nanotubes synthesized at low temperature. <i>Carbon</i> , 2011, 49, 804-810.	10.3	62
69	We need better data about the environmental persistence of plastic goods. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14618-14621.	7.1	60
70	Identification and quantification of alkene-based drilling fluids in crude oils by comprehensive two-dimensional gas chromatography with flame ionization detection. <i>Journal of Chromatography A</i> , 2007, 1148, 100-107.	3.7	58
71	Black carbon in marine particulate organic carbon: Inputs and cycling of highly recalcitrant organic carbon in the Gulf of Maine. <i>Marine Chemistry</i> , 2009, 113, 172-181.	2.3	58
72	Even carbon number predominance of plant wax n-alkanes. <i>Organic Geochemistry</i> , 2000, 31, 331-336.	1.8	57

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73	Stable Chlorine Isotopic Compositions of Aroclors and Aroclor-Contaminated Sediments. <i>Environmental Science &amp; Technology</i> , 2000, 34, 2866-2870.	10.0	57
74	The North Cape oil spill: hydrocarbons in Rhode Island coastal waters and Point Judith Pond. <i>Marine Environmental Research</i> , 2001, 52, 445-461.	2.5	57
75	Weathering and the Fallout Plume of Heavy Oil from Strong Petroleum Seeps Near Coal Oil Point, CA. <i>Environmental Science &amp; Technology</i> , 2009, 43, 3542-3548.	10.0	57
76	Analysis of petroleum compositional similarity using multiway principal components analysis (MPCA) with comprehensive two-dimensional gas chromatographic data. <i>Journal of Chromatography A</i> , 2011, 1218, 2584-2592.	3.7	57
77	Simultaneous Quantitation of Multiple Classes of Organohalogen Compounds in Fish Oils with Direct Sample Introduction Comprehensive Two-Dimensional Gas Chromatography and Time-of-Flight Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 2653-2660.	5.2	56
78	Microbial production and consumption of hydrocarbons in the global ocean. <i>Nature Microbiology</i> , 2021, 6, 489-498.	13.3	56
79	Radiocarbon Apportionment of Fossil versus Biofuel Combustion Sources of Polycyclic Aromatic Hydrocarbons in the Stockholm Metropolitan Area. <i>Environmental Science &amp; Technology</i> , 2004, 38, 5344-5349.	10.0	55
80	Asphalt volcanoes as a potential source of methane to late Pleistocene coastal waters. <i>Nature Geoscience</i> , 2010, 3, 345-348.	12.9	55
81	The Absence and Application of Stable Carbon Isotopic Fractionation during the Reductive Dechlorination of Polychlorinated Biphenyls. <i>Environmental Science &amp; Technology</i> , 2001, 35, 3310-3313.	10.0	54
82	A Chlorine Isotope Effect for Enzyme-Catalyzed Chlorination. <i>Journal of the American Chemical Society</i> , 2002, 124, 14526-14527.	13.7	54
83	Disentangling Oil Weathering Using GC-MS. 2. Mass Transfer Calculations. <i>Environmental Science &amp; Technology</i> , 2007, 41, 5747-5755.	10.0	54
84	Effect of field exposure to 38-year-old residual petroleum hydrocarbons on growth, condition index, and filtration rate of the ribbed mussel, <i>Geukensia demissa</i> . <i>Environmental Pollution</i> , 2008, 154, 312-319.	7.5	54
85	GC-MS—GC—A New Analytical Tool For Environmental Forensics. <i>Environmental Forensics</i> , 2002, 3, 27-34.	2.6	53
86	Capabilities of Direct Sample Introduction Comprehensive Two-Dimensional Gas Chromatography Time-of-Flight Mass Spectrometry to Analyze Organic Chemicals of Interest in Fish Oils. <i>Environmental Science &amp; Technology</i> , 2009, 43, 3240-3247.	10.0	53
87	Deciphering the lithological consequences of bottom trawling to sedimentary habitats on the shelf. <i>Journal of Marine Systems</i> , 2016, 159, 120-131.	2.1	53
88	Radiocarbon Evidence for a Naturally Produced, Bioaccumulating Halogenated Organic Compound. <i>Environmental Science &amp; Technology</i> , 2004, 38, 1992-1997.	10.0	52
89	The composition, origin and fate of complex mixtures in the maltene fractions of hydrothermal petroleum assessed by comprehensive two-dimensional gas chromatography. <i>Organic Geochemistry</i> , 2012, 45, 48-65.	1.8	52
90	The first decade of scientific insights from the Deepwater Horizon oil release. <i>Nature Reviews Earth &amp; Environment</i> , 2020, 1, 237-250.	29.7	52

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91	Abundance, Composition, and Vertical Transport of PAHs in Marsh Sediments. <i>Environmental Science &amp; Technology</i> , 2005, 39, 8273-8280.	10.0	51
92	Oil Spill Source Identification by Principal Component Analysis of Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectra. <i>Analytical Chemistry</i> , 2013, 85, 9064-9069.	6.5	51
93	How Persistent and Bioavailable Are Oxygenated <i>Deepwater Horizon</i> Oil Transformation Products?. <i>Environmental Science &amp; Technology</i> , 2018, 52, 7250-7258.	10.0	51
94	The M/V Cosco Busan spill: Source identification and short-term fate. <i>Marine Pollution Bulletin</i> , 2010, 60, 2123-2129.	5.0	50
95	Free and Bound Benzotriazoles in Marine and Freshwater Sediments. <i>Environmental Science &amp; Technology</i> , 2000, 34, 973-979.	10.0	48
96	The 1974 spill of the Bouchard 65 oil barge: Petroleum hydrocarbons persist in Winsor Cove salt marsh sediments. <i>Marine Pollution Bulletin</i> , 2007, 54, 214-225.	5.0	48
97	Thermogravimetryâ€“Mass Spectrometry for Carbon Nanotube Detection in Complex Mixtures. <i>Environmental Science &amp; Technology</i> , 2012, 46, 12254-12261.	10.0	48
98	Compoundâ€“specific <sup>81</sup>Br/<sup>79</sup>Br analysis by capillary gas chromatography/multicollector inductively coupled plasma mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 3301-3305.	1.5	45
99	Intrinsic bacterial biodegradation of petroleum contamination demonstrated in situ using natural abundance, molecular-level 14C analysis. <i>Organic Geochemistry</i> , 2006, 37, 981-989.	1.8	44
100	Analysis and Identification of Biomarkers and Origin of Color in a Bright Blue Crude Oil. <i>Energy &amp; Fuels</i> , 2011, 25, 172-182.	5.1	44
101	Evaluation of Gas Chromatographic Isotope Fractionation and Process Contamination by Carbon in Compound-Specific Radiocarbon Analysis. <i>Analytical Chemistry</i> , 2007, 79, 2042-2049.	6.5	41
102	Determination of Biodiesel Blending Percentages Using Natural Abundance Radiocarbon Analysis: Testing the Accuracy of Retail Biodiesel Blends. <i>Environmental Science &amp; Technology</i> , 2008, 42, 2476-2482.	10.0	41
103	Scientist Citizens. <i>Science</i> , 2009, 323, 1405-1405.	12.6	41
104	Isotopic Constraints on the Fate of Petroleum Residues Sequestered in Salt Marsh Sediments. <i>Environmental Science &amp; Technology</i> , 2005, 39, 2545-2551.	10.0	39
105	Separation of 18 <sup>±</sup> (H)-, 18 <sup>2</sup> (H)-oleanane and lupane by comprehensive two-dimensional gas chromatography. <i>Journal of Chromatography A</i> , 2011, 1218, 5549-5553.	3.7	39
106	Long-term weathering and continued oxidation of oil residues from the Deepwater Horizon spill. <i>Marine Pollution Bulletin</i> , 2016, 113, 380-386.	5.0	39
107	Radiocarbon content of synthetic and natural semi-volatile halogenated organic compounds. <i>Environmental Pollution</i> , 2002, 120, 163-168.	7.5	38
108	Expanding the range of halogenated 1â€“methyl-1,2â€“bipyrroles (MBPs) using GC/ECNI-MS and GCâ€“GC/TOF-MS. <i>Chemosphere</i> , 2008, 71, 1557-1565.	8.2	38

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109	Plastic Formulation is an Emerging Control of Its Photochemical Fate in the Ocean. <i>Environmental Science &amp; Technology</i> , 2021, 55, 12383-12392.	10.0	38
110	Brominated flame retardants and organochlorine contaminants in winter flounder, harp and hooded seals, and North Atlantic right whales from the Northwest Atlantic Ocean. <i>Marine Pollution Bulletin</i> , 2010, 60, 1160-1169.	5.0	37
111	The West Falmouth Oil Spill: ~14100 Kg of Oil Found to Persist Decades Later. <i>Environmental Forensics</i> , 2005, 6, 273-281.	2.6	36
112	Floating oil-covered debris from <i>Deepwater Horizon</i> : identification and application. <i>Environmental Research Letters</i> , 2012, 7, 015301.	5.2	36
113	Unresolved Complex Mixture (UCM) in Coastal Environments Is Derived from Fossil Sources. <i>Environmental Science &amp; Technology</i> , 2013, 47, 726-731.	10.0	36
114	Global and Local Sources of Mercury Deposition in Coastal New England Reconstructed from a Multiproxy, High-Resolution, Estuarine Sediment Record. <i>Environmental Science &amp; Technology</i> , 2018, 52, 7614-7620.	10.0	36
115	Molecular Evidence of Heavy-Oil Weathering Following the M/V <i>Cosco Busan</i> Spill: Insights from Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Environmental Science &amp; Technology</i> , 2014, 48, 3760-3767.	10.0	35
116	Identification of highly brominated analogues of Q1 in marine mammals. <i>Environmental Pollution</i> , 2006, 144, 336-344.	7.5	34
117	Response of Different Types of Sulfur Compounds to Oxidative Desulfurization of Jet Fuel. <i>Energy &amp; Fuels</i> , 2014, 28, 2977-2983.	5.1	34
118	GC-MS A New Analytical Tool For Environmental Forensics. <i>Environmental Forensics</i> , 2002, 3, 27-34.	2.6	33
119	Organohalogen contaminants and metabolites in cerebrospinal fluid and cerebellum gray matter in short-beaked common dolphins and Atlantic white-sided dolphins from the western North Atlantic. <i>Environmental Pollution</i> , 2009, 157, 2345-2358.	7.5	33
120	Unprecedented Insights into the Chemical Complexity of Coal Tar from Comprehensive Two-Dimensional Gas Chromatography Mass Spectrometry and Direct Infusion Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy &amp; Fuels</i> , 2015, 29, 641-648.	5.1	33
121	Photochemical Oxidation of Oil Reduced the Effectiveness of Aerial Dispersants Applied in Response to the <i>Deepwater Horizon</i> Spill. <i>Environmental Science and Technology Letters</i> , 2018, 5, 226-231.	8.7	33
122	A Geological Model for the Origin of Fluid Compositional Gradients in a Large Saudi Arabian Oilfield: An Investigation by Two-Dimensional Gas Chromatography (GC-MS) and Asphaltene Chemistry. <i>Energy &amp; Fuels</i> , 2015, 29, 5666-5680.	5.1	32
123	Radiocarbon Dating of Alkenones from Marine Sediments: I. Isolation Protocol. <i>Radiocarbon</i> , 2005, 47, 401-412.	1.8	31
124	Visible-Near-Infrared Spectroscopy by Downhole Fluid Analysis Coupled with Comprehensive Two-Dimensional Gas Chromatography To Address Oil Reservoir Complexity. <i>Energy &amp; Fuels</i> , 2008, 22, 496-503.	5.1	31
125	Biodegradation preference for isomers of alkylated naphthalenes and benzothiophenes in marine sediment contaminated with crude oil. <i>Organic Geochemistry</i> , 2011, 42, 630-639.	1.8	31
126	Recurrent Oil Sheens at the <i>Deepwater Horizon</i> Disaster Site Fingerprinted with Synthetic Hydrocarbon Drilling Fluids. <i>Environmental Science &amp; Technology</i> , 2013, 47, 8211-8219.	10.0	31



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127	Integrating comprehensive two-dimensional gas chromatography and downhole fluid analysis to validate a spill-fill sequence of reservoirs with variations of biodegradation, water washing and thermal maturity. <i>Fuel</i> , 2017, 191, 538-554.	6.4	31
128	Latent hydrocarbons from cyanobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13434-13435.	7.1	30
129	Product Formulation Controls the Impact of Biofouling on Consumer Plastic Photochemical Fate in the Ocean. <i>Environmental Science &amp; Technology</i> , 2021, 55, 8898-8907.	10.0	30
130	Stable chlorine intramolecular kinetic isotope effects from the abiotic dehydrochlorination of DDT. <i>Environmental Science and Pollution Research</i> , 2002, 9, 183-186.	5.3	29
131	Naturally produced halogenated dimethyl bipyrrroles bind to the aryl hydrocarbon receptor and induce cytochrome P4501A and porphyrin accumulation in chicken embryo hepatocytes. <i>Environmental Toxicology and Chemistry</i> , 2003, 22, 1622-1631.	4.3	28
132	Exploring the Complexity of Two Iconic Crude Oil Spills in the Gulf of Mexico (Ixtoc I and Deepwater) <i>Environmental Science &amp; Technology</i> , 2019, 33, 3925-3933.	5.1	28
133	MV Wakashio grounding incident in Mauritius 2020: The world's first major spillage of Very Low Sulfur Fuel Oil. <i>Marine Pollution Bulletin</i> , 2021, 171, 112917.	5.0	28
134	The M/V X-Press Pearl Nurdle Spill: Contamination of Burnt Plastic and Unburnt Nurdles along Sri Lanka's Beaches. <i>ACS Environmental Au</i> , 2022, 2, 128-135.	7.0	28
135	Modern and Fossil Contributions to Polycyclic Aromatic Hydrocarbons in PM2.5 from North Birmingham, Alabama in the Southeastern U.S.. <i>Environmental Science &amp; Technology</i> , 2012, 46, 1422-1429.	10.0	27
136	Methods of Oil Detection in Response to the Deepwater Horizon Oil Spill. <i>Oceanography</i> , 2016, 29, 76-87.	1.0	27
137	Compound-specific bromine isotope compositions of one natural and six industrially synthesised organobromine substances. <i>Environmental Chemistry</i> , 2011, 8, 127.	1.5	25
138	Production of Jet Fuel Range Hydrocarbons as a Coproduct of Algal Biodiesel by Butenolysis of Long-Chain Alkenones. <i>Energy &amp; Fuels</i> , 2015, 29, 922-930.	5.1	25
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