Steven B Hawthorne

List of Publications by Year in descending order

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94 papers 5,817 citations

66250 44 h-index 74 g-index

94 all docs 94 docs citations

times ranked

94

4084 citing authors

#	Article	IF	CITATIONS
1	CO2-Enhanced Oil Recovery Mechanism in Canadian Bakken Shale. Minerals (Basel, Switzerland), 2022, 12, 779.	0.8	7
2	Comparison of CO \langle sub \rangle 2 \langle /sub \rangle and Produced Gas Hydrocarbons to Recover Crude Oil from Williston Basin Shale and Mudrock Cores at 10.3, 17.2, and 34.5 MPa and 110 Å $^{\circ}$ C. Energy & amp; Fuels, 2021, 35, 6658-6672.	2.5	17
3	Turtles and Snakes: Evidence for Molecular Shape-Selective Migration of Crude Oil Hydrocarbons in the Bakken Petroleum System. Energy & Samp; Fuels, 2021, 35, 10584-10596.	2.5	2
4	Report on the First Rich Gas EOR Cyclic Multiwell Huff N Puff Pilot in the Bakken Tight Oil Play. , 2020, , .		8
5	Comparison of CO ₂ and Produced Gas Hydrocarbons to Dissolve and Mobilize Bakken Crude Oil at 10.3, 20.7, and 34.5 MPa and 110 °C. Energy & Energ	2.5	12
6	Experimental Determinations of Minimum Miscibility Pressures Using Hydrocarbon Gases and CO ₂ for Crude Oils from the Bakken and Cut Bank Oil Reservoirs. Energy & E	2.5	25
7	Hydrocarbon Recovery from Williston Basin Shale and Mudrock Cores with Supercritical CO ₂ : 2. Mechanisms That Control Oil Recovery Rates and CO ₂ Permeation. Energy & Description of the Energy & Description	2.5	18
8	Hydrocarbon Recovery from Williston Basin Shale and Mudrock Cores with Supercritical CO2: Part 1. Method Validation and Recoveries from Cores Collected across the Basin. Energy & Ener	2.5	24
9	A comparison of crude oil hydrocarbon mobilization by vaporization gas drive into methane, ethane, and carbon dioxide at 15.6†MPa and 42†°C. Fuel, 2019, 249, 392-399.	3.4	13
10	Enhanced Oil Recovery in Liquid–Rich Shale Reservoirs: Laboratory to Field. SPE Reservoir Evaluation and Engineering, 2018, 21, 137-159.	1.1	147
11	The Influence of Organics on Supercritical CO2 Migration in Organic-Rich Shales. , 2018, , .		10
12	Field Test of CO2 Injection in a Vertical Middle Bakken Well to Evaluate the Potential for Enhanced Oil Recovery and CO2 Storage. , 2018 , , .		18
13	Lab and Reservoir Study of Produced Hydrocarbon Molecular Weight Selectivity during CO ₂ Enhanced Oil Recovery. Energy & Study 2018, 32, 9070-9080.	2.5	16
14	Improving Oil Recovery by Use of Carbon Dioxide in the Bakken Unconventional System: A Laboratory Investigation. SPE Reservoir Evaluation and Engineering, 2017, 20, 602-612.	1.1	73
15	Measured Crude Oil MMPs with Pure and Mixed CO2, Methane, and Ethane, and Their Relevance to Enhanced Oil Recovery from Middle Bakken and Bakken Shales., 2017,,.		28
16	Integrating Petrographic and Petrophysical Analyses with CO2 Permeation and Oil Extraction and Recovery in the Bakken Tight Oil Formation. , 2017, , .		19
17	Advancing CO2 enhanced oil recovery and storage in unconventional oil playâ€"Experimental studies on Bakken shales. Applied Energy, 2017, 208, 171-183.	5.1	197
18	Rapid and Simple Capillary-Rise/Vanishing Interfacial Tension Method To Determine Crude Oil Minimum Miscibility Pressure: Pure and Mixed CO ₂ , Methane, and Ethane. Energy & Samp; Fuels, 2016, 30, 6365-6372.	2.5	93

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19	Predicting toxicity toHyalella aztecain pyrogenic-impacted sediments-Do we need to analyze for all 34 PAHs?. Integrated Environmental Assessment and Management, 2016, 12, 493-499.	1.6	1
20	Enhanced Oil Recovery in Liquid-Rich Shale Reservoirs: Laboratory to Field., 2015,,.		55
21	Sediment Bioaccumulation Test with Lumbriculus variegatus: Effects of Feeding. Archives of Environmental Contamination and Toxicology, 2015, 68, 696-706.	2.1	8
22	Review of polyoxymethylene passive sampling methods for quantifying freely dissolved porewater concentrations of hydrophobic organic contaminants. Environmental Toxicology and Chemistry, 2015, 34, 710-720.	2.2	42
23	A Rapid Method for Determining CO2/oil MMP and Visual Observations of CO2/Oil Interactions at Reservoir Conditions. Energy Procedia, 2014, 63, 7724-7731.	1.8	13
24	Passive sampling methods for contaminated sediments: Scientific rationale supporting use of freely dissolved concentrations. Integrated Environmental Assessment and Management, 2014, 10, 197-209.	1.6	153
25	Comparison of alkaline industrial wastes for aqueous mineral carbon sequestration through a parallel reactivity study. Waste Management, 2014, 34, 1815-1822.	3.7	19
26	Evaluation of PCB bioaccumulation by <i>Lumbriculus variegatus</i> in fieldâ€collected sediments. Environmental Toxicology and Chemistry, 2013, 32, 1495-1503.	2.2	18
27	Hydrocarbon Mobilization Mechanisms from Upper, Middle, and Lower Bakken Reservoir Rocks Exposed to CO2. , 2013 , , .		132
28	Comment on "Comprehensive Profiling of Coal Tar and Crude Oil to Obtain Mass Spectra and Retention Indices for Alkylated PAH Shows Why Current Methods Err― Environmental Science & Camp; Technology, 2012, 46, 11475-11476.	4.6	4
29	Investigating differential binding of polychlorinated dibenzo-p-dioxins/dibenzofurans in soil and soil components using selective supercritical fluid extraction. Chemosphere, 2012, 88, 261-269.	4.2	4
30	Improving Predictability of Sediment-Porewater Partitioning Models using Trends Observed with PCB-Contaminated Field Sediments. Environmental Science & Environmental Science & 2011, 45, 7365-7371.	4.6	33
31	Predicting Pore Water EPA-34 PAH Concentrations and Toxicity in Pyrogenic-Impacted Sediments Using Pyrene Content. Environmental Science & Environment	4.6	48
32	Measuring Picogram per Liter Concentrations of Freely Dissolved Parent and Alkyl PAHs (PAH-34), Using Passive Sampling with Polyoxymethylene. Analytical Chemistry, 2011, 83, 6754-6761.	3.2	80
33	Assessment of supercritical fluid extraction use in whole sediment toxicity identification evaluations. Environmental Toxicology and Chemistry, 2011, 30, 819-827.	2.2	7
34	Comparison of polymeric samplers for accurately assessing PCBs in pore waters. Environmental Toxicology and Chemistry, 2011, 30, 1288-1296.	2.2	61
35	An evaluation of the ability of chemical measurements to predict polycyclic aromatic hydrocarbonâ€contaminated sediment toxicity to <i>Hyalella azteca</i> . Environmental Toxicology and Chemistry, 2010, 29, 1545-1550.	2.2	26
36	Particle-Scale Measurement of PAH Aqueous Equilibrium Partitioning in Impacted Sediments. Environmental Science & Environmenta	4.6	37

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37	Response to Comment on "More of EPA's SPARC Online Calculator—The Need for High Quality Predictions of Chemical Properties― Environmental Science & Environmental Sci	4.6	3
38	Measuring Low Picogram Per Liter Concentrations of Freely Dissolved Polychlorinated Biphenyls in Sediment Pore Water Using Passive Sampling with Polyoxymethylene. Analytical Chemistry, 2009, 81, 9472-9480.	3.2	65
39	Solid-Phase-Microextraction Measurement of 62 Polychlorinated Biphenyl Congeners in Milliliter Sediment Pore Water Samples and Determination of <i>K</i> _{DOC} Values. Analytical Chemistry, 2009, 81, 6936-6943.	3.2	46
40	Laser-Induced Fluorescence Coupled with Solid-Phase Microextraction for In Situ Determination of PAHs in Sediment Pore Water. Environmental Science & Environmental Science & 2008, 42, 8021-8026.	4.6	23
41	Tracing Contributions of Benzene from Outdoor to Indoor Air. Environmental Forensics, 2008, 9, 96-106.	1.3	3
42	Predicting Bioavailability of Sediment Polycyclic Aromatic Hydrocarbons to <i>Hyalella azteca</i> using Equilibrium Partitioning, Supercritical Fluid Extraction, and Pore Water Concentrations. Environmental Science & Dechnology, 2007, 41, 6297-6304.	4.6	87
43	Predicting PAH Bioaccumulation and Toxicity in Earthworms Exposed to Manufactured Gas Plant Soils with Solid-Phase Microextraction. Environmental Science & Earthworms (2007, 41, 7472-7478).	4.6	109
44	Greatly reduced bioavailability and toxicity of polycyclic aromatic hydrocarbons to Hyalella azteca in sediments from manufacturedâ€gas plant sites. Environmental Toxicology and Chemistry, 2007, 26, 1146-1157.	2.2	31
45	SUPERCRITICAL CARBON DIOXIDE EXTRACTION AS A PREDICTOR OF POLYCYCLIC AROMATIC HYDROCARBON BIOACCUMULATION AND TOXICITY BY EARTHWORMS IN MANUFACTURED-GAS PLANT SITE SOILS. Environmental Toxicology and Chemistry, 2007, 26, 1809.	2.2	36
46	Measured partition coefficients for parent and alkyl polycyclic aromatic hydrocarbons in 114 historically contaminated sediments: Part 2. Testing the ⟨i⟩K⟨ i⟩⟨sub⟩OC⟨ sub⟩⟨i⟩K⟨ i⟩⟨sub⟩BC⟨ sub⟩ two carbon–type model. Environmental Toxicology and Chemistry, 2007, 26, 2505-2516.	2.2	58
47	MEASUREMENT OF TOTAL POLYCYCLIC AROMATIC HYDROCARBON CONCENTRATIONS IN SEDIMENTS AND TOXIC UNITS USED FOR ESTIMATING RISK TO BENTHIC INVERTEBRATES AT MANUFACTURED GAS PLANT SITES. Environmental Toxicology and Chemistry, 2006, 25, 287.	2.2	97
48	MEASURED PARTITIONING COEFFICIENTS FOR PARENT AND ALKYL POLYCYCLIC AROMATIC HYDROCARBONS IN 114 HISTORICALLY CONTAMINATED SEDIMENTS: PART 1. KOC VALUES. Environmental Toxicology and Chemistry, 2006, 25, 2901.	2.2	106
49	REDUCTION IN ACUTE TOXICITY OF SOILS TO TERRESTRIAL OLIGOCHAETES FOLLOWING THE REMOVAL OF BIOAVAILABLE POLYCYCLIC AROMATIC HYDROCARBONS WITH MILD SUPERCRITICAL CARBON DIOXIDE EXTRACTION. Environmental Toxicology and Chemistry, 2005, 24, 1893.	2.2	19
50	Improving Risk Assessments for Manufactured Gas Plant Soils by Measuring PAH Availability. Integrated Environmental Assessment and Management, 2005, 1, 259.	1.6	9
51	Extremely Slowly Desorbing Polycyclic Aromatic Hydrocarbons from Soot and Soot-like Materials:  Evidence by Supercritical Fluid Extraction. Environmental Science & Evidence & Supercritical Fluid Extraction. Environmental Science & Supercritical Fluid Extraction. Environmental En	4.6	109
52	Persistence and Biodegradation of Monoethanolamine and 2-Propanolamine at an Abandoned Industrial Site. Environmental Science & Environmental Science	4.6	28
53	Solid-Phase Microextraction Measurement of Parent and Alkyl Polycyclic Aromatic Hydrocarbons in Milliliter Sediment Pore Water Samples and Determination of KDOCValues. Environmental Science & Environmental Science & Environmental Science & Environmental Science & Environmental Science	4.6	116
54	Evidence for Very Tight Sequestration of BTEX Compounds in Manufactured Gas Plant Soils Based on Selective Supercritical Fluid Extraction and Soil/Water Partitioning. Environmental Science & Environmental &	4.6	33

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55	Comparing PAH Availability from Manufactured Gas Plant Soils and Sediments with Chemical and Biological Tests. 1. PAH Release during Water Desorption and Supercritical Carbon Dioxide Extraction. Environmental Science & Env	4.6	118
56	Zero-valent metal accelerators for the dechlorination of pentachlorophenol (PCP) in subcritical water. Green Chemistry, 2002, 4, 17-23.	4.6	24
57	Thermodynamic and kinetic models for the extraction of essential oil from savory and polycyclic aromatic hydrocarbons from soil with hot (subcritical) water and supercritical CO2. Journal of Chromatography A, 2002, 975, 175-188.	1.8	100
58	PAH Release during Water Desorption, Supercritical Carbon Dioxide Extraction, and Field Bioremediation. Environmental Science & Environmental Science	4.6	78
59	Selective extraction of oxygenates from savory and peppermint using subcritical water. Flavour and Fragrance Journal, 2001, 16, 64-73.	1.2	113
60	Subsurface Transport and Fate of Natural Gas Processing Wastes: Implications for Risk Assessment and Remediation. , 2001, , .		0
61	Comparisons of Soxhlet extraction, pressurized liquid extraction, supercritical fluid extraction and subcritical water extraction for environmental solids: recovery, selectivity and effects on sample matrix. Journal of Chromatography A, 2000, 892, 421-433.	1.8	378
62	Introducing selective supercritical fluid extraction as a new tool for determining sorption/desorption behavior and bioavailability of persistent organic pollutants in sediment. Journal of Proteomics, 2000, 43, 295-311.	2.4	61
63	Pilot-Scale Destruction of TNT, RDX, and HMX on Contaminated Soils Using Subcritical Water. Environmental Science & Environmen	4.6	75
64	Correlating Selective Supercritical Fluid Extraction with Bioremediation Behavior of PAHs in a Field Treatment Plot. Environmental Science & Environme	4.6	103
65	Response to Comments on Adsorption versus Absorption of Polychlorinated Biphenyls onto Solid-Phase Microextraction Coatings. Analytical Chemistry, 2000, 72, 642-643.	3.2	99
66	Pilot-Scale Subcritical Water Remediation of Polycyclic Aromatic Hydrocarbon- and Pesticide-Contaminated Soil. Environmental Science & Environmental Science & 1542-1548.	4.6	142
67	Solubility of Liquid Organics of Environmental Interest in Subcritical (Hot/Liquid) Water from 298 K to 473 K. Journal of Chemical & Engineering Data, 2000, 45, 78-81.	1.0	75
68	Vaporization of Polycyclic Aromatic Hydrocarbons (PAHs) from Sediments at Ambient Conditions. Environmental Science & Environm	4.6	41
69	Solubility of Liquid Organic Flavor and Fragrance Compounds in Subcritical (Hot/Liquid) Water from 298 K to 473 K. Journal of Chemical & Engineering Data, 2000, 45, 315-318.	1.0	89
70	Heterogenic catalytic hydrolysis and analysis of natural pyrethrins in subcritical water coupled with solid phase microextraction (SPME) and GC-MS. Fresenius' Journal of Analytical Chemistry, 1999, 364, 625-630.	1.5	11
71	Determining PCB Sorption/Desorption Behavior on Sediments Using Selective Supercritical Fluid Extraction. 2. Describing PCB Extraction with Simple Diffusion Models. Environmental Science & Eamp; Technology, 1999, 33, 2204-2212.	4.6	32
72	Determining PCB Sorption/Desorption Behavior on Sediments Using Selective Supercritical Fluid Extraction. 1. Desorption from Historically Contaminated Samples. Environmental Science & Emp; Technology, 1999, 33, 2193-2203.	4.6	70

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73	Determining PCB Sorption/Desorption Behavior on Sediments Using Selective Supercritical Fluid Extraction. 3. Sorption from Water. Environmental Science & Extraction. 3. Sorption from Water. 3. Sorpt	4.6	45
74	Method for Determining the Solubilities of Hydrophobic Organics in Subcritical Water. Analytical Chemistry, 1998, 70, 1618-1621.	3.2	162
75	Class-Selective Extraction of Polar, Moderately Polar, and Nonpolar Organics from Hydrocarbon Wastes Using Subcritical Water. Environmental Science & Environmental Science & 1997, 31, 430-437.	4.6	136
76	Subcritical Water Chromatography with Flame Ionization Detection. Analytical Chemistry, 1997, 69, 623-627.	3.2	139
77	Determination of Aromatic Compounds in Water by Solid Phase Microextraction and Ultraviolet Absorption Spectroscopy. 1. Methodology. Analytical Chemistry, 1997, 69, 1197-1203.	3.2	57
78	Toluene Solubility in Water and Organic Partitioning from Gasoline and Diesel Fuel into Water at Elevated Temperatures and Pressures. Journal of Chemical & Engineering Data, 1997, 42, 908-913.	1.0	53
79	Solubility of Polycyclic Aromatic Hydrocarbons in Supercritical Carbon Dioxide from 313 K to 523 K and Pressures from 100 bar to 450 bar. Journal of Chemical & Engineering Data, 1996, 41, 779-786.	1.0	113
80	Quantitative Analysis of Fuel-Related Hydrocarbons in Surface Water and Wastewater Samples by Solid-Phase Microextraction. Analytical Chemistry, 1996, 68, 144-155.	3.2	203
81	Vaporâ€Phase and Particulateâ€Associated Pesticides and PCB Concentrations in Eastern North Dakota Air Samples. Journal of Environmental Quality, 1996, 25, 594-600.	1.0	30
82	Kinetic Study of Supercritical Fluid Extraction of Organic Contaminants from Heterogeneous Environmental Samples with Carbon Dioxide and Elevated Temperatures. Analytical Chemistry, 1995, 67, 1727-1736.	3.2	128
83	Effect of SFE Flow Rate on Extraction Rates: Classifying Sample Extraction Behavior. Analytical Chemistry, 1995, 67, 2723-2732.	3.2	85
84	Determination of Solubilities of Organic Solutes in Supercritical CO2 by Online Flame Ionization Detection. Analytical Chemistry, 1995, 67, 273-279.	3.2	49
85	Effect of the matrix on the kinetics of dynamic supercritical fluid extraction. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 1333.	1.7	25
86	Supercritical fluid extraction with carbon dioxide for the determination of total petroleum hydrocarbons in soil. Fuel, 1993, 72, 1015-1023.	3.4	45
87	Coupled solid phase extraction-supercritical fluid extraction-on-line gas chromatography of explosives from water. Journal of High Resolution Chromatography, 1993, 16, 473-478.	2.0	20
88	Comparison of hydrodistillation and supercritical fluid extraction for the determination of essential oils in aromatic plants. Journal of Chromatography A, 1993, 634, 297-308.	1.8	91
89	Supercritical Fluid Extraction of Polar Analytes Using Modified CO ₂ and In Situ Chemical Derivation. ACS Symposium Series, 1992, , 165-178.	0.5	3
90	Analytical-Scale Extraction of Environmental Samples Using Supercritical Fluids. ACS Symposium Series, 1992, , 206-221.	0.5	4

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91	The Effect of solubility on the kinetics of dynamic supercritical-fluid extraction. Journal of Supercritical Fluids, 1992, 5, 207-212.	1.6	60
92	A model for dynamic extraction using a supercritical fluid. Journal of Supercritical Fluids, 1990, 3, 143-149.	1.6	199
93	Coupled SFE-GC: A Rapid and Simple Technique for Extracting, Identifying, and Quantitating Organic Analytes from Solids and Sorbent Resins. Journal of Chromatographic Science, 1989, 27, 347-354.	0.7	99
94	Preparation of deuterated aromatic hydrocarbons, heteroatom-containing aromatics, and polychlorinated biphenyls as internal standards for GC/MS analysis. Fresenius Zeitschrift FÃ $\frac{1}{4}$ r Analytische Chemie, 1989, 334, 421-426.	0.7	16