

Wolfgang Schrader

List of Publications by Year in descending order

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65
papers

2,162
citations

218677

26
h-index

233421

45
g-index

72
all docs

72
docs citations

72
times ranked

1569
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a Non-Targeted Method to Study Petroleum Polyaromatic Hydrocarbons in Soil by Ultrahigh Resolution Mass Spectrometry Using Multiple Ionization Methods. Polycyclic Aromatic Compounds, 2022, 42, 643-658.	2.6	14
2	Trash-to-fuel: Converting municipal waste into transportation fuels by pyrolysis. IScience, 2022, 25, 104036.	4.1	3
3	Investigating molecular transformation processes of biodiesel components during long-term storage via high resolution mass spectrometry. ChemSusChem, 2022, , .	6.8	3
4	Flexibilization of Biorefineries: Tuning Lignin Hydrogenation by Hydrogen Partial Pressure. ChemSusChem, 2021, 14, 373-378.	6.8	8
5	Qualitative and Quantitative Evaluation of Sulfur-Containing Compound Types in Heavy Crude Oil and Its Fractions. Energy & Fuels, 2021, 35, 8723-8732.	5.1	18
6	Studying the Complexity of Biomass Derived Biofuels. Energies, 2021, 14, 2032.	3.1	3
7	Study of Crude Oil Fouling from Sulfur-Containing Compounds Using High-Resolution Mass Spectrometry. Energy & Fuels, 2021, 35, 13022-13029.	5.1	7
8	Getting a better overview of a highly PAH contaminated soil: A non-targeted approach assessing the real environmental contamination. Journal of Hazardous Materials, 2021, 418, 126352.	12.4	11
9	Understanding "Fouling" in Extremely Complex Petroleum Mixtures. ACS Applied Energy Materials, 2020, 3, 7251-7256.	5.1	9
10	Modified SARA Method to Unravel the Complexity of Resin Fraction(s) in Crude Oil. Energy & Fuels, 2020, 34, 16006-16013.	5.1	21
11	Studying Natural Buckyballs and Buckybowls in Fossil Materials. Angewandte Chemie, 2020, 132, 15118-15123.	2.0	1
12	Studying Natural Buckyballs and Buckybowls in Fossil Materials. Angewandte Chemie - International Edition, 2020, 59, 15008-15013.	13.8	8
13	Evaluation of the combination of different atmospheric pressure ionization sources for the analysis of extremely complex mixtures. Rapid Communications in Mass Spectrometry, 2020, 34, e8676.	1.5	15
14	A Detailed Look at the Saturate Fractions of Different Crude Oils Using Direct Analysis by Ultrahigh Resolution Mass Spectrometry (UHRMS). Energies, 2019, 12, 3455.	3.1	9
15	High-resolution GC/MS studies of a light crude oil fraction. Journal of Mass Spectrometry, 2019, 54, 47-54.	1.6	35
16	Optimized asphaltene separation by online coupling of size exclusion chromatography and ultrahigh resolution mass spectrometry. Fuel, 2018, 215, 631-637.	6.4	14
17	Comparing Crude Oils with Different API Gravities on a Molecular Level Using Mass Spectrometric Analysis. Part 1: Whole Crude Oil. Energies, 2018, 11, 2766.	3.1	23
18	Comparing Crude Oils with Different API Gravities on a Molecular Level Using Mass Spectrometric Analysis. Part 2: Resins and Asphaltenes. Energies, 2018, 11, 2767.	3.1	22

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19	Studying the fragmentation mechanism of selected components present in crude oil by collision-induced dissociation mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 2141-2151.	1.5	15
20	Mass Spectrometric Coverage of Complex Mixtures: Exploring the Carbon Space of Crude Oil. <i>ChemistrySelect</i> , 2017, 2, 849-853.	1.5	30
21	Argentation chromatography coupled to ultrahigh-resolution mass spectrometry for the separation of a heavy crude oil. <i>Journal of Chromatography A</i> , 2017, 1484, 41-48.	3.7	10
22	Characterization of crude oil asphaltenes by coupling size-exclusion chromatography directly to an ultrahigh-resolution mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 495-502.	1.5	16
23	Quantitative und qualitative Analyse dreier Klassen von Schwefelverbindungen in Erdöl. <i>Angewandte Chemie</i> , 2017, 129, 11073-11077.	2.0	4
24	Quantitative and Qualitative Analysis of Three Classes of Sulfur Compounds in Crude Oil. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10933-10937.	13.8	28
25	Application of phase correction to improve the characterization of photooxidation products of lignin using 7-Tesla Fourier-transform ion cyclotron resonance mass spectrometry. <i>Facets</i> , 2017, 2, 461-475.	2.4	12
26	Functionality, Effectiveness, and Mechanistic Evaluation of a Multicatalyst-Promoted Reaction Sequence by Electrospray Ionization Mass Spectrometry. <i>Chemistry - A European Journal</i> , 2015, 21, 16203-16208.	3.3	10
27	Selective Analysis of Sulfur-Containing Species in a Heavy Crude Oil by Deuterium Labeling Reactions and Ultrahigh Resolution Mass Spectrometry. <i>International Journal of Molecular Sciences</i> , 2015, 16, 30133-30143.	4.1	20
28	Electrospray ionization for determination of non-polar polyaromatic hydrocarbons and polyaromatic heterocycles in heavy crude oil asphaltenes. <i>Journal of Mass Spectrometry</i> , 2015, 50, 549-557.	1.6	45
29	1- and 2-Photon Ionization for Online FAIMS-FTMS Coupling Allows New Insights into the Constitution of Crude Oils. <i>Analytical Chemistry</i> , 2015, 87, 8874-8879.	6.5	16
30	New Separation Approach for Asphaltene Investigation: Argentation Chromatography Coupled with Ultrahigh-Resolution Mass Spectrometry. <i>Energy & Fuels</i> , 2015, 29, 6224-6230.	5.1	20
31	Online normal-phase high-performance liquid chromatography/Fourier transform ion cyclotron resonance mass spectrometry: Effects of different ionization methods on the characterization of highly complex crude oil mixtures. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 1345-1352.	1.5	36
32	Studying Ultra-Complex Crude Oil Mixtures by Using High-Field Asymmetric Waveform Ion Mobility Spectrometry (FAIMS) Coupled to an Electrospray Ionisation-LTQ-Orbitrap Mass Spectrometer. <i>European Journal of Mass Spectrometry</i> , 2014, 20, 43-49.	1.0	21
33	Direct Coupling of Normal-Phase High-Performance Liquid Chromatography to Atmospheric Pressure Laser Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry for the Characterization of Crude Oil. <i>Analytical Chemistry</i> , 2013, 85, 9478-9485.	6.5	51
34	Deep Well Deposits: Effects of Extraction on Mass Spectrometric Results. <i>Energy & Fuels</i> , 2013, 27, 1236-1245.	5.1	13
35	Impact of Different Ionization Methods on the Molecular Assignments of Asphaltenes by FT-ICR Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 5257-5267.	6.5	91
36	Characterization of Saturates, Aromatics, Resins, and Asphaltenes Heavy Crude Oil Fractions by Atmospheric Pressure Laser Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2012, 26, 3481-3487.	5.1	116

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37	Expanding the data depth for the analysis of complex crude oil samples by Fourier transform ion cyclotron resonance mass spectrometry using the spectral stitching method. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 1047-1052.	1.5	42
38	High-molecular weight sulfur-containing aromatics refractory to weathering as determined by Fourier transform ion cyclotron resonance mass spectrometry. <i>Chemosphere</i> , 2012, 89, 205-212.	8.2	27
39	Electrospray mass spectrometry for detailed mechanistic studies of a complex organocatalyzed triple cascade reaction. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 1047-1053.	2.8	14
40	Atmospheric pressure laser ionization (APLI) coupled with Fourier transform ion cyclotron resonance mass spectrometry applied to petroleum samples analysis: comparison with electrospray ionization and atmospheric pressure photoionization methods. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 2317-2326.	1.5	57
41	Characterization of Supercomplex Crude Oil Mixtures: What Is Really in There?. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1788-1791.	13.8	143
42	Characterization of Key Intermediates in a Complex Organocatalytic Cascade Reaction Using Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1463-1466.	13.8	90
43	Development of Fourier Transform-Ion Cyclotron Resonance Mass Spectrometry Protocol for the Analysis of Asphaltene Field Samples and Solubility Fractions. , 2009, , .		0
44	Fourier transform ion cyclotron resonance mass spectrometry in the speciation of high molecular weight sulfur heterocycles in vacuum gas oils of different boiling ranges. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 392, 839-848.	3.7	37
45	Characterization of non-polar aromatic hydrocarbons in crude oil using atmospheric pressure laser ionization and Fourier transform ion cyclotron resonance mass spectrometry (APLI FT-ICR MS). <i>Analyst</i> , The, 2008, 133, 867.	3.5	59
46	Investigating organocatalytic reactions: mass spectrometric studies of a conjugate umpolung reaction. <i>Chemical Communications</i> , 2007, , 716-718.	4.1	67
47	Distribution of Polycyclic Aromatic Sulfur Heterocycles in Three Saudi Arabian Crude Oils as Determined by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2007, 21, 1071-1077.	5.1	82
48	Detailed Study on the Use of Electrospray Mass Spectrometry To Investigate Speciation in Concentrated Silicate Solutions. <i>Analytical Chemistry</i> , 2007, 79, 6005-6012.	6.5	27
49	Mass-spectrometric analysis of complex volatile and nonvolatile crude oil components: a challenge. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 1329-1339.	3.7	70
50	Monitoring Temporal Evolution of Silicate Species during Hydrolysis and Condensation of Silicates Using Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2006, 128, 4310-4317.	13.7	126
51	Î²-Cyclodextrin as a stationary phase for the group separation of polycyclic aromatic compounds in normal-phase liquid chromatography. <i>Journal of Chromatography A</i> , 2006, 1122, 88-96.	3.7	58
52	Studies of complex reactions using modern hyphenated methods: Î±-Pinene ozonolysis as a model reaction. <i>Journal of Chromatography A</i> , 2005, 1075, 185-196.	3.7	14
53	Atmosphere, a Chemical Reactor? Formation Pathways of Secondary Organic Aerosols. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1444-1446.	13.8	5
54	Mass Spectrometric Studies of DNA Adducts from a Reaction with Terpenoids. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 506-506.	13.8	0

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55	Atmosphere, a Chemical Reactor " Formation Pathways of Secondary Organic Aerosols. ChemInform, 2005, 36, no.	0.0	0
56	Characterization of High-Molecular-Weight Sulfur-Containing Aromatics in Vacuum Residues Using Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Analytical Chemistry, 2005, 77, 2536-2543.	6.5	155
57	Liquid chromatography/Fourier transform ion cyclotron resonance mass spectrometry (LC-FTICR MS): an early overview. Analytical and Bioanalytical Chemistry, 2004, 379, 1013-24.	3.7	44
58	Mass Spectrometric Studies of DNA Adducts from a Reaction with Terpenoids. Angewandte Chemie - International Edition, 2004, 43, 6657-6660.	13.8	7
59	Degradation of α -Pinene on Tenax during Sample Storage: Effects of Daylight Radiation and Temperature. Environmental Science & Technology, 2001, 35, 2717-2720.	10.0	23
60	Synthesis of Seven Trimethyldibenzothiophenes. Polycyclic Aromatic Compounds, 2001, 18, 351-360.	2.6	4
61	<i>An Analytical Approach for a Comprehensive Study of Organic Aerosols</i> The financial support by the Bundesministerium für Bildung und Forschung and the Senatsverwaltung für Wissenschaft, Forschung und Kultur des Landes Berlin (ISAS Berlin), and the Ministerium für Schule, Wissenschaft und Forschung NRW (ISAS Dortmund) is gratefully acknowledged. The authors want to thank U.		