

Pierre Giusti

List of Publications by Year in descending order

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74
papers

1,655
citations

236925

25
h-index

330143

37
g-index

75
all docs

75
docs citations

75
times ranked

1162
citing authors

#	ARTICLE	IF	CITATIONS
1	Deeper investigation of oxygen-containing compounds in oleaginous feedstock (animal fat) by preparative column chromatography and comprehensive two-dimensional gas chromatography coupled with high-resolution time-of-flight mass spectrometry. <i>Talanta</i> , 2022, 238, 123019.	5.5	2
2	Molecular analysis of nitrogen-containing compounds in vacuum gas oils hydrodenitrogenation by (ESI+/-)-FTICR-MS. <i>Fuel</i> , 2022, 323, 124302.	6.4	5
3	Characterization of Crude Oil Molecules Adsorbed onto Carbonate Rock Surface Using LDI FT-ICR MS. <i>Energy & Fuels</i> , 2022, 36, 6159-6166.	5.1	1
4	Speciation and Semiquantification of Nitrogen-Containing Species in Complex Mixtures: Application to Plastic Pyrolysis Oil. <i>ACS Omega</i> , 2022, 7, 19428-19436.	3.5	6
5	Fractionation by flash chromatography and molecular characterization of bio-oil by ultra-high-resolution mass spectrometry and NMR spectroscopy. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 166, 105611.	5.5	8
6	Advanced mono- and multi-dimensional gas chromatography-mass spectrometry techniques for oxygen-containing compound characterization in biomass and biofuel samples. <i>Journal of Separation Science</i> , 2021, 44, 115-134.	2.5	15
7	Cyclic Ion Mobility Spectrometry Coupled to High-Resolution Time-of-Flight Mass Spectrometry Equipped with Atmospheric Solid Analysis Probe for the Molecular Characterization of Combustion Particulate Matter. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 206-217.	2.8	6
8	Direct Insertion Analysis of Polymer-Modified Bitumen by Atmospheric Pressure Chemical Ionization Ultrahigh-Resolution Mass Spectrometry. <i>Energy & Fuels</i> , 2021, 35, 2165-2173.	5.1	5
9	Structural analysis of petroporphyrins from asphaltene by trapped ion mobility coupled with Fourier transform ion cyclotron resonance mass spectrometry. <i>Analyst</i> , 2021, 146, 4161-4171.	3.5	11
10	Exploring Complex Mixtures by Cyclic Ion Mobility High-Resolution Mass Spectrometry: Application Toward Petroleum. <i>Analytical Chemistry</i> , 2021, 93, 5872-5881.	6.5	25
11	Advances and Challenges in the Molecular Characterization of Petroporphyrins. <i>Energy & Fuels</i> , 2021, 35, 18056-18077.	5.1	23
12	Effect of the Ionization Source on the Targeted Analysis of Nickel and Vanadyl Porphyrins in Crude Oil. <i>Energy & Fuels</i> , 2021, 35, 14542-14552.	5.1	4
13	Reactive Desorption Electrospray Ionization Mass Spectrometry To Determine Intrinsic Degradability of Poly(lactic-co-glycolic acid) Chains. <i>Analytical Chemistry</i> , 2021, 93, 12041-12048.	6.5	4
14	Study of Biocrudes Obtained via Hydrothermal Liquefaction (HTL) of Wild Alga Consortium under Different Conditions. <i>Processes</i> , 2021, 9, 1494.	2.8	10
15	Characterization of Heavy Products from Lignocellulosic Biomass Pyrolysis by Chromatography and Fourier Transform Mass Spectrometry: A Review. <i>Energy & Fuels</i> , 2021, 35, 17979-18007.	5.1	22
16	Comprehensive Chemical Description of Pyrolysis Chars from Low-Density Polyethylene by Thermal Analysis Hyphenated to Different Mass Spectrometric Approaches. <i>Energy & Fuels</i> , 2021, 35, 18185-18193.	5.1	9
17	Distributed Properties of Asphaltene Nanoaggregates in Crude Oils: A Review. <i>Energy & Fuels</i> , 2021, 35, 18078-18103.	5.1	37
18	Molecular Characterization of a Mixed Plastic Pyrolysis Oil from Municipal Wastes by Direct Infusion Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2021, 35, 14828-14837.	5.1	8

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19	Lessons Learned from a Decade-Long Assessment of Asphaltenes by Ultrahigh-Resolution Mass Spectrometry and Implications for Complex Mixture Analysis. <i>Energy & Fuels</i> , 2021, 35, 16335-16376.	5.1	21
20	Petroleomics at the National High Magnetic Field Laboratory: A Pictorial History. <i>Energy & Fuels</i> , 2021, 35, 17973-17978.	5.1	0
21	Paraffin-Inert Atmospheric Solid Analysis Probe: A Fast and Easy Approach To Characterize Extremely Air-Sensitive Organometallic Complexes by Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 2922-2925.	6.5	3
22	Careful Investigations of PTV Injection Parameters for the Analysis of Vacuum Gas Oil by High-Temperature Comprehensive GC-MS. <i>Energy & Fuels</i> , 2020, 34, 12010-12017.	5.1	10
23	Understanding the Vanadium-Asphaltene Nanoaggregate Link with Silver Triflate Complexation and GPC ICP-MS Analysis. <i>Energy & Fuels</i> , 2020, 34, 13759-13766.	5.1	8
24	Understanding Asphaltene Fraction Behavior through Combined Quartz Crystal Resonator Sensor, FT-ICR MS, GPC ICP HR-MS, and AFM Characterization. Part I: Extrography Fractionations. <i>Energy & Fuels</i> , 2020, 34, 13903-13915.	5.1	23
25	Fractionation and Characterization of Petroleum Asphaltene: Focus on Metalopetroleomics. <i>Processes</i> , 2020, 8, 1504.	2.8	38
26	Chemical Characterization Using Different Analytical Techniques to Understand Processes: The Case of the Paraffinic Base Oil Production Line. <i>Processes</i> , 2020, 8, 1472.	2.8	3
27	Probing Aggregation Tendencies in Asphaltenes by Gel Permeation Chromatography. Part 2: Online Detection by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry and Inductively Coupled Plasma Mass Spectrometry. <i>Energy & Fuels</i> , 2020, 34, 10915-10925.	5.1	26
28	Characterization of Polyethylene Branching by Thermal Analysis-Photoionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 2362-2369.	2.8	2
29	Speciation of Metals in Asphaltenes by High-Performance Thin-Layer Chromatography and Solid-Liquid Extraction Hyphenated with Elemental and Molecular Identification. <i>Energy & Fuels</i> , 2020, 34, 12449-12456.	5.1	7
30	Compositional Trends for Total Vanadium Content and Vanadyl Porphyrins in Gel Permeation Chromatography Fractions Reveal Correlations between Asphaltene Aggregation and Ion Production Efficiency in Atmospheric Pressure Photoionization. <i>Energy & Fuels</i> , 2020, 34, 16158-16172.	5.1	25
31	Probing Aggregation Tendencies in Asphaltenes by Gel Permeation Chromatography. Part 1: Online Inductively Coupled Plasma Mass Spectrometry and Offline Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2020, 34, 8308-8315.	5.1	26
32	Mass Spectrometry-Based Analytical Strategy for Comprehensive Molecular Characterization of Biodegradable Poly(lactic-co-glycolic Acid) Copolymers. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1554-1562.	2.8	9
33	Structural Analysis of Neutral Nitrogen Compounds Refractory to the Hydrodenitrogenation Process of Heavy Oil Fractions by High-Resolution Tandem Mass Spectrometry and Ion Mobility-Mass Spectrometry. <i>Energy & Fuels</i> , 2020, 34, 9328-9338.	5.1	10
34	Quantitative multiplexed elemental (C, H, N and S) detection in complex mixtures using gas chromatography. <i>Chemical Communications</i> , 2020, 56, 2905-2908.	4.1	3
35	Dealing with complexity: general discussion. <i>Faraday Discussions</i> , 2019, 218, 138-156.	3.2	1
36	Data mining and visualisation: general discussion. <i>Faraday Discussions</i> , 2019, 218, 354-371.	3.2	2

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37	Future challenges and new approaches: general discussion. <i>Faraday Discussions</i> , 2019, 218, 505-523.	3.2	1
38	Structural analysis of heavy oil fractions after hydrodenitrogenation by high-resolution tandem mass spectrometry and Åion mobility spectrometry. <i>Faraday Discussions</i> , 2019, 218, 417-430.	3.2	43
39	Speciation of Metals in Asphaltenes by High-Performance Thin-Layer Chromatography and Laser Ablation Inductively Coupled Plasma-Mass Spectrometry. <i>Energy & Fuels</i> , 2019, 33, 6060-6068.	5.1	8
40	Structural Study of Analogues of Titanâ€™s Haze by Trapped Ion Mobility Coupled with a Fourier Transform Ion Cyclotron Mass Spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1169-1173.	2.8	12
41	Comprehensive Petroporphyrin Identification in Crude Oils Using Highly Selective Electron Transfer Reactions in MALDI-FTICR-MS. <i>Energy & Fuels</i> , 2019, 33, 3899-3907.	5.1	38
42	Molecular Fingerprints and Speciation of Crude Oils and Heavy Fractions Revealed by Molecular and Elemental Mass Spectrometry: Keystone between Petroleomics, Metallopetroleomics, and Petrointeractomics. <i>Energy & Fuels</i> , 2018, 32, 4593-4605.	5.1	36
43	18th International Conference on Petroleum Phase Behavior and Fouling. <i>Energy & Fuels</i> , 2018, 32, 2641-2641.	5.1	6
44	Recent trends in element speciation analysis of crude oils and heavy petroleum fractions. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 104, 69-76.	11.4	33
45	Synthesis, APPI Mass-Spectrometric Characterization, and Polymerization Studies of Group 4 Dinuclear Bis(ansa-metallocene) Complexes. <i>Catalysts</i> , 2018, 8, 558.	3.5	5
46	Analysis of Petroleum Products by Gel Permeation Chromatography Coupled Online with Inductively Coupled Plasma Mass Spectrometry and Offline with Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2018, 32, 12198-12204.	5.1	24
47	Characterization of Crude Oil Interfacial Material Isolated by the Wet Silica Method. Part 2: Dilatational and Shear Interfacial Properties. <i>Energy & Fuels</i> , 2017, 31, 1072-1081.	5.1	17
48	Size Distributions of Sulfur, Vanadium, and Nickel Compounds in Crude Oils, Residues, and Their Saturate, Aromatic, Resin, and Asphaltene Fractions Determined by Gel Permeation Chromatography Inductively Coupled Plasma High-Resolution Mass Spectrometry. <i>Energy & Fuels</i> , 2017, 31, 7783-7788.	5.1	37
49	Characterization of Polyolefin Pyrolysis Species Produced Under Ambient Conditions by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry and Ion Mobility-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 507-514.	2.8	16
50	Characterization of Crude Oil Interfacial Material Isolated by the Wet Silica Method. Part 1: Gel Permeation Chromatography Inductively Coupled Plasma High-Resolution Mass Spectrometry Analysis. <i>Energy & Fuels</i> , 2017, 31, 1065-1071.	5.1	21
51	Effective Ion Mobility Peak Width as a New Isomeric Descriptor for the Untargeted Analysis of Complex Mixtures Using Ion Mobility-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 2476-2482.	2.8	29
52	The role of metalloporphyrins on the physical-chemical properties of petroleum fluids. <i>Fuel</i> , 2017, 188, 374-381.	6.4	46
53	Study of the Aggregation of Metal Complexes with Asphaltenes Using Gel Permeation Chromatography Inductively Coupled Plasma High-Resolution Mass Spectrometry. <i>Energy & Fuels</i> , 2016, 30, 6907-6912.	5.1	27
54	Comparison of Atmospheric Pressure Ionization for the Analysis of Heavy Petroleum Fractions with Ion Mobility-Mass Spectrometry. <i>Energy & Fuels</i> , 2016, 30, 8896-8903.	5.1	56

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55	Petroleomics by Direct Analysis in Real Time-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 182-185.	2.8	25
56	Atmospheric solid analysis probe mass spectrometry vs electrospray tandem mass spectrometry of polydimethylsiloxanes in positive and negative ionization modes. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 982-986.	1.5	12
57	Comparison of cryogenic and differential flow (forward and reverse fill/flush) modulators and applications to the analysis of heavy petroleum cuts by high-temperature comprehensive gas chromatography. <i>Journal of Chromatography A</i> , 2015, 1387, 95-103.	3.7	45
58	Rapid analysis of polyester and polyethylene blends by ion mobility-mass spectrometry. <i>Polymer Chemistry</i> , 2014, 5, 3576-3582.	3.9	28
59	Study of the Size Distribution of Sulfur, Vanadium, and Nickel Compounds in Four Crude Oils and Their Distillation Cuts by Gel Permeation Chromatography Inductively Coupled Plasma High-Resolution Mass Spectrometry. <i>Energy & Fuels</i> , 2014, 28, 3730-3737.	5.1	43
60	Identification of Ion Series Using Ion Mobility Mass Spectrometry: The Example of Alkyl-Benzothiophene and Alkyl-Dibenzothiophene Ions in Diesel Fuels. <i>Analytical Chemistry</i> , 2013, 85, 5530-5534.	6.5	20
61	Atmospheric Solid Analysis Probe Ion Mobility Mass Spectrometry of Polypropylene. <i>Analytical Chemistry</i> , 2012, 84, 9349-9354.	6.5	57
62	High-Performance Thin-Layer Chromatography Using Automated Multiple Development for the Separation of Heavy Petroleum Products According to Their Number of Aromatic Rings. <i>Energy & Fuels</i> , 2011, 25, 4586-4594.	5.1	23
63	ICP-MS-assisted nanoHPLC-electrospray Q/time-of-flight MS/MS selenopeptide mapping in Brazil nuts. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 41-50.	3.0	50
64	Flow-injection ICP collision cell MS determination of molybdenum, nickel and vanadium in petroleum samples using a modified total consumption micronebulizer. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 88-92.	3.0	50
65	Precolumn Isotope Dilution Analysis in nanoHPLC-ICPMS for Absolute Quantification of Sulfur-Containing Peptides. <i>Analytical Chemistry</i> , 2007, 79, 2859-2868.	6.5	69
66	Selenopeptide mapping in a selenium yeast protein digest by parallel nanoHPLC-ICP-MS and nanoHPLC-electrospray-MS/MS after on-line preconcentration. <i>Journal of Analytical Atomic Spectrometry</i> , 2006, 21, 26-32.	3.0	50
67	Detection and characterization of artefact compounds during selenium speciation analysis in yeast by ICP-MS-assisted MALDI MS, oMALDI MS/MS and LC-ES-MS/MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2006, 21, 703-707.	3.0	18
68	Identification of new selenium non-peptide species in selenised yeast by nanoHPLC electrospray Q/time-of-flight-MS/MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2006, 21, 655-665.	3.0	24
69	Development of a Nebulizer for a Sheathless Interfacing of NanoHPLC and ICPMS. <i>Analytical Chemistry</i> , 2006, 78, 965-971.	6.5	76
70	BIOACCUMULATION OF DDT PESTICIDE IN CULTURED ASIAN SEABASS FOLLOWING DIETARY EXPOSURE. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2005, 68, 51-65.	2.3	17
71	Interfacing reversed-phase nanoHPLC with ICP-MS and on-line isotope dilution analysis for the accurate quantification of selenium-containing peptides in protein tryptic digests. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 1101.	3.0	79
72	Ultratrace determination of uranium and plutonium by nano-volume flow injection double-focusing sector field inductively coupled plasma mass spectrometry (nFI-ICP-SFMS). <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 17-21.	3.0	88

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73	Extraction of Crude Oil Endogenous Surfactants by an Optimum Three-Phase Microemulsion System: Relation between Interfacial Behavior and a Molecular Fingerprint Obtained by Ultrahigh-Resolution Mass Spectrometry. Energy & Fuels, 0, , .	5.1	4
74	Tracking Changes in Asphaltene Nanoaggregate Size Distributions as a Function of Silver Complexation via Gel Permeation Chromatography Inductively Coupled Plasma Mass Spectrometry. Energy & Fuels, 0, , .	5.1	3