Jan E Szulejko

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1322087/publications.pdf

Version: 2024-02-01

126907 168389 3,463 105 33 53 citations g-index h-index papers 107 107 107 3640 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Is mass-scale electrocatalysis of aqueous methanol an energetically and economically viable option for hydrogen production?. Journal of Industrial and Engineering Chemistry, 2022, 105, 58-62.	5.8	7
2	Removal of gaseous benzene by a fixed-bed system packed with a highly porous metal-organic framework (MOF-199) coated glass beads. Environmental Research, 2022, 208, 112655.	7.5	8
3	A quantitation method for gaseous formaldehyde based on gas chromatography with metal–organic framework cold-trap sorbent as an effective alternative for HPLC-based standard protocol. Microchemical Journal, 2021, 160, 105624.	4.5	12
4	Proof of concept for CUK family metal-organic frameworks as environmentally-friendly adsorbents for benzene vapor. Environmental Pollution, 2021, 285, 117491.	7.5	14
5	Evidence of inter-species swing adsorption between aromatic hydrocarbons. Environmental Research, 2020, 181, 108814.	7.5	13
6	The effects of continuous- and stop-flow gas streams on adsorptive removal of benzene vapor using type – II covalent organic polymers. Environmental Research, 2020, 182, 109043.	7.5	13
7	Chemisorption of hydrogen sulfide by metal-organic frameworks and covalent-organic polymers based on experimental/theoretical evaluation. Journal of Cleaner Production, 2020, 250, 119486.	9.3	35
8	The potential utility of HKUST-1 for adsorptive removal of benzene vapor from gaseous streams using a denuder versus a packed-bed adsorption system. Journal of Cleaner Production, 2020, 275, 122359.	9.3	25
9	Utilization of metal–organic frameworks for the adsorptive removal of an aliphatic aldehyde mixture in the gas phase. Nanoscale, 2020, 12, 8330-8343.	5.6	25
10	Is the maximum adsorption capacity obtained at high VOC pressures (>1000‬Pa) really meaningful in real-world applications for the sorptive removal of VOCs under ambient conditions (<1‬Pa)?. Separation and Purification Technology, 2019, 228, 115729.	7.9	35
11	Utilization of activated carbon as an effective replacement for a commercialized three-bed sorbent (Carbopack) to quantitate aromatic hydrocarbons in ambient air. Environmental Research, 2019, 179, 108802.	7.5	11
12	The retrograde adsorption phenomenon at the onset of breakthrough and its quantitation: An experimental case study for gaseous toluene on activated carbon surface. Environmental Research, 2019, 178, 108737.	7.5	14
13	Identifying the best materials for the removal of airborne toluene based on performance metrics - A critical review. Journal of Cleaner Production, 2019, 241, 118408.	9.3	59
14	The effect of diverse metal oxides in graphene composites on the adsorption isotherm of gaseous benzene. Environmental Research, 2019, 172, 367-374.	7.5	36
15	Competitive adsorption of gaseous aromatic hydrocarbons in a binary mixture on nanoporous covalent organic polymers at various partial pressures. Environmental Research, 2019, 173, 1-11.	7.5	37
16	The unique features of non-competitive vs. competitive sorption: Tests against single volatile aromatic hydrocarbons and their quaternary mixtures. Environmental Research, 2019, 173, 508-516.	7.5	17
17	The potential of biochar as sorptive media for removal of hazardous benzene in air. Chemical Engineering Journal, 2019, 361, 1576-1585.	12.7	94
18	Seeking the most powerful and practical real-world sorbents for gaseous benzene as a representative volatile organic compound based on performance metrics. Separation and Purification Technology, 2019, 212, 980-985.	7.9	131

#	Article	IF	Citations
19	The effect of varying battery voltage output on the emission rate of carbonyls released from e-cigarette smoke. Microchemical Journal, 2019, 145, 47-54.	4.5	14
20	A comparison of figure of merit (FOM) for various materials in adsorptive removal of benzene under ambient temperature and pressure. Environmental Research, 2019, 168, 96-108.	7.5	73
21	Airborne volatile aromatic hydrocarbons at an urban monitoring station in Korea from 2013 to 2015. Journal of Environmental Management, 2018, 209, 525-538.	7.8	15
22	Quantification of nicotine and major solvents in retail electronic cigarette fluids and vaped aerosols. Microchemical Journal, 2018, 140, 262-268.	4.5	19
23	Determination of carbonyl compounds in electronic cigarette refill solutions and aerosols through liquid-phase dinitrophenyl hydrazine derivatization. Environmental Monitoring and Assessment, 2018, 190, 200.	2.7	14
24	Sorptive process and breakthrough behavior of odorous volatile compounds on inert surfaces. Scientific Reports, 2018, 8, 13118.	3.3	4
25	Short and Long-Term Temporal Changes in Air Quality in a Seoul Urban Area: The Weekday/Sunday Effect. Sustainability, 2018, 10, 1248.	3.2	8
26	The effect of flavor content in e-liquids on e-cigarette emissions of carbonyl compounds. Environmental Research, 2018, 166, 324-333.	7.5	37
27	Toward a better understanding of the impact of mass transit air pollutants on human health. Chemosphere, 2017, 174, 268-279.	8.2	38
28	Long-term trends in airborne SO2 in an air quality monitoring station in Seoul, Korea, from 1987 to 2013. Journal of the Air and Waste Management Association, 2017, 67, 923-932.	1.9	13
29	Long-term trend analysis of CO in the Yongsan district of Seoul, Korea, between the years 1987 and 2013. Atmospheric Pollution Research, 2017, 8, 988-996.	3.8	2
30	A simple method for the parallel quantification of nicotine and major solvent components in electronic cigarette liquids and vaped aerosols. Microchemical Journal, 2017, 133, 237-245.	4.5	16
31	Air ionization as a control technology for off-gas emissions of volatile organic compounds. Environmental Pollution, 2017, 225, 729-743.	7.5	45
32	Global warming projections to 2100 using simple CO2 greenhouse gas modeling and comments on CO2 climate sensitivity factor. Atmospheric Pollution Research, 2017, 8, 136-140.	3.8	105
33	Social Impacts of Solar Home Systems in Rural Areas: A Case Study in Bangladesh. Energies, 2017, 10, 1615.	3.1	48
34	Quantitative Approaches for the Determination of Volatile Organic Compounds (VOC) and Its Performance Assessment in Terms of Solvent Types and the Related Matrix Effects. Asian Journal of Atmospheric Environment, 2017, 11, 1-14.	1.1	2
35	A review on the role of organic inputs in maintaining the soil carbon pool of the terrestrial ecosystem. Journal of Environmental Management, 2016, 167, 214-227.	7.8	75
36	Estimation of emission factor for odorants released from swine excretion slurries. Science of the Total Environment, 2016, 548-549, 472-478.	8.0	5

#	Article	IF	Citations
37	Corrigendum to: A review of sampling and pretreatment techniques for the collection of airborne amines. TrAC - Trends in Analytical Chemistry, 2016, 77, 243.	11.4	O
38	A critical review on the diverse preconcentration procedures on bag samples in the quantitation of volatile organic compounds from cigarette smoke and other combustion samples. TrAC - Trends in Analytical Chemistry, 2016, 85, 65-74.	11.4	5
39	Advanced polymeric materials: Synthesis and analytical application of ion imprinted polymers as selective sorbents for solid phase extraction of metal ions. TrAC - Trends in Analytical Chemistry, 2016, 83, 55-69.	11.4	91
40	The micro-environmental impact of volatile organic compound emissions from large-scale assemblies of people in a confined space. Environmental Research, 2016, 151, 304-312.	7.5	15
41	Airborne foliar transfer of PM bound heavy metals in Cassia siamea: A less common route of heavy metal accumulation. Science of the Total Environment, 2016, 573, 123-130.	8.0	58
42	A review of metal organic resins for environmental applications. Journal of Hazardous Materials, 2016, 320, 234-240.	12.4	18
43	Metal organic frameworks as sorption media for volatile and semi-volatile organic compounds at ambient conditions. Scientific Reports, 2016, 6, 27813.	3.3	132
44	A practical approach to estimate emission rates of indoor air pollutants due to the use of personal combustible products based on small-chamber studies. Chemosphere, 2016, 144, 1451-1458.	8.2	11
45	Measurements of major VOCs released into the closed cabin environment of different automobiles under various engine and ventilation scenarios. Environmental Pollution, 2016, 215, 340-346.	7.5	30
46	Airborne iron across major urban centers in South Korea between 1991 and 2012. Science of the Total Environment, 2016, 550, 309-320.	8.0	8
47	Characterization of quality assurance properties of biogenic volatile organic compounds with an emphasis on the breakthrough behavior, recovery, and temporal stability. Microchemical Journal, 2016, 125, 142-150.	4.5	17
48	Insights into the adsorption capacity and breakthrough properties of a synthetic zeolite against a mixture of various sulfur species at low ppb levels. Journal of Environmental Management, 2016, 166, 484-492.	7.8	18
49	Metal–organic frameworks for the control and management of air quality: advances and future direction. Journal of Materials Chemistry A, 2016, 4, 345-361.	10.3	120
50	Response to the comment on characterization of hazardous and odorous volatiles emitted from scented candles before lighting and when lit. Journal of Hazardous Materials, 2016, 303, 172-173.	12.4	4
51	The effect of solvent selection in the gas chromatographic analysis of carbonyls in air samples after derivatization with pentafluorophenyl hydrazine. Atmospheric Research, 2015, 166, 101-109.	4.1	6
52	A comparative review between amines and ammonia as sorptive media for post-combustion CO2 capture. Applied Energy, 2015, 148, 10-22.	10.1	172
53	A review on the effect of amination pretreatment for the selective separation of CO2. Applied Energy, 2015, 158, 631-642.	10.1	32
54	Progress in the reduction of carbon monoxide levels in major urban areas in Korea. Environmental Pollution, 2015, 207, 420-428.	7.5	18

#	Article	IF	CITATIONS
55	Derivatization techniques for determination of carbonyls in air. TrAC - Trends in Analytical Chemistry, 2015, 64, 29-41.	11.4	50
56	Odor and VOC Emissions from Pan Frying of Mackerel at Three Stages: Raw, Well-Done, and Charred. International Journal of Environmental Research and Public Health, 2014, 11, 11753-11771.	2.6	12
57	An Exploration on the Suitability of Airborne Carbonyl Compounds Analysis in relation to Differences in Instrumentation (GC-MS versus HPLC-UV) and Standard Phases (Gas versus Liquid). Scientific World Journal, The, 2014, 2014, 1-11.	2.1	3
58	The selection of the standard phase (gas vs. liquid) and the related matrix effect on the direct injection gas chromatographic analysis of VOCs at sub–ppm levels. Atmospheric Pollution Research, 2014, 5, 563-571.	3.8	4
59	Efficient injection of low-mass ions into high magnetic field Fourier transform ion cyclotron resonance mass spectrometers. Rapid Communications in Mass Spectrometry, 2014, 28, 230-238.	1.5	6
60	An assessment of the liquid–gas partitioning behavior of major wastewater odorants using two comparative experimental approaches: liquid sample-based vaporization vs. impinger-based dynamic headspace extraction into sorbent tubes. Analytical and Bioanalytical Chemistry, 2014, 406, 643-655.	3.7	9
61	Determination of methylamine, dimethylamine, and trimethylamine in air by high-performance liquid chromatography with derivatization using 9-fluorenylmethylchloroformate. Analytical Methods, 2014, 6, 5697-5707.	2.7	36
62	Re-evaluation of effective carbon number (ECN) approach to predict response factors of †compounds lacking authentic standards or surrogates' (CLASS) by thermal desorption analysis with GC†MS. Analytica Chimica Acta, 2014, 851, 14-22.	5.4	22
63	Review of progress in solvent-extraction techniques for the determination of polyaromatic hydrocarbons as airborne pollutants. TrAC - Trends in Analytical Chemistry, 2014, 61, 40-48.	11.4	59
64	A review of sampling and pretreatment techniques for the collection of airborne amines. TrAC - Trends in Analytical Chemistry, 2014, 57, 118-134.	11.4	29
65	The gas chromatographic determination of volatile fatty acids in wastewater samples: Evaluation of experimental biases in direct injection method against thermal desorption method. Analytica Chimica Acta, 2014, 820, 159-167.	5.4	19
66	Development of the Detection Threshold Concept from a Close Look at Sorption Occurrence Inside a Glass Vial Based on the In-Vial Vaporization of Semivolatile Fatty Acids. Analytical Chemistry, 2014, 86, 6640-6647.	6.5	17
67	Experimental validation of an effective carbon number-based approach for the gas chromatography–mass spectrometry quantification of â€~compounds lacking authentic standards or surrogates'. Analytica Chimica Acta, 2014, 830, 32-41.	5.4	27
68	Simulation of the breakthrough behavior of volatile organic compounds against sorbent tube sampler as a function of concentration level and sampling volume. Analytica Chimica Acta, 2014, 835, 46-55.	5.4	21
69	Study of odor from boiled eggs over time using gas chromatography. Microchemical Journal, 2013, 110, 517-529.	4.5	29
70	Method to predict gas chromatographic response factors for the traceâ€level analysis of volatile organic compounds based on the effective carbon number concept. Journal of Separation Science, 2013, 36, 3356-3365.	2.5	48
71	Quantitative Analysis of Fragrance and Odorants Released from Fresh and Decaying Strawberries. Sensors, 2013, 13, 7939-7978.	3.8	34
72	A theoretical consideration on the unfeasibility of an analytical method recommended for volatile fatty acids (VFA) by the offensive odor prevention law. Korean Journal of Odor Research and Engineering, 2013, 12, 1-7.	0.2	2

#	Article	IF	CITATIONS
73	Protomers: formation, separation and characterization via travelling wave ion mobility mass spectrometry. Journal of Mass Spectrometry, 2012, 47, 712-719.	1.6	102
74	Proton transfer reactions of halogenated compounds: Using gas chromatography/Fourier transform ion cyclotron resonance mass spectrometry (GC/FT-ICR MS) and ab initio calculations. International Journal of Mass Spectrometry, 2010, 293, 1-11.	1.5	7
75	Evidence for Cancer Biomarkers in Exhaled Breath. IEEE Sensors Journal, 2010, 10, 185-210.	4.7	65
76	Differentiation Between Pure Cultures of Streptococcus pyogenes and Pseudomonas aeruginosa by FT-ICR-MS Volatile Analysis. The Open Spectroscopy Journal, 2009, 3, 21-25.	1.0	2
77	Bimolecular and unimolecular contributions to the disparate self-chemical ionizations of $\langle i \rangle$ Let $\langle i \rangle$ Pinene and camphene isomers. Journal of the American Society for Mass Spectrometry, 2007, 18, 2026-2039.	2.8	30
78	Simultaneous determination of analyte concentrations, gas-phase basicities, and proton transfer kinetics using gas chromatography/Fourier transform ion cyclotron resonance mass spectrometry (GC/FT-ICR MS). International Journal of Mass Spectrometry, 2006, 257, 16-26.	1.5	16
79	Protonation Thermochemistry of Selected Hydroxy- and Methoxycarbonyl Molecules. Journal of Physical Chemistry A, 2005, 109, 11851-11859.	2.5	9
80	A preconcentrator coupled to a GC/FTMS: Advantages of self-chemical ionization, mass measurement accuracy, and high mass resolving power for GC applications. Journal of the American Society for Mass Spectrometry, 2004, 15, 1191-1200.	2.8	20
81	Potential Analytical Applications of Interfacing a GC to an FT-ICR MS:Â Fingerprinting Complex Sample Matrixes. Analytical Chemistry, 2002, 74, 3434-3442.	6.5	36
82	Stepwise solvation of halides by alcohol molecules in the gas phase. International Journal of Mass Spectrometry, 1999, 185-187, 707-725.	1.5	32
83	Gas-Phase Basicities of Acid Anhydrides. Journal of Physical Chemistry A, 1998, 102, 9183-9192.	2.5	17
84	Structure and Energetics of Protonated ω-Methoxy Alcohols. Journal of Physical Chemistry A, 1998, 102, 1879-1887.	2.5	12
85	Combined Experimental and Theoretical Study of the Protonation of Polyfluorobenzenes [C6H6-nFn] (n=0-6). Journal of Mass Spectrometry, 1997, 32, 494-506.	1.6	12
86	High-Pressure Mass Spectrometric Investigations of the Potential Energy Surfaces of Gas-Phase SN2 Reactions. Journal of the American Chemical Society, 1996, 118, 9360-9367.	13.7	129
87	New Theoretical and Experimental Proton Affinities for Methyl Halides and Diazomethane: A Revision of the Methyl Cation Affinity Scale. The Journal of Physical Chemistry, 1994, 98, 13099-13101.	2.9	63
88	Isomerization and isotope effects in sterically congested cluster ions. Organic Mass Spectrometry, 1993, 28, 1009-1015.	1.3	10
89	a compact high pressure ion source for high and low energy collision-induced dissociation studies of cluster ions on a VG analytical ZAB-2FQ. Journal of the American Society for Mass Spectrometry, 1992, 3, 33-38.	2.8	9
90	Fourier transform ion cyclotron resonance investigation of the deuterium isotope effect on gas phase ion/molecule hydrogen bonding interactions in alcohol—fluoride adduct ions. International Journal of Mass Spectrometry and Ion Processes, 1992, 117, 487-505.	1.8	8

#	ARTICLE	IF	Citations
91	A pulsed electron beam, variable temperature, high pressure mass spectrometric re-evaluation of the proton affinity difference between 2-methylpropene and ammonia. International Journal of Mass Spectrometry and Ion Processes, 1991, 109, 279-294.	1.8	53
92	A pulsed ionization high-pressure mass spectrometric study of methyl cation transfer and methyl cation-induced clustering in dimethyl ether-acetone mixtures. International Journal of Mass Spectrometry and Ion Processes, 1988, 83, 147-161.	1.8	45
93	Is the collision induced loss of ethene from the (M $\hat{a}\in$ H+) \hat{a} ion of butyrophenone a \hat{i}^3 -hydrogen rearrangement?. Canadian Journal of Chemistry, 1986, 64, 764-768.	1.1	22
94	The collisionally induced dissociations of the carboxyl and formate positive and negative ions. International Journal of Mass Spectrometry and Ion Processes, 1984, 57, 159-166.	1.8	34
95	Vibrational fine structure in the collisionally induced charge reversal and fragmentation of OHâ [^] ' ions. Chemical Physics Letters, 1984, 106, 292-296.	2.6	7
96	The generation and identification of the transient vinylidene cation, [H2Cî—»C]+ Chemical Physics Letters, 1984, 107, 301-303.	2.6	14
97	Collisionally induced dissociative ionization of neutral products from unimolecular ion fragmentations. 1â€"Neutral product structures. Organic Mass Spectrometry, 1984, 19, 442-447.	1.3	88
98	Two new stable [C3H8O]+? isomers: the radical cations [C3H6OH2]+?. Journal of the Chemical Society Chemical Communications, 1984, , 165.	2.0	14
99	Generation and identification of four stable isomeric [C3H3]+ ions by direct dissociative ionization or by charge reversal of anions. Journal of the American Chemical Society, 1984, 106, 521-525.	13.7	59
100	The gas phase ion chemistry of the acetyl cation and isomeric [C2H3O]+ ions. On the structure of the [C2H3O]+ daughter ions generated from the enol of acetone radical cation. Organic Mass Spectrometry, 1983, 18, 254-262.	1.3	112
101	The collisionally induced dissociation of allyl and 2-propenyl cations. Organic Mass Spectrometry, 1983, 18, 596-600.	1.3	20
102	Collision-induced charge-inversion reactions of negative ions: Formation of excited states. International Journal of Mass Spectrometry and Ion Physics, 1981, 37, 27-34.	1.3	17
103	Negative ion mass spectrometry: The generation of high concentrations of low energy molecular negative ions at high source pressures. Organic Mass Spectrometry, 1980, 15, 263-267.	1.3	33
104	The energetics of the formation of positive ions produced by charge-stripping from negative ions. International Journal of Mass Spectrometry and Ion Physics, 1980, 34, 99-111.	1.3	40
105	Energetics of the charge-stripping process from negative ions. A new method for the estimation of electron affinities. Journal of the Chemical Society Chemical Communications, 1979, , 983.	2.0	3