

Ruth Waddell Smith

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

690
citations

516710

16
h-index

580821

25
g-index

40
all docs

40
docs citations

40
times ranked

607
citing authors

#	ARTICLE	IF	CITATIONS
1	A unified kinetic and thermodynamic model of evaporation for forensic applications. <i>Forensic Chemistry</i> , 2021, 23, 100304.	2.8	1
2	Application of a kinetic model to predict extracted ion profiles for the identification of evaporated ignitable liquids. <i>Forensic Chemistry</i> , 2021, 24, 100340.	2.8	2
3	Measuring evaporation rate constants of highly volatile compounds for use in predictive kinetic models. <i>Analytica Chimica Acta</i> , 2021, 1182, 338932.	5.4	1
4	Optical and spectroscopic characterization of crystalline structures in cannabis extracts. <i>Journal of Forensic Sciences</i> , 2021, , .	1.6	2
5	Improvements in a kinetic-based model to predict evaporation of gasoline. <i>Forensic Chemistry</i> , 2020, 17, 100194.	2.8	3
6	Statistical comparison of mass spectra of salvinorins in <i>Salvia divinorum</i> and related <i>Salvia</i> species. <i>Forensic Chemistry</i> , 2020, 17, 100192.	2.8	5
7	Discrimination of seized drug positional isomers based on statistical comparison of electron-ionization mass spectra. <i>Forensic Chemistry</i> , 2020, 20, 100261.	2.8	14
8	Characterization of 2C-phenethylamines using high-resolution mass spectrometry and Kendrick mass defect filters. <i>Forensic Chemistry</i> , 2018, 7, 47-55.	2.8	11
9	Fixed- and Variable-Temperature Kinetic Models to Predict Evaporation of Petroleum Distillates for Fire Debris Applications. <i>Separations</i> , 2018, 5, 47.	2.4	9
10	Comparison of variable selection methods prior to linear discriminant analysis classification of synthetic phenethylamines and tryptamines. <i>Forensic Chemistry</i> , 2018, 11, 77-86.	2.8	24
11	Characterization of smokeless powders using multiplexed collision-induced dissociation mass spectrometry and chemometric procedures. <i>Forensic Science International</i> , 2017, 272, 16-27.	2.2	19
12	Examining the impact of organizational and individual characteristics on forensic scientists'™ job stress and satisfaction. <i>Journal of Crime and Justice</i> , 2017, 40, 34-49.	1.1	11
13	Statistical comparison of mass spectra for identification of amphetamine-type stimulants. <i>Forensic Science International</i> , 2017, 270, 111-120.	2.2	16
14	Elemental Characterization and Discrimination of Nontoxic Ammunition Using Scanning Electron Microscopy with Energy Dispersive X-ray Analysis and Principal Components Analysis. <i>Journal of Forensic Sciences</i> , 2016, 61, 35-42.	1.6	14
15	Mathematically modeling chromatograms of evaporated ignitable liquids for fire debris applications. <i>Forensic Chemistry</i> , 2016, 2, 37-45.	2.8	14
16	Assessing the effect of data pretreatment procedures for principal components analysis of chromatographic data. <i>Forensic Science International</i> , 2015, 257, 1-12.	2.2	9
17	Effect of Substrate Interferences from High-Density Polyethylene on Association of Simulated Ignitable Liquid Residues with the Corresponding Liquid. <i>Journal of Forensic Sciences</i> , 2014, 59, 52-60.	1.6	15
18	Effect of Extraction Procedure and Gas Chromatography Temperature Program on Discrimination of MDMA Exhibits. <i>Journal of Forensic Sciences</i> , 2014, 59, 327-336.	1.6	1

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19	Statistical approach to establish equivalence of unabbreviated mass spectra. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 83-95.	1.5	15
20	Effect of evaporation and matrix interferences on the association of simulated ignitable liquid residues to the corresponding liquid standard. <i>Forensic Science International</i> , 2012, 222, 242-251.	2.2	28
21	Forensic analysis of <i>Salvia divinorum</i> using multivariate statistical procedures. Part I: discrimination from related <i>Salvia</i> species. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 833-842.	3.7	9
22	Forensic analysis of <i>Salvia divinorum</i> using multivariate statistical procedures. Part II: association of adulterated samples to <i>S. divinorum</i> . <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 843-850.	3.7	4
23	Association of Ignitable Liquid Residues to Neat Ignitable Liquids in the Presence of Matrix Interferences Using Chemometric Procedures*. <i>Journal of Forensic Sciences</i> , 2011, 56, 70-81.	1.6	26
24	Differentiation of Bullet Type Based on the Analysis of Gunshot Residue Using Inductively Coupled Plasma Mass Spectrometry*. <i>Journal of Forensic Sciences</i> , 2011, 56, 1268-1276.	1.6	29
25	Development of Microwave-Assisted Extraction Procedure for Organic Impurity Profiling of Seized 3,4-Methylenedioxyamphetamine (MDMA)*. <i>Journal of Forensic Sciences</i> , 2011, 56, 1483-1492.	1.6	6
26	Effect of Gas Chromatography Temperature Program on the Association and Discrimination of Diesel Samples. <i>Journal of Forensic Sciences</i> , 2010, 55, 185-192.	1.6	4
27	Detection of Gunshot Residue in Blowfly Larvae and Decomposing Porcine Tissue Using Inductively Coupled Plasma Mass Spectrometry (ICP-MS)*. <i>Journal of Forensic Sciences</i> , 2010, 55, 624-632.	1.6	37
28	Characterization of smokeless powders using nanoelectrospray ionization mass spectrometry (nESI-MS). <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 2019-2028.	3.7	30
29	Association and discrimination of diesel fuels using chemometric procedures. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 2049-2059.	3.7	23
30	The need for research in forensic science. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 1985-1986.	3.7	1
31	Characterization of Undigested Particulate Material Following Microwave Digestion of Recycled Document Papers. <i>Journal of Forensic Sciences</i> , 2009, 54, 1171-1175.	1.6	8
32	Determination of Trace Elemental Concentrations in Document Papers for Forensic Comparison Using Inductively Coupled Plasma-Mass Spectrometry. <i>Journal of Forensic Sciences</i> , 2009, 54, 1163-1170.	1.6	25
33	Chemometric analysis of diesel fuel for forensic and environmental applications. <i>Analytica Chimica Acta</i> , 2008, 606, 159-171.	5.4	64
34	A Review of Recent Advances in Impurity Profiling of Illicit MDMA Samples. <i>Journal of Forensic Sciences</i> , 2007, 52, 1297-1304.	1.6	30
35	Determination of nitroaromatic and nitramine explosives from a PTFE wipe using thermal desorption-gas chromatography with electron-capture detection. <i>Journal of Chromatography A</i> , 2005, 1062, 125-131.	3.7	53
36	Quantification of Aromatic and Halogenated Hydrocarbons and Alcohol Mixtures at the Elemental, Structural, and Parent Molecular Ion Level. <i>Analytical Chemistry</i> , 2005, 77, 1847-1852.	6.5	20

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37	The analytical and chemometric procedures used to profile illicit drug seizures. <i>Talanta</i> , 2005, 67, 280-285.	5.5	42
38	Monitoring of a heterogeneous reaction by acoustic emission. <i>Analyst, The</i> , 2004, 129, 463.	3.5	21
39	Classification of ecstasy tablets using trace metal analysis with the application of chemometric procedures and artificial neural network algorithms. <i>Analyst, The</i> , 2004, 129, 235-240.	3.5	44