Ruth Waddell Smith

List of Publications by Year
in descending order

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	Chemometric analysis of diesel fuel for forensic and environmental applications. Analytica Chimica Acta, 2008, 606, 159-171.	5.4	64
2	Determination of nitroaromatic and nitramine explosives from a PTFE wipe using thermal desorption-gas chromatography with electron-capture detection. Journal of Chromatography A, 2005, 1062, 125-131.	3.7	53
3	Classification of ecstasy tablets using trace metal analysis with the application of chemometric procedures and artificial neural network algorithms. Analyst, The, 2004, 129, 235-240.	3.5	44
4	The analytical and chemometric procedures used to profile illicit drug seizures. Talanta, 2005, 67, 280-285.	5.5	42
5	Detection of Gunshot Residue in Blowfly Larvae and Decomposing Porcine Tissue Using Inductively Coupled Plasma Mass Spectrometry (ICPâ€MS)*. Journal of Forensic Sciences, 2010, 55, 624-632.	1.6	37
6	A Review of Recent Advances in Impurity Profiling of Illicit MDMA Samples. Journal of Forensic Sciences, 2007, 52, 1297-1304.	1.6	30
7	Characterization of smokeless powders using nanoelectrospray ionization mass spectrometry (nESI-MS). Analytical and Bioanalytical Chemistry, 2009, 394, 2019-2028.	3.7	30
8	Differentiation of Bullet Type Based on the Analysis of Gunshot Residue Using Inductively Coupled Plasma Mass Spectrometry*. Journal of Forensic Sciences, 2011, 56, 1268-1276.	1.6	29
9	Effect of evaporation and matrix interferences on the association of simulated ignitable liquid residues to the corresponding liquid standard. Forensic Science International, 2012, 222, 242-251.	2.2	28
10	Association of Ignitable Liquid Residues to Neat Ignitable Liquids in the Presence of Matrix Interferences Using Chemometric Procedures*,â€. Journal of Forensic Sciences, 2011, 56, 70-81.	1.6	26
11	Determination of Trace Elemental Concentrations in Document Papers for Forensic Comparison Using Inductively Coupled Plasmaâ€“Mass Spectrometry. Journal of Forensic Sciences, 2009, 54, 1163-1170.	1.6	25
12	Comparison of variable selection methods prior to linear discriminant analysis classification of synthetic phenethylamines and tryptamines. Forensic Chemistry, 2018, 11, 77-86.	2.8	24
13	Association and discrimination of diesel fuels using chemometric procedures. Analytical and Bioanalytical Chemistry, 2009, 394, 2049-2059.	3.7	23
14	Monitoring of a heterogeneous reaction by acoustic emission. Analyst, The, 2004, 129, 463.	3.5	21
15	Quantification of Aromatic and Halogenated Hydrocarbons and Alcohol Mixtures at the Elemental, Structural, and Parent Molecular Ion Level. Analytical Chemistry, 2005, 77, 1847-1852.	6.5	20
16	Characterization of smokeless powders using multiplexed collision-induced dissociation mass spectrometry and chemometric procedures. Forensic Science International, 2017, 272, 16-27.	2.2	19
17	Statistical comparison of mass spectra for identification of amphetamine-type stimulants. Forensic Science International, 2017, 270, 111-120.	2.2	16
18	Effect of Substrate Interferences from Highâ€Density Polyethylene on Association of Simulated Ignitable Liquid Residues with the Corresponding Liquid. Journal of Forensic Sciences, 2014, 59, 52-60.	1.6	15

#	Article	IF	Citations
19	Statistical approach to establish equivalence of unabbreviated mass spectra. Rapid Communications in Mass Spectrometry, 2014, 28, 83-95.	1.5	15
20	Elemental Characterization and Discrimination of Nontoxic Ammunition Using Scanning Electron Microscopy with Energy Dispersive Xâ€Ray Analysis and Principal Components Analysis. Journal of Forensic Sciences, 2016, 61, 35-42.	1.6	14
21	Mathematically modeling chromatograms of evaporated ignitable liquids for fire debris applications. Forensic Chemistry, 2016, 2, 37-45.	2.8	14
22	Discrimination of seized drug positional isomers based on statistical comparison of electron-ionization mass spectra. Forensic Chemistry, 2020, 20, 100261.	2.8	14
23	Examining the impact of organizational and individual characteristics on forensic scientistsâ€™ job stress and satisfaction. Journal of Crime and Justice, 2017, 40, 34-49.	1.1	11
24	Characterization of 2C-phenethylamines using high-resolution mass spectrometry and Kendrick mass defect filters. Forensic Chemistry, 2018, 7, 47-55.	2.8	11
25	Forensic analysis of Salvia divinorum using multivariate statistical procedures. Part I: discrimination from related Salvia species. Analytical and Bioanalytical Chemistry, 2012, 402, 833-842.	3.7	9
26	Assessing the effect of data pretreatment procedures for principal components analysis of chromatographic data. Forensic Science International, 2015, 257, 1-12.	2.2	9
27	Fixed- and Variable-Temperature Kinetic Models to Predict Evaporation of Petroleum Distillates for Fire Debris Applications. Separations, 2018, 5, 47.	2.4	9
28	Characterization of Undigested Particulate Material Following Microwave Digestion of Recycled Document Papers. Journal of Forensic Sciences, 2009, 54, 1171-1175.	1.6	8
29	Development of Microwaveâ€Assisted Extraction Procedure for Organic Impurity Profiling of Seized 3,4â€Methylenedioxymethamphetamine (MDMA)*^{,â€}. Journal of Forensic Sciences, 2011, 56, 1483-1492.	1.6	6
30	Statistical comparison of mass spectra of salvinorins in Salvia divinorum and related Salvia species. Forensic Chemistry, 2020, 17, 100192.	2.8	5
31	Effect of Gas Chromatography Temperature Program on the Association and Discrimination of Diesel Samples. Journal of Forensic Sciences, 2010, 55, 185-192.	1.6	4
32	Forensic analysis of Salvia divinorum using multivariate statistical procedures. Part II: association of adulterated samples to S. divinorum. Analytical and Bioanalytical Chemistry, 2012, 402, 843-850.	3.7	4
33	Improvements in a kinetic-based model to predict evaporation of gasoline. Forensic Chemistry, 2020, 17, 100194.	2.8	3
34	Application of a kinetic model to predict extracted ion profiles for the identification of evaporated ignitable liquids. Forensic Chemistry, 2021, 24, 100340.	2.8	2
35	Optical and spectroscopic characterization of crystalline structures in cannabis extracts. Journal of Forensic Sciences, 2021, , .	1.6	2
36	The need for research in forensic science. Analytical and Bioanalytical Chemistry, 2009, 394, 1985-1986.	3.7	1

#	Article	IF	Citations
37	Effect of Extraction Procedure and Gas Chromatography Temperature Program on Discrimination of <scp>MDMA</scp> Exhibits. Journal of Forensic Sciences, 2014, 59, 327-336.	1.6	1
38	A unified kinetic and thermodynamic model of evaporation for forensic applications. Forensic Chemistry, 2021, 23, 100304.	2.8	1
39	Measuring evaporation rate constants of highly volatile compounds for use in predictive kinetic models. Analytica Chimica Acta, 2021, 1182, 338932.	5.4	1