Shari L Forbes

List of Publications by Year in Descending Order

126 papers	2,500 citations	27 h-index	44 g-index
133 ext. papers	2,867 ext. citations	2.8 avg, IF	5.38 L-index

#	Paper	IF	Citations
126	The Use of Electronic Nose for the Classification of Blended and Single Malt Scotch Whisky. *IEEE Sensors Journal*, **2022**, 1-1	4	1
125	A Multiscale Wavelet Kernel Regularization-Based Feature Extraction Method for Electronic Nose. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2022**, 1-12	7.3	1
124	Sample Preparation **2021**, 71-108		1
123	The taphonomic impact of scavenger guilds in southern Quebec during summer and fall in two distinct habitats. *Journal of Forensic Sciences*, **2021**,	1.8	1
122	Fresh vs. frozen human decomposition □A preliminary investigation of lipid degradation products as biomarkers of post-mortem interval. *Forensic Chemistry*, **2021**, 24, 100335	2.8	4
121	Detecting volatile organic compounds to locate human remains in a simulated collapsed building. *Forensic Science International*, **2021**, 323, 110781	2.6	1
120	Detecting grave sites from surface anomalies: A longitudinal study in an Australian woodland. *Journal of Forensic Sciences*, **2021**, 66, 479-490	1.8	3
119	Decomposition process and arthropod succession on pig carcasses in Quebec (Canada). *Journal of the Canadian Society of Forensic Science*, **2021**, 54, 1-26	0.5	4
118	Overwintering behaviour of the skipper fly (Diptera: Piophilidae) of forensic importance in QuÞec, Canada. *Canadian Entomologist*, **2021**, 153, 172-180	0.7	0
117	Perspectives on the establishment of a canadian human taphonomic facility: The experience of REST[ES]. *Forensic Science International (Online)*, **2020**, 2, 287-292	1.9	1
116	Cadaver-detection dogs: A review of their capabilities and the volatile organic compound profile of their associated training aids. *Wiley Interdisciplinary Reviews Forensic Science*, **2020**,	2.6	1
115	Application of a Microfluidic Gas-to-Liquid Interface for Extraction of Target Amphetamines and Precursors from Air Samples. *Micromachines*, **2020**, 11,	3.3	1
114	Design of an efficient electronic nose system for odour analysis and assessment. *Measurement: Journal of the International Measurement Confederation*, **2020**, 165, 108089	4.6	8
113	Profiling Volatilomes: A Novel Forensic Method for Identification of Confiscated Illegal Wildlife Items. *Separations*, **2020**, 7, 5	3.1	7
112	A data-driven meat freshness monitoring and evaluation method using rapid centroid estimation and hidden Markov models. *Sensors and Actuators B: Chemical*, **2020**, 311, 127868	8.5	11
111	TSD estimation in the advanced stages of decomposition **2020**, 81-107		
110	Revolution in death sciences: body farms and taphonomics blooming. A review investigating the advantages, ethical and legal aspects in a Swiss context. *International Journal of Legal Medicine*, **2020**, 134, 1875-1895	3.1	4

109	Recent advances in the estimation of post-mortem interval in forensic taphonomy. *Australian Journal of Forensic Sciences*, **2020**, 52, 107-123	1.1	2
108	Arid Climate Adipocere-The Importance of Microenvironment. *Journal of Forensic Sciences*, **2020**, 65, 327-329	1.8	4
107	Profiling the seasonal variability of decomposition odour from human remains in a temperate Australian environment. *Australian Journal of Forensic Sciences*, **2020**, 52, 654-664	1.1	3
106	A novel multi-odour identification by electronic nose using non-parametric modelling-based feature extraction and time-series classification. *Sensors and Actuators B: Chemical*, **2019**, 298, 126690	8.5	9
105	The analysis of nitrate explosive vapour samples using Lab-on-a-chip instrumentation. *Journal of Chromatography A*, **2019**, 1602, 467-473	4.5	4
104	A sponsorship action plan for increasing diversity in STEMM. *Ecology and Evolution*, **2019**, 9, 2340-2345	2.8	10
103	Using PMCT of Individuals of Known Age to Test the Suchey-Brooks Method of Aging in Victoria, Australia. *Journal of Forensic Sciences*, **2019**, 64, 1782-1787	1.8	7
102	Volatile organic compound analysis of accelerant detection canine distractor odours. *Forensic Science International*, **2019**, 303, 109953	2.6	3
101	The Soil Environment and Forensic Entomology **2019**, 269-286		
100	Understanding clothed buried remains: the analysis of decomposition fluids and their influence on clothing in model burial environments. *Forensic Science, Medicine, and Pathology*, **2019**, 15, 3-12	1.5	0
99	A novel data pre-processing method for odour detection and identification system. *Sensors and Actuators A: Physical*, **2019**, 287, 113-120	3.9	10
98	A comparison of human and pig decomposition rates and odour profiles in an Australian environment. *Australian Journal of Forensic Sciences*, **2019**, 51, 557-572	1.1	22
97	Monitoring the extent of vertical and lateral movement of human decomposition products through sediment using cholesterol as a biomarker. *Forensic Science International*, **2018**, 285, 93-104	2.6	13
96	Electronic Nose-Based Odor Classification using Genetic Algorithms and Fuzzy Support Vector Machines. *International Journal of Fuzzy Systems*, **2018**, 20, 1309-1320	3.6	12
95	Profiling the scent of weathered training aids for blood-detection dogs. *Science and Justice - Journal of the Forensic Science Society*, **2018**, 58, 98-108	2	11
94	Seasonal variation of fatty acid profiles from textiles associated with decomposing pig remains in a temperate Australian environment. *Forensic Chemistry*, **2018**, 11, 120-127	2.8	3
93	Developing a Method for the Collection and Analysis of Burnt Remains for the Detection and Identification of Ignitable Liquid Residues Using Body Bags, Dynamic Headspace Sampling, and TD-GC□C-TOFMS. *Separations*, **2018**, 5, 46	3.1	3
92	NOS.E: A New Fast Response Electronic Nose Health Monitoring System. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 4977-4980	0.9	3

91	The validation of Universal PMI methods for the estimation of time since death in temperate Australian climates. *Forensic Science International*, **2018**, 291, 158-166	2.6	8
90	Investigating the detection limits of scent-detection dogs to residual blood odour on clothing. *Forensic Chemistry*, **2018**, 9, 62-75	2.8	6
89	Gross Post-Mortem Changes in the Human Body **2017**, 9-25		2
88	Relationships between Human Remains, Graves and the Depositional Environment **2017**, 143-154		3
87	The Effects of Terrestrial Mammalian Scavenging and Avian Scavenging on the Body **2017**, 212-234		0
86	Decomposition in Aquatic Environments **2017**, 235-250		10
85	Post-Mortem Differential Preservation and its Utility in Interpreting Forensic and Archaeological Mass Burials **2017**, 251-276		1
84	Microscopic Post-Mortem Changes: the Chemistry of Decomposition **2017**, 26-38		4
83	Concealing the Crime: the Effects of Chemicals on Human Tissues **2017**, 335-351		
82	Case Studies on Taphonomic Variation between Cemetery Burials **2017**, 402-409		
81	Forensic Entomology Case Studies from Mexico **2017**, 410-419		1
80	Profiling Volatile Organic Compounds of Decomposition **2017**, 39-52		1
79	Saponified Brains of the Spanish Civil War **2017**, 429-437		0
78	History and Development of the First Anthropology Research Facility, Knoxville, Tennessee **2017**, 461-475		6
77	The Taphonomy of Natural Mummies **2017**, 101-119		12
76	Degradation of Clothing in Depositional Environments **2017**, 120-133		8
75	Comparison of taphonomic progression due to the necrophagic activity of geographically disparate scavenging guilds. *Journal of the Canadian Society of Forensic Science*, **2017**, 50, 42-53	0.5	8
74	Forensic decomposition odour profiling: A review of experimental designs and analytical techniques. *TrAC - Trends in Analytical Chemistry*, **2017**, 91, 112-124	14.6	15

73	Degradation patterns of natural and synthetic textiles on a soil surface during summer and winter seasons studied using ATR-FTIR spectroscopy. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2017**, 185, 69-76	4.4	12
72	The Odor of Death: An Overview of Current Knowledge on Characterization and Applications. *BioScience*, **2017**, 67, 600-613	5.7	34
71	Body farms. *Forensic Science, Medicine, and Pathology*, **2017**, 13, 477-479	1.5	11
70	The analysis of textiles associated with decomposing remains as a natural training aid for cadaver-detection dogs. *Forensic Chemistry*, **2017**, 5, 33-45	2.8	18
69	Global developments in forensic geology. *Episodes*, **2017**, 40, 120-131	1.6	13
68	Changes in Soil Microbial Activity Following Cadaver Decomposition During Spring and Summer Months in Southern Ontario. *Soil Forensics*, **2016**, 243-262		
67	Estimating post-mortem interval using accumulated degree-days and a degree of decomposition index in Australia: a validation study. *Australian Journal of Forensic Sciences*, **2016**, 48, 24-36	1.1	19
66	Profiling the decomposition odour at the grave surface before and after probing. *Forensic Science International*, **2016**, 259, 193-9	2.6	21
65	The impact of carrion decomposition on the fatty acid methyl ester (FAME) profiles of soil microbial communities in southern Canada. *Journal of the Canadian Society of Forensic Science*, **2016**, 49, 1-18	0.5	5
64	A study to model the post-mortem stability of 4-MMC, MDMA and BZP in putrefying remains. *Forensic Science International*, **2016**, 265, 54-60	2.6	5
63	Analysis of Decomposition Fluid Collected from Carcasses Decomposing in the Presence and Absence of Insects. *Soil Forensics*, **2016**, 275-296		2
62	Forensic Analysis of Volatile Organic Compounds from Decomposed Remains in a Soil Environment. *Soil Forensics*, **2016**, 297-316		1
61	Achieving a Near-Theoretical Maximum in Peak Capacity Gain for the Forensic Analysis of Ignitable Liquids Using GC□GC-TOFMS. *Separations*, **2016**, 3, 26	3.1	15
60	The influence of ageing and surface type on the odour profile of blood-detection dog training aids. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 6349-60	4.4	21
59	Elemental analysis of soil and vegetation surrounding decomposing human analogues. *Journal of the Canadian Society of Forensic Science*, **2016**, 49, 138-151	0.5	9
58	A rapid chemical odour profiling method for the identification of rhinoceros horns. *Forensic Science International*, **2016**, 266, e99-e102	2.6	10
57	GC □GC-TOFMS and supervised multivariate approaches to study human cadaveric decomposition olfactive signatures. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 4767-78	4.4	48
56	The interactive effect of the degradation of cotton clothing and decomposition fluid production associated with decaying remains. *Forensic Science International*, **2015**, 255, 56-63	2.6	12

55	An initial investigation into the ecology of culturable aerobic postmortem bacteria. *Science and Justice - Journal of the Forensic Science Society*, **2015**, 55, 394-401	2	20
54	Detection of decomposition volatile organic compounds in soil following removal of remains from a surface deposition site. *Forensic Science, Medicine, and Pathology*, **2015**, 11, 376-87	1.5	24
53	New decomposition stages to describe scenarios involving the partial and complete exclusion of insects. *Journal of the Canadian Society of Forensic Science*, **2015**, 48, 1-19	0.5	12
52	Inter-year repeatability study of volatile organic compounds from surface decomposition of human analogues. *International Journal of Legal Medicine*, **2015**, 129, 641-50	3.1	20
51	Reducing variation in decomposition odour profiling using comprehensive two-dimensional gas chromatography. *Journal of Separation Science*, **2015**, 38, 73-80	3.4	36
50	Fast Chromatographic Method for Explosive Profiling. *Chromatography (Basel)*, **2015**, 2, 213-224		26
49	A Comparison of One-Dimensional and Comprehensive Two-Dimensional Gas Chromatography for Decomposition Odour Profiling Using Inter-Year Replicate Field Trials. *Chromatographia*, **2015**, 78, 1057-1070	2.1	38
48	Seasonal comparison of carrion volatiles in decomposition soil using comprehensive two-dimensional gas chromatography time of flight mass spectrometry. *Analytical Methods*, **2015**, 7, 690-698	3.2	32
47	Exploring new dimensions in cadaveric decomposition odour analysis. *Analytical Methods*, **2015**, 7, 2287-2294	3.2	48
46	Search protocols for hidden forensic objects beneath floors and within walls. *Forensic Science International*, **2014**, 237, 137-45	2.6	26
45	Bacterial populations associated with early-stage adipocere formation in lacustrine waters. *International Journal of Legal Medicine*, **2014**, 128, 379-87	3.1	12
44	A Longitudinal Study of Decomposition Odour in Soil Using Sorbent Tubes and Solid Phase Microextraction. *Chromatography (Basel)*, **2014**, 1, 120-140		28
43	Effect of age and storage conditions on the volatile organic compound profile of blood. *Forensic Science, Medicine, and Pathology*, **2014**, 10, 570-82	1.5	25
42	Reading Cadaveric Decomposition Chemistry with a New Pair of Glasses. *ChemPlusChem*, **2014**, 79, 786-789	2.9	30
41	Decomposition odour profiling in the air and soil surrounding vertebrate carrion. *PLoS ONE*, **2014**, 9, e95107	3.7	59
40	Comparison of the decomposition VOC profile during winter and summer in a moist, mid-latitude (Cfb) climate. *PLoS ONE*, **2014**, 9, e113681	3.7	44
39	The effect of soil texture on the degradation of textiles associated with buried bodies. *Forensic Science International*, **2013**, 231, 331-9	2.6	16
38	Post-mortem detection of gasoline residues in lung tissue and heart blood of fire victims. *International Journal of Legal Medicine*, **2013**, 127, 923-30	3.1	6

37	Investigation of sterols as potential biomarkers for the detection of pig (S. s. domesticus) decomposition fluid in soils. *Forensic Science International*, **2013**, 230, 68-73	2.6	10
36	Characterization of volatile organic compounds from human analogue decomposition using thermal desorption coupled to comprehensive two-dimensional gas chromatography-time-of-flight mass spectrometry. *Analytical Chemistry*, **2013**, 85, 998-1005	7.8	85
35	Human versus animal: contrasting decomposition dynamics of mammalian analogues in experimental taphonomy. *Journal of Forensic Sciences*, **2013**, 58, 583-91	1.8	36
34	Ground penetrating radar use in three contrasting soil textures in southern Ontario. *Geological Society Special Publication*, **2013**, 384, 221-228	1.7	2
33	Detection of fatty acids in the lateral extent of the cadaver decomposition island. *Geological Society Special Publication*, **2013**, 384, 209-219	1.7	7
32	Locating Buried Canine Remains Using Ground Penetrating Radar. *Journal of the Canadian Society of Forensic Science*, **2013**, 46, 51-58	0.5	2
31	Analysis of synthetic canine training aids by comprehensive two-dimensional gas chromatography-time of flight mass spectrometry. *Journal of Chromatography A*, **2012**, 1255, 202-6	4.5	47
30	Examination of adipocere formation in a cold water environment. *International Journal of Legal Medicine*, **2011**, 125, 643-50	3.1	25
29	A study of adipocere in soil collected from a field leaching study. *Australian Journal of Forensic Sciences*, **2011**, 43, 3-11	1.1	6
28	Preliminary studies into the characterization of chemical markers of decomposition for geoforensics. *Journal of Forensic Sciences*, **2010**, 55, 308-14	1.8	27
27	Observations of the temporal variation in chemical content of decomposition fluid: A preliminary study using pigs as a model system. *Australian Journal of Forensic Sciences*, **2010**, 42, 199-210	1.1	22
26	A capillary electrophoresis method for the determination of selected biogenic amines and amino acids in mammalian decomposition fluid. *Talanta*, **2010**, 81, 1697-702	6.2	36
25	Analytical separations of mammalian decomposition products for forensic science: a review. *Analytica Chimica Acta*, **2010**, 682, 9-22	6.6	55
24	Forensically significant scavenging guilds in the southwest of Western Australia. *Forensic Science International*, **2010**, 198, 85-91	2.6	23
23	Freezing skeletal muscle tissue does not affect its decomposition in soil: evidence from temporal changes in tissue mass, microbial activity and soil chemistry based on excised samples. *Forensic Science International*, **2009**, 183, 6-13	2.6	29
22	Measurement of ninhydrin reactive nitrogen influx into gravesoil during aboveground and belowground carcass (Sus domesticus) decomposition. *Forensic Science International*, **2009**, 193, 37-41	2.6	44
21	The Soil Environment and Forensic Entomology **2009**, 407-426		4
20	Decomposition Studies Using Animal Models in Contrasting Environments: Evidence from Temporal Changes in Soil Chemistry and Microbial Activity **2009**, 357-377		10

19	An Investigation of the Vegetation Associated with Grave Sites in Southern Ontario. *Journal of the Canadian Society of Forensic Science*, **2008**, 41, 199-207	0.5	13
18	Decomposition Chemistry in a Burial Environment **2008**, 203-223		26
17	The biochemical alteration of soil beneath a decomposing carcass. *Forensic Science International*, **2008**, 180, 70-5	2.6	96
16	TG-MS analysis of the thermal decomposition of pig bone for forensic applications. *Journal of Thermal Analysis and Calorimetry*, **2008**, 92, 87-90	4.1	19
15	Decomposition and insect succession on cadavers inside a vehicle environment. *Forensic Science, Medicine, and Pathology*, **2008**, 4, 22-32	1.5	57
14	Postmortem and Postburial Interval of Buried Remains **2008**, 225-246		11
13	TG-MS characterisation of pig bone in an inert atmosphere. *Journal of Thermal Analysis and Calorimetry*, **2007**, 88, 405-409	4.1	23
12	A preliminary investigation into the scavenging activity on pig carcasses in Western Australia. *Forensic Science, Medicine, and Pathology*, **2007**, 3, 194-9	1.5	22
11	The effect of the burial environment on adipocere formation. *Forensic Science International*, **2005**, 154, 24-34	2.6	108
10	The effect of soil type on adipocere formation. *Forensic Science International*, **2005**, 154, 35-43	2.6	93
9	The effect of the method of burial on adipocere formation. *Forensic Science International*, **2005**, 154, 44-52	2.6	71
8	Characterization of Adipocere Formation in Animal Species. *Journal of Forensic Sciences*, **2005**, 50, 1-8	1.8	16
7	Review of human decomposition processes in soil. *Environmental Geology*, **2004**, 45, 576-585		256
6	Time Since Death: A Novel Approach to Dating Skeletal Remains. *Australian Journal of Forensic Sciences*, **2004**, 36, 67-72	1.1	7
5	A Preliminary Investigation of the Stages of Adipocere Formation. *Journal of Forensic Sciences*, **2004**, 49, 1-9	1.8	59
4	A preliminary investigation of the stages of adipocere formation. *Journal of Forensic Sciences*, **2004**, 49, 566-74	1.8	11
3	A gas chromatography-mass spectrometry method for the detection of adipocere in grave soils. *European Journal of Lipid Science and Technology*, **2003**, 105, 761-768	3	33
2	The identification of adipocere in grave soils. *Forensic Science International*, **2002**, 127, 225-230	2.6	58

1	Studies of adipocere using diffuse reflectance infrared spectroscopy. *Vibrational Spectroscopy*, **2000**, 24, 233-242	2.1	40