James Curran

List of Publications by Year
in descending order

Version: 2024-02-01

63 papers	1,517 citations	331670 21 h-index	345221 36 g-index
67 all docs	67 docs citations	67 times ranked	652 citing authors

#	Article	IF	Citations
1	Evaluation of organic and inorganic gunshot residues in various populations using LC-MS/MS. Forensic Chemistry, 2022, 27, 100389.	2.8	13
2	When evaluating DNA evidence within a likelihood ratio framework, should the propositions be exhaustive?. Forensic Science International: Genetics, 2021, 50, 102406.	3.1	13
3	Novel LIBS method for microâ€spatial chemical analysis of inorganic gunshot residues. Journal of Chemometrics, 2021, 35, .	1.3	21
4	Modeling allelic analyte signals for aSTRs in NGS DNA profiles. Journal of Forensic Sciences, 2021, 66, 1234-1245.	1.6	8
5	Relaxing the assumption of unrelatedness in the numerator and denominator of likelihood ratios for DNA mixtures. Forensic Science International: Genetics, 2021, 51, 102434.	3.1	4
6	Comparing multiple POI to DNA mixtures. Forensic Science International: Genetics, 2021, 52, 102481.	3.1	12
7	A comparison of likelihood ratios obtained from EuroForMix and STRmixâ„¢. Journal of Forensic Sciences, 2021, 66, 2138-2155.	1.6	14
8	A mixed DNA profile controversy revisited. Journal of Forensic Sciences, 2021, , .	1.6	4
9	Estimation of Y haplotype frequencies with lower order dependencies. Forensic Science International: Genetics, 2020, 46, 102214.	3.1	10
10	Are low LRs reliable?. Forensic Science International: Genetics, 2020, 49, 102350.	3.1	10
11	Variability and additivity of read counts for aSTRs in NGS DNA profiles. Forensic Science International: Genetics, 2020, 48, 102351.	3.1	5
12	Examining the additivity of peak heights in forensic DNA profiles. Australian Journal of Forensic Sciences, 2020, , 1-15.	1.2	4
13	A review of likelihood ratios in forensic science based on a critique of Stiffelman â€œNo longer the Gold standard: Probabilistic genotyping is changing the nature of DNA evidence in criminal trialsâ€• Forensic Science International, 2020, 310, 110251.	2.2	11
14	DNAtools: Tools for Analysing Forensic Genetic DNA Data. Journal of Open Source Software, 2020, 5, 1981.	4.6	1
15	Testing whether stutter and low-level DNA peaks are additive. Forensic Science International: Genetics, 2019, 43, 102166.	3.1	7
16	Multi-element comparisons of tapes evidence using dimensionality reduction for calculating likelihood ratios. Forensic Science International, 2019, 301, 426-434.	2.2	6
17	Likelihood ratio development for mixed Y-STR profiles. Forensic Science International: Genetics, 2018, 35, 82-96.	3.1	22
18	A response to â€œLikelihood ratio as weight of evidence: A closer lookâ€• by Lund and Iyer. Forensic Science International, 2018, 288, e15-e19.	2.2	12

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19	Modelling the dependence structure of Y-STR haplotypes using graphical models. Forensic Science International: Genetics, 2018, 37, 29-36.	3.1	11
20	Importance sampling allows Hd true tests of highly discriminating DNA profiles. Forensic Science International: Genetics, 2017, 27, 74-81.	3.1	14
21	Admitting to uncertainty in the LR. Science and Justice - Journal of the Forensic Science Society, 2016, 56, 380-382.	2.1	17
22	Assessing Sampling Error in DNA Evidence. Security Science and Technology, 2016, , 101-129.	0.5	0
23	Population-specific F values for forensic STR markers: A worldwide survey. Forensic Science International: Genetics, 2016, 23, 91-100.	3.1	73
24	A probabilistic approach for the interpretation of RNA profiles as cell type evidence. Forensic Science International: Genetics, 2016, 20, 30-44.	3.1	20
25	Categorical methods for the interpretation of RNA profiles as cell type evidence and their limitations. Forensic Science International: Genetics Supplement Series, 2015, 5, e305-e307.	0.3	1
26	A novel bacterial community index to assess stream ecological health. Freshwater Biology, 2015, 60, 1988-2002.	2.4	47
27	The effect of wild card designations and rare alleles in forensic DNA database searches. Forensic Science International: Genetics, 2015, 16, 98-104.	3.1	0
28	The variability in likelihood ratios due to different mechanisms. Forensic Science International: Genetics, 2015, 14, 187-190.	3.1	27
29	A series of recommended tests when validating probabilistic DNA profile interpretation software. Forensic Science International: Genetics, 2015, 14, 125-131.	3.1	36
30	The effect of the uncertainty in the number of contributors to mixed DNA profiles on profile interpretation. Forensic Science International: Genetics, 2014, 12, 208-214.	3.1	44
31	Investigation into stutter ratio variance. Australian Journal of Forensic Sciences, 2014, 46, 313-316.	1.2	0
32	Drawbacks in the scientification of forensic science. Forensic Science International, 2014, 245, e38-e40.	2.2	3
33	Searching mixed DNA profiles directly against profile databases. Forensic Science International: Genetics, 2014, 9, 102-110.	3.1	62
34	An illustration of the effect of various sources of uncertainty on DNA likelihood ratio calculations. Forensic Science International: Genetics, 2014, 11, 56-63.	3.1	34
35	Investigation into stutter ratio variability between different laboratories. Forensic Science International: Genetics, 2014, 13, 79-81.	3.1	16
36	Variability of mixed DNA profiles separated on a 3130 and 3500 capillary electrophoresis instrument. Australian Journal of Forensic Sciences, 2014, 46, 304-312.	1.2	19

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37	Geographical variation of shoeprint comparison class correspondences. Science and Justice - Journal of the Forensic Science Society, 2014, 54, 335-337.	2.1	1
38	Helping formulate propositions in forensic DNA analysis. Science and Justice - Journal of the Forensic Science Society, 2014, 54, 258-261.	2.1	27
39	A comparison of statistical models for the analysis of complex forensic DNA profiles. Science and Justice - Journal of the Forensic Science Society, 2014, 54, 66-70.	2.1	54
40	Modelling PowerPlexÂ® Y stutter and artefacts. Forensic Science International: Genetics, 2014, 11, 126-136.	3.1	9
41	Utilising allelic dropout probabilities estimated by logistic regression in casework. Forensic Science International: Genetics, 2014, 9, 9-11.	3.1	23
42	Uncertainty in the number of contributors for the European Standard Set of loci. Forensic Science International: Genetics, 2014, 11, 205-206.	3.1	14
43	Is forensic science the last bastion of resistance against statistics?. Science and Justice - Journal of the Forensic Science Society, 2013, 53, 251-252.	2.1	12
44	Developing allelic and stutter peak height models for a continuous method of DNA interpretation. Forensic Science International: Genetics, 2013, 7, 296-304.	3.1	130
45	Degradation of forensic DNA profiles. Australian Journal of Forensic Sciences, 2013, 45, 445-449.	1.2	56
46	An investigation into the performance of methods for adjusting for sampling uncertainty in DNA likelihood ratio calculations. Forensic Science International: Genetics, 2011, 5, 512-516.	3.1	15
47	Inclusion Probabilities and Dropout. Journal of Forensic Sciences, 2010, 55, 1171-1173.	1.6	29
48	Are DNA Profiles as Rare as we Think? Or Can we Trust DNA Statistics?. Significance, 2010, 7, 62-66.	0.4	6
49	Statistics in forensic science. Wiley Interdisciplinary Reviews: Computational Statistics, 2009, 1, 141-156.	3.9	7
50	A MCMC method for resolving two person mixtures. Science and Justice - Journal of the Forensic Science Society, 2008, 48, 168-177.	2.1	45
51	Effectiveness of familial searches. Science and Justice - Journal of the Forensic Science Society, 2008, 48, 164-167.	2.1	42
52	Empirical support for the reliability of DNA evidence interpretation in Australia and New Zealand. Australian Journal of Forensic Sciences, 2008, 40, 99-108.	1.2	8
53	LoComatioN: A software tool for the analysis of low copy number DNA profiles. Forensic Science International, 2007, 166, 128-138.	2.2	99
54	The appropriate use of subpopulation corrections for differences in endogamous communities. Forensic Science International, 2007, 168, 106-111.	2.2	7

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55	The extent of substructure in the indigenous Australian population and its impact on DNA evidence interpretation. International Congress Series, 2006, 1288, 382-384.	0.2	3
56	How reliable is the sub-population model in DNA testimony?. Forensic Science International, 2006, 157, 144-148.	2.2	27
57	An introduction to Bayesian credible intervals for sampling error in DNA profiles. Law, Probability and Risk, 2005, 4, 115-126.	2.4	50
58	Weight-of-Evidence for Forensic DNA Profiles, by David J. Balding: John Wiley and Sons, Ltd., 2005; 198 pp.. Law, Probability and Risk, 2005, 4, 191-193.	2.4	1
59	A graphical simulation model of the entire DNA process associated with the analysis of short tandem repeat loci. Nucleic Acids Research, 2005, 33, 632-643.	14.5	107
60	What is the magnitude of the subpopulation effect?. Forensic Science International, 2003, 135, 1-8.	2.2	43
61	Evidence in Support of Self-Declaration as a Sampling Method for the Formation of Sub-Population DNA Databases. Journal of Forensic Sciences, 2003, 48, 1-3.	1.6	8
62	Genetic matches and the logic of the law. Genetica, 1999, 105, 211-213.	1.1	1
63	Interpreting DNA Mixtures in Structured Populations. Journal of Forensic Sciences, 1999, 44, 987-995.	1.6	82