

Bruce R Mccord

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124
papers

3,827
citations

32
h-index

56
g-index

131
ext. papers

4,236
ext. citations

3.5
avg, IF

5.55
L-index

#	Paper	IF	Citations
124	A study of PCR inhibition mechanisms using real time PCR. <i>Journal of Forensic Sciences</i> , 2010 , 55, 25-33	1.8	345
123	The Development of Reduced Size STR Amplicons as Tools for Analysis of Degraded DNA. <i>Journal of Forensic Sciences</i> , 2003 , 48, 2003043	1.8	235
122	Forensic DNA typing by capillary electrophoresis using the ABI Prism 310 and 3100 genetic analyzers for STR analysis. <i>Electrophoresis</i> , 2004 , 25, 1397-412	3.6	176
121	The development of reduced size STR amplicons as tools for analysis of degraded DNA. <i>Journal of Forensic Sciences</i> , 2003 , 48, 1054-64	1.8	122
120	Capillary electrophoresis of polymerase chain reaction-amplified DNA using fluorescence detection with an intercalating dye. <i>Journal of Chromatography A</i> , 1993 , 652, 75-82	4.5	88
119	A Study on the Effects of Degradation and Template Concentration on the Amplification Efficiency of the STR Miniplex Primer Sets. <i>Journal of Forensic Sciences</i> , 2004 , 49, 1-8	1.8	87
118	Simultaneous colorimetric detection of improvised explosive compounds using microfluidic paper-based analytical devices (μPADs). <i>Analytical Methods</i> , 2015 , 7, 63-70	3.2	83
117	Explosive residue analysis by capillary electrophoresis and ion chromatography. <i>Journal of Chromatography A</i> , 1992 , 602, 241-247	4.5	82
116	The determination of tissue-specific DNA methylation patterns in forensic biofluids using bisulfite modification and pyrosequencing. <i>Electrophoresis</i> , 2012 , 33, 1736-45	3.6	79
115	Advances of capillary electrophoresis in clinical and forensic analysis (1999-2000). <i>Electrophoresis</i> , 2001 , 22, 4216-43	3.6	79
114	High Resolution Capillary Electrophoresis of Forensic DNA Using a Non-Gel Sieving Buffer. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1993 , 16, 1963-1981		73
113	Detection of Smokeless Powder Residue on Pipe Bombs by Micellar Electrokinetic Capillary Electrophoresis. <i>Journal of Forensic Sciences</i> , 1999 , 44, 1455-4J	1.8	73
112	Application of dual internal standards for precise sizing of polymerase chain reaction products using capillary electrophoresis. <i>Electrophoresis</i> , 1995 , 16, 974-80	3.6	70
111	Optimization of two methods for the analysis of hydrogen peroxide: high performance liquid chromatography with fluorescence detection and high performance liquid chromatography with electrochemical detection in direct current mode. <i>Journal of Chromatography A</i> , 2010 , 1217, 7564-72	4.5	69
110	Quantitation of polymerase chain reaction products by capillary electrophoresis using laser fluorescence. <i>Biomedical Applications</i> , 1994 , 658, 271-80		65
109	A novel method for analysis of explosives residue by simultaneous detection of anions and cations via capillary zone electrophoresis. <i>Talanta</i> , 2005 , 67, 304-12	6.2	58
108	The analysis of high explosives by liquid chromatography/electrospray ionization mass spectrometry: multiplexed detection of negative ion adducts. <i>Rapid Communications in Mass Spectrometry</i> , 2005 , 19, 99-104	2.2	58

107	Forensic analysis of explosives using ion chromatographic methods. <i>Analytica Chimica Acta</i> , 1994 , 288, 43-56	6.6	57
106	Chiral separation of 12 cathinone analogs by cyclodextrin-assisted capillary electrophoresis with UV and mass spectrometry detection. <i>Electrophoresis</i> , 2014 , 35, 3231-41	3.6	55
105	A multicomponent mobile phase for ion chromatography applied to the separation of anions from the residue of low explosives. <i>Analytical Chemistry</i> , 2000 , 72, 2302-7	7.8	51
104	Determination of multiple drugs of abuse in human urine using capillary electrophoresis with fluorescence detection. <i>Electrophoresis</i> , 2004 , 25, 1592-600	3.6	48
103	DNA typing of a polymerase chain reaction amplified D1S80/amelogenin multiplex using capillary electrophoresis and a mixed entangled polymer matrix. <i>Electrophoresis</i> , 1996 , 17, 1505-11	3.6	48
102	Analysis of multiplexed short tandem repeat (STR) systems using capillary array electrophoresis. <i>Electrophoresis</i> , 1998 , 19, 101-7	3.6	47
101	Coupling paper-based microfluidics and lab on a chip technologies for confirmatory analysis of trinitro aromatic explosives. <i>Analytical Chemistry</i> , 2014 , 86, 4707-14	7.8	44
100	Developmental validation studies of epigenetic DNA methylation markers for the detection of blood, semen and saliva samples. <i>Forensic Science International: Genetics</i> , 2016 , 23, 55-63	4.3	43
99	Nonradiochemical DNase I footprinting by capillary electrophoresis. <i>Electrophoresis</i> , 2001 , 22, 1979-86	3.6	43
98	The application of amplicon length heterogeneity PCR (LH-PCR) for monitoring the dynamics of soil microbial communities associated with cadaver decomposition. <i>Journal of Microbiological Methods</i> , 2011 , 84, 388-93	2.8	42
97	Determination of heroin metabolites in human urine using capillary zone electrophoresis with beta-cyclodextrin and UV detection. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003 , 33, 463-73 ^{3.5}		42
96	Separation and detection of smokeless powder additives by ultra performance liquid chromatography with tandem mass spectrometry (UPLC/MS/MS). <i>Journal of Forensic Sciences</i> , 2013 , 58, 609-15	1.8	37
95	The development of paper microfluidic devices for presumptive drug detection. <i>Analytical Methods</i> , 2015 , 7, 8025-8033	3.2	36
94	Capillary electrophoresis single-strand conformation polymorphism analysis for monitoring soil bacteria. <i>Journal of Microbiological Methods</i> , 2005 , 60, 83-92	2.8	36
93	Micellar electrokinetic chromatographic screening method for common sexual assault drugs administered in beverages. <i>Forensic Science International</i> , 2004 , 141, 7-15	2.6	35
92	Advances in forensic DNA quantification: a review. <i>Electrophoresis</i> , 2014 , 35, 3044-52	3.6	32
91	The application of miniplex primer sets in the analysis of degraded DNA from human skeletal remains. <i>Journal of Forensic Sciences</i> , 2006 , 51, 351-6	1.8	32
90	Concordance Study Between Miniplex Assays and a Commercial STR Typing Kit. <i>Journal of Forensic Sciences</i> , 2004 , 49, 1-2	1.8	32

89	Assessment of ultra high performance supercritical fluid chromatography as a separation technique for the analysis of seized drugs: Applicability to synthetic cannabinoids. <i>Journal of Chromatography A</i> , 2016 , 1440, 201-211	4.5	32
88	Rapid direct PCR for forensic genotyping in under 25 min. <i>Electrophoresis</i> , 2013 , 34, 1539-47	3.6	30
87	Analysis of two multiplexed short tandem repeat systems using capillary electrophoresis with multiwavelength fluorescence detection. <i>Electrophoresis</i> , 1998 , 19, 94-100	3.6	29
86	Developmental validation of reduced-size STR Miniplex primer sets. <i>Journal of Forensic Sciences</i> , 2007 , 52, 1263-71	1.8	29
85	Comparison of ultra high performance supercritical fluid chromatography, ultra high performance liquid chromatography, and gas chromatography for the separation of synthetic cathinones. <i>Journal of Separation Science</i> , 2017 , 40, 3545-3556	3.4	28
84	Surface enhanced Raman spectroscopy (SERS) as a method for the toxicological analysis of synthetic cannabinoids. <i>Talanta</i> , 2017 , 164, 396-402	6.2	28
83	Evaluation of DNA methylation markers and their potential to predict human aging. <i>Electrophoresis</i> , 2015 , 36, 1775-80	3.6	28
82	Novel electrolyte for the analysis of cations in low explosive residue by capillary electrophoresis. <i>Biomedical Applications</i> , 1998 , 714, 105-11		28
81	Determination of trace levels of benzodiazepine in urine using capillary electrochromatography-time of flight mass spectrometry. <i>Electrophoresis</i> , 2008 , 29, 2182-92	3.6	28
80	Fast gas chromatography of explosive compounds using a pulsed-discharge electron capture detector. <i>Journal of Forensic Sciences</i> , 2006 , 51, 815-8	1.8	28
79	Gradient reversed-phase liquid chromatographic-electrospray ionization mass spectrometric method for the comparison of smokeless powders. <i>Journal of Chromatography A</i> , 2003 , 988, 107-16	4.5	28
78	An overview of DNA typing methods for human identification: past, present, and future. <i>Methods in Molecular Biology</i> , 2012 , 830, 3-16	1.4	27
77	Evaluation and quantification of nuclear DNA from human telogen hairs. <i>Journal of Forensic Sciences</i> , 2008 , 53, 853-7	1.8	26
76	Separation and identification of smokeless gunpowder additives by capillary electrochromatography. <i>Journal of Chromatography A</i> , 2012 , 1267, 259-65	4.5	25
75	Micro Solid Phase Extraction Surface-Enhanced Raman Spectroscopy (MSPE/SERS) Screening Test for the Detection of the Synthetic Cannabinoid JWH-018 in Oral Fluid. <i>Analytical Chemistry</i> , 2019 , 91, 4780-4789	7.8	24
74	An aptamer-based paper microfluidic device for the colorimetric determination of cocaine. <i>Electrophoresis</i> , 2018 , 39, 470-475	3.6	24
73	An investigation of PCR inhibition using Plexor(®) -based quantitative PCR and short tandem repeat amplification. <i>Journal of Forensic Sciences</i> , 2014 , 59, 1517-29	1.8	24
72	Comparison of aggregating agents for the surface-enhanced Raman analysis of benzodiazepines. <i>Analyst, The</i> , 2013 , 138, 5926-32	5	23

71	Development of a capillary electrophoresis method for the screening of human urine for multiple drugs of abuse. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007 , 856, 62-7	3.2	23
70	Detection and evaluation of DNA methylation markers found at SCGN and KLF14 loci to estimate human age. <i>Forensic Science International: Genetics</i> , 2017 , 31, 81-88	4.3	22
69	A comparison of the effects of PCR inhibition in quantitative PCR and forensic STR analysis. <i>Electrophoresis</i> , 2011 , 32, 1084-9	3.6	22
68	Detection of nitrated benzodiazepines by indirect laser-induced fluorescence detection on a microfluidic device. <i>Journal of Chromatography A</i> , 2007 , 1154, 481-4	4.5	22
67	A survey of background levels of explosives and related compounds in the environment. <i>Journal of Forensic Sciences</i> , 2008 , 53, 802-6	1.8	22
66	Forensic DNA Analysis. <i>Analytical Chemistry</i> , 2019 , 91, 673-688	7.8	22
65	Simultaneous colorimetric detection of metallic salts contained in low explosives residue using a microfluidic paper-based analytical device (μ PAD). <i>Forensic Chemistry</i> , 2018 , 9, 35-41	2.8	21
64	The development of mini pentameric STR loci for rapid analysis of forensic DNA samples on a microfluidic system. <i>Electrophoresis</i> , 2010 , 31, 2672-9	3.6	21
63	High-resolution melt analysis of DNA methylation to discriminate semen in biological stains. <i>Analytical Biochemistry</i> , 2016 , 494, 40-5	3.1	20
62	The effect of internal control sequence and length on the response to PCR inhibition in real-time PCR quantitation. <i>Forensic Science International: Genetics</i> , 2014 , 9, 55-60	4.3	20
61	Temperature and pH studies of short tandem repeat systems using capillary electrophoresis at elevated pH. <i>Electrophoresis</i> , 2001 , 22, 755-62	3.6	20
60	The application of supported liquid extraction in the analysis of benzodiazepines using surface enhanced Raman spectroscopy. <i>Talanta</i> , 2015 , 144, 938-43	6.2	18
59	Development of an entangled polymer solution for improved resolution in DNA typing by CE. <i>Electrophoresis</i> , 2008 , 29, 4695-703	3.6	18
58	The application of alkaline lysis and pressure cycling technology in the differential extraction of DNA from sperm and epithelial cells recovered from cotton swabs. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 6975-84	4.4	17
57	A collaborative exercise on DNA methylation based body fluid typing. <i>Electrophoresis</i> , 2016 , 37, 2759-2766	3.6	17
56	Rapid and specific detection of urea nitrate and ammonium nitrate by electrospray ionization time-of-flight mass spectrometry using infusion with crown ethers. <i>Rapid Communications in Mass Spectrometry</i> , 2012 , 26, 154-62	2.2	17
55	The application of magnetic bead hybridization for the recovery and STR amplification of degraded and inhibited forensic DNA. <i>Electrophoresis</i> , 2011 , 32, 1631-8	3.6	17
54	Simultaneous Separation of Different Types of Amphetamine and Piperazine Designer Drugs by Capillary Electrophoresis with a Chiral Selector. <i>Journal of Forensic Sciences</i> , 2005 , 50, 1-10	1.8	17

53	A study on the effects of degradation and template concentration on the amplification efficiency of the STR Miniplex primer sets. <i>Journal of Forensic Sciences</i> , 2004 , 49, 733-40	1.8	17
52	The analysis of EDTA in dried bloodstains by electrospray LC-MS-MS and ion chromatography. <i>Journal of Analytical Toxicology</i> , 1997 , 21, 521-8	2.9	16
51	Response of short tandem repeat systems to temperature and sizing methods. <i>Forensic Science International</i> , 2003 , 133, 228-34	2.6	16
50	A Comparison of Smokeless Powders and Mixtures by Capillary Zone Electrophoresis. <i>Journal of Forensic Sciences</i> , 2005 , 50, 1-9	1.8	16
49	The Application of Voltammetric Analysis of (D) -THC for the Reduction of False Positive Results in the Analysis of Suspected Marijuana Plant Matter. <i>Journal of Forensic Sciences</i> , 2016 , 61, 1067-73	1.8	13
48	Ultrafast STR Separations on Short-Channel Microfluidic Systems for Forensic Screening and Genotyping. <i>Journal of Forensic Sciences</i> , 2015 , 60, 1164-70	1.8	13
47	An analysis of single and multi-copy methods for DNA quantitation by real-time polymerase chain reaction. <i>Forensic Science International: Genetics</i> , 2011 , 5, 185-93	4.3	13
46	Mobile phase influence on electrospray ionization for the analysis of smokeless powders by gradient reversed phase high-performance liquid chromatography-ESIMS. <i>Forensic Science International</i> , 2005 , 154, 159-66	2.6	13
45	A Gradient Reversed Phase HPLC Procedure for Smokeless Powder Comparison. <i>Journal of Forensic Sciences</i> , 2002 , 47, 15219J	1.8	13
44	A rapid method for separation and identification of microcystins using capillary electrophoresis and time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2016 , 1431, 205-214	4.5	12
43	Surface-enhanced Raman spectroscopy, Raman, and density functional theoretical analyses of fentanyl and six analogs. <i>Journal of Raman Spectroscopy</i> , 2019 , 50, 1405-1415	2.3	12
42	Effect of divalent metal ions on DNA studied by capillary electrophoresis. <i>Electrophoresis</i> , 2005 , 26, 1046-56	3.6	12
41	DNA methylation assay based on pyrosequencing for determination of smoking status. <i>Electrophoresis</i> , 2018 , 39, 2806-2814	3.6	11
40	Rapid microfluidic analysis of a Y-STR multiplex for screening of forensic samples. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 939-947	4.4	10
39	Understanding metal inhibition: The effect of copper (Cu ²⁺) on DNA containing samples. <i>Forensic Chemistry</i> , 2017 , 4, 89-95	2.8	10
38	Identification of spermatozoa by tissue-specific differential DNA methylation using bisulfite modification and pyrosequencing. <i>Electrophoresis</i> , 2014 , 35, 3079-86	3.6	10
37	Forensic discrimination of vaginal epithelia by DNA methylation analysis through pyrosequencing. <i>Electrophoresis</i> , 2016 , 37, 2751-2758	3.6	10
36	Trace analysis of urea nitrate by liquid chromatography-UV/fluorescence. <i>Forensic Science International</i> , 2011 , 211, 76-82	2.6	9

35	Estimating number of contributors in massively parallel sequencing data of STR loci. <i>Forensic Science International: Genetics</i> , 2019 , 38, 15-22	4.3	9
34	Optimization of ultrahigh-speed multiplex PCR for forensic analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 235-245	4.4	9
33	Development of a microfluidic device (PADs) for forensic serological analysis. <i>Analytical Methods</i> , 2019 , 11, 587-595	3.2	8
32	A four-channel paper microfluidic device with gold nanoparticles and aptamers for seized drugs. <i>Analytical Biochemistry</i> , 2020 , 595, 113619	3.1	8
31	Detection of the improvised explosives ammonium nitrate (AN) and urea nitrate (UN) using non-aqueous solvents with electrospray ionization and MS/MS detection. <i>Talanta</i> , 2013 , 115, 533-9	6.2	8
30	Raman spectra of thiolated arsenicals with biological importance. <i>Talanta</i> , 2018 , 179, 520-530	6.2	7
29	Development of a body fluid identification multiplex via DNA methylation analysis. <i>Electrophoresis</i> , 2019 , 40, 2565-2574	3.6	6
28	Chemical composition of architectural plaster at the Classic Maya kingdom of Piedras Negras, Guatemala. <i>Journal of Archaeological Science</i> , 2012 , 39, 1648-1654	2.9	6
27	Direct loading of polymer matrices in plastic microchips for rapid DNA analysis: a comparative study. <i>Electrophoresis</i> , 2012 , 33, 2604-11	3.6	6
26	Explosive Analysis by Capillary Electrophoresis 1993 , 133-144		6
25	Assessing the Risk of Secondary Transfer Via Fingerprint Brush Contamination Using Enhanced Sensitivity DNA Analysis Methods. <i>Journal of Forensic Sciences</i> , 2016 , 61, 204-11	1.8	6
24	Tissue-Specific DNA Methylation Patterns in Forensic Samples Detected by Pyrosequencing . <i>Methods in Molecular Biology</i> , 2015 , 1315, 397-409	1.4	5
23	Separation of DNA by capillary electrophoresis. <i>Methods in Molecular Biology</i> , 2008 , 384, 415-29	1.4	5
22	Development of DNA methylation markers for sperm, saliva and blood identification using pyrosequencing and qPCR/HRM. <i>Analytical Biochemistry</i> , 2020 , 611, 113933	3.1	5
21	Fentanyl-related substance scheduling as an effective drug control strategy. <i>Journal of Forensic Sciences</i> , 2021 , 66, 1186-1200	1.8	5
20	The use of direct analysis in real time (DART) to assess the levels of inhibitors co-extracted with DNA and the associated impact in quantification and amplification. <i>Electrophoresis</i> , 2016 , 37, 2807-2816	3.6	5
19	Separation and identification of antidepressants by acrylate-based monolithic column capillary electrochromatography with UV detection. <i>Electrophoresis</i> , 2016 , 37, 2882-2890	3.6	4
18	Pressure-based alkaline lysis with immunocapture, a method for enhanced recovery in differential extraction. <i>Electrophoresis</i> , 2017 , 38, 2777-2785	3.6	4

17	An evaluation of monovalent, divalent, and trivalent cations as aggregating agents for surface enhanced Raman spectroscopy (SERS) analysis of synthetic cannabinoids. <i>Analyst, The</i> , 2019 , 144, 6404-6414	5.14	4
16	Multivariate Analysis Aided Surface-Enhanced Raman Spectroscopy (MVA-SERS) Multiplex Quantitative Detection of Trace Fentanyl in Illicit Drug Mixtures Using a Handheld Raman Spectrometer. <i>Applied Spectroscopy</i> , 2021 , 75, 1225-1236	3.1	4
15	The genital microbiome and its potential for detecting sexual assault. <i>Forensic Science International: Genetics</i> , 2021 , 51, 102432	4.3	3
14	Applications of epigenetic methylation in body fluid identification, age determination and phenotyping. <i>Forensic Science International: Genetics Supplement Series</i> , 2019 , 7, 485-487	0.5	2
13	Paper-based microfluidic devices: On-site tools for crime scene investigation. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 143, 116406	14.6	2
12	Minimizing the number of voltage sources for pinched injection on a microfluidic device. <i>Lab on a Chip</i> , 2010 , 10, 1319-23	7.2	1
11	Tailored Colloidal Nanostars for Surface-Enhanced Raman Spectroscopy: Optimization of Formulation Components and Study of the Stabilizer-Nanoparticle Interactions. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 2023-2040	3.8	1
10	A collaborative exercise on DNA methylation-based age prediction and body fluid typing.. <i>Forensic Science International: Genetics</i> , 2021 , 57, 102656	4.3	1
9	The Application of Capillary Electrophoresis in the Analysis of PCR Products Used in Forensic DNA Typing 2001 , 261-284		1
8	Chromatography of Explosives. <i>International Forensic Science and Investigation Series</i> , 2011 , 585-620		1
7	A data-driven, high-throughput methodology to determine tissue-specific differentially methylated regions able to discriminate body fluids. <i>Electrophoresis</i> , 2021 , 42, 1168-1176	3.6	1
6	Identifying Methylation Patterns in Dental Pulp Aging: Application to Age-at-Death Estimation in Forensic Anthropology. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
5	The development of miniSTRs as a method for high-speed direct PCR. <i>Electrophoresis</i> , 2021 , 42, 1352-1361	3.6	1
4	Developmental validation of SpelD: A pyrosequencing-based assay for species identification. <i>Forensic Science International: Genetics</i> , 2021 , 55, 102560	4.3	1
3	Match statistics for sequence-based alleles in profiles from forensic PCR-mps kits. <i>Electrophoresis</i> , 2021 , 42, 756-765	3.6	0
2	Mass Spectrometry for the Analysis of Low Explosives. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2011 , 221-229	0.1	
1	AuthorsResponse.. <i>Journal of Forensic Sciences</i> , 2021 ,	1.8	