

Stephen L Morgan

List of Publications by Year in descending order

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103
papers

3,147
citations

147566

31
h-index

168136

53
g-index

103
all docs

103
docs citations

103
times ranked

2263
citing authors

#	ARTICLE	IF	CITATIONS
1	Simplex optimization of analytical chemical methods. <i>Analytical Chemistry</i> , 1974, 46, 1170-1181.	3.2	338
2	Role of Dissolved Organic Matter, Nitrate, and Bicarbonate in the Photolysis of Aqueous Fipronil. <i>Environmental Science & Technology</i> , 2004, 38, 3908-3915.	4.6	155
3	The Kubelka-Munk Diffuse Reflectance Formula Revisited. <i>Applied Spectroscopy Reviews</i> , 2011, 46, 140-165.	3.4	150
4	Optimization strategies for the development of gas-liquid chromatographic methods. <i>Journal of Chromatography A</i> , 1975, 112, 267-285.	1.8	144
5	Outlier Detection in Multivariate Analytical Chemical Data. <i>Analytical Chemistry</i> , 1998, 70, 2372-2379.	3.2	129
6	Effects of amine modifiers on retention and peak shape in reversed-phase high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1985, 320, 313-323.	1.8	123
7	Disposable pipette extraction for the analysis of pesticides in fruit and vegetables using gas chromatography/mass spectrometry. <i>Journal of Chromatography A</i> , 2010, 1217, 1867-1874.	1.8	122
8	In Vivo Ambient Serotonin Measurements at Carbon-Fiber Microelectrodes. <i>Analytical Chemistry</i> , 2017, 89, 9703-9711.	3.2	87
9	Molecularly imprinted polymer sensor arrays Electronic supplementary information (ESI) available: experimental details. See http://www.rsc.org/suppdata/cc/b4/b401677g/ . <i>Chemical Communications</i> , 2004, , 1172.	2.2	63
10	Teaching the fundamentals of experimental design. <i>Analytica Chimica Acta</i> , 1983, 150, 183-198.	2.6	58
11	Capillary gas chromatographic analysis of alditol acetates of neutral and amino sugars in bacterial cell walls. <i>Journal of Chromatography A</i> , 1983, 256, 429-438.	1.8	57
12	Identifying alloys by laser-induced breakdown spectroscopy with a time-resolved high resolution echelle spectrometer. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 1133-1138.	1.6	57
13	Chemical Composition of Latent Fingerprints by Gas Chromatography–Mass Spectrometry. An Experiment for an Instrumental Analysis Course. <i>Journal of Chemical Education</i> , 2007, 84, 689.	1.1	57
14	D-Alanine as a chemical marker for the determination of streptococcal cell wall levels in mammalian tissues by gas chromatography/negative ion chemical ionization mass spectrometry. <i>Analytical Chemistry</i> , 1989, 61, 265-270.	3.2	56
15	Analysis of Cocaine, Benzoylcegonine, Codeine, and Morphine in Hair by Supercritical Fluid Extraction with Carbon Dioxide Modified with Methanol. <i>Analytical Chemistry</i> , 2001, 73, 2371-2376.	3.2	54
16	Capillary gas chromatography-mass spectrometry of carbohydrate components of legionellae and other bacteria. <i>Journal of Chromatography A</i> , 1984, 288, 399-413.	1.8	51
17	Forensic discrimination of photocopy and printer toners. III. Multivariate statistics applied to scanning electron microscopy and pyrolysis gas chromatography/mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 376, 1286-1297.	1.9	51
18	Automated QuEChERS Tips for Analysis of Pesticide Residues in Fruits and Vegetables by GC-MS. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 2299-2314.	2.4	51

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19	Gas chromatography-mass spectrometry studies on the occurrence of acetamide, propionamide, and furfuryl alcohol in pyrolyzates of bacteria, bacterial fractions, and model compounds. <i>Journal of Analytical and Applied Pyrolysis</i> , 1985, 7, 231-247.	2.6	48
20	Comprehensive Analysis of Drugs of Abuse in Urine Using Disposable Pipette Extraction. <i>Journal of Analytical Toxicology</i> , 2009, 33, 356-365.	1.7	46
21	Measurement of Carboxyhemoglobin in Forensic Blood Samples Using UV-Visible Spectrometry and Improved Principal Component Regression. <i>Applied Spectroscopy</i> , 1999, 53, 218-225.	1.2	43
22	New Approach to Multiresidue Pesticide Determination in Foods with High Fat Content Using Disposable Pipette Extraction (DPX) and Gas Chromatography-Mass spectrometry (GC-MS). <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 10531-10538.	2.4	43
23	The Analysis of Δ^9 -Tetrahydrocannabinol and Metabolite in Whole Blood and 11-Nor- Δ^9 -Tetrahydrocannabinol-9-Carboxylic Acid in Urine Using Disposable Pipette Extraction with Confirmation and Quantification by Gas Chromatography-Mass Spectrometry. <i>Journal of Analytical Toxicology</i> , 2008, 32, 659-666.	1.7	41
24	Chemical marker for the differentiation of group A and group B streptococci by pyrolysis-gas chromatography-mass spectrometry. <i>Analytical Chemistry</i> , 1987, 59, 1410-1413.	3.2	40
25	Forensic discrimination of photocopy and printer toners II. Discriminant analysis applied to infrared reflection-absorption spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 376, 1279-1285.	1.9	39
26	Discrimination of Nylon Polymers Using Attenuated Total Reflection Mid-Infrared Spectra and Multivariate Statistical Techniques. <i>Applied Spectroscopy</i> , 2005, 59, 986-992.	1.2	37
27	Multiresidue Analysis of Pesticides in Fruits and Vegetables Using Disposable Pipette Extraction (DPX) and Micro-Luke Method. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 5973-5981.	2.4	35
28	Rhamnose and muramic acid: chemical markers for bacterial cell walls in mammalian tissues. <i>Journal of Microbiological Methods</i> , 1986, 5, 271-282.	0.7	34
29	Mass spectrometric quantitation of muramic acid, a bacterial cell wall component, in septic synovial fluids. <i>Arthritis and Rheumatism</i> , 1989, 32, 1268-1272.	6.7	33
30	Experimental Optimization of Chromatographic Systems. <i>Separation and Purification Reviews</i> , 1976, 5, 333-360.	0.8	32
31	Quantitative pyrolysis gas chromatography-mass spectrometry of bacterial cell walls. <i>Analytical Biochemistry</i> , 1982, 120, 59-65.	1.1	31
32	Gas chromatographic-mass spectrometric determination of muramic acid content and pyrolysis profiles for a group of gram-positive and gram-negative bacteria. <i>Analyst</i> , 1985, 110, 381.	1.7	29
33	Multimode Imaging in the Thermal Infrared for Chemical Contrast Enhancement. Part 3: Visualizing Blood on Fabrics. <i>Analytical Chemistry</i> , 2010, 82, 8427-8431.	3.2	29
34	High-performance liquid chromatographic analysis of vancomycin in plasma, bone, atrial appendage tissue and pericardial fluid. <i>Biomedical Applications</i> , 1987, 417, 121-128.	1.7	27
35	Automated development of analytical chemical methods. <i>Analytica Chimica Acta</i> , 1977, 95, 107-133.	2.6	25
36	The Confirmation of Volatiles by Solid-Phase Microextraction and GC-MS in the Investigation of Two Traffic Fatalities. <i>Journal of Analytical Toxicology</i> , 1997, 21, 286-290.	1.7	25

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37	Microextraction, capillary electrophoresis, and mass spectrometry for forensic analysis of azo and methine basic dyes from acrylic fibers. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 2087-2094.	1.9	25
38	Difficulties in the Application of Simplex Optimization to Analytical Chemistry. <i>Analytical Letters</i> , 1975, 8, 369-376.	1.0	24
39	Cefazolin Versus Cefamandole for Prophylaxis During Total Joint Arthroplasty. <i>Clinical Orthopaedics and Related Research</i> , 1988, &NA;, 117???122.	0.7	24
40	Computer-assisted optimization of a high-performance liquid chromatographic separation for chlorpromazine and thirteen metabolites. <i>Journal of Chromatography A</i> , 1989, 485, 585-596.	1.8	24
41	2-Butenoic acid, a chemical marker for poly- β -hydroxybutyrate identified by pyrolysis-gas chromatography / mass spectrometry in analyses of whole microbial cells. <i>Journal of Analytical and Applied Pyrolysis</i> , 1991, 19, 237-249.	2.6	23
42	Pyrolysis gas chromatography/mass spectrometry investigation of a thermally cured polymer. <i>Journal of Analytical and Applied Pyrolysis</i> , 1998, 45, 23-40.	2.6	23
43	Analysis of Volatile Fragrance and Flavor Compounds by Headspace Solid Phase Microextraction and GC-MS: An Undergraduate Instrumental Analysis Experiment. <i>Journal of Chemical Education</i> , 1999, 76, 245.	1.1	23
44	Characterization of simple carbohydrate structure by glass capillary pyrolysis gas chromatography and cluster analysis. <i>Analytical Chemistry</i> , 1982, 54, 741-747.	3.2	22
45	Recognition of chemical markers in chromatographic data by an individual feature approach to classification.. <i>Analytical Chemistry</i> , 1992, 64, 2383-2392.	3.2	22
46	UV laser pyrolysis fast gas chromatography/time-of-flight mass spectrometry for rapid characterization of synthetic polymers: optimization of instrumental parameters. <i>Journal of Analytical and Applied Pyrolysis</i> , 2004, 71, 327-341.	2.6	22
47	Profiling, structural characterization, and trace detection of chemical markers for microorganisms by gas chromatography-mass spectrometry. <i>Journal of Microbiological Methods</i> , 1989, 9, 57-69.	0.7	20
48	Py-GC/MS and MALDI-TOF/TOF CID Study of Polysulfone Fragmentation Reactions. <i>Macromolecules</i> , 2009, 42, 3005-3013.	2.2	20
49	Characterization of an enzymatic determination of arsenic(V) based on response surface methodology. <i>Analytica Chimica Acta</i> , 1981, 133, 169-182.	2.6	19
50	Fourier transform Raman spectroscopic studies of a polyimide curing reaction. <i>Analytica Chimica Acta</i> , 1994, 293, 119-128.	2.6	19
51	Vector representation, feature selection, and fingerprinting: an application of pattern recognition to pyrolysis gas chromatography/mass spectrometry of nucleosides. <i>Analytical Chemistry</i> , 1993, 65, 70-77.	3.2	18
52	Forensic analysis of anthraquinone, azo, and metal complex acid dyes from nylon fibers by micro-extraction and capillary electrophoresis. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 2077-2085.	1.9	18
53	Multimode Imaging in the Thermal Infrared for Chemical Contrast Enhancement. Part 1: Methodology. <i>Analytical Chemistry</i> , 2010, 82, 8412-8420.	3.2	18
54	Multimode Imaging in the Thermal Infrared for Chemical Contrast Enhancement. Part 2: Simulation Driven Design. <i>Analytical Chemistry</i> , 2010, 82, 8421-8426.	3.2	16

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55	Differentiation of Isomeric Alditol Hexaacetates and Identification of Aldohexoses by Electron Impact Mass Spectrometry. <i>Analytical Chemistry</i> , 1994, 66, 2656-2668.	3.2	15
56	UV laser pyrolysis fast gas chromatography/time-of-flight mass spectrometry for rapid characterization of synthetic polymers: instrument development. <i>Journal of Analytical and Applied Pyrolysis</i> , 2004, 71, 313-325.	2.6	15
57	Detection Limits for Blood on Four Fabric Types Using Infrared Diffuse Reflection Spectroscopy in Mid- and Near-Infrared Spectral Windows. <i>Analytical Chemistry</i> , 2015, 87, 8740-8747.	3.2	15
58	Mid-infrared emissivity of nylon, cotton, acrylic, and polyester fabrics as a function of moisture content. <i>Textile Research Journal</i> , 2020, 90, 1431-1445.	1.1	15
59	Development of a rapid extraction and high-performance liquid chromatographic separation for amitriptyline and six biological metabolites. <i>Biomedical Applications</i> , 1986, 383, 119-127.	1.7	14
60	Optimization of Gap Derivatives for Measuring Blood Concentration of Fabric Using Vibrational Spectroscopy. <i>Applied Spectroscopy</i> , 2015, 69, 733-748.	1.2	14
61	A chemical and physical comparison of ferritin subunit species fractionated by high-performance liquid chromatography. <i>Archives of Biochemistry and Biophysics</i> , 1984, 233, 260-266.	1.4	13
62	Modified interface for pyrolysis gas chromatography with capillary columns. <i>Analytical Chemistry</i> , 1985, 57, 778-780.	3.2	13
63	Discrimination of Forensic Analytical Chemical Data Using Multivariate Statistics. , 0, , 333-374.		12
64	Discrimination and clustering of streptococci by pyrolysis gas chromatography/mass spectrometry and multivariate data analysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 1990, 18, 97-115.	2.6	11
65	Rapid optimization and minimal complexity in computational neural network multivariate calibration of chlorinated hydrocarbons using Raman spectroscopy. <i>Journal of Chemometrics</i> , 2001, 15, 29-48.	0.7	11
66	Py-GC/MS and MALDI-TOF/TOF CID Study of Poly(phenyl sulfone) Fragmentation Reactions. <i>Macromolecules</i> , 2009, 42, 5526-5533.	2.2	11
67	Fast voltammetry of metals at carbon-fiber microelectrodes: towards an online speciation sensor. <i>Analyst</i> , The, 2016, 141, 6432-6437.	1.7	11
68	Analytical Microbiology: A Perspective. , 1990, , 1-17.		11
69	TPH and BTEX Quantitation in Gasoline and Diesel Contaminated Soils by Capillary Gas Chromatography-Mass Spectrometry. <i>Journal of Chromatographic Science</i> , 1995, 33, 98-108.	0.7	10
70	Analysis of Titanium Dioxide in Synthetic Fibers Using Raman Microspectroscopy. <i>Applied Spectroscopy</i> , 2009, 63, 407-411.	1.2	10
71	A quantitative method for determining a representative detection limit of the forensic luminol test for latent bloodstains. <i>Forensic Science International</i> , 2017, 278, 396-403.	1.3	10
72	A Rapid High Performance Liquid Chromatographic Method for the Simultaneous Measurement of Six Tricyclic Antidepressants. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1983, 6, 2761-2773.	0.9	9

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73	Variations in enzymatic hydrolysis efficiencies for amitriptyline and cyclobenzaprine in urine. Journal of Analytical Toxicology, 2016, 40, 732-737.	1.7	9
74	A pyrolysis-gas chromatographic/mass spectrometric method for measuring the DNA content of cultured mammalian cells. Journal of Analytical and Applied Pyrolysis, 1992, 24, 107-122.	2.6	8
75	Characterization of high molecular weight poly(p-phenylenethynylene)s by pyrolysis gas chromatography/mass spectrometry with multivariate data analysis. Journal of Analytical and Applied Pyrolysis, 2002, 64, 313-326.	2.6	8
76	Detection Limits for Blood on Fabrics Using Attenuated Total Reflection Fourier Transform Infrared (ATR FT-IR) Spectroscopy and Derivative Processing. Applied Spectroscopy, 2017, 71, 839-846.	1.2	8
77	Detecting gunshot residue by laser induced breakdown spectroscopy. , 2002, , FB2.		7
78	Minimally Invasive Identification of Degraded Polyester-Urethane Magnetic Tape Using Attenuated Total Reflection Fourier Transform Infrared Spectroscopy and Multivariate Statistics. Analytical Chemistry, 2015, 87, 9265-9272.	3.2	7
79	Chemical contrast observed in thermal images of blood-stained fabrics exposed to steam. Analyst, The, 2015, 140, 6222-6225.	1.7	6
80	Glass capillary T-connections for high resolution GC. Journal of High Resolution Chromatography, 1981, 4, 186-187.	2.0	5
81	Pyrolysis GC/MS Profiling of Chemical Markers for Microorganisms. , 1990, , 179-200.		5
82	Experimental Design: A Chemometric Approach. American Statistician, 1994, 48, 172.	0.9	5
83	Coating Effects on Mid-Infrared Reflection Spectra of Fabrics. Applied Spectroscopy, 2011, 65, 876-884.	1.2	5
84	Ridge patterns of blood-transferred simulated fingerprints observed on fabrics via steam thermography. Forensic Chemistry, 2016, 1, 74-77.	1.7	4
85	Attenuated Total Reflection (ATR) Sampling in Infrared Spectroscopy of Heterogeneous Materials Requires Reproducible Pressure Control. Applied Spectroscopy, 2017, 71, 97-104.	1.2	4
86	An Investigation of the Metabolism of Amitriptyline Using High Performance Liquid Chromatography. Journal of Liquid Chromatography and Related Technologies, 1986, 9, 1727-1745.	0.9	3
87	A Sample Concentrator for Sensitivity Enhancement in Chromatographic Analyses. Analytical Chemistry, 1998, 70, 2191-2195.	3.2	3
88	Fast voltammetry of metals at carbon-fiber microelectrodes: rapid determination of solution formation constants. Analyst, The, 2016, 141, 6025-6030.	1.7	3
89	Analysis of Bacterial Amino Acids. , 1990, , 89-99.		3
90	Advances in the Application of Optimization Methodology in Chemistry. ACS Symposium Series, 1977, , 1-13.	0.5	2

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91	Forensic discrimination of photocopy toners by FT-infrared reflectance spectroscopy. , 1998, , .		2
92	Characterization and identification of ammunition by laser induced breakdown spectroscopy. , 2002, , ThE20.		2
93	Reversible Gap Derivatives and Their Integration. Applied Spectroscopy, 2016, 70, 1044-1054.	1.2	2
94	Classification Strategies for Fusing UV/visible Absorbance and Fluorescence Microspectrophotometry Spectra from Textile Fibers. Microscopy and Microanalysis, 2018, 24, 1168-1169.	0.2	2
95	An Improved-Efficiency Compact Lamp for the Thermal Infrared. Applied Spectroscopy, 2015, 69, 1511-1513.	1.2	1
96	A study of the mid-infrared emissivity of dried blood on fabrics. Forensic Chemistry, 2020, 19, 100238.	1.7	1
97	Diffuse reflectance infrared Fourier transform spectroscopy (DRIFTS) detection limits for blood on fabric: Orientation and coating uniformity effects. Science and Justice - Journal of the Forensic Science Society, 2021, 61, 603-616.	1.3	1
98	Profiling and Detection of Bacterial Carbohydrates. , 1990, , 71-87.		1
99	In Reply: Necessity of A Priori Design Considerations in Experimental Statistical Determination of Deviation from Linearity. Clinical Chemistry, 1979, 25, 2053-2055.	1.5	0
100	Comparative study of degradation between the carbon black back coat layer and magnetic layer in magnetic audio tapes using attenuated total reflectance Fourier transform infrared spectroscopy and machine learning techniques. Journal of Chemometrics, 2021, 35, e3318.	0.7	0
101	Quantitative elemental analysis of metal alloys by laser induced breakdown spectroscopy using multivariate calibration. , 2002, , .		0
102	Gas Chromatography and Mass Spectrometry for Analytical Microbiology. , 1990, , 19-52.		0
103	Employing supervised classification techniques in determining playability status of polyesterâ€urethane magnetic audio tapes. Journal of Chemometrics, 2021, 35, e3326.	0.7	0