

# 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	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. <i>Journal of Chemometrics</i> , 2021, 35, e3318.	0.7	0
2	Diffuse reflectance infrared Fourier transform spectroscopy (DRIFTS) detection limits for blood on fabric: Orientation and coating uniformity effects. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2021, 61, 603-616.	1.3	1
3	Employing supervised classification techniques in determining playability status of polyester-urethane magnetic audio tapes. <i>Journal of Chemometrics</i> , 2021, 35, e3326.	0.7	0
4	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
5	A study of the mid-infrared emissivity of dried blood on fabrics. <i>Forensic Chemistry</i> , 2020, 19, 100238.	1.7	1
6	Classification Strategies for Fusing UV/visible Absorbance and Fluorescence Microspectrophotometry Spectra from Textile Fibers. <i>Microscopy and Microanalysis</i> , 2018, 24, 1168-1169.	0.2	2
7	In Vivo Ambient Serotonin Measurements at Carbon-Fiber Microelectrodes. <i>Analytical Chemistry</i> , 2017, 89, 9703-9711.	3.2	87
8	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
9	Attenuated Total Reflection (ATR) Sampling in Infrared Spectroscopy of Heterogeneous Materials Requires Reproducible Pressure Control. <i>Applied Spectroscopy</i> , 2017, 71, 97-104.	1.2	4
10	Detection Limits for Blood on Fabrics Using Attenuated Total Reflection Fourier Transform Infrared (ATR FT-IR) Spectroscopy and Derivative Processing. <i>Applied Spectroscopy</i> , 2017, 71, 839-846.	1.2	8
11	Ridge patterns of blood-transferred simulated fingerprints observed on fabrics via steam thermography. <i>Forensic Chemistry</i> , 2016, 1, 74-77.	1.7	4
12	Fast voltammetry of metals at carbon-fiber microelectrodes: rapid determination of solution formation constants. <i>Analyst</i> , The, 2016, 141, 6025-6030.	1.7	3
13	Variations in enzymatic hydrolysis efficiencies for amitriptyline and cyclobenzaprine in urine. <i>Journal of Analytical Toxicology</i> , 2016, 40, 732-737.	1.7	9
14	Fast voltammetry of metals at carbon-fiber microelectrodes: towards an online speciation sensor. <i>Analyst</i> , The, 2016, 141, 6432-6437.	1.7	11
15	Reversible Gap Derivatives and Their Integration. <i>Applied Spectroscopy</i> , 2016, 70, 1044-1054.	1.2	2
16	Optimization of Gap Derivatives for Measuring Blood Concentration of Fabric Using Vibrational Spectroscopy. <i>Applied Spectroscopy</i> , 2015, 69, 733-748.	1.2	14
17	An Improved-Efficiency Compact Lamp for the Thermal Infrared. <i>Applied Spectroscopy</i> , 2015, 69, 1511-1513.	1.2	1
18	Chemical contrast observed in thermal images of blood-stained fabrics exposed to steam. <i>Analyst</i> , The, 2015, 140, 6222-6225.	1.7	6

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19	Minimally Invasive Identification of Degraded Polyester-Urethane Magnetic Tape Using Attenuated Total Reflection Fourier Transform Infrared Spectroscopy and Multivariate Statistics. <i>Analytical Chemistry</i> , 2015, 87, 9265-9272.	3.2	7
20	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
21	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
22	The Kubelka-Munk Diffuse Reflectance Formula Revisited. <i>Applied Spectroscopy Reviews</i> , 2011, 46, 140-165.	3.4	150
23	Coating Effects on Mid-Infrared Reflection Spectra of Fabrics. <i>Applied Spectroscopy</i> , 2011, 65, 876-884.	1.2	5
24	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
25	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
26	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
27	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
28	Multimode Imaging in the Thermal Infrared for Chemical Contrast Enhancement. Part 1: Methodology. <i>Analytical Chemistry</i> , 2010, 82, 8412-8420.	3.2	18
29	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
30	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
31	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
32	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
33	Py-GC/MS and MALDI-TOF/TOF CID Study of Polysulfone Fragmentation Reactions. <i>Macromolecules</i> , 2009, 42, 3005-3013.	2.2	20
34	Analysis of Titanium Dioxide in Synthetic Fibers Using Raman Microspectroscopy. <i>Applied Spectroscopy</i> , 2009, 63, 407-411.	1.2	10
35	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
36	The Analysis of $\Delta^9$ -Tetrahydrocannabinol and Metabolite in Whole Blood and 11-Nor- $\Delta^9$ -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

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37	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
38	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
39	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
40	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
41	Role of Dissolved Organic Matter, Nitrate, and Bicarbonate in the Photolysis of Aqueous Fipronil. <i>Environmental Science &amp; Technology</i> , 2004, 38, 3908-3915.	4.6	155
42	Molecularly imprinted polymer sensor arrays Electronic supplementary information (ESI) available: experimental details. See <a href="http://www.rsc.org/suppdata/cc/b4/b401677g/">http://www.rsc.org/suppdata/cc/b4/b401677g/</a> . <i>Chemical Communications</i> , 2004, , 1172.	2.2	63
43	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
44	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
45	Detecting gunshot residue by laser induced breakdown spectroscopy. , 2002, , FB2.		7
46	Characterization and identification of ammunition by laser induced breakdown spectroscopy. , 2002, , ThE20.		2
47	Characterization of high molecular weight poly(p-phenyleneethynylene)s by pyrolysis gas chromatography/mass spectrometry with multivariate data analysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2002, 64, 313-326.	2.6	8
48	Quantitative elemental analysis of metal alloys by laser induced breakdown spectroscopy using multivariate calibration. , 2002, , .		0
49	Analysis of Cocaine, Benzoylecgonine, 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
50	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
51	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
52	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
53	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
54	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

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55	A Sample Concentrator for Sensitivity Enhancement in Chromatographic Analyses. <i>Analytical Chemistry</i> , 1998, 70, 2191-2195.	3.2	3
56	Outlier Detection in Multivariate Analytical Chemical Data. <i>Analytical Chemistry</i> , 1998, 70, 2372-2379.	3.2	129
57	Forensic discrimination of photocopy toners by FT-infrared reflectance spectroscopy. , 1998, , .		2
58	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
59	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
60	Fourier transform Raman spectroscopic studies of a polyimide curing reaction. <i>Analytica Chimica Acta</i> , 1994, 293, 119-128.	2.6	19
61	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
62	Experimental Design: A Chemometric Approach. <i>American Statistician</i> , 1994, 48, 172.	0.9	5
63	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
64	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
65	A pyrolysis-gas chromatographic/mass spectrometric method for measuring the DNA content of cultured mammalian cells. <i>Journal of Analytical and Applied Pyrolysis</i> , 1992, 24, 107-122.	2.6	8
66	2-Butenoic acid, a chemical marker for poly- $\beta$ -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
67	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
68	Pyrolysis GC/MS Profiling of Chemical Markers for Microorganisms. , 1990, , 179-200.		5
69	Analytical Microbiology: A Perspective. , 1990, , 1-17.		11
70	Profiling and Detection of Bacterial Carbohydrates. , 1990, , 71-87.		1
71	Analysis of Bacterial Amino Acids. , 1990, , 89-99.		3
72	Gas Chromatography and Mass Spectrometry for Analytical Microbiology. , 1990, , 19-52.		0

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73	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
74	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
75	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
76	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
77	Cefazolin Versus Cefamandole for Prophylaxis During Total Joint Arthroplasty. <i>Clinical Orthopaedics and Related Research</i> , 1988, &NA;, 117???122.	0.7	24
78	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
79	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
80	An Investigation of the Metabolism of Amitriptyline Using High Performance Liquid Chromatography. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1986, 9, 1727-1745.	0.9	3
81	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
82	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
83	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
84	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
85	Gas chromatographic-mass spectrometric determination of muramic acid content and pyrolysis profiles for a group of gram-positive and gram-negative bacteria. <i>Analyst, The</i> , 1985, 110, 381.	1.7	29
86	Modified interface for pyrolysis gas chromatography with capillary columns. <i>Analytical Chemistry</i> , 1985, 57, 778-780.	3.2	13
87	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
88	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
89	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
90	Teaching the fundamentals of experimental design. <i>Analytica Chimica Acta</i> , 1983, 150, 183-198.	2.6	58

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91	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
92	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
93	Quantitative pyrolysis gas chromatography-mass spectrometry of bacterial cell walls. <i>Analytical Biochemistry</i> , 1982, 120, 59-65.	1.1	31
94	Glass capillary T-connections for high resolution GC. <i>Journal of High Resolution Chromatography</i> , 1981, 4, 186-187.	2.0	5
95	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
96	In Reply: Necessity of A Priori Design Considerations in Experimental Statistical Determination of Deviation from Linearity. <i>Clinical Chemistry</i> , 1979, 25, 2053-2055.	1.5	0
97	Advances in the Application of Optimization Methodology in Chemistry. <i>ACS Symposium Series</i> , 1977, , 1-13.	0.5	2
98	Automated development of analytical chemical methods. <i>Analytica Chimica Acta</i> , 1977, 95, 107-133.	2.6	25
99	Experimental Optimization of Chromatographic Systems. <i>Separation and Purification Reviews</i> , 1976, 5, 333-360.	0.8	32
100	Optimization strategies for the development of gas-liquid chromatographic methods. <i>Journal of Chromatography A</i> , 1975, 112, 267-285.	1.8	144
101	Difficulties in the Application of Simplex Optimization to Analytical Chemistry. <i>Analytical Letters</i> , 1975, 8, 369-376.	1.0	24
102	Simplex optimization of analytical chemical methods. <i>Analytical Chemistry</i> , 1974, 46, 1170-1181.	3.2	338
103	Discrimination of Forensic Analytical Chemical Data Using Multivariate Statistics. , 0, , 333-374.		12