Simon W. Lewis

List of Publications by Year
in descending order

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129	3,743	117453	149479
papers	citations	34 h-index	56 g-index

170	170	170	2918
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Analytical applications of tris(2,2â€²-bipyridyl)ruthenium(III) as a chemiluminescent reagent. Analytica Chimica Acta, 1999, 378, 1-41.	2.6	408
2	Forensic application of the luminol reaction as a presumptive test for latent blood detection. Talanta, 2007, 72, 896-913.	2.9	235
3	Sequential injection analysis. Analyst, The, 2002, 127, 997-1020.	1.7	197
4	Analytical methodology for the determination of urea: current practice and future trends. TrAC - Trends in Analytical Chemistry, 2002, 21, 389-400.	5.8	106
5	The detection of latent fingermarks on porous surfaces using amino acid sensitive reagents: A review. Analytica Chimica Acta, 2009, 652, 128-142.	2.6	100
6	Capillary electrophoresis for forensic drug analysis: A review. Talanta, 2005, 67, 269-279.	2.9	84
7	Selective determination of amino acids using flow injection analysis coupled with chemiluminescence detection. Analytica Chimica Acta, 2003, 480, 67-77.	2.6	76
8	A case study in forensic chemistry: The Bali bombings. Talanta, 2005, 67, 262-268.	2.9	75
9	Determination of 5-hydroxytryptamine (serotonin) and related indoles by flow injection analysis with acidic potassium permanganate chemiluminescence detection. Analytica Chimica Acta, 1998, 362, 131-139.	2.6	73
10	Monitoring the total phenolic/antioxidant levels in wine using flow injection analysis with acidic potassium permanganate chemiluminescence detection. Analytica Chimica Acta, 2003, 499, 47-56.	2.6	69
11	Aqueous Nile blue: a simple, versatile and safe reagent for the detection of latent fingermarks. Chemical Communications, 2014, 50, 3341-3343.	2.2	67
12	Analytical separations of mammalian decomposition products for forensic science: A review. Analytica Chimica Acta, 2010, 682, 9-22.	2.6	66
13	Recent developments in the electrochemical detection of explosives: Towards field-deployable devices for forensic science. TrAC - Trends in Analytical Chemistry, 2017, 97, 374-384.	5.8	65
14	Lawsone: a novel reagent for the detection of latent fingermarks on paper surfaces. Chemical Communications, 2008, , 3513.	2.2	61
15	Hypohalites and related oxidants as chemiluminescence reagents: a review. Luminescence, 2004, 19, 94-115.	1.5	57
16	Comparison of soluble manganese(IV) and acidic potassium permanganate chemiluminescence detection using flow injection and sequential injection analysis for the determination of ascorbic acid in Vitamin C tablets. Talanta, 2004, 64, 130-134.	2.9	56
17	Chemometrics in forensic science: approaches and applications. Analyst, The, 2021, 146, 2415-2448.	1.7	54
18	Determination of morphine, oripavine and pseudomorphine using capillary electrophoresis with acidic potassium permanganate chemiluminescence detection. Analyst, The, 2000, 125, 91-95.	1.7	53

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19	Determination of Ranitidine and Salbutamol by Flow Injection Analysis with Chemiluminescence Detection. Analytica Chimica Acta, 1999, 384, 151-158.	2.6	51
20	Micronised Egyptian blue pigment: A novel near-infrared luminescent fingerprint dusting powder. Dyes and Pigments, 2016, 132, 310-315.	2.0	48
21	Metal Halide Perovskite Nanorods: Shape Matters. Advanced Materials, 2020, 32, e2002736.	11.1	48
22	Pulsed flow chemistry: a new approach to solution handling for flow analysis coupled with chemiluminescence detection. Analyst, The, 2000, 125, 1869-1874.	1.7	46
23	Determination of morphine in water immiscible process streams using sequential injection analysis coupled with acidic permanganate chemiluminescence detectionâ€. Analyst, The, 1998, 123, 601-605.	1.7	45
24	Detection of 2,4,6-Trinitrotoluene Using a Miniaturized, Disposable Electrochemical Sensor with an Ionic Liquid Gel-Polymer Electrolyte Film. Analytical Chemistry, 2017, 89, 4729-4736.	3.2	45
25	Determination of selected neurotransmitter metabolites using monolithic column chromatography coupled with chemiluminescence detection. Talanta, 2005, 67, 585-589.	2.9	44
26	Rapid determination of Papaver somniferum alkaloids in process streams using monolithic column high-performance liquid chromatography with chemiluminescence detection. Analytica Chimica Acta, 2007, 597, 19-23.	2.6	44
27	Determination of codeine, 6-methoxycodeine and thebaine using capillary electrophoresis with tris(2,2â€²-bipyridyl)ruthenium(II) chemiluminescence detection. Analytical Communications, 1998, 35, 321-324.	2.2	43
28	Flow injection assays with chemiluminescence and bioluminescence detection â€” A review. Luminescence, 1993, 8, 183-199.	1.3	40
29	Soluble manganese(iv); a new chemiluminescence reagent. Analyst, The, 2001, 126, 1636-1639.	1.7	39
30	Revealing the spatial distribution of chemical species within latent fingermarks using vibrational spectroscopy. Analyst, The, 2018, 143, 4027-4039.	1.7	38
31	Sequential injection analysis: an alternative approach to process analytical chemistry. TrAC - Trends in Analytical Chemistry, 1999, 18, 346-353.	5.8	37
32	A capillary electrophoresis method for the determination of selected biogenic amines and amino acids in mammalian decomposition fluid. Talanta, 2010, 81, 1697-1702.	2.9	37
33	Procedures for the enhancement of selectivity in liquid phase chemiluminescence detection. Analytica Chimica Acta, 1991, 250, 145-155.	2.6	36
34	Investigations into the initial composition of latent fingermark lipids by gas chromatographyâ€“mass spectrometry. Forensic Science International, 2015, 254, 133-147.	1.3	36
35	Nanomechanical mapping of latent fingermarks: A preliminary investigation into the changes in surface interactions and topography over time. Forensic Science International, 2016, 267, 16-24.	1.3	34
36	The Determination of Morphine in the Larvae of Calliphora stygia using Flow Injection Analysis and HPLC with Chemiluminescence Detection. Journal of Analytical Toxicology, 2006, 30, 519-523.	1.7	33

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37	Forensic discrimination of lipsticks using visible and attenuated total reflectance infrared spectroscopy. Forensic Science International, 2019, 298, 88-96.	1.3	33
38	Determination of proline in wine using flow injection analysis with tris(2,2?-bipyridyl)ruthenium(II) chemiluminescence detection. Talanta, 2004, 64, 894-898.	2.9	31
39	The Determination of Psilocin and Psilocybin in Hallucinogenic Mushrooms by HPLC Utilizing a Dual Reagent Acidic Potassium Permanganate and Tris(2,2'-bipyridyl)ruthenium(II) Chemiluminescence Detection System. Journal of Forensic Sciences, 2006, 51, 45-51.	0.9	31
40	Preliminary Studies into the Characterization of Chemical Markers of Decomposition for Geoforensics*. Journal of Forensic Sciences, 2010, 55, 308-314.	0.9	31
41	Determination of morphine in process streams by sequential injection analysis with chemiluminescence detection. Analytical and Bioanalytical Chemistry, 1996, 355, 591-595.	1.9	30
42	Rapid characterisation and classification of automotive clear coats by attenuated total reflectance infrared spectroscopy. Analytical Methods, 2012, 4, 2687.	1.3	29
43	Flow analysis based on a pulsed flow of solution: theory, instrumentation and applications. Talanta, 2002, 58, 1029-1042.	2.9	28
44	Characterization of Automotive Paint Clear Coats by Ultraviolet Absorption Microspectrophotometry with Subsequent Chemometric Analysis. Applied Spectroscopy, 2010, 64, 1122-1125.	1.2	28
45	Infrared microscopy studies of the chemical composition of latent fingermark residues. Microchemical Journal, 2013, 111, 40-46.	2.3	28
46	Determination of psilocin and psilocybin using flow injection analysis with acidic potassium permanganate and tris(2,2â€²-bipyridyl)ruthenium(II) chemiluminescence detection respectively. Talanta, 2005, 67, 354-359.	2.9	27
47	Determination of glyphosate mono-isopropylamine salt in process samples using flow injection analysis with tris(2,2â€²-bipyridyl)ruthenium(II) chemiluminescence detection. Talanta, 2004, 64, 534-537.	2.9	25
48	Monitoring urea levels during haemodialysis with a pulsed-flow chemiluminescence analyser. Analytica Chimica Acta, 2002, 461, 131-139.	2.6	24
49	Synchrotron FTIR characterisation of automotive primer surfacer paint coatings for forensic purposes. Talanta, 2014, 118, 156-161.	2.9	24
50	Determination of Î±,4-dihydroxy-3-methoxybenzeneacetic acid (vanilmandelic acid) by flow injection analysis coupled with luminolâ€“hexacyanoferrate(III) chemiluminescence detection. Analytical Communications, 1999, 36, 131-134.	2.2	23
51	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.	0.7	22
52	Detection of latent fingermarks on thermal printer paper by dry contact with 1,2-indanedione. Analytical Methods, 2010, 2, 631.	1.3	22
53	Revealing the Elemental Distribution within Latent Fingermarks Using Synchrotron Sourced X-ray Fluorescence Microscopy. Analytical Chemistry, 2019, 91, 10622-10630.	3.2	22
54	Characterisation of chemical component migration in automotive paint by synchrotron infrared imaging. Forensic Science International, 2013, 228, 165-169.	1.3	21

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55	Substituted naphthoquinones as novel amino acid sensitive reagents for the detection of latent fingermarks on paper surfaces. Talanta, 2010, 82, 1717-1724.	2.9	20
56	Preparation, characterization, and application of a lipophilic coated exfoliated Egyptian blue for near-infrared luminescent latent fingermark detection. Forensic Chemistry, 2020, 18, 100208.	1.7	20
57	Determination of sodium oxalate in Bayer liquor using flow-analysis incorporating an anion exchange column and tris(2,2â€²-bipyridyl)ruthenium(II) chemiluminescence detection. Analytica Chimica Acta, 2002, 458, 291-296.	2.6	18
58	Characterisation and classification of automotive clear coats with Raman spectroscopy and chemometrics for forensic purposes. Journal of Raman Spectroscopy, 2016, 47, 948-955.	1.2	18
59	Fundamental studies of the adhesion of explosives to textile and non-textile surfaces. Forensic Science International, 2017, 273, 88-95.	1.3	18
60	Further investigations into the single metal deposition (SMD II) technique for the detection of latent fingermarks. Forensic Science International, 2016, 268, 62-72.	1.3	17
61	The effect of environmental degradation on the characterisation of automotive clear coats by infrared spectroscopy. Talanta, 2016, 148, 715-720.	2.9	17
62	Analysis of squalene and its transformation by-products in latent fingermarks by ultrahigh-performance liquid chromatography-high resolution accurate mass Orbitrapâ„¢ mass spectrometry. Forensic Chemistry, 2020, 17, 100193.	1.7	17
63	Chemiluminescence from the oxidation of urea and ammonia with hypobromite and N-bromosuccinimide. Talanta, 2004, 64, 283-289.	2.9	16
64	Investigation into the temporal stability of aqueous standard solutions of psilocin and psilocybin using high performance liquid chromatography. Science and Justice - Journal of the Forensic Science Society, 2006, 46, 91-96.	1.3	16
65	Monitoring compositional changes of the lipid fraction of fingermark residues deposited on paper during storage. Forensic Chemistry, 2016, 2, 29-36.	1.7	16
66	A study into the ageing and dating of blue ball tip inks on paper usingin situvisible spectroscopy with chemometrics. Analytical Methods, 2018, 10, 5613-5621.	1.3	16
67	A Rapid Test for Heroin (3,6-Diacetylmorphine) Based on Two Chemiluminescence Reactions. Journal of Forensic Sciences, 2006, 51, 1080-1084.	0.9	15
68	Optimisation of recovery protocols for double-base smokeless powder residues analysed by total vaporisation (TV) SPME/GC-MS. Talanta, 2016, 158, 368-374.	2.9	15
69	Classification of polyethylene cling films by attenuated total reflectance-Fourier transform infrared spectroscopy and chemometrics. Analytical Methods, 2017, 9, 192-197.	1.3	15
70	Improving the confidence of â€œquestioned versus knownâ€•fiber comparisons using microspectrophotometry and chemometrics. Forensic Chemistry, 2016, 2, 15-21.	1.7	14
71	Preparation and preliminary evaluation of anhydrous tris(2,2â€²-bipyridyl)ruthenium(III) perchlorate as a temporally stable reagent for analytical chemiluminescence. Analytica Chimica Acta, 2000, 421, 1-6.	2.6	13
72	Determination of carboxylic acids in oxidised engine oils by liquid chromatography with chemiluminescence detection. Analytica Chimica Acta, 1992, 266, 257-264.	2.6	12

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73	Preliminary Evaluation of Dual Acidic Potassium Permanganate and Tris(2,2â€²-bipyridyl)ruthenium(II) Chemiluminescence Detection for the HPLC Determination of Papaver somniferum Alkaloids. Australian Journal of Chemistry, 2004, 57, 1001.	0.5	12
74	In situ studies into the characterisation and degradation of blue ballpoint inks by diffuse reflectance visible spectroscopy. Analytical Methods, 2015, 7, 4892-4900.	1.3	12
75	Investigations into the source attribution of party sparklers using trace elemental analysis and chemometrics. Analytical Methods, 2020, 12, 4939-4948.	1.3	12
76	A forensic international market survey of condom lubricants and personal hygiene products using ATR-FTIR coupled to chemometrics. Science and Justice - Journal of the Forensic Science Society, 2021, 61, 235-248.	1.3	12
77	Well-dispersed cadmium sulfide prepared in the presence of laponite by microwave irradiation. Solid State Sciences, 2008, 10, 563-568.	1.5	11
78	A new p-dimethylaminocinnamaldehyde reagent formulation for the photoluminescence detection of latent fingermarks on paper. Forensic Science International, 2015, 257, 20-28.	1.3	11
79	Luminescence detection of latent fingermarks on non-porous surfaces with heavy-metal-free quantum dots. Forensic Chemistry, 2020, 18, 100222.	1.7	11
80	Rational design and preliminary analytical evaluation of two novel oxamide reagents for aqueous peroxyoxalate chemiluminescence. Analyst, The, 1998, 123, 1239-1245.	1.7	10
81	Determination of amino acids and amines in mammalian decomposition fluid by direct injection liquid chromatography-electrospray ionisation-tandem mass spectrometry. Analytical Methods, 2012, 4, 363-370.	1.3	10
82	Preliminary studies into the effect of environmental degradation on the characterisation of automotive clear coats by attenuated total reflectance infrared spectroscopy. Analytical Methods, 2013, 5, 4984.	1.3	10
83	p-Dimethylaminobenzaldehyde: preliminary investigations into a novel reagent for the detection of latent fingermarks on paper surfaces. Analytical Methods, 2013, 5, 3207.	1.3	10
84	Forensic application of a rapid one-step tetramethylbenzidine-based test for the presumptive trace detection of bloodstains at the crime scene and in the laboratory. Forensic Chemistry, 2016, 2, 63-74.	1.7	10
85	Investigations into sampling approaches for chemical analysis of latent fingermark residue. Forensic Chemistry, 2019, 14, 100166.	1.7	10
86	Determination of aldehydes in used engine oils by liquid chromatography with chemiluminescence detection. Journal of Chromatography A, 1995, 704, 329-337.	1.8	9
87	Postulation of a Phenoxyl Radical Intermediate as the Species Responsible for the Background Emission Observed With Certain Peroxyoxalate Chemiluminescence Reagents. Analytical Communications, 1997, 34, 17-20.	2.2	9
88	Discrimination of automotive window tint using ATR-FTIR spectroscopy and chemometrics. Forensic Science International, 2020, 313, 110338.	1.3	9
89	Research and development topics in Analytical Chemistry. Analytical Proceedings, 1992, 29, 10.	0.4	7
90	Determination of arginine in dietary supplements. Journal of the Science of Food and Agriculture, 2005, 85, 1217-1221.	1.7	7

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91	Explosive detonation causes an increase in soil porosity leading to increased TNT transformation. PLoS ONE, 2017, 12, e0189177.	1.1	7
92	Synthesis and characterisation of homemade urea nitrate explosive from commercial sources of urea. Forensic Chemistry, 2021, 26, 100369.	1.7	7
93	Monitoring the chemical changes in fingermark residue over time using synchrotron infrared spectroscopy. Analyst, The, 2022, 147, 799-810.	1.7	7
94	Capillary Electrophoresis in Forensic Chemistry. , 2013, , 567-572.		6
95	The stability of TNT, RDX and PETN in simulated post-explosion soils: Implications of sample preparation for analysis. Talanta, 2017, 164, 716-726.	2.9	6
96	Source determination of homemade ammonium nitrate using ATR-FTIR spectroscopy, trace elemental analysis and chemometrics. Forensic Chemistry, 2022, 28, 100411.	1.7	6
97	Multimodal spectroscopy with chemometrics for the forensic analysis of Western Australian sandy soils. Forensic Chemistry, 2022, 28, 100412.	1.7	6
98	Analysis of dyes using chromatography. , 2009, , 203-223.		5
99	Chemistry of Print Residue. , 2013, , 92-97.		5
100	Ultraviolet-visible spectroscopic characterisation of automotive window tints for forensic purposes. Analytical Methods, 2015, 7, 5391-5395.	1.3	5
101	The transfer and persistence of metals in latent fingermarks. Analyst, The, 2022, 147, 387-397.	1.7	5
102	Monitoring carboxylic acid formation in engine oils by liquid chromatography with fluorescence detection. Journal of Chromatography A, 1994, 667, 91-98.	1.8	4
103	Chemiluminescence from the Sakaguchi reaction. Analytical Biochemistry, 2004, 329, 340-341.	1.1	4
104	In situ examination of handwritten blue ballpoint inks using video spectral comparison with chemometrics. Forensic Science International: Reports, 2019, 1, 100021.	0.4	4
105	Investigating diversity in polymer-based identity cards using ATR-FTIR spectroscopy and chemometrics. Forensic Science International: Reports, 2020, 2, 100149.	0.4	4
106	Forensic applications of rare earths: Anticounterfeiting materials and latent fingerprint developers. Fundamental Theories of Physics, 2020, 57, 45-117.	0.1	4
107	Preliminary studies into fluorescent semiconductor nanorods for the detection of latent fingermarks: Size matters, shape matters. Science and Justice - Journal of the Forensic Science Society, 2021, 61, 180-186.	1.3	4
108	Luminescent nanostructures for the detection of latent fingermarks: A review. Wiley Interdisciplinary Reviews Forensic Science, 2022, 4, .	1.2	4

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109	Design of LabVIEWÂ®-based software for the control of sequential injection analysis instrumentation for the determination of morphine. Journal of Automated Methods and Management in Chemistry, 2002, 24, 99-103.	0.5	3
110	Preliminary Investigations into Tris(2,2'-bipyridyl) Ruthenium (III) as a Chemiluminescent Reagent for the Detection of 3,6-Diacetylmorphine (Heroin) on Surfaces. Journal of Forensic Sciences, 2007, 52, 1111-1114.	0.9	3
111	Assessing Studentsâ€™ Attitudes Toward Forensic Science: Collecting an Expert Consensus. Forensic Science Policy and Management, 2012, 3, 180-188.	0.5	3
112	Assessing a novel contact heater as a new method of recovering explosives traces from porous surfaces. Talanta, 2016, 148, 721-728.	2.9	3
113	New light on old fingermarks: The detection of historic latent fingermarks on old paper documents using 1,2-indanedione/zinc. Forensic Science International: Reports, 2020, 2, 100145.	0.4	3
114	Rapid Determination of Carbohydrates in Heroin Drug Seizures Using Capillary Electrophoresis with Short-End Injection. Journal of Forensic Sciences, 2005, 50, 1-5.	0.9	3
115	Studies into exfoliation and coating of Egyptian blue in methanol for application to the detection of latent fingermarks. Science and Justice - Journal of the Forensic Science Society, 2022, 62, 455-460.	1.3	3
116	Spectroscopic Techniques. , 2013, , 627-634.		2
117	Spectroscopy: Basic Principles. , 2013, , 635-640.		2
118	To glove or not to glove? Investigations into the potential contamination from handling of paper-based cultural heritage through forensic fingerprinting approaches. Forensic Science International (Online), 2021, 3, 100160.	0.6	2
119	Forensic science in Seychelles: An example of a micro-jurisdiction forensic delivery system. Forensic Science International (Online), 2021, 3, 100139.	0.6	2
120	Toward a common language for quality issues in forensic science. Wiley Interdisciplinary Reviews Forensic Science, 2022, 4, .	1.2	2
121	Negative results: Investigations into the quantification of silicone-based condom lubricants in solution by DRIFTS-FTIR. Forensic Science International: Reports, 2022, 6, 100283.	0.4	2
122	Nonchromatographic Separation Techniques. , 2013, , 621-626.		1
123	Presumptive Chemical Tests. , 2013, , 616-620.		1
124	Liquid and Thin-Layer Chromatography. , 2013, , 586-589.		1
125	Negative result: 6-(N,N-dimethylamino)fulvene as a reagent for the detection of latent fingermarks on paper surfaces. Forensic Science International: Reports, 2019, 1, 100005.	0.4	1
126	Metal Halide Perovskites: Metal Halide Perovskite Nanorods: Shape Matters (Adv. Mater. 46/2020). Advanced Materials, 2020, 32, 2070348.	11.1	1

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127	Increasing Accessibility to Science in Early Childhood Teacher Education Through Collaboration Between Teacher Educators and Science/Engineering Academics. , 2012, , 157-173.		1
128	Leaving a mark on forensic science: how spectroscopic techniques have revealed new insights in fingerprint chemistry. Spectroscopy Europe, 0, , 22.	0.0	1
129	Preface. Talanta, 2005, 67, 261-261.	2.9	0