

# Gillian M Greenway

## List of Publications by Citations

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99  
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34  
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51  
g-index

104  
ext. papers

3,379  
ext. citations

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5.37  
L-index

#	Paper	IF	Citations
99	Occurrence, mechanisms and analytical applications of electrogenerated chemiluminescence. A review. <i>Analyst, The</i> , <b>1994</b> , 119, 879	5	239
98	Relationship between structural attributes and observed electrogenerated chemiluminescence (ECL) activity of tertiary amines as potential analytes for the tris(2,2-bipyridine)ruthenium(II) ECL reaction. A review. <i>Analyst, The</i> , <b>1996</b> , 121, 101R	5	182
97	The use of a novel microreactor for high throughput continuous flow organic synthesis. <i>Sensors and Actuators B: Chemical</i> , <b>2000</b> , 63, 153-158	8.5	141
96	Removal of Pb <sup>2+</sup> and Cd <sup>2+</sup> from aqueous solution using chars from pyrolysis and microwave-assisted hydrothermal carbonization of <i>Prosopis africana</i> shell. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2014</b> , 20, 3467-3473	6.3	118
95	Analysis of tricyclic antidepressants using electrogenerated chemiluminescence. <i>Analyst, The</i> , <b>1999</b> , 124, 759-62	5	93
94	Microfluidic devices for environmental monitoring. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2005</b> , 24, 795-802	4.6	91
93	Microwave-assisted and conventional hydrothermal carbonization of lignocellulosic waste material: Comparison of the chemical and structural properties of the hydrochars. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2016</b> , 118, 1-8	6	81
92	Electrogenerated chemiluminescent determination of codeine and related alkaloids and pharmaceuticals with tris(2,2'-bipyridine)ruthenium(II). <i>Analyst, The</i> , <b>1995</b> , 120, 2549-2552	5	73
91	Tris(2,2-bipyridyl)ruthenium (II) chemiluminescence in a microflow injection system for codeine determination. <i>Analytica Chimica Acta</i> , <b>2000</b> , 405, 43-50	6.6	69
90	Determination of L-ascorbic acid in fruit and vegetable juices by flow injection with immobilised ascorbate oxidase. <i>Analyst, The</i> , <b>1990</b> , 115, 1297-9	5	67
89	Rapid PCR amplification using a microfluidic device with integrated microwave heating and air impingement cooling. <i>Lab on A Chip</i> , <b>2010</b> , 10, 1725-8	7.2	64
88	Development of enzyme immobilized monolith micro-reactors integrated with microfluidic electrochemical cell for the evaluation of enzyme kinetics. <i>Microfluidics and Nanofluidics</i> , <b>2010</b> , 8, 565-573	2.8	56
87	The preparation of a series of nitrostilbene ester compounds using micro reactor technology. <i>Analyst, The</i> , <b>2001</b> , 126, 7-10	5	54
86	Electrogenerated chemiluminescent determination of pyruvate using tris(2,2'-bipyridine)ruthenium(II). <i>Analyst, The</i> , <b>1995</b> , 120, 2543-2547	5	53
85	Determination of hydrogen peroxide in rainwater in a miniaturised analytical system. <i>Analytica Chimica Acta</i> , <b>2005</b> , 548, 20-25	6.6	51
84	Interfacing microchip capillary electrophoresis with inductively coupled plasma mass spectrometry for chromium speciation. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2003</b> , 18, 1-3	3.7	50
83	Microscreening toxicity system based on living magnetic yeast and gradient chips. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 400, 1009-13	4.4	49

82	A microflow chemiluminescence system for determination of chloramphenicol in honey with preconcentration using a molecularly imprinted polymer. <i>Talanta</i> , <b>2010</b> , 82, 560-6	6.2	48
81	Interfacing a microfluidic electrophoresis chip with inductively coupled plasma mass spectrometry for rapid elemental speciation. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2004</b> , 19, 883	3.7	48
80	The generation of concentration gradients using electroosmotic flow in micro reactors allowing stereoselective chemical synthesis. <i>Analyst, The</i> , <b>2001</b> , 126, 11-3	5	47
79	The use of carrier RNA to enhance DNA extraction from microfluidic-based silica monoliths. <i>Analytica Chimica Acta</i> , <b>2009</b> , 652, 231-3	6.6	45
78	Microwave-assisted hydrothermal carbonization of rapeseed husk: A strategy for improving its solid fuel properties. <i>Fuel Processing Technology</i> , <b>2016</b> , 149, 305-312	7.2	45
77	Sample manipulation in micro total analytical systems. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2002</b> , 21, 726-740	14.6	44
76	Ultrasound-enhanced flow injection chemiluminescence for determination of hydrogen peroxide. <i>Analyst, The</i> , <b>2006</b> , 131, 501-8	5	43
75	A study of the elemental leachability and retention capability of compost. <i>Journal of Environmental Monitoring</i> , <b>2004</b> , 6, 31-7		42
74	Heavy metal speciation in the composting process. <i>Journal of Environmental Monitoring</i> , <b>2002</b> , 4, 300-5		42
73	Chemiluminescence mUTAS for the determination of atropine and pethidine. <i>Talanta</i> , <b>2002</b> , 56, 539-45	6.2	42
72	Removal and recovery of vanadium from alkaline steel slag leachates with anion exchange resins. <i>Journal of Environmental Management</i> , <b>2017</b> , 187, 384-392	7.9	40
71	Rapid arsenic speciation using ion pair LC-ICPMS with a monolithic silica column reveals increased urinary DMA excretion after ingestion of rice. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2007</b> , 22, 361	3.7	38
70	A prototype microfluidic chip using fluorescent yeast for detection of toxic compounds. <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 24, 1508-11	11.8	37
69	Recent developments in manganese speciation. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2005</b> , 24, 803-809	14.6	37
68	Chemical, structural and energy properties of hydrochars from microwave-assisted hydrothermal carbonization of glucose. <i>International Journal of Industrial Chemistry</i> , <b>2016</b> , 7, 449-456	3.1	36
67	Enhanced antimicrobial effect of berberine in nanogel carriers with cationic surface functionality. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 7885-7897	7.3	35
66	Immobilized alga as a reagent for preconcentration in trace element atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>1991</b> , 6, 643	3.7	34
65	Measurement of acetylcholinesterase inhibition using bienzymes immobilized monolith micro-reactor with integrated electrochemical detection. <i>Analytica Chimica Acta</i> , <b>2010</b> , 659, 9-14	6.6	31

64	Nanotoxicity of polyelectrolyte-functionalized titania nanoparticles towards microalgae and yeast: role of the particle concentration, size and surface charge. <i>RSC Advances</i> , <b>2015</b> , 5, 37044-37059	3.7	30
63	Development of a real-world direct interface for integrated DNA extraction and amplification in a microfluidic device. <i>Lab on A Chip</i> , <b>2011</b> , 11, 443-8	7.2	28
62	Tris(2,2'-bipyridine)ruthenium(II) electrogenerated chemiluminescence of alkaloid type drugs with solid phase extraction sample preparation. <i>Analyst, The</i> , <b>2001</b> , 126, 37-40	5	28
61	Liquid chromatographic determination of methylamines. Determination of trimethylamine in fish samples using a porous graphitic carbon stationary phase. <i>Analytica Chimica Acta</i> , <b>1996</b> , 322, 63-68	6.6	28
60	Analysis of poly(vinyl chloride) additives by supercritical fluid extraction and supercritical fluid chromatography. <i>Analyst, The</i> , <b>1991</b> , 116, 1299	5	28
59	Evaluation of controlled-pore glass immobilized iminodiacetate as a reagent for automated on-line matrix separation for inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>1996</b> , 11, 907	3.7	26
58	On-line sample preparation for the determination of riboflavin and flavin mononucleotides in foodstuffs. <i>Analyst, The</i> , <b>1994</b> , 119, 929-35	5	26
57	On-line determination of chromium by adsorptive cathodic stripping voltammetry. <i>Analyst, The</i> , <b>1994</b> , 119, 293	5	25
56	On-line determination of vanadium by adsorptive stripping voltammetry. <i>Analytica Chimica Acta</i> , <b>1995</b> , 312, 15-25	6.6	25
55	The on-line synthesis of enzyme functionalized silica nanoparticles in a microfluidic reactor using polyethylenimine polymer and R5 peptide. <i>Nanotechnology</i> , <b>2008</b> , 19, 315603	3.4	24
54	An ultrasound accelerated sequential extraction method and its application for element partitioning studies in compost from mixed waste streams. <i>Journal of Environmental Monitoring</i> , <b>2002</b> , 4, 950-5		23
53	Electrogenerated chemiluminescence determination of some local anaesthetics. <i>Analytical Communications</i> , <b>1996</b> , 33, 171		23
52	Determination of morpholine fungicides using the tris(2,2'-bipyridine) ruthenium(II) chemiluminescence reaction. <i>Analyst, The</i> , <b>2000</b> , 125, 765-769	5	22
51	Miniaturisation of a matrix separation/preconcentration procedure for inductively coupled plasma mass spectrometry using 8-hydroxyquinoline immobilised on a microporous silica frit. <i>Journal of Analytical Atomic Spectrometry</i> , <b>1999</b> , 14, 1839-1842	3.7	21
50	A highly efficient sample introduction system for interfacing microfluidic chips with ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2007</b> , 22, 657	3.7	20
49	Microfabricated bioreactor chips for immobilised enzyme assays. <i>Analytica Chimica Acta</i> , <b>2003</b> , 486, 149-157		19
48	Optimisation of an atmospheric pressure helium microwave-induced plasma coupled with capillary gas chromatography for the determination of alkyllead and alkylmercury compounds. <i>Journal of Analytical Atomic Spectrometry</i> , <b>1989</b> , 4, 783	3.7	19
47	Amplified antimicrobial action of chlorhexidine encapsulated in PDAC-functionalized acrylate copolymer nanogel carriers. <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 2032-2044	7.8	19

46	Characterization of Energy-Rich Hydrochars from Microwave-Assisted Hydrothermal Carbonization of Coconut Shell. <i>Waste and Biomass Valorization</i> , <b>2019</b> , 10, 1979-1987	3.2	18
45	Method for Determining Average Iron Content of Ferritin by Measuring its Optical Dispersion. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 7366-7372	7.8	17
44	Development of a bi-functional silica monolith for electro-osmotic pumping and DNA clean-up/extraction using gel-supported reagents in a microfluidic device. <i>Lab on A Chip</i> , <b>2009</b> , 9, 1596-6007	7.2	17
43	Determination of Thyroxine Using Tris(2,2'-Bipyridyl)Ruthenium(III)-NADH Enhanced Electrochemiluminescence Detection. <i>Analytical Letters</i> , <b>2007</b> , 40, 1071-1083	2.2	17
42	Application of multi-element time-resolved analysis to a rapid on-line matrix separation system for inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>1995</b> , 10, 929-937	3.7	17
41	Speciation and preconcentration of trace elements with immobilized algae for atomic absorption spectrophotometric detection. <i>Journal of Analytical Atomic Spectrometry</i> , <b>1994</b> , 9, 547	3.7	17
40	Dual-functionalised shellac nanocarriers give a super-boost of the antimicrobial action of berberine. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 858-872	5.1	16
39	Improved DNA extraction efficiency from low level cell numbers using a silica monolith based microfluidic device. <i>Analytica Chimica Acta</i> , <b>2012</b> , 750, 127-31	6.6	16
38	Microconcentric Nebuliser for the Analysis of Small Sample Volumes by Inductively Coupled Plasma Mass Spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>1997</b> , 12, 1373-1376	3.7	16
37	Luminol chemiluminescence induced by immobilised xanthine oxidase. <i>Analytica Chimica Acta</i> , <b>2005</b> , 541, 89-95	6.6	16
36	In-situ immobilisation of glucose oxidase on a novel microporous silica support. <i>Analyst, The</i> , <b>2000</b> , 125, 237-239	5	16
35	Simple practical approach for sample loading prior to DNA extraction using a silica monolith in a microfluidic device. <i>Lab on A Chip</i> , <b>2009</b> , 9, 3430-2	7.2	15
34	Determination of amitriptyline using electrogenerated chemiluminescence. <i>Analytical Communications</i> , <b>1996</b> , 33, 139		15
33	Novel 2-chrysenyl- and 1-pyrenyl-tartaramide derivatives as liquid chromatographic chiral phases for enantiomeric separation on porous graphitic carbon. <i>Tetrahedron: Asymmetry</i> , <b>1996</b> , 7, 1189-1198		15
32	Boosting the antimicrobial action of vancomycin formulated in shellac nanoparticles of dual-surface functionality. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 3119-3133	7.3	14
31	Microwave-assisted hydrothermal synthesis of carbon monolith via a soft-template method using resorcinol and formaldehyde as carbon precursor and pluronic F127 as template. <i>Materials Letters</i> , <b>2014</b> , 123, 198-201	3.3	14
30	Simultaneous preconcentration and determination of nickel and cobalt using functionalised mesoporous silica spheres by ICP-OES. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2013</b> , 93, 1537-1556	1.8	14
29	An investigation of electroosmotic flow and pressure pumped luminol chemiluminescence detection for cobalt analysis in a miniaturised total analytical system. <i>Lab on A Chip</i> , <b>2001</b> , 1, 138-42	7.2	14

28	Investigation into the detection of chlorine species by Rhodamine 6G chemiluminescence with electrochemical modification. <i>Analyst, The</i> , <b>1995</b> , 120, 477	5	13
27	Application of a novel iminodiacetate chelating material to automated matrix separation for inductively coupled plasma mass spectrometry. <i>Analytical Communications</i> , <b>1996</b> , 33, 57		11
26	Lipase immobilised on silica monoliths as continuous-flow microreactors for triglyceride transesterification. <i>Reaction Chemistry and Engineering</i> , <b>2018</b> , 3, 68-74	4.9	10
25	Biomass derived mesoporous carbon monoliths via an evaporation-induced self-assembly. <i>Materials Letters</i> , <b>2014</b> , 115, 117-120	3.3	10
24	The determination of sugars in beverages and medicines using on-line dialysis for sample preparation. <i>Food Chemistry</i> , <b>1995</b> , 53, 105-110	8.5	9
23	Biosensing with coated-wire electrodes. Part 2. Urea sensors. <i>Analyst, The</i> , <b>1989</b> , 114, 1575	5	9
22	Electrogenerated chemiluminescence at droplet-modified electrodes: towards biphasic pKa measurement via proton-coupled electron transfer at liquid liquid interfaces. <i>New Journal of Chemistry</i> , <b>2009</b> , 33, 749	3.6	8
21	Indirect, ion-annihilation electrogenerated chemiluminescence and its application to the determination of aromatic tertiary amines. <i>Analyst, The</i> , <b>1995</b> , 120, 1077	5	8
20	Biosensing with coated-wire electrodes. Part 1. Glucose sensors. <i>Analyst, The</i> , <b>1989</b> , 114, 785	5	8
19	A feasibility study of a leaky waveguide aptasensor for thrombin. <i>Analyst, The</i> , <b>2019</b> , 144, 6048-6054	5	7
18	Electrochemical immunoassay for the detection of stress biomarkers. <i>Heliyon</i> , <b>2020</b> , 6, e03558	3.6	7
17	Kinetic speciation of BCR reference materials. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2006</b> , 86, 359-366	1.8	7
16	Chromatographic resolution of enantiomers on a chiral stationary phase physically anchored to porous graphitic carbon. <i>Analytical Communications</i> , <b>1996</b> , 33, 65		7
15	Comparison of inductively coupled plasma mass spectrometry with a microconcentric nebuliser and total reflection X-ray spectrometry for the analysis of small liquid volume samples. <i>Journal of Analytical Atomic Spectrometry</i> , <b>1998</b> , 13, 1333-1335	3.7	6
14	Miniaturisation of a matrix separation/preconcentration procedure for inductively coupled plasma mass spectrometry. <i>Analytical Communications</i> , <b>1998</b> , 35, 177-178		6
13	A miniaturized flow-injection analysis (FIA) system with on-line chemiluminescence detection for the determination of iron in estuarine water. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2007</b> , 87, 637-646	1.8	6
12	A sensitive chemiluminescence based immunoassay for the detection of cortisol and cortisone as stress biomarkers. <i>Journal of Analytical Science and Technology</i> , <b>2019</b> , 10,	3.4	6
11	Miniaturized flow-injection-analysis (BIA) system with on-line chemiluminescence detection based on the luminol-hypochlorite reaction for the determination of ammonium in river water. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2007</b> , 87, 425-436	1.8	4

10	Zinc Uptake from Circumneutral Mine Drainage in Freshwater Biofilms: New Insights from In Vitro Experiments. <i>Mine Water and the Environment</i> , <b>2015</b> , 34, 295-307	2.4	3
9	Evaluation of 2-Chrysenyl and 1-Pyrenyltartramide Derivatives as Chiral Selectors for Enantiomeric Separation on Porous Graphitic Carbon High-performance Liquid Chromatographic Columns. <i>Analyst, The</i> , <b>1997</b> , 122, 719-726	5	3
8	Supercritical fluid extraction for the analysis of liquid poly(alkylene glycol) lubricants and sorbitan ester formulations. <i>Analyst, The</i> , <b>1993</b> , 118, 17	5	3
7	Development and evaluation of microfluidic device for the determination of organophosphorus pesticide incorporating monolith based immobilized AChE with spectrophotometric detection. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2013</b> , 93, 739-754	1.8	2
6	Diffusive gradient in thin films (DGT) for profiling leaching of CCA-treated wood waste mulch into the soil environment. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2014</b> , 94, 115-126	1.8	2
5	Development of a gel-to-gel electro-kinetic pinched injection method for an integrated micro-fluidic based DNA analyser. <i>Analytica Chimica Acta</i> , <b>2009</b> , 652, 239-44	6.6	2
4	Toxicity of polyelectrolyte-functionalized titania nanoparticles in zebrafish ( <i>Danio rerio</i> ) embryos. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	2
3	Imaging immunoassay in negative: surface-catalysed chemiluminescence for the detection of pregnancy hormones in artificial saliva. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 18641-18648	3.6	2
2	Enhanced Antimicrobial Action of Chlorhexidine Loaded in Shellac Nanoparticles with Cationic Surface Functionality. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	2
1	Establishing a baseline value for urinary arsenic:selenium ratio in unexposed populations in the United Kingdom. <i>Biomedical Spectroscopy and Imaging</i> , <b>2013</b> , 2, 225-240	1.3	