Elizabeth A H Hall

List of Publications by Citations

86 papers	2,530 citations	29 h-index	48 g-index
88 ext. papers	2,707 ext. citations	5.6 avg, IF	5.22 L-index

#	Paper	IF	Citations
86	Fluorescent nanoparticles for intracellular sensing: a review. *Analytica Chimica Acta*, **2012**, 751, 1-23	6.6	238
85	Dipicolinic acid (DPA) assay revisited and appraised for spore detection. *Analyst, The*, **1999**, 124, 1599-604	4	136
84	pH response of carboxy-terminated colorimetric polydiacetylene vesicles. *Analytical Chemistry*, **2006**, 78, 2231-8	7.8	135
83	Azamacrocycle activated quantum dot for zinc ion detection. *Analytical Chemistry*, **2008**, 80, 8260-8	7.8	129
82	Producing "self-plasticizing" ion-selective membranes. *Analytical Chemistry*, **2000**, 72, 42-51	7.8	119
81	An experimental study of membrane materials and inner contacting layers for ion-selective K+ electrodes with a stable response and good dynamic range. *Analytical Chemistry*, **2004**, 76, 2031-9	7.8	87
80	Ion-transport and diffusion coefficients of non-plasticised methacrylic-acrylic ion-selective membranes. *Talanta*, **2004**, 63, 73-87	6.2	82
79	Ultrabubble: A Laminated Ultrasound Contrast Agent with Narrow Size Range. *Advanced Materials*, **2009**, 21, 3949-3952	24	75
78	Quantum dot photoluminescence lifetime-based pH nanosensor. *Chemical Communications*, **2011**, 47, 2898-900	5.8	68
77	Contribution of gold nanoparticles to the signal amplification in surface plasmon resonance. *Analyst, The*, **2012**, 137, 4712-9	5	62
76	Analytical nanosphere sensors using quantum dot-enzyme conjugates for urea and creatinine. *Analytical Chemistry*, **2010**, 82, 9043-9	7.8	62
75	The Emerging Use of Quantum Dots in Analysis. *Analytical Letters*, **2007**, 40, 1497-1520	2.2	57
74	Methacrylic□crylic polymers in ion-selective membranes: achieving the right polymer recipe. *Analytica Chimica Acta*, **2000**, 403, 77-89	6.6	55
73	K+-selective nanospheres: maximising response range and minimising response time. *Analyst, The*, **2006**, 131, 1282-91	5	53
72	A chloride ion nanosensor for time-resolved fluorimetry and fluorescence lifetime imaging. *Analyst, The*, **2012**, 137, 1500-8	5	52
71	Multiplexed energy transfer mechanisms in a dual-function quantum dot for zinc and manganese. *Analyst, The*, **2009**, 134, 159-69	5	50
70	Assessing a photocured self-plasticised acrylic membrane recipe for Na+ and K+ ion selective electrodes. *Analytica Chimica Acta*, **2001**, 443, 25-40	6.6	50

69	A quantum dot-lucigenin probe for Cl-. *Analyst, The*, **2008**, 133, 1556-66	5	48
68	Redox enzyme linked electrochemical sensors: Theory meets practice. *Mikrochimica Acta*, **1995**, 121, 119-145	5.8	48
67	A multi-ion particle sensor. *Chemical Communications*, **2007**, 1544-6	5.8	44
66	One-Step Synthesis of K+-Selective Methacrylic-Acrylic Copolymers Containing Grafted Ionophore and Requiring No Plasticizer. *Electroanalysis*, **2000**, 12, 178-186	3	43
65	Catalytic reduction of benzoquinone at polyaniline and polyaniline/enzyme films. *Electroanalysis*, **1993**, 5, 385-397	3	42
64	Ratiometric pH-dot ANSors. *Analyst, The*, **2010**, 135, 1585-91	5	40
63	From Thick Films to Monolayer Recognition Layers in Amperometric Enzyme Electrodes. *Electroanalysis*, **1998**, 10, 1130-1136	3	39
62	Parameters in the design of oxygen detecting oxidase enzyme electrodes. *Electroanalysis*, **1996**, 8, 407-413	3	38
61	Breaking the barrier to fast electron transfer. *Bioelectrochemistry*, **2009**, 76, 19-27	5.6	36
60	Taking the Plasticizer out of Methacrylic-Acrylic Membranes for K+-Selective Electrodes. *Electroanalysis*, **2000**, 12, 187-193	3	34
59	Composite polyacrylate-poly(3,4- ethylenedioxythiophene) membranes for improved all-solid-state ion-selective sensors. *Analytical Chemistry*, **2008**, 80, 321-7	7.8	31
58	A chelating dendritic ligand capped quantum dot: preparation, surface passivation, bioconjugation and specific DNA detection. *Nanoscale*, **2011**, 3, 201-11	7.7	30
57	Investigating polymers and conducting metals as transduction mediators or immobilization matrices. *Electroanalysis*, **1995**, 7, 830-837	3	29
56	Effect of surface modification on semiconductor nanocrystal fluorescence lifetime. *ChemPhysChem*, **2011**, 12, 919-29	3.2	25
55	DIAMINODURENE AS A MEDIATOR OF A PHOTOCURRENT USING INTACT CELLS OF CYANOBACTERIA. *Photochemistry and Photobiology*, **1994**, 59, 91-98	3.6	23
54	A Fill-and-Flow Biosensor. *Analytical Chemistry*, **1998**, 70, 3131-6	7.8	21
53	Enzyme-Degradable Hybrid Polymer/Silica Microbubbles as Ultrasound Contrast Agents. *Langmuir*, **2016**, 32, 6534-43	4	20
52	Inducing a Cationic Response in Poly(pyrrole) Films. *Electroanalysis*, **1999**, 11, 756-762	3	20

51	Upconversion nanoparticles for sensing pH. *Analyst, The*, **2019**, 144, 5547-5557	5	18
50	A step towards mobile arsenic measurement for surface waters. *Analyst, The*, **2015**, 140, 2644-55	5	18
49	Water Transport in Poly(n-butyl acrylate) Ion-Selective Membranes. *Electroanalysis*, **2009**, 21, 1992-2003	3	15
48	Structural effect of polymerisation and dehydration on bolaamphiphilic polydiacetylene assemblies. *Journal of Materials Chemistry*, **2006**, 16, 2039		15
47	Using trimethylamine dehydrogenase in an enzyme linked amperometric electrode. Part 1. Wild-type enzyme redox mediation. *Analyst, The*, **2003**, 128, 166-72	5	15
46	A fabrication method of gold coated colloidosomes and their application as targeted drug carriers. *Soft Matter*, **2018**, 14, 2594-2603	3.6	14
45	Zein as biodegradable material for effective delivery of alkaline phosphatase and substrates in biokits and biosensors. *Biosensors and Bioelectronics*, **2016**, 86, 14-19	11.8	14
44	Functional Silver-Coated Colloidosomes as Targeted Carriers for Small Molecules. *Langmuir*, **2017**, 33, 3755-3764	4	13
43	A strand exchange FRET assay for DNA. *Biosensors and Bioelectronics*, **2004**, 20, 1001-10	11.8	13
42	Low density lipoprotein interaction with amino acid-modified self assembled monolayers on surface plasmon resonance surfaces. *Analytica Chimica Acta*, **2002**, 470, 3-17	6.6	13
41	Surface plasmon resonance: theoretical evolutionary design optimization for a model analyte sensitive absorbing-layer system. *Analytical Chemistry*, **2004**, 76, 6861-70	7.8	12
40	Direct toxicity assessment of wastewater: Baroxymeter, a portable rapid toxicity device and the industry perspective. *Environmental Toxicology*, **2002**, 17, 284-90	4.2	12
39	BRET-linked ATP assay with luciferase. *Analyst, The*, **2014**, 139, 4185-92	5	11
38	pH sensitive quantum dot-anthraquinone nanoconjugates. *Nanotechnology*, **2014**, 25, 195501	3.4	11
37	Using trimethylamine dehydrogenase in an enzyme linked amperometric electrode. *Analyst, The*, **2003**, 128, 889	5	11
36	Detection of oxidized low-density lipoproteins using surface plasmon resonance. *Analytical Chemistry*, **1999**, 71, 2459-67	7.8	11
35	Gene to diagnostic: Self immobilizing protein for silica microparticle biosensor, modelled with sarcosine oxidase. *Biomaterials*, **2019**, 193, 58-70	15.6	11
34	Phasor transform to extract glucose and ascorbic acid data in an amperometric sensor. *Analyst, The*, **2000**, 125, 1987-92	5	10

33	A Sandwich Enzyme Electrode Giving Electrochemical Scavenging of Interferents. *Electroanalysis*, **1999**, 11, 749-755	3	10
32	A molecular biology approach to protein coupling at a biosensor interface. *TrAC - Trends in Analytical Chemistry*, **2016**, 79, 247-256	14.6	9
31	Engineered proteins for bioelectrochemistry. *Annual Review of Analytical Chemistry*, **2014**, 7, 257-74	12.5	9
30	An optrode particle geometry to decrease response time. *Analyst, The*, **2011**, 136, 4718-23	5	9
29	Testing the Durability of Polymyxin B Immobilization on a Polymer Showing Antimicrobial Activity: A Novel Approach with the Ion-Step Method. *Analytical Letters*, **2003**, 36, 1781-1803	2.2	9
28	Examination of bilayer lipid membranes for 'pin-hole' character. *Analyst, The*, **2004**, 129, 1014-25	5	9
27	Overview of Biosensors. *ACS Symposium Series*, **1992**, 1-14	0.4	9
26	Plasmid-encoded genes influence exosporium assembly and morphology in Bacillus megaterium QM B1551 spores. *FEMS Microbiology Letters*, **2015**, 362, fnv147	2.9	8
25	Frequency Domain Selection of the Peroxide Signal for Amperometric Biosensors. *Electroanalysis*, **1998**, 10, 1089-1095	3	8
24	Seeking connectivity between engineered proteins and transducers: connection for glutathione S-transferase fusion proteins on surface plasmon resonance devices. *Analytica Chimica Acta*, **2003**, 500, 323-336	6.6	8
23	Model for Microcapsule Drug Release with Ultrasound-Activated Enhancement. *Langmuir*, **2017**, 33, 12960-12972	4	7
22	Rapid detection of toxicity in wastewater: recent developments with manometric respirometry. *Analytica Chimica Acta*, **2006**, 573-574, 147-57	6.6	7
21	Assessment of the fifth ligand-binding repeat (LR5) of the LDL receptor as an analytical reagent for LDL binding. *Analyst, The*, **2001**, 126, 329-36	5	7
20	Orthologues of Bacillus subtilis Spore Crust Proteins Have a Structural Role in the Bacillus megaterium QM B1551 Spore Exosporium. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	6
19	Protein engineering and electrochemical biosensors. *Advances in Biochemical Engineering/Biotechnology*, **2008**, 109, 65-96	1.7	6
18	Designing a curved surface SPR device. *Sensors and Actuators B: Chemical*, **2006**, 114, 804-811	8.5	6
17	Tuning the parameters for fast respirometry. *Analytica Chimica Acta*, **2002**, 460, 257-270	6.6	6
16	Acrylate polymer immobilisation of enzymes. *FreseniusJournal of Analytical Chemistry*, **1999**, 364, 58-65		6

15	BMQ_0737 encodes a novel protein crucial to the integrity of the outermost layers of Bacillus megaterium QM B1551 spores. *FEMS Microbiology Letters*, **2014**, 358, 162-9	2.9	4
14	Short peptide receptor mimics for atherosclerosis risk assessment of LDL. *Biosensors and Bioelectronics*, **2003**, 18, 151-64	11.8	4
13	Applying Immittance Spectroscopy to Monitoring Hydrogen Peroxide in the Presence of Ascorbic Acid. Part I: Theoretical Considerations. *Electroanalysis*, **2001**, 13, 437-444	3	4
12	Designing the fill and flow (bio)sensor to give stable measurements from a dynamic system. *Sensors and Actuators B: Chemical*, **2000**, 63, 186-194	8.5	4
11	Fe3+/Fe2+ Mycobactin-Complex Electrochemistry as an Approach to Determine Mycobactin Levels in Urine. *Electroanalysis*, **2015**, 27, 833-842	3	3
10	Upconversion nanoparticles as intracellular pH messengers. *Analytical and Bioanalytical Chemistry*, **2020**, 412, 6567-6581	4.4	3
9	Triggering blue-red transition response in polydiacetylene vesicles: an electrochemical surface plasmon resonance method. *Analyst, The*, **2007**, 132, 801-10	5	3
8	Selective Monitoring of the Hydrogen Peroxide Signal in the Presence of Ascorbic Acid. Part II: Preliminary Practical Realization of Applying Immittance Spectroscopy. *Electroanalysis*, **2001**, 13, 517-523	3	3
7	Metal Coated Colloidosomes as Carriers for an Antibiotic. *Frontiers in Chemistry*, **2018**, 6, 196	5	2
6	A Biosilification Fusion Protein for a 'self-immobilising' Sarcosine Oxidase Amperometric Enzyme Biosensor. *Electroanalysis*, **2020**, 32, 874-884	3	1
5	Mapping minimum reflection distribution of surface plasmon resonance with a complex refractive index. *Analytical Methods*, **2016**, 8, 8299-8305	3.2	1
4	Microfluidics-based acoustic microbubble biosensor **2013**,		1
3	Manometric transduction in enzyme biosensors. *Biosensors and Bioelectronics*, **2006**, 22, 94-101	11.8	
2	ANALYTICAL SCIENCE: WHAT IS THE UK UP TO?. *Analytical Letters*, **2001**, 34, 313-327	2.2	
1	A peptide library on an SPR chip as an analytical tool at the heart of the matter. *Biochemical Society Transactions*, **2000**, 28, A21-A21	5.1	