Elizabeth A H Hall

List of Publications by Year
in descending order

87 papers	2,926 citations	159585 30 h-index	175258 52 g-index
88 all docs	88 docs citations	88 times ranked	3677 citing authors

#	Article	IF	Citations
1	Fluorescent nanoparticles for intracellular sensing: A review. Analytica Chimica Acta, 2012, 751, 1-23.	5.4	276
2	Dipicolinic acid (DPA) assay revisited and appraised for spore detection. Analyst, The, 1999, 124, 1599-1604.	3.5	170
3	pH Response of Carboxy-Terminated Colorimetric Polydiacetylene Vesicles. Analytical Chemistry, 2006, 78, 2231-2238.	6.5	152
4	Producing â€œSelf-Plasticizingâ€•Ion-Selective Membranes. Analytical Chemistry, 2000, 72, 42-51.	6.5	141
5	Azamacrocycle Activated Quantum Dot for Zinc Ion Detection. Analytical Chemistry, 2008, 80, 8260-8268.	6.5	139
6	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, 2031-2039.	6.5	91
7	Ion-transport and diffusion coefficients of non-plasticised methacrylicâ€“acrylic ion-selective membranes. Talanta, 2004, 63, 73-87.	5.5	89
8	Ultrabubble: A Laminated Ultrasound Contrast Agent with Narrow Size Range. Advanced Materials, 2009, 21, 3949-3952.	21.0	80
9	Contribution of gold nanoparticles to the signal amplification in surface plasmon resonance. Analyst, The, 2012, 137, 4712.	3.5	78
10	Quantum dot photoluminescence lifetime-based pH nanosensor. Chemical Communications, 2011, 47, 2898.	4.1	72
11	Analytical Nanosphere Sensors Using Quantum Dotâ˜Enzyme Conjugates for Urea and Creatinine. Analytical Chemistry, 2010, 82, 9043-9049.	6.5	70
12	Methacrylicâ€“acrylic polymers in ion-selective membranes: achieving the right polymer recipe. Analytica Chimica Acta, 2000, 403, 77-89.	5.4	66
13	The Emerging Use of Quantum Dots in Analysis. Analytical Letters, 2007, 40, 1497-1520.	1.8	63
14	K+-selective nanospheres: maximising response range and minimising response time. Analyst, The, 2006, 131, 1282.	3.5	59
15	Assessing a photocured self-plasticised acrylic membrane recipe for Na+ and K+ ion selective electrodes. Analytica Chimica Acta, 2001, 443, 25-40.	5.4	57
16	Redox enzyme linked electrochemical sensors: Theory meets practice. Mikrochimica Acta, 1995, 121, 119-145.	5.0	56
17	Multiplexed energy transfer mechanisms in a dual-function quantum dot for zinc and manganese. Analyst, The, 2009, 134, 159-169.	3.5	53
18	A chloride ion nanosensor for time-resolved fluorimetry and fluorescence lifetime imaging. Analyst, The, 2012, 137, 1500.	3.5	53

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19	One-Step Synthesis of K+-Selective Methacrylic-Acrylic Copolymers Containing Grafted Ionophore and Requiring No Plasticizer. Electroanalysis, 2000, 12, 178-186.	2.9	51
20	From Thick Films to Monolayer Recognition Layers in Amperometric Enzyme Electrodes. Electroanalysis, 1998, 10, 1130-1136.	2.9	49
21	A quantum dotâ€“lucigenin probe for Clâ¯. Analyst, The, 2008, 133, 1556.	3.5	49
22	Catalytic reduction of benzoquinone at polyaniline and polyaniline/enzyme films. Electroanalysis, 1993, 5, 385-397.	2.9	48
23	A multi-ion particle sensor. Chemical Communications, 2007, , 1544.	4.1	48
24	Parameters in the design of oxygen detecting oxidase enzyme electrodes. Electroanalysis, 1996, 8, 407-413.	2.9	42
25	Ratiometric pH-dot ANSors. Analyst, The, 2010, 135, 1585.	3.5	42
26	Breaking the barrier to fast electron transfer. Bioelectrochemistry, 2009, 76, 19-27.	4.6	40
27	Taking the Plasticizer out of Methacrylic-Acrylic Membranes for K+-Selective Electrodes. Electroanalysis, 2000, 12, 187-193.	2.9	38
28	Composite Polyacrylateâ¯Poly(3,4- ethylenedioxythiophene) Membranes for Improved All-Solid-State Ion-Selective Sensors. Analytical Chemistry, 2008, 80, 321-327.	6.5	37
29	A chelating dendritic ligand capped quantum dot: preparation, surface passivation, bioconjugation and specific DNA detection. Nanoscale, 2011, 3, 201-211.	5.6	33
30	Upconversion nanoparticles for sensing pH. Analyst, The, 2019, 144, 5547-5557.	3.5	33
31	DIAMINODURENE AS A MEDIATOR OF A PHOTOCURRENT USING INTACT CELLS OF CYANOBACTERIA. Photochemistry and Photobiology, 1994, 59, 91-98.	2.5	30
32	Investigating polymers and conducting metals as transduction mediators or immobilization matrices. Electroanalysis, 1995, 7, 830-837.	2.9	29
33	Effect of Surface Modification on Semiconductor Nanocrystal Fluorescence Lifetime. ChemPhysChem, 2011, 12, 919-929.	2.1	26
34	A Fill-and-Flow Biosensor. Analytical Chemistry, 1998, 70, 3131-3136.	6.5	24
35	A step towards mobile arsenic measurement for surface waters. Analyst, The, 2015, 140, 2644-2655.	3.5	23
36	Enzyme-Degradable Hybrid Polymer/Silica Microbubbles as Ultrasound Contrast Agents. Langmuir, 2016, 32, 6534-6543.	3.5	23

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37	Inducing a Cationic Response in Poly(pyrrole) Films. Electroanalysis, 1999, 11, 756-762.	2.9	22
38	Zein as biodegradable material for effective delivery of alkaline phosphatase and substrates in biokits and biosensors. Biosensors and Bioelectronics, 2016, 86, 14-19.	10.1	19
39	A fabrication method of gold coated colloidosomes and their application as targeted drug carriers. Soft Matter, 2018, 14, 2594-2603.	2.7	19
40	Water Transport in Poly(nâ€butyl acrylate) Ionâ€Selective Membranes. Electroanalysis, 2009, 21, 1992-2003.	2.9	18
41	Using trimethylamine dehydrogenase in an enzyme linked amperometric electrode. Analyst, The, 2003, 128, 166-172.	3.5	17
42	Gene to diagnostic: Self immobilizing protein for silica microparticle biosensor, modelled with sarcosine oxidase. Biomaterials, 2019, 193, 58-70.	11.4	17
43	Low density lipoprotein interaction with amino acid-modified self assembled monolayers on surface plasmon resonance surfaces. Analytica Chimica Acta, 2002, 470, 3-17.	5.4	16
44	Structural effect of polymerisation and dehydration on bolaamphiphilic polydiacetylene assemblies. Journal of Materials Chemistry, 2006, 16, 2039.	6.7	16
45	Functional Silver-Coated Colloidosomes as Targeted Carriers for Small Molecules. Langmuir, 2017, 33, 3755-3764.	3.5	15
46	Upconversion nanoparticles as intracellular pH messengers. Analytical and Bioanalytical Chemistry, 2020, 412, 6567-6581.	3.7	15
47	Direct toxicity assessment of wastewater: Baroxymeter, a portable rapid toxicity device and the industry perspective. Environmental Toxicology, 2002, 17, 284-290.	4.0	14
48	Surface Plasmon Resonance:Â Theoretical Evolutionary Design Optimization for a Model Analyte Sensitive Absorbing-Layer System. Analytical Chemistry, 2004, 76, 6861-6870.	6.5	14
49	BRET-linked ATP assay with luciferase. Analyst, The, 2014, 139, 4185-4192.	3.5	14
50	Engineered Proteins for Bioelectrochemistry. Annual Review of Analytical Chemistry, 2014, 7, 257-274.	5.4	14
51	Detection of Oxidized Low-Density Lipoproteins Using Surface Plasmon Resonance. Analytical Chemistry, 1999, 71, 2459-2467.	6.5	13
52	A strand exchange FRET assay for DNA. Biosensors and Bioelectronics, 2004, 20, 1001-1010.	10.1	13
53	Using trimethylamine dehydrogenase in an enzyme linked amperometric electrode. Analyst, The, 2003, 128, 889.	3.5	12
54	pH sensitive quantum dotâ€“anthraquinone nanoconjugates. Nanotechnology, 2014, 25, 195501.	2.6	12

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55	A Sandwich Enzyme Electrode Giving Electrochemical Scavenging of Interferents. Electroanalysis, 1999, 11, 749-755.	2.9	11
56	Phasor transform to extract glucose and ascorbic acid data in an amperometric sensor. Analyst, The, 2000, 125, 1987-1992.	3.5	11
57	Plasmid-encoded genes influence exosporium assembly and morphology inBacillus megateriumQM B1551 spores. FEMS Microbiology Letters, 2015, 362, fnv147.	1.8	11
58	Overview of Biosensors. ACS Symposium Series, 1992, , 1-14.	0.5	10
59	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.	1.8	10
60	Designing a curved surface SPR device. Sensors and Actuators B: Chemical, 2006, 114, 804-811.	7.8	10
61	Protein Engineering and Electrochemical Biosensors. , 2008, 109, 65-96.		10
62	An optrode particle geometry to decrease response time. Analyst, The, 2011, 136, 4718.	3.5	10
63	A molecular biology approach to protein coupling at a biosensor interface. TrAC - Trends in Analytical Chemistry, 2016, 79, 247-256.	11.4	10
64	Tuning the parameters for fast respirometry. Analytica Chimica Acta, 2002, 460, 257-270.	5.4	9
65	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.	5.4	9
66	Examination of bilayer lipid membranes for â€˜pin-holeâ€™ character. Analyst, The, 2004, 129, 1014-1025.	3.5	9
67	Model for Microcapsule Drug Release with Ultrasound-Activated Enhancement. Langmuir, 2017, 33, 12960-12972.	3.5	9
68	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, .	3.1	9
69	Frequency Domain Selection of the Peroxide Signal for Amperometric Biosensors. Electroanalysis, 1998, 10, 1089-1095.	2.9	8
70	Acrylate polymer immobilisation of enzymes. Fresenius' Journal of Analytical Chemistry, 1999, 364, 58-65.	1.5	8
71	Rapid detection of toxicity in wastewater: Recent developments with manometric respirometry. Analytica Chimica Acta, 2006, 573-574, 147-157.	5.4	8
72	Analysis and validation of silica-immobilised BST polymerase in loop-mediated isothermal amplification (LAMP) for malaria diagnosis. Analytical and Bioanalytical Chemistry, 2022, 414, 6309-6326.	3.7	8

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73	Assessment of the fifth ligand-binding repeat (LR5) of the LDL receptor as an analytical reagent for LDL binding. Analyst, The, 2001, 126, 329-336.	3.5	7
74	Short peptide receptor mimics for atherosclerosis risk assessment of LDL. Biosensors and Bioelectronics, 2003, 18, 151-164.	10.1	6
75	Designing the â€˜fill and flowâ€™ (bio)sensor to give stable measurements from a dynamic system. Sensors and Actuators B: Chemical, 2000, 63, 186-194.	7.8	5
76	Applying Immittance Spectroscopy to Monitoring Hydrogen Peroxide in the Presence of Ascorbic Acid. Part I: Theoretical Considerations. Electroanalysis, 2001, 13, 437-444.	2.9	4
77	BMQ_0737 encodes a novel protein crucial to the integrity of the outermost layers ofBacillus megateriumQM B1551 spores. FEMS Microbiology Letters, 2014, 358, 162-169.	1.8	4
78	Fe³⁺/Fe²⁺ Mycobactinâ€Complex Electrochemistry as an Approach to Determine Mycobactin Levels in Urine. Electroanalysis, 2015, 27, 833-842.	2.9	4
79	Metal Coated Colloidosomes as Carriers for an Antibiotic. Frontiers in Chemistry, 2018, 6, 196.	3.6	4
80	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.	2.9	3
81	Triggering blueâ€“red transition response in polydiacetylene vesicles: an electrochemical surface plasmon resonance method. Analyst, The, 2007, 132, 801-810.	3.5	3
82	Microfluidics-based acoustic microbubble biosensor. , 2013, , .		3
83	A Biosilification Fusion Protein for a â€˜Selfâ€immobilisingâ€™ Sarcosine Oxidase Amperometric Enzyme Biosensor. Electroanalysis, 2020, 32, 874-884.	2.9	2
84	Mapping minimum reflection distribution of surface plasmon resonance with a complex refractive index. Analytical Methods, 2016, 8, 8299-8305.	2.7	1
85	A peptide library on an SPR chip as an analytical tool at the heart of the matter. Biochemical Society Transactions, 2000, 28, A21-A21.	3.4	0
86	ANALYTICAL SCIENCE: WHAT IS THE UK UP TO?. Analytical Letters, 2001, 34, 313-327.	1.8	0
87	Manometric transduction in enzyme biosensors. Biosensors and Bioelectronics, 2006, 22, 94-101.	10.1	0