

Elizabeth A H Hall

List of Publications by Year in descending order

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87
papers

2,926
citations

159358

30
h-index

174990

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. <i>Analytica Chimica Acta</i> , 2012, 751, 1-23.	2.6	276
2	Dipicolinic acid (DPA) assay revisited and appraised for spore detection. <i>Analyst, The</i> , 1999, 124, 1599-1604.	1.7	170
3	pH Response of Carboxy-Terminated Colorimetric Polydiacetylene Vesicles. <i>Analytical Chemistry</i> , 2006, 78, 2231-2238.	3.2	152
4	Producing "Self-Plasticizing" Ion-Selective Membranes. <i>Analytical Chemistry</i> , 2000, 72, 42-51.	3.2	141
5	Azamacrocyclic Activated Quantum Dot for Zinc Ion Detection. <i>Analytical Chemistry</i> , 2008, 80, 8260-8268.	3.2	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. <i>Analytical Chemistry</i> , 2004, 76, 2031-2039.	3.2	91
7	Ion-transport and diffusion coefficients of non-plasticised methacrylic acrylic ion-selective membranes. <i>Talanta</i> , 2004, 63, 73-87.	2.9	89
8	Ultrabubble: A Laminated Ultrasound Contrast Agent with Narrow Size Range. <i>Advanced Materials</i> , 2009, 21, 3949-3952.	11.1	80
9	Contribution of gold nanoparticles to the signal amplification in surface plasmon resonance. <i>Analyst, The</i> , 2012, 137, 4712.	1.7	78
10	Quantum dot photoluminescence lifetime-based pH nanosensor. <i>Chemical Communications</i> , 2011, 47, 2898.	2.2	72
11	Analytical Nanosphere Sensors Using Quantum Dot Enzyme Conjugates for Urea and Creatinine. <i>Analytical Chemistry</i> , 2010, 82, 9043-9049.	3.2	70
12	Methacrylic acrylic polymers in ion-selective membranes: achieving the right polymer recipe. <i>Analytica Chimica Acta</i> , 2000, 403, 77-89.	2.6	66
13	The Emerging Use of Quantum Dots in Analysis. <i>Analytical Letters</i> , 2007, 40, 1497-1520.	1.0	63
14	K ⁺ -selective nanospheres: maximising response range and minimising response time. <i>Analyst, The</i> , 2006, 131, 1282.	1.7	59
15	Assessing a photocured self-plasticised acrylic membrane recipe for Na ⁺ and K ⁺ ion selective electrodes. <i>Analytica Chimica Acta</i> , 2001, 443, 25-40.	2.6	57
16	Redox enzyme linked electrochemical sensors: Theory meets practice. <i>Mikrochimica Acta</i> , 1995, 121, 119-145.	2.5	56
17	Multiplexed energy transfer mechanisms in a dual-function quantum dot for zinc and manganese. <i>Analyst, The</i> , 2009, 134, 159-169.	1.7	53
18	A chloride ion nanosensor for time-resolved fluorimetry and fluorescence lifetime imaging. <i>Analyst, The</i> , 2012, 137, 1500.	1.7	53

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19	One-Step Synthesis of K ⁺ -Selective Methacrylic-Acrylic Copolymers Containing Grafted Ionophore and Requiring No Plasticizer. <i>Electroanalysis</i> , 2000, 12, 178-186.	1.5	51
20	From Thick Films to Monolayer Recognition Layers in Amperometric Enzyme Electrodes. <i>Electroanalysis</i> , 1998, 10, 1130-1136.	1.5	49
21	A quantum dot- α -luciferin probe for Cl ⁻ . <i>Analyst, The</i> , 2008, 133, 1556.	1.7	49
22	Catalytic reduction of benzoquinone at polyaniline and polyaniline/enzyme films. <i>Electroanalysis</i> , 1993, 5, 385-397.	1.5	48
23	A multi-ion particle sensor. <i>Chemical Communications</i> , 2007, , 1544.	2.2	48
24	Parameters in the design of oxygen detecting oxidase enzyme electrodes. <i>Electroanalysis</i> , 1996, 8, 407-413.	1.5	42
25	Ratiometric pH-dot ANSors. <i>Analyst, The</i> , 2010, 135, 1585.	1.7	42
26	Breaking the barrier to fast electron transfer. <i>Bioelectrochemistry</i> , 2009, 76, 19-27.	2.4	40
27	Taking the Plasticizer out of Methacrylic-Acrylic Membranes for K ⁺ -Selective Electrodes. <i>Electroanalysis</i> , 2000, 12, 187-193.	1.5	38
28	Composite Polyacrylate- \sim Poly(3,4- ethylenedioxythiophene) Membranes for Improved All-Solid-State Ion-Selective Sensors. <i>Analytical Chemistry</i> , 2008, 80, 321-327.	3.2	37
29	A chelating dendritic ligand capped quantum dot: preparation, surface passivation, bioconjugation and specific DNA detection. <i>Nanoscale</i> , 2011, 3, 201-211.	2.8	33
30	Upconversion nanoparticles for sensing pH. <i>Analyst, The</i> , 2019, 144, 5547-5557.	1.7	33
31	DIAMINODURENE AS A MEDIATOR OF A PHOTOCURRENT USING INTACT CELLS OF CYANOBACTERIA. <i>Photochemistry and Photobiology</i> , 1994, 59, 91-98.	1.3	30
32	Investigating polymers and conducting metals as transduction mediators or immobilization matrices. <i>Electroanalysis</i> , 1995, 7, 830-837.	1.5	29
33	Effect of Surface Modification on Semiconductor Nanocrystal Fluorescence Lifetime. <i>ChemPhysChem</i> , 2011, 12, 919-929.	1.0	26
34	A Fill-and-Flow Biosensor. <i>Analytical Chemistry</i> , 1998, 70, 3131-3136.	3.2	24
35	A step towards mobile arsenic measurement for surface waters. <i>Analyst, The</i> , 2015, 140, 2644-2655.	1.7	23
36	Enzyme-Degradable Hybrid Polymer/Silica Microbubbles as Ultrasound Contrast Agents. <i>Langmuir</i> , 2016, 32, 6534-6543.	1.6	23

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37	Inducing a Cationic Response in Poly(pyrrole) Films. <i>Electroanalysis</i> , 1999, 11, 756-762.	1.5	22
38	Zein as biodegradable material for effective delivery of alkaline phosphatase and substrates in biokits and biosensors. <i>Biosensors and Bioelectronics</i> , 2016, 86, 14-19.	5.3	19
39	A fabrication method of gold coated colloidosomes and their application as targeted drug carriers. <i>Soft Matter</i> , 2018, 14, 2594-2603.	1.2	19
40	Water Transport in Poly(<i>n</i> -butyl acrylate) Ion-Selective Membranes. <i>Electroanalysis</i> , 2009, 21, 1992-2003.	1.5	18
41	Using trimethylamine dehydrogenase in an enzyme linked amperometric electrode. <i>Analyst, The</i> , 2003, 128, 166-172.	1.7	17
42	Gene to diagnostic: Self immobilizing protein for silica microparticle biosensor, modelled with sarcosine oxidase. <i>Biomaterials</i> , 2019, 193, 58-70.	5.7	17
43	Low density lipoprotein interaction with amino acid-modified self assembled monolayers on surface plasmon resonance surfaces. <i>Analytica Chimica Acta</i> , 2002, 470, 3-17.	2.6	16
44	Structural effect of polymerisation and dehydration on bolaamphiphilic polydiacetylene assemblies. <i>Journal of Materials Chemistry</i> , 2006, 16, 2039.	6.7	16
45	Functional Silver-Coated Colloidosomes as Targeted Carriers for Small Molecules. <i>Langmuir</i> , 2017, 33, 3755-3764.	1.6	15
46	Upconversion nanoparticles as intracellular pH messengers. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6567-6581.	1.9	15
47	Direct toxicity assessment of wastewater: Baroxymeter, a portable rapid toxicity device and the industry perspective. <i>Environmental Toxicology</i> , 2002, 17, 284-290.	2.1	14
48	Surface Plasmon Resonance: Theoretical Evolutionary Design Optimization for a Model Analyte Sensitive Absorbing-Layer System. <i>Analytical Chemistry</i> , 2004, 76, 6861-6870.	3.2	14
49	BRET-linked ATP assay with luciferase. <i>Analyst, The</i> , 2014, 139, 4185-4192.	1.7	14
50	Engineered Proteins for Bioelectrochemistry. <i>Annual Review of Analytical Chemistry</i> , 2014, 7, 257-274.	2.8	14
51	Detection of Oxidized Low-Density Lipoproteins Using Surface Plasmon Resonance. <i>Analytical Chemistry</i> , 1999, 71, 2459-2467.	3.2	13
52	A strand exchange FRET assay for DNA. <i>Biosensors and Bioelectronics</i> , 2004, 20, 1001-1010.	5.3	13
53	Using trimethylamine dehydrogenase in an enzyme linked amperometric electrode. <i>Analyst, The</i> , 2003, 128, 889.	1.7	12
54	pH sensitive quantum dot-anthraquinone nanoconjugates. <i>Nanotechnology</i> , 2014, 25, 195501.	1.3	12

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55	A Sandwich Enzyme Electrode Giving Electrochemical Scavenging of Interferents. <i>Electroanalysis</i> , 1999, 11, 749-755.	1.5	11
56	Phasor transform to extract glucose and ascorbic acid data in an amperometric sensor. <i>Analyst, The</i> , 2000, 125, 1987-1992.	1.7	11
57	Plasmid-encoded genes influence exosporium assembly and morphology in <i>Bacillus megaterium</i> QM B1551 spores. <i>FEMS Microbiology Letters</i> , 2015, 362, fnv147.	0.7	11
58	Overview of Biosensors. <i>ACS Symposium Series</i> , 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. <i>Analytical Letters</i> , 2003, 36, 1781-1803.	1.0	10
60	Designing a curved surface SPR device. <i>Sensors and Actuators B: Chemical</i> , 2006, 114, 804-811.	4.0	10
61	Protein Engineering and Electrochemical Biosensors. , 2008, 109, 65-96.		10
62	An optrode particle geometry to decrease response time. <i>Analyst, The</i> , 2011, 136, 4718.	1.7	10
63	A molecular biology approach to protein coupling at a biosensor interface. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 247-256.	5.8	10
64	Tuning the parameters for fast respirometry. <i>Analytica Chimica Acta</i> , 2002, 460, 257-270.	2.6	9
65	Seeking connectivity between engineered proteins and transducers: connection for glutathione S-transferase fusion proteins on surface plasmon resonance devices. <i>Analytica Chimica Acta</i> , 2003, 500, 323-336.	2.6	9
66	Examination of bilayer lipid membranes for "pin-hole" character. <i>Analyst, The</i> , 2004, 129, 1014-1025.	1.7	9
67	Model for Microcapsule Drug Release with Ultrasound-Activated Enhancement. <i>Langmuir</i> , 2017, 33, 12960-12972.	1.6	9
68	Orthologues of <i>Bacillus subtilis</i> Spore Crust Proteins Have a Structural Role in the <i>Bacillus megaterium</i> QM B1551 Spore Exosporium. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	9
69	Frequency Domain Selection of the Peroxide Signal for Amperometric Biosensors. <i>Electroanalysis</i> , 1998, 10, 1089-1095.	1.5	8
70	Acrylate polymer immobilisation of enzymes. <i>Fresenius' Journal of Analytical Chemistry</i> , 1999, 364, 58-65.	1.5	8
71	Rapid detection of toxicity in wastewater: Recent developments with manometric respirometry. <i>Analytica Chimica Acta</i> , 2006, 573-574, 147-157.	2.6	8
72	Analysis and validation of silica-immobilised BST polymerase in loop-mediated isothermal amplification (LAMP) for malaria diagnosis. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 6309-6326.	1.9	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. <i>Analyst, The</i> , 2001, 126, 329-336.	1.7	7
74	Short peptide receptor mimics for atherosclerosis risk assessment of LDL. <i>Biosensors and Bioelectronics</i> , 2003, 18, 151-164.	5.3	6
75	Designing the "fill and flow" (bio)sensor to give stable measurements from a dynamic system. <i>Sensors and Actuators B: Chemical</i> , 2000, 63, 186-194.	4.0	5
76	Applying Impedance Spectroscopy to Monitoring Hydrogen Peroxide in the Presence of Ascorbic Acid. Part I: Theoretical Considerations. <i>Electroanalysis</i> , 2001, 13, 437-444.	1.5	4
77	BMQ_0737 encodes a novel protein crucial to the integrity of the outermost layers of <i>Bacillus megaterium</i> QM B1551 spores. <i>FEMS Microbiology Letters</i> , 2014, 358, 162-169.	0.7	4
78	Fe ³⁺ /Fe ²⁺ Mycobactin Complex Electrochemistry as an Approach to Determine Mycobactin Levels in Urine. <i>Electroanalysis</i> , 2015, 27, 833-842.	1.5	4
79	Metal Coated Colloidosomes as Carriers for an Antibiotic. <i>Frontiers in Chemistry</i> , 2018, 6, 196.	1.8	4
80	Selective Monitoring of the Hydrogen Peroxide Signal in the Presence of Ascorbic Acid. Part II: Preliminary Practical Realization of Applying Impedance Spectroscopy. <i>Electroanalysis</i> , 2001, 13, 517-523.	1.5	3
81	Triggering blue-red transition response in polydiacetylene vesicles: an electrochemical surface plasmon resonance method. <i>Analyst, The</i> , 2007, 132, 801-810.	1.7	3
82	Microfluidics-based acoustic microbubble biosensor. , 2013, , .		3
83	A Biosilification Fusion Protein for a "Self-Immobilising" Sarcosine Oxidase Amperometric Enzyme Biosensor. <i>Electroanalysis</i> , 2020, 32, 874-884.	1.5	2
84	Mapping minimum reflection distribution of surface plasmon resonance with a complex refractive index. <i>Analytical Methods</i> , 2016, 8, 8299-8305.	1.3	1
85	A peptide library on an SPR chip as an analytical tool at the heart of the matter. <i>Biochemical Society Transactions</i> , 2000, 28, A21-A21.	1.6	0
86	ANALYTICAL SCIENCE: WHAT IS THE UK UP TO?. <i>Analytical Letters</i> , 2001, 34, 313-327.	1.0	0
87	Manometric transduction in enzyme biosensors. <i>Biosensors and Bioelectronics</i> , 2006, 22, 94-101.	5.3	0