

# Elizabeth A H Hall

## List of Publications by Year in Descending Order

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**Version:** 2024-04-19

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Upconversion nanoparticles as intracellular pH messengers. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 6567-6581	4.4	3
85	A Biosilification Fusion Protein for a Self-immobilising Sarcosine Oxidase Amperometric Enzyme Biosensor. <i>Electroanalysis</i> , <b>2020</b> , 32, 874-884	3	1
84	Upconversion nanoparticles for sensing pH. <i>Analyst, The</i> , <b>2019</b> , 144, 5547-5557	5	18
83	Gene to diagnostic: Self immobilizing protein for silica microparticle biosensor, modelled with sarcosine oxidase. <i>Biomaterials</i> , <b>2019</b> , 193, 58-70	15.6	11
82	A fabrication method of gold coated colloidosomes and their application as targeted drug carriers. <i>Soft Matter</i> , <b>2018</b> , 14, 2594-2603	3.6	14
81	Metal Coated Colloidosomes as Carriers for an Antibiotic. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 196	5	2
80	Orthologues of Bacillus subtilis Spore Crust Proteins Have a Structural Role in the Bacillus megaterium QM B1551 Spore Exosporium. <i>Applied and Environmental Microbiology</i> , <b>2018</b> , 84,	4.8	6
79	Functional Silver-Coated Colloidosomes as Targeted Carriers for Small Molecules. <i>Langmuir</i> , <b>2017</b> , 33, 3755-3764	4	13
78	Model for Microcapsule Drug Release with Ultrasound-Activated Enhancement. <i>Langmuir</i> , <b>2017</b> , 33, 12960-12972	4	1
77	Mapping minimum reflection distribution of surface plasmon resonance with a complex refractive index. <i>Analytical Methods</i> , <b>2016</b> , 8, 8299-8305	3.2	1
76	Enzyme-Degradable Hybrid Polymer/Silica Microbubbles as Ultrasound Contrast Agents. <i>Langmuir</i> , <b>2016</b> , 32, 6534-43	4	20
75	A molecular biology approach to protein coupling at a biosensor interface. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2016</b> , 79, 247-256	14.6	9
74	Zein as biodegradable material for effective delivery of alkaline phosphatase and substrates in biokits and biosensors. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 86, 14-19	11.8	14
73	Fe <sup>3+</sup> /Fe <sup>2+</sup> Mycobactin-Complex Electrochemistry as an Approach to Determine Mycobactin Levels in Urine. <i>Electroanalysis</i> , <b>2015</b> , 27, 833-842	3	3
72	Plasmid-encoded genes influence exosporium assembly and morphology in Bacillus megaterium QM B1551 spores. <i>FEMS Microbiology Letters</i> , <b>2015</b> , 362, fnv147	2.9	8
71	A step towards mobile arsenic measurement for surface waters. <i>Analyst, The</i> , <b>2015</b> , 140, 2644-55	5	18
70	BRET-linked ATP assay with luciferase. <i>Analyst, The</i> , <b>2014</b> , 139, 4185-92	5	11

69	pH sensitive quantum dot-anthraquinone nanoconjugates. <i>Nanotechnology</i> , <b>2014</b> , 25, 195501	3.4	11
68	Engineered proteins for bioelectrochemistry. <i>Annual Review of Analytical Chemistry</i> , <b>2014</b> , 7, 257-74	12.5	9
67	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> , <b>2014</b> , 358, 162-9	2.9	4
66	Microfluidics-based acoustic microbubble biosensor <b>2013</b> ,		1
65	A chloride ion nanosensor for time-resolved fluorimetry and fluorescence lifetime imaging. <i>Analyst, The</i> , <b>2012</b> , 137, 1500-8	5	52
64	Contribution of gold nanoparticles to the signal amplification in surface plasmon resonance. <i>Analyst, The</i> , <b>2012</b> , 137, 4712-9	5	62
63	Fluorescent nanoparticles for intracellular sensing: a review. <i>Analytica Chimica Acta</i> , <b>2012</b> , 751, 1-23	6.6	238
62	A chelating dendritic ligand capped quantum dot: preparation, surface passivation, bioconjugation and specific DNA detection. <i>Nanoscale</i> , <b>2011</b> , 3, 201-11	7.7	30
61	Quantum dot photoluminescence lifetime-based pH nanosensor. <i>Chemical Communications</i> , <b>2011</b> , 47, 2898-900	5.8	68
60	Effect of surface modification on semiconductor nanocrystal fluorescence lifetime. <i>ChemPhysChem</i> , <b>2011</b> , 12, 919-29	3.2	25
59	An optrode particle geometry to decrease response time. <i>Analyst, The</i> , <b>2011</b> , 136, 4718-23	5	9
58	Analytical nanosphere sensors using quantum dot-enzyme conjugates for urea and creatinine. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 9043-9	7.8	62
57	Ratiometric pH-dot ANSors. <i>Analyst, The</i> , <b>2010</b> , 135, 1585-91	5	40
56	Ultrabubble: A Laminated Ultrasound Contrast Agent with Narrow Size Range. <i>Advanced Materials</i> , <b>2009</b> , 21, 3949-3952	24	75
55	Water Transport in Poly(n-butyl acrylate) Ion-Selective Membranes. <i>Electroanalysis</i> , <b>2009</b> , 21, 1992-2003	3	15
54	Breaking the barrier to fast electron transfer. <i>Bioelectrochemistry</i> , <b>2009</b> , 76, 19-27	5.6	36
53	Multiplexed energy transfer mechanisms in a dual-function quantum dot for zinc and manganese. <i>Analyst, The</i> , <b>2009</b> , 134, 159-69	5	50
52	A quantum dot-lucigenin probe for Cl <sup>-</sup> . <i>Analyst, The</i> , <b>2008</b> , 133, 1556-66	5	48

51	Protein engineering and electrochemical biosensors. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2008</b> , 109, 65-96	1.7	6
50	Azamacrocycle activated quantum dot for zinc ion detection. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 8260-8	7.8	129
49	Composite polyacrylate-poly(3,4- ethylenedioxythiophene) membranes for improved all-solid-state ion-selective sensors. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 321-7	7.8	31
48	A multi-ion particle sensor. <i>Chemical Communications</i> , <b>2007</b> , 1544-6	5.8	44
47	Triggering blue-red transition response in polydiacetylene vesicles: an electrochemical surface plasmon resonance method. <i>Analyst, The</i> , <b>2007</b> , 132, 801-10	5	3
46	The Emerging Use of Quantum Dots in Analysis. <i>Analytical Letters</i> , <b>2007</b> , 40, 1497-1520	2.2	57
45	K <sup>+</sup> -selective nanospheres: maximising response range and minimising response time. <i>Analyst, The</i> , <b>2006</b> , 131, 1282-91	5	53
44	pH response of carboxy-terminated colorimetric polydiacetylene vesicles. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 2231-8	7.8	135
43	Structural effect of polymerisation and dehydration on bolaamphiphilic polydiacetylene assemblies. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 2039		15
42	Manometric transduction in enzyme biosensors. <i>Biosensors and Bioelectronics</i> , <b>2006</b> , 22, 94-101	11.8	
41	Rapid detection of toxicity in wastewater: recent developments with manometric respirometry. <i>Analytica Chimica Acta</i> , <b>2006</b> , 573-574, 147-57	6.6	7
40	Designing a curved surface SPR device. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 114, 804-811	8.5	6
39	A strand exchange FRET assay for DNA. <i>Biosensors and Bioelectronics</i> , <b>2004</b> , 20, 1001-10	11.8	13
38	An experimental study of membrane materials and inner contacting layers for ion-selective K <sup>+</sup> electrodes with a stable response and good dynamic range. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 2031-9	7.8	87
37	Surface plasmon resonance: theoretical evolutionary design optimization for a model analyte sensitive absorbing-layer system. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 6861-70	7.8	12
36	Examination of bilayer lipid membranes for 'pin-hole' character. <i>Analyst, The</i> , <b>2004</b> , 129, 1014-25	5	9
35	Ion-transport and diffusion coefficients of non-plasticised methacrylic-acrylic ion-selective membranes. <i>Talanta</i> , <b>2004</b> , 63, 73-87	6.2	82
34	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> , <b>2003</b> , 36, 1781-1803	2.2	9

33	Seeking connectivity between engineered proteins and transducers: connection for glutathione S-transferase fusion proteins on surface plasmon resonance devices. <i>Analytica Chimica Acta</i> , <b>2003</b> , 500, 323-336	6.6	8
32	Short peptide receptor mimics for atherosclerosis risk assessment of LDL. <i>Biosensors and Bioelectronics</i> , <b>2003</b> , 18, 151-64	11.8	4
31	Using trimethylamine dehydrogenase in an enzyme linked amperometric electrode. <i>Analyst, The</i> , <b>2003</b> , 128, 889	5	11
30	Using trimethylamine dehydrogenase in an enzyme linked amperometric electrode. Part 1. Wild-type enzyme redox mediation. <i>Analyst, The</i> , <b>2003</b> , 128, 166-72	5	15
29	Direct toxicity assessment of wastewater: Baroxymeter, a portable rapid toxicity device and the industry perspective. <i>Environmental Toxicology</i> , <b>2002</b> , 17, 284-90	4.2	12
28	Tuning the parameters for fast respirometry. <i>Analytica Chimica Acta</i> , <b>2002</b> , 460, 257-270	6.6	6
27	Low density lipoprotein interaction with amino acid-modified self assembled monolayers on surface plasmon resonance surfaces. <i>Analytica Chimica Acta</i> , <b>2002</b> , 470, 3-17	6.6	13
26	ANALYTICAL SCIENCE: WHAT IS THE UK UP TO?. <i>Analytical Letters</i> , <b>2001</b> , 34, 313-327	2.2	
25	Applying Immittance Spectroscopy to Monitoring Hydrogen Peroxide in the Presence of Ascorbic Acid. Part I: Theoretical Considerations. <i>Electroanalysis</i> , <b>2001</b> , 13, 437-444	3	4
24	Selective Monitoring of the Hydrogen Peroxide Signal in the Presence of Ascorbic Acid. Part II: Preliminary Practical Realization of Applying Immittance Spectroscopy. <i>Electroanalysis</i> , <b>2001</b> , 13, 517-523		3
23	Assessing a photocured self-plasticised acrylic membrane recipe for Na <sup>+</sup> and K <sup>+</sup> ion selective electrodes. <i>Analytica Chimica Acta</i> , <b>2001</b> , 443, 25-40	6.6	50
22	Assessment of the fifth ligand-binding repeat (LR5) of the LDL receptor as an analytical reagent for LDL binding. <i>Analyst, The</i> , <b>2001</b> , 126, 329-36	5	7
21	A peptide library on an SPR chip as an analytical tool at the heart of the matter. <i>Biochemical Society Transactions</i> , <b>2000</b> , 28, A21-A21	5.1	
20	One-Step Synthesis of K <sup>+</sup> -Selective Methacrylic-Acrylic Copolymers Containing Grafted Ionophore and Requiring No Plasticizer. <i>Electroanalysis</i> , <b>2000</b> , 12, 178-186	3	43
19	Taking the Plasticizer out of Methacrylic-Acrylic Membranes for K <sup>+</sup> -Selective Electrodes. <i>Electroanalysis</i> , <b>2000</b> , 12, 187-193	3	34
18	Methacrylic-Acrylic polymers in ion-selective membranes: achieving the right polymer recipe. <i>Analytica Chimica Acta</i> , <b>2000</b> , 403, 77-89	6.6	55
17	Designing the fill and flow (bio)sensor to give stable measurements from a dynamic system. <i>Sensors and Actuators B: Chemical</i> , <b>2000</b> , 63, 186-194	8.5	4
16	Producing "self-plasticizing" ion-selective membranes. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 42-51	7.8	119

15	Phasor transform to extract glucose and ascorbic acid data in an amperometric sensor. <i>Analyst, The</i> , <b>2000</b> , 125, 1987-92	5	10
14	Acrylate polymer immobilisation of enzymes. <i>Fresenius Journal of Analytical Chemistry</i> , <b>1999</b> , 364, 58-65		6
13	A Sandwich Enzyme Electrode Giving Electrochemical Scavenging of Interferents. <i>Electroanalysis</i> , <b>1999</b> , 11, 749-755	3	10
12	Inducing a Cationic Response in Poly(pyrrole) Films. <i>Electroanalysis</i> , <b>1999</b> , 11, 756-762	3	20
11	Dipicolinic acid (DPA) assay revisited and appraised for spore detection. <i>Analyst, The</i> , <b>1999</b> , 124, 1599-604		136
10	Detection of oxidized low-density lipoproteins using surface plasmon resonance. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 2459-67	7.8	11
9	Frequency Domain Selection of the Peroxide Signal for Amperometric Biosensors. <i>Electroanalysis</i> , <b>1998</b> , 10, 1089-1095	3	8
8	From Thick Films to Monolayer Recognition Layers in Amperometric Enzyme Electrodes. <i>Electroanalysis</i> , <b>1998</b> , 10, 1130-1136	3	39
7	A Fill-and-Flow Biosensor. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 3131-6	7.8	21
6	Parameters in the design of oxygen detecting oxidase enzyme electrodes. <i>Electroanalysis</i> , <b>1996</b> , 8, 407-413	3	38
5	Redox enzyme linked electrochemical sensors: Theory meets practice. <i>Mikrochimica Acta</i> , <b>1995</b> , 121, 119-145	5.8	48
4	Investigating polymers and conducting metals as transduction mediators or immobilization matrices. <i>Electroanalysis</i> , <b>1995</b> , 7, 830-837	3	29
3	DIAMINODURENE AS A MEDIATOR OF A PHOTOCURRENT USING INTACT CELLS OF CYANOBACTERIA. <i>Photochemistry and Photobiology</i> , <b>1994</b> , 59, 91-98	3.6	23
2	Catalytic reduction of benzoquinone at polyaniline and polyaniline/enzyme films. <i>Electroanalysis</i> , <b>1993</b> , 5, 385-397	3	42
1	Overview of Biosensors. <i>ACS Symposium Series</i> , <b>1992</b> , 1-14	0.4	9