James Davis

List of Publications by Citations

166 papers	4,414 citations	32 h-index	60 g-index
173 ext. papers	4,861 ext. citations	5 avg, IF	5.43 L-index

#	Paper	IF	Citations
166	Detection and determination of nitrate and nitrite: a review. *Talanta*, **2001**, 54, 785-803	6.2	606
165	Analytical strategies for the detection of sulfide: a review. *Talanta*, **2000**, 52, 771-84	6.2	288
164	Electrochemical detection of nitrate and nitrite at a copper modified electrode. *Analyst, The*, **2000**, 125, 737-742	5	205
163	Electrochemical Determination of Thiols: A Perspective. *Electroanalysis*, **2002**, 14, 89-98	3	162
162	The Electrochemical Analog of the Methylene Blue Reaction: A Novel Amperometric Approach to the Detection of Hydrogen Sulfide. *Electroanalysis*, **2000**, 12, 1453-1460	3	147
161	Electroanalytical methods for the determination of sulfite in food and beverages. *TrAC - Trends in Analytical Chemistry*, **2006**, 25, 589-598	14.6	145
160	Electrochemical detection of thiols in biological media. *Talanta*, **2001**, 53, 1089-94	6.2	102
159	Iodinated cyanine dyes: a new class of sensitisers for use in NIR activated photodynamic therapy (PDT). *Chemical Communications*, **2017**, 53, 2009-2012	5.8	99
158	Sonoelectrochemically enhanced nitrite detection. *Analytica Chimica Acta*, **2000**, 404, 241-247	6.6	96
157	Approaching intelligent infection diagnostics: Carbon fibre sensor for electrochemical pyocyanin detection. *Bioelectrochemistry*, **2010**, 77, 114-9	5.6	86
156	Electrochemically initiated 1,4 additions: a versatile route to the determination of thiols. *Analytica Chimica Acta*, **2001**, 447, 1-10	6.6	86
155	Advances in the voltammetric analysis of small biologically relevant compounds. *Analytical Biochemistry*, **2002**, 303, 1-16	3.1	82
154	New Developments in Smart Bandage Technologies for Wound Diagnostics. *Advanced Materials*, **2016**, 28, 5732-7	24	79
153	Electroanalytical exploitation of quinone-thiol interactions: application to the selective determination of cysteine. *Analyst, The*, **2001**, 126, 353-7	5	63
152	Elements of biosensor construction. *Enzyme and Microbial Technology*, **1995**, 17, 1030-1035	3.8	59
151	Manganese detection in marine sediments: anodic vs. cathodic stripping voltammetry. *Talanta*, **2005**, 65, 423-9	6.2	56
150	On-line Determination of Sulfide by the Methylene Blue Method With Diode-laser-based Fluorescence Detection. *Analyst, The*, **1997**, 122, 1555-1557	5	51

149	A disposable sensor for point of care wound pH monitoring. *Analyst, The*, **2011**, 136, 4692-5	5	48
148	A comparison of different types of gold-carbon composite electrode for detection of arsenic(III). *Analytical and Bioanalytical Chemistry*, **2005**, 381, 979-85	4.4	48
147	A novel electroreduction strategy for the determination of sulfite. *Analyst, The*, **2005**, 130, 1343-4	5	46
146	Cathodic reduction of bisulfite and sulfur dioxide in aqueous solutions on copper electrodes: an electrochemical ESR study. *Journal of Physical Chemistry B*, **2005**, 109, 18500-6	3.4	45
145	Current strategies in nitrite detection and their application to field analysis. *Journal of Environmental Monitoring*, **2002**, 4, 465-71		45
144	Bioelectroanalytical determination of phosphate: A review. *Journal of Molecular Catalysis B: Enzymatic*, **2009**, 59, 1-8		44
143	Modification of catechol polymer redox properties during electropolymerization in the presence of aliphatic amines. *Electrochimica Acta*, **1998**, 43, 291-300	6.7	41
142	Fabrication and electrochemical characterization of polydopamine redox polymer modified screen-printed carbon electrode for the detection of guanine. *Sensors and Actuators B: Chemical*, **2016**, 233, 528-534	8.5	41
141	Review: Targeting therapeutics against glutathione depletion in diabetes and its complications. *British Journal of Diabetes and Vascular Disease*, **2007**, 7, 258-265		39
140	Diagnostic Implications of Uric Acid in Electroanalytical Measurements. *Electroanalysis*, **2005**, 17, 1233-1243		38
139	Evaluation of phenolic assays for the detection of nitrite. *Talanta*, **1999**, 50, 103-12	6.2	37
138	Electrochemical detection of aniline: an electrochemically initiated reaction pathway. *Talanta*, **2002**, 57, 233-42	6.2	36
137	Selective determination of thiols: a novel electroanalytical approach. *Analyst, The*, **2000**, 125, 661-663	5	36
136	The determination of disulphide species within physiological fluids. *TrAC - Trends in Analytical Chemistry*, **2002**, 21, 807-815	14.6	34
135	Electrochemical Detection of Nitrate at a Copper Modified Electrode Under the Influence of Ultrasound. *Electroanalysis*, **2000**, 12, 1363-1367	3	33
134	Gold nanoparticle modified screen-printed carbon arrays for the simultaneous electrochemical analysis of lead and copper in tap water. *Mikrochimica Acta*, **2016**, 183, 2361-2368	5.8	31
133	Electrochemically Driven Derivatisation-Detection of Cysteine. *Mikrochimica Acta*, **2001**, 137, 87-91	5.8	30
132	An electrochemical adaptation of Ellman's test. *Analyst, The*, **2002**, 127, 797-802	5	30

131	Clostridium isatidis colonised carbon electrodes: voltammetric evidence for direct solid state redox processes. *New Journal of Chemistry*, **2000**, 24, 179-181	3.6	30
130	Enhanced Electrochemical Detection of Nitrite and Nitrite at a Cu-30Ni Alloy Electrode. *Analytical Letters*, **2000**, 33, 3127-3136	2.2	28
129	Voltammetric investigation of hair dye constituents: application to the quantification of p-phenylenediamine. *Analyst, The*, **2001**, 126, 1897-900	5	28
128	Spectroscopic Evaluation of Protein Affinity Binding at Polymeric Biosensor Films. *Journal of the American Chemical Society*, **1999**, 121, 4302-4303	16.4	28
127	Investigating the use of endogenous quinoid moieties on carbon fibre as means of developing micro pH sensors. *Materials Science and Engineering C*, **2014**, 43, 533-7	8.3	27
126	Electrochemical detection of sulphide: a novel dual flow cell. *Sensors and Actuators B: Chemical*, **2000**, 69, 189-192	8.5	27
125	Sulfite Determination at In Situ Plated Copper Modified Gold Ultramicroelectrode Arrays. *Electroanalysis*, **2006**, 18, 247-252	3	25
124	A reagentless renewable N,N?-diphenyl-p-phenylenediamine loaded sensor for hydrogen sulfide. *Sensors and Actuators B: Chemical*, **2002**, 87, 33-40	8.5	25
123	Potentiometric detection of thiols: a mechanistic evaluation of quinone□thiol interactions. *Electrochemistry Communications*, **2003**, 5, 732-736	5.1	25
122	Integrated urate sensors for detecting wound infection. *Electrochemistry Communications*, **2008**, 10, 709-713	5.1	23
121	Development of a disposable potentiometric sensor for the near patient testing of plasma thiol concentrations. *Analytical Chemistry*, **2004**, 76, 3833-6	7.8	23
120	Electrochemical tagging of urate: developing new redox probes. *Analyst, The*, **2003**, 128, 811-3	5	23
119	A non-enzymatic sensor based on the redox of ferrocene carboxylic acid on ionic liquid film-modified screen-printed graphite electrode for the analysis of hydrogen peroxide residues in milk. *Journal of Electroanalytical Chemistry*, **2016**, 766, 147-151	4.1	22
118	Sonoelectrochemically enhanced determination of 5-aminosalicylic acid. *Talanta*, **2001**, 54, 871-7	6.2	22
117	Self-aligned TiO2 - Photo reduced graphene oxide hybrid surface for smart bandage application. *Applied Surface Science*, **2019**, 488, 261-268	6.7	21
116	Rapid determination of salicylic acid at screen printed electrodes. *Microchemical Journal*, **2018**, 137, 71-77	4.8	21
115	A mechanistic evaluation of the amperometric response of reduced thiols in quinone mediated systems. *Analytica Chimica Acta*, **2003**, 491, 203-210	6.6	21
114	Transdermal microneedle sensor arrays based on palladium: Polymer composites. *Electrochemistry Communications*, **2016**, 72, 162-165	5.1	21

113	A Voltammetric Sensor Based on Chemically Reduced Graphene Oxide-Modified Screen-Printed Carbon Electrode for the Simultaneous Analysis of Uric Acid, Ascorbic Acid and Dopamine. *Chemosensors*, **2016**, 4, 25	4	20
112	Design of composite microneedle sensor systems for the measurement of transdermal pH. *Materials Chemistry and Physics*, **2019**, 227, 340-346	4.4	19
111	Carbon fibre composites: integrated electrochemical sensors for wound management. *Journal of Biochemistry*, **2008**, 144, 87-93	3.1	19
110	Electrochemically Initiated 1,4-Nucleophilic Substitutions:A General Strategy for the Analytical Detection of Hydrogen Sulfide. *Electroanalysis*, **2001**, 13, 432-436	3	19
109	Electrochemical approaches to the development of smart bandages: A mini-review. *Electrochemistry Communications*, **2014**, 40, 96-99	5.1	18
108	Evaluation of a novel pad printing technique for the fabrication of disposable electrode assemblies. *Sensors and Actuators B: Chemical*, **2005**, 107, 491-496	8.5	18
107	Modulation of ROS production in photodynamic therapy using a pH controlled photoinduced electron transfer (PET) based sensitiser. *Chemical Communications*, **2015**, 51, 16832-5	5.8	17
106	New directions for carbon-based detectors: exploiting the versatility of carbon substrates in electroanalysis. *Journal of Solid State Electrochemistry*, **2008**, 12, 1245-1254	2.6	17
105	Molecular anchors□mimicking metabolic processes in thiol analysis. *New Journal of Chemistry*, **2006**, 30, 1718-1724	3.6	17
104	Molecular Wiring in Smart Dressings: Opening a New Route to Monitoring Wound pH. *Healthcare (Switzerland)*, **2015**, 3, 466-77	3.4	16
103	Laser-anodised carbon fibre: Coupled activation and patterning of sensor substrates. *Journal of Physics and Chemistry of Solids*, **2008**, 69, 2932-2935	3.9	16
102	Potentiometric differentiation of mono- and macromolecular thiol within human plasma at carbon fiber electrodes. *Journal of the American Chemical Society*, **2004**, 126, 7732-3	16.4	16
101	Polypyrrole Coated Mercury Film Electrodes for Sono-ASV Analysis of Cadmium and Lead. *Electroanalysis*, **2001**, 13, 7-12	3	16
100	Bioanalytical utility of sonovoltammetry. *Journal of Pharmaceutical and Biomedical Analysis*, **2001**, 26, 995-1001	3.5	15
99	Ultrasonic extraction of iron from non-aqueous liquids. *Analyst, The*, **2002**, 127, 8-10	5	15
98	One-Step Hydrothermal Synthesis of Phase-Engineered MoS2/MoO3 Electrocatalysts for Hydrogen Evolution Reaction. *ACS Applied Nano Materials*, **2021**, 4, 2642-2656	5.6	15
97	Immunochemical Assays and Nucleic-Acid Detection Techniques for Clinical Diagnosis of Prostate Cancer. *Journal of Cancer*, **2016**, 7, 523-31	4.5	15
96	Mini-Review: Assessing the Potential Impact of Microneedle Technologies on Home Healthcare Applications. *Medicines (Basel, Switzerland)*, **2018**, 5,	4.1	14

95	Synthesis and characterisation of water soluble ferrocenes: Molecular tuning of redox potentials. *Journal of Organometallic Chemistry*, **2007**, 692, 5173-5182	2.3	14
94	Cathodic stripping voltammetry of nickel: sonoelectrochemical exploitation of the Ni(III)/Ni(II) couple. *Talanta*, **2002**, 57, 1045-51	6.2	14
93	Electrochemically Controlled Dissolution of Nanocarbon-Cellulose Acetate Phthalate Microneedle Arrays. *ACS Applied Materials & Interfaces*, **2019**, 11, 35540-35547	9.5	13
92	Size-dependent stability of ultra-small β-phase tin nanocrystals synthesized by microplasma. *Nature Communications*, **2019**, 10, 817	17.4	13
91	Laser patterned carbon–polyethylene mesh electrodes for wound diagnostics. *Materials Chemistry and Physics*, **2014**, 143, 991-995	4.4	13
90	Covert Approaches to Countering Adult Chemophobia. *Journal of Chemical Education*, **2008**, 85, 379	2.4	13
89	Bromide-sulfur interchange: ion chromatographic determination of total reduced thiol levels in plasma. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2008**, 864, 173-7	3.2	13
88	XPS assaying of electrodeposited copolymer composition to optimise sensor materials. *Journal of Electron Spectroscopy and Related Phenomena*, **2001**, 121, 131-148	1.7	13
87	SONOELECTROCHEMICAL DETECTION OF COPPER WITHIN INDUSTRIAL EFFLUENT: A CRITICAL ASSESSMENT. *Analytical Letters*, **2001**, 34, 2375-2390	2.2	13
86	Ultra-sensitive detection of l-tyrosine using molecularly imprinted electrochemical sensor towards diabetic foot ulcer detection. *Electrochemistry Communications*, **2020**, 117, 106782	5.1	13
85	Epoxide–quinone transformations: Multi-parametric indicators for assessing animal welfare. *Electrochemistry Communications*, **2009**, 11, 1555-1558	5.1	12
84	Characterisation of carbon fibre composites for decentralised biomedical testing. *Materials Chemistry and Physics*, **2006**, 97, 267-272	4.4	12
83	Enhanced incorporation of phenazine redox groups during the electropolymerisation of phenylene-1,2-diamine: Application to cytochrome c reduction. *Electrochimica Acta*, **1996**, 41, 2375-2379	6.7	12
82	Sensor systems for bacterial reactors: A new flavin-phenol composite film for the in situ voltammetric measurement of pH. *Analytica Chimica Acta*, **2018**, 1027, 1-8	6.6	11
81	Salicylate Poisoning Potential of Topical Pain Relief Agents: From Age Old Remedies to Engineered Smart Patches. *Medicines (Basel, Switzerland)*, **2017**, 4,	4.1	11
80	Atmospheric pressure plasma treated carbon fibre weave: A flexible approach to wound monitoring. *Electrochemistry Communications*, **2013**, 33, 99-101	5.1	10
79	Nanostructuring carbon fibre probes for use in central venous catheters. *Analytica Chimica Acta*, **2014**, 812, 1-5	6.6	10
78	Molecular sieving of anti-oxidants at a copper–carbon laminate assembly. *Electrochemistry Communications*, **2005**, 7, 500-504	5.1	10

77	Evaluation of a multifunctional indicator for the electroanalytical determination of nitrite. *Electrochimica Acta*, **2005**, 50, 1879-1884	6.7	10
76	Sono-anodic stripping voltammetric determination of cadmium in the presence of surfactant. *Freseniusl Journal of Analytical Chemistry*, **2000**, 368, 415-417		10
75	Adapting resistive sensors for monitoring moisture in smart wound dressings. *Current Opinion in Electrochemistry*, **2020**, 23, 31-35	7.2	9
74	Origami: a versatile modeling system for visualising chemical structure and exploring molecular function. *Chemistry Education Research and Practice*, **2010**, 11, 43-47	2.1	9
73	Plumbagin: a natural product for smart materials?. *New Journal of Chemistry*, **2010**, 34, 395	3.6	9
72	Ephedrine□copper□arbon interactions: An electroanalytical investigation. *Electrochemistry Communications*, **2006**, 8, 633-637	5.1	9
71	Laser induced graphene sensors for assessing pH: Application to wound management. *Electrochemistry Communications*, **2021**, 123, 106914	5.1	9
70	Assessing microbial water quality: Electroanalytical approaches to the detection of coliforms. *TrAC - Trends in Analytical Chemistry*, **2019**, 121, 115670	14.6	8
69	Microneedle array sensors based on carbon nanoparticle composites: interfacial chemistry and electroanalytical properties. *Journal of Materials Science*, **2019**, 54, 10705-10714	4.3	8
68	Plasma-polyplumbagin-modified microfiber probes: a functional material approach to monitoring vascular access line contamination. *ACS Applied Materials & Interfaces*, **2013**, 5, 9367-71	9.5	8
67	Electrochemical Actuators: Controlled Drug Release Strategies for use in Micro Devices. *Electroanalysis*, **2015**, 27, 872-878	3	8
66	Synthesis of Acridine□Quinone Systems□A Potential Electrochemical Fluorescent Switch. *Synthetic Communications*, **2008**, 38, 3447-3455	1.7	8
65	Selective Potentiometric Measurement of Physiologically Significant Thiols. *Electroanalysis*, **2005**, 17, 205-209	3	8
64	Electrochemically Initiated Reactions of Diphenylamineswith Sulfide: Application to the Voltammetric Detectionof Hydrogen Sulfide. *Electroanalysis*, **2001**, 13, 143-148	3	8
63	Carbon-epoxy electrodes: unambiguous identification of authentic triple-phase (insulator/solution/electrode) processes. *Chemical Communications*, **2002**, 1028-9	5.8	8
62	Wound diagnostics: Deploying electroanalytical strategies for point of care sensors and smart dressings. *Current Opinion in Electrochemistry*, **2017**, 3, 40-45	7.2	7
61	Disposable solid state pH sensor based on flavin polymer-ferrocyanide redox couples. *Microchemical Journal*, **2018**, 139, 210-215	4.8	7
60	Simultaneous electrochemical determination of dopamine and 5-hydroxyindoleacetic acid in urine using a screen-printed graphite electrode modified with gold nanoparticles. *Analytical and Bioanalytical Chemistry*, **2016**, 1	4.4	7

59	Butyl grafted polyethylene films doped with carbon black: A foundation for the development of smart bandages. *Sensors and Actuators B: Chemical*, **2014**, 193, 764-769	8.5	7
58	Clinical diagnostics for homocysteine: a rogue amino acid?. *Expert Review of Molecular Diagnostics*, **2010**, 10, 489-500	3.8	7
57	Plumbagin: A New Route to the Electroanalytical Determination of Cystine. *Electroanalysis*, **2010**, 22, 2491-2495	3	7
56	A clinical assessment of direct electrochemical urate measurements. *Talanta*, **2006**, 68, 1463-8	6.2	7
55	Laser etched carbon fibre composites: Disposable detectors for flow analysis applications. *Electrochemistry Communications*, **2006**, 8, 1315-1320	5.1	7
54	Electrochemical bubble rip: A new approach to controlled drug release. *Electrochemistry Communications*, **2015**, 60, 88-91	5.1	6
53	Electroanalytical Sensor for Diabetic Foot Ulcer Monitoring with Integrated Electronics for Connected Health Application. *Electroanalysis*, **2020**, 32, 2082-2089	3	6
52	Microneedle Manufacture: Assessing Hazards and Control Measures. *Safety*, **2017**, 3, 25	1.7	6
51	Green Approaches to Field Nitrate Analysis: An Electroanalytical Perspective. *Electroanalysis*, **2009**, 21, NA-NA	3	6
50	Field emission from multiwall carbon nanotubes prepared by electrodeposition without the use of a dispersant. *Journal of Vacuum Science & Technology B*, **2006**, 24, 1362		6
49	Stability of Mercury Film Electrodes under the Influence of High Frequency (500kHz) Ultrasound. *Journal of Applied Electrochemistry*, **2001**, 31, 475-480	2.6	6
48	A wireless smart patch for the controlled repetitive transdermal administration of therapeutic agents. *Sensors and Actuators B: Chemical*, **2019**, 294, 24-31	8.5	5
47	Key neurochemical markers for the prevention of suicide. *TrAC - Trends in Analytical Chemistry*, **2009**, 28, 1037-1047	14.6	5
46	Electrochemil investigation of the photodecomposition of selected ferrocene derivatives. *Electroanalysis*, **1997**, 9, 650-652	3	5
45	A chromatographic tool for preparing combinatorial quinone-thiol conjugate libraries. *Journal of Proteomics*, **2007**, 70, 797-802		5
44	Rapid assessment of the latent hazard posed by dissolved mercaptans within aqueous effluent. *Journal of Hazardous Materials*, **2008**, 154, 444-50	12.8	5
43	Theory of cyclic voltammetry in tubular electrodes under no flow conditions. *Journal of Electroanalytical Chemistry*, **2006**, 587, 56-59	4.1	5
42	Detection of Sulfite via the Trapping and Subsequent Electrochemical Detection of Hydrogen Sulfide. *Mikrochimica Acta*, **2001**, 137, 105-110	5.8	5

41	Detection and quantitative determination of catechol derivatives using an iron(III)□ethylenediamine visible absorbance assay. *Analytical Proceedings*, **1995**, 32, 423-426		5
40	An Enhanced Chromatographic Technique for the Preparative Scale Purification of Acetyl Ferrocene. *Journal of Chemical Education*, **1995**, 72, 266	2.4	5
39	Microneedle drug delivery systems: Appraising opportunities for improving safety and assessing areas of concern. *Journal of Chemical Health and Safety*, **2017**, 24, 6-14	1.7	4
38	**2019**, 3, 1-4		4
37	Determination of Total Reduced Thiol Levels in Plasma Using a Bromide Substituted Quinone. *Electroanalysis*, **2007**, 19, 2523-2528	3	4
36	Metabolic mimics: thiol responsive drug release. *Journal of Colloid and Interface Science*, **2006**, 302, 698-704	3.3	4
35	Electrochemical manipulation of localised pH: application to electroanalysis. *Journal of Electroanalytical Chemistry*, **2002**, 520, 13-17	4.1	4
34	NITRATION: A SELECTIVE ELECTROCHEMICAL LABEL FOR THE DETERMINATION OF ACTIVATED AROMATICS. *Analytical Letters*, **2002**, 35, 339-353	2.2	4
33	Palladium Nanoneedles on Carbon Fiber: Highly Sensitive Peroxide Detection for Biomedical and Wearable Sensor Applications. *IEEE Sensors Journal*, **2019**, 19, 34-38	4	4
32	An Electroanalytical Paper-Based Wound Dressing Using ZIF-67/C3 N4 Nanocomposite Towards the Monitoring of Staphylococcus Aureus in Diabetic Foot Ulcer. *IEEE Sensors Journal*, **2021**, 21, 1215-1221	4	4
31	Electrochemically driven reagent release from an electronic suture. *Electrochemistry Communications*, **2017**, 81, 70-73	5.1	3
30	Microbial water quality: Voltammetric detection of coliforms based on riboflavin□ferrocyanide redox couples. *Electrochemistry Communications*, **2019**, 101, 99-103	5.1	3
29	Novel pH sensing redox wire based on a polyamide homopolymer of L-tryptophan. *Fibers and Polymers*, **2015**, 16, 2294-2297	2	3
28	Electrochemically initiated release: exploring new modalities for controlled drug release. *Journal of Electroanalytical Chemistry*, **2020**, 872, 113926	4.1	3
27	The Preparation of a Novel Polymer Film Based on Salicylaldoxime and its Influence on Aqueous Copper Electrochemistry. *Analytical Letters*, **1994**, 27, 1931-1943	2.2	3
26	Ultrasonic exfoliation of carbon fiber: electroanalytical perspectives. *Journal of Applied Electrochemistry*, **2020**, 50, 383-394	2.6	3
25	Design of a smart sensor mesh for the measurement of pH in ostomy applications. *Journal of Materials Science*, **2019**, 54, 10410-10419	4.3	2
24	Label-free Detection of Prostate Specific Antigen at a Screen-printed Immunosensor Modified with a Nanostructured Gold Layer. *Chemistry Letters*, **2017**, 46, 1728-1731	1.7	2

23	Electrochemical Monitoring of Singlet Oxygen Production. *Electroanalysis*, **2009**, 21, 2293-2296	3	2
22	Solid state differentiation of plasma thiols using a centrifugally activated mercaptobenzothiazole disulfide exchange indicator. *Chemical Communications*, **2007**, 592-4	5.8	2
21	Analytical viewpoint. The cholesterol conundrum. *Analytical Proceedings*, **1995**, 32, 283		2
20	Preparation and characterization of a novel redox polymer based on salicyl-N-phenylene-1,4-diamine. *Journal of Electroanalytical Chemistry*, **1996**, 403, 213-218	4.1	2
19	Electrochemical Determination of Thiols: A Perspective **2002**, 14, 89		2
18	Next generation transdermal drug delivery - An electrochemical approach to pH manipulation for controlled release within smart patch technologies. *IFMBE Proceedings*, **2015**, 919-922	0.2	1
17	Electroanalytical properties of chlorophenol red at disposable carbon electrodes: Implications for Escherichia coli detection. *Bioelectrochemistry*, **2019**, 130, 107321	5.6	1
16	Exploiting the e-Serialization of nano-fiction to enhance undergraduate health and safety lectures: A back to the future perspective. *Journal of Chemical Health and Safety*, **2012**, 19, 23-28	1.7	1
15	Electrochemically Modulated Film Permeability: A Functional Film for Controlled Reagent Release. *Chemistry Letters*, **2009**, 38, 968-969	1.7	1
14	Electrochemical characterisation of novel water-soluble ruthenocene complexes: An anion-dependent response. *Electrochemistry Communications*, **2007**, 9, 1451-1455	5.1	1
13	Assistive Learning and Research Mentoring Schemes. *New Directions in the Teaching of Physical Sciences*, **2007**, 45-48	2	1
12	Minimising Blood Stream Infection: Developing New Materials for Intravascular Catheters. *Medicines (Basel, Switzerland)*, **2020**, 7,	4.1	1
11	An electronic approach to minimising moisture-associated skin damage in ostomy patients. *Medical Hypotheses*, **2015**, 85, 192-6	3.8	0
10	Engineering a Grimm approach to enhancing student engagement with health and safety lectures: a new perspective on an ancient pedagogy. *Engineering Education*, **2011**, 6, 21-28		0
9	Design of functionalized materials for use in micronanoscale drug delivery devices and smart patches **2017**, 183-206		
8	Developing Smart Bandage Materials for the Management of Chronic Wounds. *IFMBE Proceedings*, **2015**, 1363-1366	0.2	
7	Laser-patterned Composite Carbon Structures for Wound Monitoring Technologies. *Chemistry Letters*, **2014**, 43, 399-401	1.7	
6	Iontophoresis and Flame Photometry: A Hybrid Interdisciplinary Experiment. *Journal of Chemical Education*, **2010**, 87, 730-731	2.4	

List of Publications

5	Laser Treated Carbon Composites for the Determination of Suicide Biomarkers: Development of a Forensic Diagnosis Device. *ECS Transactions*, **2009**, 19, 49-60	1
4	Developing a Strategy for the Spatial Localisation and Autonomous Release of Silver Nanoparticles within Smart Implants. *International Journal of Electrochemistry*, **2011**, 2011, 1-4	2.4
3	A novel approach to countering COSHH complacency in the lab or the workplace: A generic development kit?. *Journal of Chemical Health and Safety*, **2010**, 17, 16-20	1.7
2	Multilayer Laminated Electrode Assemblies: Integrated Disposable Sampling/Sensing Structures. *Analytical Letters*, **2005**, 38, 2067-2076	2.2
1	Laser Induced Graphene: New Sensing Applications **2021**,	