

# Dermot Diamond

## List of Publications by Year in descending order

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356  
papers

16,123  
citations

16450

64  
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26610

107  
g-index

359  
all docs

359  
docs citations

359  
times ranked

15707  
citing authors

#	ARTICLE	IF	CITATIONS
1	Glucose Sensing for Diabetes Monitoring: Recent Developments. <i>Sensors</i> , 2017, 17, 1866.	3.8	546
2	All-solid-state sodium-selective electrode based on a calixarene ionophore in a poly(vinyl chloride) membrane with a polypyrrole solid contact. <i>Analytical Chemistry</i> , 1992, 64, 2496-2501.	6.5	402
3	Smartphone-Based Simultaneous pH and Nitrite Colorimetric Determination for Paper Microfluidic Devices. <i>Analytical Chemistry</i> , 2014, 86, 9554-9562.	6.5	348
4	BIOTEXâ€”Biosensing Textiles for Personalised Healthcare Management. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2010, 14, 364-370.	3.2	274
5	Synthesis of electrochemically-reduced graphene oxide film with controllable size and thickness and its use in supercapacitor. <i>Carbon</i> , 2011, 49, 3488-3496.	10.3	260
6	Development of a volatile amine sensor for the monitoring of fish spoilage. <i>Talanta</i> , 2006, 69, 515-520.	5.5	250
7	Advances in wearable chemical sensor design for monitoring biological fluids. <i>Sensors and Actuators B: Chemical</i> , 2015, 211, 403-418.	7.8	249
8	Organic electrochemical transistor incorporating an ionogel as a solid state electrolyte for lactate sensing. <i>Journal of Materials Chemistry</i> , 2012, 22, 4440.	6.7	248
9	Chloride Selective Calix[4]arene Optical Sensor Combining Urea Functionality with Pyrene Excimer Transduction. <i>Journal of the American Chemical Society</i> , 2006, 128, 8607-8614.	13.7	241
10	Wireless Sensor Networks and Chemo-/Biosensing. <i>Chemical Reviews</i> , 2008, 108, 652-679.	47.7	233
11	Calixarene-based sensing agents. <i>Chemical Society Reviews</i> , 1996, 25, 15.	38.1	230
12	Screen-printed electrodes for environmental monitoring of heavy metal ions: a review. <i>Mikrochimica Acta</i> , 2016, 183, 503-517.	5.0	227
13	A wearable electrochemical sensor for the real-time measurement of sweat sodium concentration. <i>Analytical Methods</i> , 2010, 2, 342.	2.7	226
14	Comparison of soil pollution concentrations determined using AAS and portable XRF techniques. <i>Journal of Hazardous Materials</i> , 2009, 171, 1168-1171.	12.4	207
15	Smart Nanotextiles: A Review of Materials and Applications. <i>MRS Bulletin</i> , 2007, 32, 434-442.	3.5	195
16	Bio-sensing textile based patch with integrated optical detection system for sweat monitoring. <i>Sensors and Actuators B: Chemical</i> , 2009, 139, 231-236.	7.8	189
17	Humidity sensors based on polyaniline nanofibres. <i>Sensors and Actuators B: Chemical</i> , 2010, 143, 530-534.	7.8	179
18	Real-time sweat pH monitoring based on a wearable chemical barcode micro-fluidic platform incorporating ionic liquids. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 1327-1334.	7.8	174

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19	Chemo/bio-sensor networks. <i>Nature Materials</i> , 2006, 5, 421-424.	27.5	170
20	Peer Reviewed: Calixarenes: Designer Ligands for Chemical Sensors. <i>Analytical Chemistry</i> , 2001, 73, 22 A-29 A.	6.5	164
21	Determination and application of ion-selective electrode model parameters using flow injection and simplex optimization. <i>Analyst, The</i> , 1994, 119, 749.	3.5	155
22	Absorbance Based Light Emitting Diode Optical Sensors and Sensing Devices. <i>Sensors</i> , 2008, 8, 2453-2479.	3.8	152
23	Development of a biosensor for endocrine disrupting compounds based on tyrosinase entrapped within a poly(thionine) film. <i>Biosensors and Bioelectronics</i> , 2004, 20, 367-377.	10.1	144
24	Molecular Design of Light-Responsive Hydrogels, For in Situ Generation of Fast and Reversible Valves for Microfluidic Applications. <i>Chemistry of Materials</i> , 2015, 27, 5925-5931.	6.7	141
25	Development and Application of Surface Plasmon Resonance-Based Biosensors for the Detection of Cellâ€™Ligand Interactions. <i>Analytical Biochemistry</i> , 2000, 281, 135-143.	2.4	140
26	Sodium-selective polymeric membrane electrodes based on calix[4]arene ionophores. <i>Analyst, The</i> , 1989, 114, 1551.	3.5	130
27	Inherently conducting polymer modified polyurethane smart foam for pressure sensing. <i>Sensors and Actuators A: Physical</i> , 2005, 119, 398-404.	4.1	129
28	A wearable patch for continuous monitoring of sweat electrolytes during exertion. <i>Lab on A Chip</i> , 2018, 18, 2632-2641.	6.0	122
29	â€™SWEATCHâ€™: A Wearable Platform for Harvesting and Analysing Sweat Sodium Content. <i>Electroanalysis</i> , 2016, 28, 1283-1289.	2.9	117
30	Electrodeposition and pseudocapacitive properties of tungsten oxide/polyaniline composite. <i>Journal of Power Sources</i> , 2011, 196, 4842-4848.	7.8	115
31	Ion sensors: current limits and new trends. <i>Analytica Chimica Acta</i> , 1999, 393, 11-18.	5.4	114
32	Advances in three-dimensional rapid prototyping of microfluidic devices for biological applications. <i>Biomicrofluidics</i> , 2014, 8, 052112.	2.4	114
33	Design and development of a miniaturised total chemical analysis system for on-line lactate and glucose monitoring in biological samples. <i>Analytica Chimica Acta</i> , 1997, 346, 341-349.	5.4	110
34	Electrochemical transistors with ionic liquids for enzymatic sensing. <i>Chemical Communications</i> , 2010, 46, 7972.	4.1	110
35	Lead-Selective Electrodes Based on Calixarene Phosphine Oxide Derivatives. <i>Analytical Chemistry</i> , 1999, 71, 5544-5550.	6.5	108
36	Spiropyran based hydrogels actuatorsâ€™Walking in the light. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 608-616.	7.8	105

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37	Opportunities and challenges of using ion-selective electrodes in environmental monitoring and wearable sensors. <i>Electrochimica Acta</i> , 2012, 84, 29-34.	5.2	104
38	Caesium-selective poly(vinyl chloride) membrane electrodes based on calix[6]arene esters. <i>Analyst</i> , 1990, 115, 1207.	3.5	103
39	Photo-responsive Polymeric Structures Based on Spiropyran. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 1148-1159.	3.6	102
40	Concept and development of an autonomous wearable micro-fluidic platform for real time pH sweat analysis. <i>Sensors and Actuators B: Chemical</i> , 2012, 175, 263-270.	7.8	101
41	A Multiswitchable Poly(terthiophene) Bearing a Spiropyran Functionality: Understanding Photo- and Electrochemical Control. <i>Journal of the American Chemical Society</i> , 2011, 133, 5453-5462.	13.7	96
42	Ionogel-based light-actuated valves for controlling liquid flow in micro-fluidic manifolds. <i>Lab on A Chip</i> , 2010, 10, 195-201.	6.0	94
43	Optically addressable single-use microfluidic valves by laser printer lithography. <i>Lab on A Chip</i> , 2010, 10, 2680.	6.0	93
44	Determination of the Enantiomeric Composition of Chiral Amines Based on the Quenching of the Fluorescence of a Chiral Calixarene. <i>Analytical Chemistry</i> , 1996, 68, 3775-3782.	6.5	91
45	Direct Laser Writing of Four-Dimensional Structural Color Microactuators Using a Photonic Photoresist. <i>ACS Nano</i> , 2020, 14, 9832-9839.	14.6	89
46	In-situ One-step Electrochemical Preparation of Graphene Oxide Nanosheet-modified Electrodes for Biosensors. <i>ChemSusChem</i> , 2011, 4, 1587-1591.	6.8	83
47	Self-protonating spiropyran-co-NIPAM-co-acrylic acid hydrogel photoactuators. <i>Soft Matter</i> , 2013, 9, 8754.	2.7	83
48	Chemical sensing using an integrated microfluidic system based on the Berthelot reaction. <i>Sensors and Actuators B: Chemical</i> , 2001, 76, 235-243.	7.8	81
49	Development of miniature all-solid-state potentiometric sensing system. <i>Sensors and Actuators B: Chemical</i> , 2010, 146, 199-205.	7.8	80
50	Fast prototyping of paper-based microfluidic devices by contact stamping using indelible ink. <i>RSC Advances</i> , 2013, 3, 18811.	3.6	80
51	An Electrochromic Ionic Liquid: Design, Characterization, and Performance in a Solid-State Platform. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 55-62.	8.0	80
52	Peer Reviewed: Internet-Scale Sensing. <i>Analytical Chemistry</i> , 2004, 76, 278 A-286 A.	6.5	79
53	The increasing importance of carbon nanotubes and nanostructured conducting polymers in biosensors. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1575-1589.	3.7	79
54	A wearable sensor for the detection of sodium and potassium in human sweat during exercise. <i>Talanta</i> , 2020, 219, 121145.	5.5	79

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55	Photo-regenerable surface with potential for optical sensing. <i>Journal of Materials Chemistry</i> , 2006, 16, 1332.	6.7	77
56	Novel fused-LEDs devices as optical sensors for colorimetric analysis. <i>Talanta</i> , 2004, 63, 167-173.	5.5	76
57	Digital imaging as a detector for generic analytical measurements. <i>TrAC - Trends in Analytical Chemistry</i> , 2000, 19, 517-522.	11.4	75
58	Stimuli Responsive Ionogels for Sensing Applications—An Overview. <i>Membranes</i> , 2012, 2, 16-39.	3.0	75
59	A low-cost autonomous optical sensor for water quality monitoring. <i>Talanta</i> , 2015, 132, 520-527.	5.5	75
60	A low-cost optical sensing device based on paired emitter—detector light emitting diodes. <i>Analytica Chimica Acta</i> , 2006, 557, 111-116.	5.4	74
61	Spiropyran-based reversible, light-modulated sensing with reduced photofatigue. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009, 206, 109-115.	3.9	74
62	Guidelines for Improving the Lower Detection Limit of Ion-Selective Electrodes: A Systematic Approach. <i>Electroanalysis</i> , 2007, 19, 144-154.	2.9	73
63	Nonlinear calibration of ion-selective electrode arrays for flow injection analysis. <i>Analytical Chemistry</i> , 1992, 64, 1721-1728.	6.5	68
64	Autonomous microfluidic system for phosphate detection. <i>Talanta</i> , 2007, 71, 1180-1185.	5.5	66
65	Spiropyran Polymeric Microcapillary Coatings for Photodetection of Solvent Polarity. <i>Langmuir</i> , 2013, 29, 2790-2797.	3.5	66
66	Evaluation of miniaturised solid state reference electrodes on a silicon based component. <i>Sensors and Actuators B: Chemical</i> , 1997, 44, 389-396.	7.8	65
67	The determination of phosphorus in a microfluidic manifold demonstrating long-term reagent lifetime and chemical stability utilising a colorimetric method. <i>Sensors and Actuators B: Chemical</i> , 2003, 90, 170-174.	7.8	64
68	Photo—Chemopropulsion — Light—Stimulated Movement of Microdroplets. <i>Advanced Materials</i> , 2014, 26, 7339-7345.	21.0	64
69	Photoswitchable Ratchet Surface Topographies Based on Self-Protonating Spiropyran—NIPAAm Hydrogels. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 7268-7274.	8.0	64
70	Light-responsive polymers for microfluidic applications. <i>Lab on A Chip</i> , 2018, 18, 699-709.	6.0	64
71	Dual contactless conductivity and amperometric detection on hybrid PDMS/glass electrophoresis microchips. <i>The Analyst</i> , 2010, 135, 96-103.	3.5	63
72	An integrated sensing and wireless communications platform for sensing sodium in sweat. <i>Analytical Methods</i> , 2016, 8, 64-71.	2.7	61

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73	Modeling of potentiometric electrode arrays for multicomponent analysis. <i>Analytical Chemistry</i> , 1991, 63, 876-882.	6.5	60
74	Tuning and Enhancing Enantioselective Quenching of Calixarene Hosts by Chiral Guest Amines. <i>Analytical Chemistry</i> , 2002, 74, 59-66.	6.5	60
75	Monitoring of headspace total volatile basic nitrogen from selected fish species using reflectance spectroscopic measurements of pH sensitive films. <i>Analyst, The</i> , 2002, 127, 1338-1341.	3.5	60
76	Determination of phosphate using a highly sensitive paired emitter-detector diode photometric flow detector. <i>Analytica Chimica Acta</i> , 2007, 597, 290-294.	5.4	60
77	Electrochemical synthesis of WO <sub>3</sub> /PANI composite for electrocatalytic reduction of iodate. <i>Electrochimica Acta</i> , 2010, 55, 3915-3920.	5.2	60
78	Fully automated, low-cost ion chromatography system for in-situ analysis of nitrite and nitrate in natural waters. <i>Talanta</i> , 2020, 216, 120955.	5.5	60
79	Chiral resolution of the enantiomers of phenylglycinol using (S)-di-naphthylprolinol calix[4]arene by capillary electrophoresis and fluorescence spectroscopy. <i>Analytical Communications</i> , 1998, 35, 123-125.	2.2	59
80	Photometric detection in flow analysis systems using integrated PEDDs. <i>Talanta</i> , 2005, 66, 1340-1344.	5.5	59
81	pH-controlled morphological structure of polyaniline during electrochemical deposition. <i>Electrochimica Acta</i> , 2009, 54, 6172-6177.	5.2	59
82	Integration of analytical measurements and wireless communications—Current issues and future strategies. <i>Talanta</i> , 2008, 75, 606-612.	5.5	58
83	Monitoring chemical plumes in an environmental sensing chamber with a wireless chemical sensor network. <i>Sensors and Actuators B: Chemical</i> , 2007, 121, 142-149.	7.8	57
84	Optical sensing system based on wireless paired emitter detector diode device and ionogels for lab-on-a-disc water quality analysis. <i>Lab on A Chip</i> , 2012, 12, 5069.	6.0	57
85	A portable centrifugal analyser for liver function screening. <i>Biosensors and Bioelectronics</i> , 2014, 56, 352-358.	10.1	57
86	Fabrication of soft, stimulus-responsive structures with sub-micron resolution via two-photon polymerization of poly(ionic liquid)s. <i>Materials Today</i> , 2018, 21, 807-816.	14.2	57
87	Optical Sensor for Gaseous Ammonia With Tuneable Sensitivity. <i>Analyst, The</i> , 1997, 122, 803-806.	3.5	56
88	Modular microfluidic valve structures based on reversible thermoresponsive ionogel actuators. <i>Lab on A Chip</i> , 2014, 14, 3530-3538.	6.0	55
89	A potentiometric disposable sensor strip for measuring pH in saliva. <i>Electrochimica Acta</i> , 2014, 132, 292-296.	5.2	55
90	Solid-state ammonia sensor based on Berthelot's reaction. <i>Sensors and Actuators B: Chemical</i> , 2004, 98, 12-17.	7.8	54

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91	Polystyrene bead-based system for optical sensing using spiropyran photoswitches. <i>Journal of Materials Chemistry</i> , 2008, 18, 5063.	6.7	54
92	Textile-Based Wearable Sensors for Assisting Sports Performance. , 2009, , .		54
93	Monitoring of volatile bases in fish sample headspace using an acidochromic dye. <i>Food Chemistry</i> , 2000, 69, 97-103.	8.2	53
94	Towards autonomous environmental monitoring systems. <i>Talanta</i> , 2002, 56, 355-363.	5.5	53
95	Point-of-need diagnosis of cystic fibrosis using a potentiometric ion-selective electrode array. <i>Analyst</i> , The, 2000, 125, 2264-2267.	3.5	52
96	Portable integrated microfluidic analytical platform for the monitoring and detection of nitrite. <i>Talanta</i> , 2013, 116, 997-1004.	5.5	52
97	Improved nitrate sensing using ion selective electrodes based on urea-calixarene ionophores. <i>New Journal of Chemistry</i> , 2007, 31, 587-592.	2.8	51
98	Ionic Liquid-Based, Liquid-Junction-Free Reference Electrode. <i>Electroanalysis</i> , 2011, 23, 1881-1890.	2.9	51
99	Thermoresponsive poly(ionic liquid) hydrogels. <i>Chemical Communications</i> , 2013, 49, 10308.	4.1	51
100	Thermal reversion of spirooxazine in ionic liquids containing the [NTf <sub>2</sub> ] <sup>-</sup> anion. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 5608.	2.8	49
101	Dynamic pH mapping in microfluidic devices by integrating adaptive coatings based on polyaniline with colorimetric imaging techniques. <i>Lab on A Chip</i> , 2013, 13, 1079.	6.0	49
102	A Wearable Device for Monitoring Sweat Rates via Image Analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 1672-1680.	4.2	49
103	Challenges and opportunities in wearable technology for biochemical analysis in sweat. <i>Current Opinion in Electrochemistry</i> , 2017, 3, 46-50.	4.8	49
104	Moving Droplets in 3D Using Light. <i>Advanced Materials</i> , 2018, 30, e1801821.	21.0	49
105	Big data and machine learning for materials science. <i>Discover Materials</i> , 2021, 1, 12.	2.8	49
106	Performance characteristics of a polypyrrole modified polydimethylsiloxane (PDMS) membrane based microfluidic pump. <i>Sensors and Actuators A: Physical</i> , 2008, 148, 239-244.	4.1	46
107	Photo- and solvatochromic properties of nitrobenzospiropyran in ionic liquids containing the [NTf <sub>2</sub> ] <sup>-</sup> anion. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5919.	2.8	46
108	Disposable solid-contact ion-selective electrodes for environmental monitoring of lead with ppb limit-of-detection. <i>Electrochimica Acta</i> , 2012, 73, 93-97.	5.2	46

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109	Neural network based recognition of flow injection patterns. <i>Analyst, The</i> , 1993, 118, 347.	3.5	45
110	An Autonomous Microfluidic Sensor for Phosphate: On-Site Analysis of Treated Wastewater. <i>IEEE Sensors Journal</i> , 2008, 8, 508-515.	4.7	45
111	Synthesis and characterisation of spiropyran-polymer brushes in micro-capillaries: Towards an integrated optical sensor for continuous flow analysis. <i>Sensors and Actuators B: Chemical</i> , 2012, 175, 92-99.	7.8	45
112	Biomimetic, low power pumps based on soft actuators. <i>Sensors and Actuators A: Physical</i> , 2007, 135, 229-235.	4.1	44
113	Evaluation of Liquidâ€•and Solidâ€•Contact, Pb <sup>2+</sup> â€•Selective Polymerâ€•Membrane Electrodes for Soil Analysis. <i>Electroanalysis</i> , 2008, 20, 340-346.	2.9	44
114	Materials science and the sensor revolution. <i>Materials Today</i> , 2010, 13, 16-23.	14.2	44
115	The development of an autonomous sensing platform for the monitoring of ammonia in water using a simplified Berthelot method. <i>Analytical Methods</i> , 2014, 6, 7606-7614.	2.7	44
116	Diagnostic of functionality of polymer membrane â€• based ion selective electrodes by impedance spectroscopy. <i>Analytical Methods</i> , 2010, 2, 1490.	2.7	43
117	Ion selective electrodes in environmental analysis. <i>Journal of the Serbian Chemical Society</i> , 2013, 78, 1729-1761.	0.8	43
118	Quantitative colorimetric analysis of dye mixtures using an optical photometer based on LED array. <i>Sensors and Actuators B: Chemical</i> , 2006, 114, 819-825.	7.8	42
119	Wearable Platform for Realâ€•time Monitoring of Sodium in Sweat. <i>ChemPhysChem</i> , 2018, 19, 1531-1536.	2.1	42
120	Evaluation of a low cost wireless chemical sensor network for environmental monitoring. , 2008, , .		41
121	Calixarenes as active agents for chemical sensors. <i>Sensors and Actuators B: Chemical</i> , 1991, 4, 325-331.	7.8	40
122	LED switching of spiropyran-doped polymer films. <i>Journal of Materials Science</i> , 2006, 41, 5841-5844.	3.7	40
123	Photonic modulation of surface properties: a novel concept in chemical sensing. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 7238-7244.	2.8	40
124	Precision control of flow rate in microfluidic channels using photoresponsive soft polymer actuators. <i>Lab on A Chip</i> , 2017, 17, 2013-2021.	6.0	40
125	Robust estimation of selectivity coefficients using multivariate calibration of ion-selective electrode arrays. <i>Analytica Chimica Acta</i> , 1993, 276, 75-86.	5.4	39
126	Inkjet printed LED based pH chemical sensor for gas sensing. <i>Analytica Chimica Acta</i> , 2009, 652, 308-314.	5.4	39



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127	Photo-patternable hybrid ionogels for electrochromic applications. <i>Journal of Materials Chemistry</i> , 2011, 21, 8687.	6.7	39
128	Autonomous reagent-based microfluidic pH sensor platform. <i>Sensors and Actuators B: Chemical</i> , 2016, 225, 369-376.	7.8	39
129	Enantioselective molecular sensing of aromatic amines using tetra-(S)-di-2-naphthylprolinol calix[4]arene. <i>Analyst</i> , 2001, 126, 1063-1067.	3.5	38
130	Spiropyran modified micro-fluidic chip channels as photonically controlled self-indicating system for metal ion accumulation and release. <i>Sensors and Actuators B: Chemical</i> , 2009, 140, 295-303.	7.8	38
131	Characterisation and analytical potential of a photo-responsive polymeric material based on spiropyran. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1392-1398.	10.1	38
132	Swelling and shrinking behaviour of photoresponsive phosphonium-based ionogel microstructures. <i>Sensors and Actuators B: Chemical</i> , 2014, 194, 105-113.	7.8	38
133	Integrated 3D printed heaters for microfluidic applications: Ammonium analysis within environmental water. <i>Analytica Chimica Acta</i> , 2020, 1098, 94-101.	5.4	38
134	Sodium-selective electrodes based on triester monoacid derivatives of p-tert-butylcalix[4]arene. Comparison with tetraester calix[4]arene ionophores. <i>Analytica Chimica Acta</i> , 1996, 336, 1-12.	5.4	37
135	Pump Less Wearable Microfluidic Device for Real Time pH Sweat Monitoring. <i>Procedia Chemistry</i> , 2009, 1, 1103-1106.	0.7	37
136	CMAS: fully integrated portable centrifugal microfluidic analysis system for on-site colorimetric analysis. <i>RSC Advances</i> , 2013, 3, 15928.	3.6	37
137	Evaluation of a new solid-state reference electrode junction material for ion-selective electrodes. <i>Electroanalysis</i> , 1994, 6, 962-971.	2.9	36
138	An improved Na <sup>+</sup> -selective microelectrode for intracellular measurements in plant cells. <i>Journal of Experimental Botany</i> , 2001, 52, 1353-1359.	4.8	36
139	Low pressure ion chromatography with a low cost paired emitter-detector diode based detector for the determination of alkaline earth metals in water samples. <i>Analytica Chimica Acta</i> , 2006, 577, 32-37.	5.4	36
140	Trace-Level Determination of Cs <sup>+</sup> Using Membrane-Based Ion-Selective Electrodes. <i>Electroanalysis</i> , 2006, 18, 1379-1388.	2.9	36
141	Novel chromogenic ligands for lithium and sodium based on calix[4]arene tetraesters. <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 1287.	2.0	35
142	Development of a low cost microfluidic sensor for the direct determination of nitrate using chromotropic acid in natural waters. <i>Analytical Methods</i> , 2015, 7, 5396-5405.	2.7	35
143	Ionic liquid modulation of swelling and LCST behavior of N-isopropylacrylamide polymer gels. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3610.	2.8	33
144	Tuning microfluidic flow by pulsed light oscillating spiropyran-based polymer hydrogel valves. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 81-86.	7.8	33

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145	Calixarene-based sensing agents. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1994, 19, 149-166.	1.6	32
146	Assessment of a chromogenic calix[4]arene for the rapid colorimetric detection of trimethylamine. <i>Journal of Materials Chemistry</i> , 1994, 4, 217.	6.7	32
147	Ion-selective optode membranes using 9-(4-diethylamino-2-octadecanoatestyryl)-acridine acidochromic dye. <i>Analytica Chimica Acta</i> , 1999, 398, 1-11.	5.4	32
148	Separation of transition metals on a poly-iminodiacetic acid grafted polymeric resin column with post-column reaction detection utilising a paired emitter-detector diode system. <i>Journal of Chromatography A</i> , 2008, 1213, 31-36.	3.7	32
149	Synthesis and characterisation of controllably functionalised polyaniline nanofibres. <i>Synthetic Metals</i> , 2009, 159, 741-748.	3.9	32
150	Investigating Nanostructuring within Imidazolium Ionic Liquids: A Thermodynamic Study Using Photochromic Molecular Probes. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15589-15596.	2.6	32
151	Textile sensors to measure sweat pH and sweat-rate during exercise. , 2009, , .		32
152	Novel integrated paired emitter-detector diode (PEDD) as a miniaturized photometric detector in HPLC. <i>Analyst</i> , The, 2006, 131, 938.	3.5	31
153	Controlled Transport of Droplets Using Conducting Polymers. <i>Langmuir</i> , 2009, 25, 11137-11141.	3.5	31
154	Self-propelled chemotactic ionic liquid droplets. <i>Chemical Communications</i> , 2015, 51, 2342-2344.	4.1	31
155	Porous self-protonating spiropyran-based NIPAAm gels with improved reswelling kinetics. <i>Journal of Materials Science</i> , 2016, 51, 1392-1399.	3.7	31
156	Water based-ionic liquid carbon dioxide sensor for applications in the food industry. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 302-309.	7.8	31
157	Low cost 235 nm ultra-violet light-emitting diode-based absorbance detector for application in a portable ion chromatography system for nitrite and nitrate monitoring. <i>Journal of Chromatography A</i> , 2019, 1603, 8-14.	3.7	31
158	Electrochemical codeposition of nickel oxide and polyaniline. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 1-7.	2.5	30
159	Progress in sensor array research. <i>Electroanalysis</i> , 1993, 5, 795-802.	2.9	29
160	A novel calix[4]arene tetraester with fluorescent response to complexation with alkali metal cations. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, , 480-483.	2.0	29
161	Electrochemically-induced fluid movement using polypyrrole. <i>Synthetic Metals</i> , 2005, 151, 60-64.	3.9	29
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