

# Ian D Mckelvie

## List of Publications by Year in Descending Order

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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.

98  
papers

4,137  
citations

34  
h-index

62  
g-index

108  
ext. papers

4,572  
ext. citations

6  
avg, IF

5.42  
L-index

#	Paper	IF	Citations
98	Monitoring of ammonia in marine waters using a passive sampler with biofouling resistance and neural network-based calibration. <i>Environmental Pollution</i> , <b>2020</b> , 267, 115457	9.3	3
97	Development of a micro-distillation microfluidic paper-based analytical device as a screening tool for total ammonia monitoring in freshwaters. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1079, 120-128	6.6	20
96	Advances in marine analytical chemistry. <i>Talanta</i> , <b>2019</b> , 202, 610	6.2	4
95	Gas-diffusion-based passive sampler for ammonia monitoring in marine waters. <i>Talanta</i> , <b>2018</b> , 181, 52-56	6.2	11
94	Developments of microfluidic paper-based analytical devices (PADs) for water analysis: A review. <i>Talanta</i> , <b>2018</b> , 177, 176-190	6.2	145
93	Determination of trace levels of ammonia in marine waters using a simple environmentally-friendly ammonia (SEA) analyser. <i>Marine Chemistry</i> , <b>2017</b> , 194, 133-145	3.7	14
92	Colorimetric detection based on localised surface plasmon resonance of gold nanoparticles: Merits, inherent shortcomings and future prospects. <i>Talanta</i> , <b>2016</b> , 152, 410-22	6.2	66
91	Determination of phosphorus in natural waters: A historical review. <i>Analytica Chimica Acta</i> , <b>2016</b> , 918, 8-20	6.6	100
90	Applications of everyday IT and communications devices in modern analytical chemistry: A review. <i>Talanta</i> , <b>2015</b> , 136, 84-94	6.2	74
89	Development of a gas-diffusion microfluidic paper-based analytical device (PAD) for the determination of ammonia in wastewater samples. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 4621-6	7.8	71
88	The nature of the salt error in the Sn(II)-reduced molybdenum blue reaction for determination of dissolved reactive phosphorus in saline waters. <i>Analytica Chimica Acta</i> , <b>2015</b> , 896, 120-7	6.6	6
87	The molybdenum blue reaction for the determination of orthophosphate revisited: Opening the black box. <i>Analytica Chimica Acta</i> , <b>2015</b> , 890, 60-82	6.6	172
86	The use of on-line UV photoreduction in the flow analysis determination of dissolved reactive phosphate in natural waters. <i>Talanta</i> , <b>2015</b> , 133, 155-61	6.2	14
85	Microfluidic paper-based analytical device for the determination of nitrite and nitrate. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 7274-9	7.8	137
84	Analytical challenges and advantages of using flow-based methodologies for ammonia determination in estuarine and marine waters. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2014</b> , 59, 83-92	14.6	54
83	Evaluation and application of a paper-based device for the determination of reactive phosphate in soil solution. <i>Journal of Environmental Quality</i> , <b>2014</b> , 43, 1081-5	3.4	26
82	Temporal variability in nutrient concentrations and loads in the River Tamar and its catchment (SW England) between 1974 and 2004. <i>Environmental Monitoring and Assessment</i> , <b>2013</b> , 185, 4791-818	3.1	10

81	Flow injection analysis as a tool for enhancing oceanographic nutrient measurements--a review. <i>Analytica Chimica Acta</i> , <b>2013</b> , 803, 15-40	6.6	76
80	The use of a polymer inclusion membrane for separation and preconcentration of orthophosphate in flow analysis. <i>Analytica Chimica Acta</i> , <b>2013</b> , 803, 82-90	6.6	38
79	Application of Electrospun Gas Diffusion Nanofibre-membranes in the Determination of Dissolved Carbon Dioxide. <i>Macromolecular Materials and Engineering</i> , <b>2013</b> , 298, 590-596	3.9	8
78	A paper-based device for measurement of reactive phosphate in water. <i>Talanta</i> , <b>2012</b> , 100, 454-60	6.2	58
77	Underway determination of dissolved inorganic carbon in estuarine waters by gas-diffusion flow analysis with C4D detection. <i>Analytical Methods</i> , <b>2012</b> , 4, 1278	3.2	13
76	The role of alkalinity generation in controlling the fluxes of CO <sub>2</sub> during exposure and inundation on tidal flats. <i>Biogeosciences</i> , <b>2012</b> , 9, 4087-4097	4.6	13
75	More with less: Advances in flow and paper-based monitoring of nutrients in aquatic systems. <i>Pure and Applied Chemistry</i> , <b>2012</b> , 84, 1973-1982	2.1	5
74	Flow analysis methods for the direct ultra-violet spectrophotometric measurement of nitrate and total nitrogen in freshwaters. <i>Analytica Chimica Acta</i> , <b>2011</b> , 704, 116-22	6.6	28
73	Field measurement of nitrate in marine and estuarine waters with a flow analysis system utilizing on-line zinc reduction. <i>Talanta</i> , <b>2011</b> , 84, 98-103	6.2	47
72	How did flow injection analysis, and its related techniques, develop in various parts of the globe? Reflections of prominent FIA practitioners. <i>Talanta</i> , <b>2011</b> , 84, 1200-4	6.2	2
71	Gold, an alternative to platinum group metals in automobile catalytic converters. <i>Gold Bulletin</i> , <b>2011</b> , 44, 145-153	1.6	35
70	Spectrophotometric determination of iodate in iodised salt by flow injection analysis. <i>Food Chemistry</i> , <b>2011</b> , 129, 704-707	8.5	23
69	Development of a gas diffusion probe for the rapid measurement of pCO <sub>2</sub> in aquatic samples. <i>Analytica Chimica Acta</i> , <b>2011</b> , 691, 1-5	6.6	6
68	Development of a flow method for the determination of phosphate in estuarine and freshwaters--comparison of flow cells in spectrophotometric sequential injection analysis. <i>Analytica Chimica Acta</i> , <b>2011</b> , 701, 15-22	6.6	29
67	Sedimentary pools of phosphorus in the eutrophic Tamar estuary (SW England). <i>Journal of Environmental Monitoring</i> , <b>2010</b> , 12, 296-304		9
66	The case for the use of unrefined natural reagents in analytical chemistry--a green chemical perspective. <i>Analytical Methods</i> , <b>2010</b> , 2, 1651	3.2	33
65	A compact portable flow analysis system for the rapid determination of total phosphorus in estuarine and marine waters. <i>Analytica Chimica Acta</i> , <b>2010</b> , 674, 117-22	6.6	31
64	Dissolved organic phosphorus speciation in the waters of the Tamar estuary (SW England). <i>Geochimica Et Cosmochimica Acta</i> , <b>2009</b> , 73, 1027-1038	5.5	74

63	A versatile total internal reflection photometric detection cell for flow analysis. <i>Talanta</i> , <b>2009</b> , 79, 830-56.2	20
62	Principles of Flow Injection Analysis. <i>Comprehensive Analytical Chemistry</i> , <b>2008</b> , 81-109	1.9 6
61	Underway determination of alkalinity in estuarine waters by reagent-injection gas-diffusion flow analysis. <i>Talanta</i> , <b>2008</b> , 77, 533-540	6.2 10
60	Photometry. <i>Comprehensive Analytical Chemistry</i> , <b>2008</b> , 54, 311-342	1.9 5
59	Combined gel probes for the in situ determination of dissolved reactive phosphorus in porewaters and characterization of sediment reactivity. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 5112-7	10.3 70
58	Enzymatic flow-injection determination of phytase-hydrolysable phosphorus (PHP) in natural waters using immobilized 3-phytase. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2008</b> , 88, 91-101	1.8 6
57	Environmental Applications: Waters, Sediments and Soils. <i>Comprehensive Analytical Chemistry</i> , <b>2008</b> , 54, 685-760	1.9 2
56	Characterisation and quantification of organic phosphorus and organic nitrogen components in aquatic systems: a review. <i>Analytica Chimica Acta</i> , <b>2008</b> , 624, 37-58	6.6 126
55	A protocol to assess the enzymatic release of dissolved organic phosphorus species in waters under environmentally relevant conditions. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 7479-85	10.3 53
54	Sensitive and ultra-fast determination of arsenic(III) by gas-diffusion flow injection analysis with chemiluminescence detection. <i>Analytica Chimica Acta</i> , <b>2007</b> , 583, 72-7	6.6 28
53	Phosphorus speciation, burial and regeneration in coastal lagoon sediments of the Gippsland Lakes (Victoria, Australia). <i>Environmental Chemistry</i> , <b>2007</b> , 4, 334	3.2 17
52	Pervaporation-flow injection with chemiluminescence detection for determination of iodide in multivitamin tablets. <i>Talanta</i> , <b>2007</b> , 72, 626-33	6.2 31
51	Flow Analysis Techniques for Spatial and Temporal Measurement of Nutrients in Aquatic Systems. <i>Environmental Chemistry</i> , <b>2006</b> , 3, 3	3.2 46
50	Spectrophotometric Determination of Ammonia in Estuarine Waters by Hybrid Reagent-Injection Gas-Diffusion Flow Analysis. <i>Spectroscopy Letters</i> , <b>2006</b> , 39, 737-753	1.1 30
49	On-line Removal of Sulfide Interference in Phosphate Determination by Flow Injection Analysis. <i>Environmental Chemistry</i> , <b>2006</b> , 3, 19	3.2 10
48	Determination of iodide by detection of iodine using gas-diffusion flow injection and chemiluminescence. <i>Talanta</i> , <b>2005</b> , 65, 756-61	6.2 27
47	Sampling, sample treatment and quality assurance issues for the determination of phosphorus species in natural waters and soils. <i>Talanta</i> , <b>2005</b> , 66, 273-93	6.2 131
46	An enzymatic flow analysis method for the determination of phosphatidylcholine in sediment pore waters and extracts. <i>Talanta</i> , <b>2005</b> , 66, 445-52	6.2 22

45	Determination of dissolved reactive phosphorus (DRP) and dissolved organic phosphorus (DOP) in natural waters by the use of rapid sequenced reagent injection flow analysis. <i>Talanta</i> , <b>2005</b> , 66, 453-60	6.2	19
44	Evaluation of on-line preconcentration and flow-injection amperometry for phosphate determination in fresh and marine waters. <i>Talanta</i> , <b>2005</b> , 66, 461-6	6.2	45
43	Determination of dissolved inorganic carbon (DIC) and dissolved organic carbon (DOC) in freshwaters by sequential injection spectrophotometry with on-line UV photo-oxidation. <i>Analytica Chimica Acta</i> , <b>2005</b> , 554, 17-24	6.6	31
42	Rapid underway profiling of water quality in Queensland estuaries. <i>Marine Pollution Bulletin</i> , <b>2005</b> , 51, 113-8	6.7	12
41	Seawater induced release and transformation of organic and inorganic phosphorus from river sediments. <i>Water Research</i> , <b>2004</b> , 38, 688-92	12.5	69
40	Determination of carbon dioxide in gaseous samples by gas diffusion-flow injection. <i>Talanta</i> , <b>2004</b> , 62, 631-6	6.2	23
39	Potential contribution of lysed bacterial cells to phosphorus solubilisation in two rewetted Australian pasture soils. <i>Soil Biology and Biochemistry</i> , <b>2003</b> , 35, 187-189	7.5	124
38	Pervaporation-flow injection analysis of phenol after on-line derivatisation to phenyl acetate. <i>Analytica Chimica Acta</i> , <b>2003</b> , 485, 37-42	6.6	6
37	Multi-reflection photometric flow cell for use in flow injection analysis of estuarine waters. <i>Analytica Chimica Acta</i> , <b>2003</b> , 499, 81-89	6.6	52
36	A Novel Technique for the Pre-Concentration and Extraction of Inositol Hexakisphosphate from Soil Extracts with Determination by Phosphorus-31 Nuclear Magnetic Resonance. <i>Journal of Environmental Quality</i> , <b>2002</b> , 31, 466-470	3.4	9
35	Inositol phosphates in the environment. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2002</b> , 357, 449-69	5.8	508
34	Characterisation of water-extractable soil organic phosphorus by phosphatase hydrolysis. <i>Soil Biology and Biochemistry</i> , <b>2002</b> , 34, 27-35	7.5	193
33	A reverse-flow injection analysis method for the determination of dissolved oxygen in fresh and marine waters. <i>Talanta</i> , <b>2002</b> , 58, 1285-91	6.2	8
32	A compact flow injection analysis system for surface mapping of phosphate in marine waters. <i>Talanta</i> , <b>2002</b> , 58, 1043-53	6.2	48
31	Gravitational field-flow fractionation in combination with flow injection analysis or electrothermal AAS for size based iron speciation of particles. <i>Talanta</i> , <b>2002</b> , 58, 1375-83	6.2	23
30	A novel technique for the pre-concentration and extraction of inositol hexakisphosphate from soil extracts with determination by phosphorus-31 nuclear magnetic resonance. <i>Journal of Environmental Quality</i> , <b>2002</b> , 31, 466-70	3.4	1
29	Hydrolysis of triphosphate from detergents in a rural waste water system. <i>Water Research</i> , <b>2001</b> , 35, 448-54	12.5	22
28	Sampling design for total and filterable reactive phosphorus monitoring in a lowland stream: considerations of spatial variability, measurement uncertainty and statistical power. <i>Journal of Environmental Monitoring</i> , <b>2001</b> , 3, 463-8		6

27	Determination of hydrogen peroxide in natural waters by stopped-flow injection analysis with chemiluminescence detection. <i>Laboratory Robotics and Automation</i> , <b>2000</b> , 12, 149-156		11
26	Determination of Dissolved Reactive Phosphorus in Estuarine Waters Using a Reversed Flow Injection Manifold. <i>Analyst, The</i> , <b>1997</b> , 122, 1477-1480	5	20
25	Influence of Natural Organic Matter on the Sorption of Biocides onto Goethite, I. BHC and Atrazine. <i>Environmental Technology (United Kingdom)</i> , <b>1997</b> , 18, 769-779	2.6	5
24	Rapid determination of dissolved organic phosphorus in soil leachates and runoff waters by flow injection analysis with on-line photo-oxidation. <i>Talanta</i> , <b>1997</b> , 45, 47-55	6.2	23
23	Influence of Natural Organic Matter on the Sorption of Biocides onto Goethite, II. Glyphosate. <i>Environmental Technology (United Kingdom)</i> , <b>1997</b> , 18, 781-794	2.6	25
22	Elimination of the Schlieren effect in the determination of reactive phosphorus in estuarine waters by flow-injection analysis. <i>Analytica Chimica Acta</i> , <b>1997</b> , 351, 265-271	6.6	48
21	Monitoring of dissolved reactive phosphorus in wastewaters by flow injection analysis. Part 1. Method development and validation. <i>Water Research</i> , <b>1996</b> , 30, 1959-1964	12.5	11
20	Monitoring of dissolved reactive phosphorus in wastewaters by flow injection analysis. Part 2. On-line monitoring system. <i>Water Research</i> , <b>1996</b> , 30, 1965-1971	12.5	9
19	Separation and detection of condensed phosphates in waste waters by ion chromatography coupled with flow injection. <i>Analyst, The</i> , <b>1996</b> , 121, 1089	5	20
18	Determination of total phosphorus in waters and wastewaters by on-line UV/thermal induced digestion and flow injection analysis. <i>Analytica Chimica Acta</i> , <b>1996</b> , 326, 29-39	6.6	49
17	Analytical perspective. Techniques for the quantification and speciation of phosphorus in natural waters. <i>Analytical Proceedings</i> , <b>1995</b> , 32, 437		74
16	Use of immobilized 3-phytase and flow injection for the determination of phosphorus species in natural waters. <i>Analytica Chimica Acta</i> , <b>1995</b> , 316, 277-289	6.6	29
15	Determination of carbon, phosphorus, nitrogen and silicon species in waters. <i>Analytica Chimica Acta</i> , <b>1994</b> , 287, 147-190	6.6	105
14	Analysis of total dissolved nitrogen in natural waters by on-line photooxidation and flow injection. <i>Analytica Chimica Acta</i> , <b>1994</b> , 293, 155-162	6.6	26
13	Determination of total phosphorus in waters and wastewaters by on-line microwave-induced digestion and flow-injection analysis. <i>Analytica Chimica Acta</i> , <b>1994</b> , 291, 233-242	6.6	32
12	Adsorption of natural organic matter onto goethite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>1994</b> , 89, 1-13	5.1	84
11	Determination of alkaline phosphatase-hydrolyzable phosphorus in natural water systems by enzymatic flow injection. <i>Limnology and Oceanography</i> , <b>1994</b> , 39, 1993-2000	4.8	39
10	Characterization of immobilized Escherichia coli alkaline phosphatase reactors in flow injection analysis. <i>Analytical Chemistry</i> , <b>1993</b> , 65, 3053-60	7.8	30

9	Speciation of dissolved phosphorus in environmental samples by gel filtration and flow-injection analysis. <i>Talanta</i> , <b>1993</b> , 40, 1981-93	6.2	20
8	Dual flow-injection analysis system for determining bromide and reactive phosphorus in natural waters. <i>Analytica Chimica Acta</i> , <b>1993</b> , 282, 379-388	6.6	12
7	Real-time instrumentation for monitoring water quality: An Australian perspective. <i>TrAC - Trends in Analytical Chemistry</i> , <b>1993</b> , 12, 403-412	14.6	5
6	Whole-stream phosphorus release studies: variation in uptake length with initial phosphorus concentration. <i>Hydrobiologia</i> , <b>1992</b> , 235-236, 573-584	2.4	36
5	Sensitive flow-injection technique for the determination of dissolved organic carbon in natural and waste waters. <i>Analytica Chimica Acta</i> , <b>1992</b> , 261, 287-294	6.6	23
4	Whole-stream phosphorus release studies: variation in uptake length with initial phosphorus concentration <b>1992</b> , 573-584		2
3	Characterization of natural organic matter from four Victorian freshwater systems. <i>Marine and Freshwater Research</i> , <b>1991</b> , 42, 675	2.2	21
2	Flow-injection technique for the determination of low levels of phosphorus in natural waters. <i>Analytica Chimica Acta</i> , <b>1990</b> , 234, 409-416	6.6	33
1	Spectrophotometric determination of dissolved organic phosphorus in natural waters using in-line photo-oxidation and flow injection. <i>Analyst, The</i> , <b>1989</b> , 114, 1459	5	48