# Ian D Mckelvie

## List of Publications by Citations

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| 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 | Inositol phosphates in the environment. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2002**, 357, 449-69 | 5.8 | 508 |
| 97 | Characterisation of water-extractable soil organic phosphorus by phosphatase hydrolysis. *Soil Biology and Biochemistry*, **2002**, 34, 27-35 | 7.5 | 193 |
| 96 | The molybdenum blue reaction for the determination of orthophosphate revisited: Opening the black box. *Analytica Chimica Acta*, **2015**, 890, 60-82 | 6.6 | 172 |
| 95 | Developments of microfluidic paper-based analytical devices (ΜPADs) for water analysis: A review. *Talanta*, **2018**, 177, 176-190 | 6.2 | 145 |
| 94 | Microfluidic paper-based analytical device for the determination of nitrite and nitrate. *Analytical Chemistry*, **2014**, 86, 7274-9 | 7.8 | 137 |
| 93 | Sampling, sample treatment and quality assurance issues for the determination of phosphorus species in natural waters and soils. *Talanta*, **2005**, 66, 273-93 | 6.2 | 131 |
| 92 | Characterisation and quantification of organic phosphorus and organic nitrogen components in aquatic systems: a review. *Analytica Chimica Acta*, **2008**, 624, 37-58 | 6.6 | 126 |
| 91 | Potential contribution of lysed bacterial cells to phosphorus solubilisation in two rewetted Australian pasture soils. *Soil Biology and Biochemistry*, **2003**, 35, 187-189 | 7.5 | 124 |
| 90 | Determination of carbon, phosphorus, nitrogen and silicon species in waters. *Analytica Chimica Acta* , **1994**, 287, 147-190 | 6.6 | 105 |
| 89 | Determination of phosphorus in natural waters: A historical review. *Analytica Chimica Acta*, **2016**, 918, 8-20 | 6.6 | 100 |
| 88 | Adsorption of natural organic matter onto goethite. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1994**, 89, 1-13 | 5.1 | 84 |
| 87 | Flow injection analysis as a tool for enhancing oceanographic nutrient measurements--a review. *Analytica Chimica Acta*, **2013**, 803, 15-40 | 6.6 | 76 |
| 86 | Applications of everyday IT and communications devices in modern analytical chemistry: A review. *Talanta*, **2015**, 136, 84-94 | 6.2 | 74 |
| 85 | Dissolved organic phosphorus speciation in the waters of the Tamar estuary (SW England). *Geochimica Et Cosmochimica Acta*, **2009**, 73, 1027-1038 | 5.5 | 74 |
| 84 | Analytical perspective. Techniques for the quantification and speciation of phosphorus in natural waters. *Analytical Proceedings*, **1995**, 32, 437 | | 74 |
| 83 | Development of a gas-diffusion microfluidic paper-based analytical device (ΜPAD) for the determination of ammonia in wastewater samples. *Analytical Chemistry*, **2015**, 87, 4621-6 | 7.8 | 71 |
| 82 | Combined gel probes for the in situ determination of dissolved reactive phosphorus in porewaters and characterization of sediment reactivity. *Environmental Science & Technology*, **2008**, 42, 5112-7 | 10.3 | 70 |

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| 81 | Seawater induced release and transformation of organic and inorganic phosphorus from river sediments. *Water Research*, **2004**, 38, 688-92 | 12.5 | 69 |
| 80 | Colorimetric detection based on localised surface plasmon resonance of gold nanoparticles: Merits, inherent shortcomings and future prospects. *Talanta*, **2016**, 152, 410-22 | 6.2 | 66 |
| 79 | A paper-based device for measurement of reactive phosphate in water. *Talanta*, **2012**, 100, 454-60 | 6.2 | 58 |
| 78 | Analytical challenges and advantages of using flow-based methodologies for ammonia determination in estuarine and marine waters. *TrAC - Trends in Analytical Chemistry*, **2014**, 59, 83-92 | 14.6 | 54 |
| 77 | A protocol to assess the enzymatic release of dissolved organic phosphorus species in waters under environmentally relevant conditions. *Environmental Science & Technology*, **2007**, 41, 7479-85 | 10.3 | 53 |
| 76 | Multi-reflection photometric flow cell for use in flow injection analysis of estuarine waters. *Analytica Chimica Acta*, **2003**, 499, 81-89 | 6.6 | 52 |
| 75 | Determination of total phosphorus in waters and wastewaters by on-line UV/thermal induced digestion and flow injection analysis. *Analytica Chimica Acta*, **1996**, 326, 29-39 | 6.6 | 49 |
| 74 | Elimination of the Schlieren effect in the determination of reactive phosphorus in estuarine waters by flow-injection analysis. *Analytica Chimica Acta*, **1997**, 351, 265-271 | 6.6 | 48 |
| 73 | A compact flow injection analysis system for surface mapping of phosphate in marine waters. *Talanta*, **2002**, 58, 1043-53 | 6.2 | 48 |
| 72 | Spectrophotometric determination of dissolved organic phosphorus in natural waters using in-line photo-oxidation and flow injection. *Analyst, The*, **1989**, 114, 1459 | 5 | 48 |
| 71 | Field measurement of nitrate in marine and estuarine waters with a flow analysis system utilizing on-line zinc reduction. *Talanta*, **2011**, 84, 98-103 | 6.2 | 47 |
| 70 | Flow Analysis Techniques for Spatial and Temporal Measurement of Nutrients in Aquatic Systems. *Environmental Chemistry*, **2006**, 3, 3 | 3.2 | 46 |
| 69 | Evaluation of on-line preconcentration and flow-injection amperometry for phosphate determination in fresh and marine waters. *Talanta*, **2005**, 66, 461-6 | 6.2 | 45 |
| 68 | Determination of alkaline phosphatase-hydrolyzable phosphorus in natural water systems by enzymatic flow injection. *Limnology and Oceanography*, **1994**, 39, 1993-2000 | 4.8 | 39 |
| 67 | The use of a polymer inclusion membrane for separation and preconcentration of orthophosphate in flow analysis. *Analytica Chimica Acta*, **2013**, 803, 82-90 | 6.6 | 38 |
| 66 | Whole-stream phosphorus release studies: variation in uptake length with initial phosphorus concentration. *Hydrobiologia*, **1992**, 235-236, 573-584 | 2.4 | 36 |
| 65 | Gold, an alternative to platinum group metals in automobile catalytic converters. *Gold Bulletin*, **2011**, 44, 145-153 | 1.6 | 35 |
| 64 | The case for the use of unrefined natural reagents in analytical chemistry A green chemical perspective. *Analytical Methods*, **2010**, 2, 1651 | 3.2 | 33 |

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| 63 | Flow-injection technique for the determination of low levels of phosphorus in natural waters. *Analytica Chimica Acta*, **1990**, 234, 409-416 | 6.6 | 33 |
| 62 | Determination of total phosphorus in waters and wastewaters by on-line microwave-induced digestion and flow-injection analysis. *Analytica Chimica Acta*, **1994**, 291, 233-242 | 6.6 | 32 |
| 61 | A compact portable flow analysis system for the rapid determination of total phosphorus in estuarine and marine waters. *Analytica Chimica Acta*, **2010**, 674, 117-22 | 6.6 | 31 |
| 60 | Pervaporation-flow injection with chemiluminescence detection for determination of iodide in multivitamin tablets. *Talanta*, **2007**, 72, 626-33 | 6.2 | 31 |
| 59 | Determination of dissolved inorganic carbon (DIC) and dissolved organic carbon (DOC) in freshwaters by sequential injection spectrophotometry with on-line UV photo-oxidation. *Analytica Chimica Acta*, **2005**, 554, 17-24 | 6.6 | 31 |
| 58 | Spectrophotometric Determination of Ammonia in Estuarine Waters by Hybrid Reagent-Injection Gas-Diffusion Flow Analysis. *Spectroscopy Letters*, **2006**, 39, 737-753 | 1.1 | 30 |
| 57 | Characterization of immobilized Escherichia coli alkaline phosphatase reactors in flow injection analysis. *Analytical Chemistry*, **1993**, 65, 3053-60 | 7.8 | 30 |
| 56 | Development of a flow method for the determination of phosphate in estuarine and freshwaters--comparison of flow cells in spectrophotometric sequential injection analysis. *Analytica Chimica Acta*, **2011**, 701, 15-22 | 6.6 | 29 |
| 55 | Use of immobilized 3-phytase and flow injection for the determination of phosphorus species in natural waters. *Analytica Chimica Acta*, **1995**, 316, 277-289 | 6.6 | 29 |
| 54 | Flow analysis methods for the direct ultra-violet spectrophotometric measurement of nitrate and total nitrogen in freshwaters. *Analytica Chimica Acta*, **2011**, 704, 116-22 | 6.6 | 28 |
| 53 | Sensitive and ultra-fast determination of arsenic(III) by gas-diffusion flow injection analysis with chemiluminescence detection. *Analytica Chimica Acta*, **2007**, 583, 72-7 | 6.6 | 28 |
| 52 | Determination of iodide by detection of iodine using gas-diffusion flow injection and chemiluminescence. *Talanta*, **2005**, 65, 756-61 | 6.2 | 27 |
| 51 | Evaluation and application of a paper-based device for the determination of reactive phosphate in soil solution. *Journal of Environmental Quality*, **2014**, 43, 1081-5 | 3.4 | 26 |
| 50 | Analysis of total dissolved nitrogen in natural waters by on-line photooxidation and flow injection. *Analytica Chimica Acta*, **1994**, 293, 155-162 | 6.6 | 26 |
| 49 | Influence of Natural Organic Matter on the Sorption of Biocides onto Goethite, II. Glyphosate. *Environmental Technology (United Kingdom)*, **1997**, 18, 781-794 | 2.6 | 25 |
| 48 | Spectrophotometric determination of iodate in iodised salt by flow injection analysis. *Food Chemistry*, **2011**, 129, 704-707 | 8.5 | 23 |
| 47 | Rapid determination of dissolved organic phosphorus in soil leachates and runoff waters by flow injection analysis with on-line photo-oxidation. *Talanta*, **1997**, 45, 47-55 | 6.2 | 23 |
| 46 | Determination of carbon dioxide in gaseous samples by gas diffusion-flow injection. *Talanta*, **2004**, 62, 631-6 | 6.2 | 23 |

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| 45 | Gravitational field-flow fractionation in combination with flow injection analysis or electrothermal AAS for size based iron speciation of particles. *Talanta*, **2002**, 58, 1375-83 | 6.2 | 23 |
| 44 | Sensitive flow-injection technique for the determination of dissolved organic carbon in natural and waste waters. *Analytica Chimica Acta*, **1992**, 261, 287-294 | 6.6 | 23 |
| 43 | An enzymatic flow analysis method for the determination of phosphatidylcholine in sediment pore waters and extracts. *Talanta*, **2005**, 66, 445-52 | 6.2 | 22 |
| 42 | Hydrolysis of triphosphate from detergents in a rural waste water system. *Water Research*, **2001**, 35, 448-54 | 12.5 | 22 |
| 41 | Characterization of natural organic matter from four Victorian freshwater systems. *Marine and Freshwater Research*, **1991**, 42, 675 | 2.2 | 21 |
| 40 | Development of a micro-distillation microfluidic paper-based analytical device as a screening tool for total ammonia monitoring in freshwaters. *Analytica Chimica Acta*, **2019**, 1079, 120-128 | 6.6 | 20 |
| 39 | A versatile total internal reflection photometric detection cell for flow analysis. *Talanta*, **2009**, 79, 830-5 | 6.2 | 20 |
| 38 | Determination of Dissolved Reactive Phosphorus in Estuarine Waters Using a Reversed Flow Injection Manifold *Analyst, The*, **1997**, 122, 1477-1480 | 5 | 20 |
| 37 | Separation and detection of condensed phosphates in waste waters by ion chromatography coupled with flow injection. *Analyst, The*, **1996**, 121, 1089 | 5 | 20 |
| 36 | Speciation of dissolved phosphorus in environmental samples by gel filtration and flow-injection analysis. *Talanta*, **1993**, 40, 1981-93 | 6.2 | 20 |
| 35 | Determination of dissolved reactive phosphorus (DRP) and dissolved organic phosphorus (DOP) in natural waters by the use of rapid sequenced reagent injection flow analysis. *Talanta*, **2005**, 66, 453-60 | 6.2 | 19 |
| 34 | Phosphorus speciation, burial and regeneration in coastal lagoon sediments of the Gippsland Lakes (Victoria, Australia). *Environmental Chemistry*, **2007**, 4, 334 | 3.2 | 17 |
| 33 | The use of on-line UV photoreduction in the flow analysis determination of dissolved reactive phosphate in natural waters. *Talanta*, **2015**, 133, 155-61 | 6.2 | 14 |
| 32 | Determination of trace levels of ammonia in marine waters using a simple environmentally-friendly ammonia (SEA) analyser. *Marine Chemistry*, **2017**, 194, 133-145 | 3.7 | 14 |
| 31 | Underway determination of dissolved inorganic carbon in estuarine waters by gas-diffusion flow analysis with C4D detection. *Analytical Methods*, **2012**, 4, 1278 | 3.2 | 13 |
| 30 | The role of alkalinity generation in controlling the fluxes of CO<sub>2</sub> during exposure and inundation on tidal flats. *Biogeosciences*, **2012**, 9, 4087-4097 | 4.6 | 13 |
| 29 | Rapid underway profiling of water quality in Queensland estuaries. *Marine Pollution Bulletin*, **2005**, 51, 113-8 | 6.7 | 12 |
| 28 | Dual flow-injection analysis system for determining bromide and reactive phosphorus in natural waters. *Analytica Chimica Acta*, **1993**, 282, 379-388 | 6.6 | 12 |

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| 27 | Gas-diffusion-based passive sampler for ammonia monitoring in marine waters. *Talanta*, **2018**, 181, 52-56 | 6.2 | 11 |
| 26 | Determination of hydrogen peroxide in natural waters by stopped-flow injection analysis with chemiluminescence detection. *Laboratory Robotics and Automation*, **2000**, 12, 149-156 | | 11 |
| 25 | Monitoring of dissolved reactive phosphorus in wastewaters by flow injection analysis. Part 1. Method development and validation. *Water Research*, **1996**, 30, 1959-1964 | 12.5 | 11 |
| 24 | Temporal variability in nutrient concentrations and loads in the River Tamar and its catchment (SW England) between 1974 and 2004. *Environmental Monitoring and Assessment*, **2013**, 185, 4791-818 | 3.1 | 10 |
| 23 | Underway determination of alkalinity in estuarine waters by reagent-injection gas-diffusion flow analysis. *Talanta*, **2008**, 77, 533-540 | 6.2 | 10 |
| 22 | On-line Removal of Sulfide Interference in Phosphate Determination by Flow Injection Analysis. *Environmental Chemistry*, **2006**, 3, 19 | 3.2 | 10 |
| 21 | Sedimentary pools of phosphorus in the eutrophic Tamar estuary (SW England). *Journal of Environmental Monitoring*, **2010**, 12, 296-304 | | 9 |
| 20 | A Novel Technique for the Pre-Concentration and Extraction of Inositol Hexakisphosphate from Soil Extracts with Determination by Phosphorus-31 Nuclear Magnetic Resonance. *Journal of Environmental Quality*, **2002**, 31, 466-470 | 3.4 | 9 |
| 19 | Monitoring of dissolved reactive phosphorus in wastewaters by flow injection analysis. Part 2. On-line monitoring system. *Water Research*, **1996**, 30, 1965-1971 | 12.5 | 9 |
| 18 | Application of Electrospun Gas Diffusion Nanofibre-membranes in the Determination of Dissolved Carbon Dioxide. *Macromolecular Materials and Engineering*, **2013**, 298, 590-596 | 3.9 | 8 |
| 17 | A reverse-flow injection analysis method for the determination of dissolved oxygen in fresh and marine waters. *Talanta*, **2002**, 58, 1285-91 | 6.2 | 8 |
| 16 | The nature of the salt error in the Sn(II)-reduced molybdenum blue reaction for determination of dissolved reactive phosphorus in saline waters. *Analytica Chimica Acta*, **2015**, 896, 120-7 | 6.6 | 6 |
| 15 | Development of a gas diffusion probe for the rapid measurement of pCO2 in aquatic samples. *Analytica Chimica Acta*, **2011**, 691, 1-5 | 6.6 | 6 |
| 14 | Principles of Flow Injection Analysis. *Comprehensive Analytical Chemistry*, **2008**, 81-109 | 1.9 | 6 |
| 13 | Enzymatic flow-injection determination of phytase-hydrolysable phosphorus (PHP) in natural waters using immobilized 3-phytase. *International Journal of Environmental Analytical Chemistry*, **2008**, 88, 91-101 | 1.8 | 6 |
| 12 | Pervaporation-flow injection analysis of phenol after on-line derivatisation to phenyl acetate. *Analytica Chimica Acta*, **2003**, 485, 37-42 | 6.6 | 6 |
| 11 | Sampling design for total and filterable reactive phosphorus monitoring in a lowland stream: considerations of spatial variability, measurement uncertainty and statistical power. *Journal of Environmental Monitoring*, **2001**, 3, 463-8 | | 6 |
| 10 | More with less: Advances in flow and paper-based monitoring of nutrients in aquatic systems. *Pure and Applied Chemistry*, **2012**, 84, 1973-1982 | 2.1 | 5 |

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| 9 | Influence of Natural Organic Matter on the Sorption of Biocides onto Goethite, I. ΕBHC and Atrazine. *Environmental Technology (United Kingdom)*, **1997**, 18, 769-779 | 2.6 | 5 |
| 8 | Photometry. *Comprehensive Analytical Chemistry*, **2008**, 54, 311-342 | 1.9 | 5 |
| 7 | Real-time instrumentation for monitoring water quality: An Australian perspective. *TrAC - Trends in Analytical Chemistry*, **1993**, 12, 403-412 | 14.6 | 5 |
| 6 | Advances in marine analytical chemistry. *Talanta*, **2019**, 202, 610 | 6.2 | 4 |
| 5 | Monitoring of ammonia in marine waters using a passive sampler with biofouling resistance and neural network-based calibration. *Environmental Pollution*, **2020**, 267, 115457 | 9.3 | 3 |
| 4 | How did flow injection analysis, and its related techniques, develop in various parts of the globe? Reflections of prominent FIA practitioners. *Talanta*, **2011**, 84, 1200-4 | 6.2 | 2 |
| 3 | Environmental Applications: Waters, Sediments and Soils. *Comprehensive Analytical Chemistry*, **2008** , 54, 685-760 | 1.9 | 2 |
| 2 | Whole-stream phosphorus release studies: variation in uptake length with initial phosphorus concentration **1992**, 573-584 | | 2 |
| 1 | A novel technique for the pre-concentration and extraction of inositol hexakisphosphate from soil extracts with determination by phosphorus-31 nuclear magnetic resonance. *Journal of Environmental Quality*, **2002**, 31, 466-70 | 3.4 | 1 |