

Fiona Regan

List of Publications by Citations

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Version: 2024-04-28

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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.

80
papers

2,070
citations

26
h-index

43
g-index

86
ext. papers

2,434
ext. citations

4.9
avg, IF

5.19
L-index

#	Paper	IF	Citations
80	The use of nanoparticles in anti-microbial materials and their characterization. <i>Analyst, The</i> , 2008 , 133, 835-45	5	204
79	A review of analytical methods for the determination of aminoglycoside and macrolide residues in food matrices. <i>Analytica Chimica Acta</i> , 2008 , 624, 1-15	6.6	145
78	Predicting the performance of molecularly imprinted polymers: Selective extraction of caffeine by molecularly imprinted solid phase extraction. <i>Analytica Chimica Acta</i> , 2006 , 566, 60-68	6.6	123
77	Nanofunctionalized Superhydrophobic Antifouling Coatings for Environmental Sensor Applications Advancing Deployment with Answers from Nature. <i>Advanced Engineering Materials</i> , 2012 , 14, B175-B184	3.5	102
76	Antifouling strategies for marine and riverine sensors. <i>Journal of Environmental Monitoring</i> , 2006 , 8, 880-6		80
75	Investigation of the nature of MIP recognition: the development and characterisation of a MIP for Ibuprofen. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 1138-46	11.8	78
74	3D printed metal columns for capillary liquid chromatography. <i>Analyst, The</i> , 2014 , 139, 6343-7	5	76
73	Sensing of chlorinated hydrocarbons and pesticides in water using polymer coated mid-infrared optical fibres. <i>Analyst, The</i> , 1996 , 121, 789	5	60
72	Bioinspired synthetic macroalgae: Examples from nature for antifouling applications. <i>International Biodeterioration and Biodegradation</i> , 2014 , 86, 6-13	4.8	58
71	Determination of pesticides in water using ATR-FTIR spectroscopy on PVC/chloroparaffin coatings. <i>Analytica Chimica Acta</i> , 1996 , 334, 85-92	6.6	58
70	A low-cost autonomous optical sensor for water quality monitoring. <i>Talanta</i> , 2015 , 132, 520-7	6.2	57
69	The characterisation of structural and antioxidant properties of isoflavone metal chelates. <i>Journal of Inorganic Biochemistry</i> , 2010 , 104, 1091-8	4.2	55
68	Period four metal nanoparticles on the inhibition of biofouling. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 78, 208-16	6	48
67	Experiences and recommendations in deploying a real-time, water quality monitoring system. <i>Measurement Science and Technology</i> , 2010 , 21, 124004	2	42
66	Molecularly imprinted sol gel for ibuprofen: an analytical study of the factors influencing selectivity. <i>Talanta</i> , 2009 , 78, 653-9	6.2	41
65	Antifouling performances of macro- to micro- to nano-copper materials for the inhibition of biofouling in its early stages. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 6194-6200	7.3	36
64	The application of CRISPR-Cas for single species identification from environmental DNA. <i>Molecular Ecology Resources</i> , 2019 , 19, 1106-1114	8.4	32

63	ColiSense, today's sample today: A rapid on-site detection of β -Glucuronidase activity in surface water as a surrogate for E. coli. <i>Talanta</i> , 2016 , 148, 75-83	6.2	31
62	Novel modes of capillary electrophoresis for the determination of endocrine disrupting chemicals. <i>Journal of Chromatography A</i> , 2003 , 1014, 141-52	4.5	31
61	The determination of total germanium in real food samples including Chinese herbal remedies using graphite furnace atomic absorption spectroscopy. <i>Food Chemistry</i> , 2006 , 97, 411-417	8.5	30
60	A review of centrifugal microfluidics in environmental monitoring. <i>Analytical Methods</i> , 2018 , 10, 1497-1535	3.5	28
59	Recent developments in sensing methods for eutrophying nutrients with a focus on automation for environmental applications. <i>Analyst, The</i> , 2017 , 142, 4355-4372	5	27
58	Phthalate doped PVC membranes for the inhibition of fouling. <i>Journal of Membrane Science</i> , 2010 , 365, 180-187	9.6	27
57	Modular fibre optic sensor for the detection of hydrocarbons in water. <i>Sensors and Actuators B: Chemical</i> , 2006 , 114, 438-444	8.5	27
56	Development of comparative methods using gas chromatography-mass spectrometry and capillary electrophoresis for determination of endocrine disrupting chemicals in bio-solids. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002 , 770, 243-53	3.2	27
55	PhosphaSense: A fully integrated, portable lab-on-a-disc device for phosphate determination in water. <i>Sensors and Actuators B: Chemical</i> , 2017 , 246, 1085-1091	8.5	26
54	Continuous fluorometric method for measuring β glucuronidase activity: comparative analysis of three fluorogenic substrates. <i>Analyst, The</i> , 2015 , 140, 5953-64	5	26
53	A review of pharmaceutical occurrence and pathways in the aquatic environment in the context of a changing climate and the COVID-19 pandemic. <i>Analytical Methods</i> , 2021 , 13, 575-594	3.2	25
52	Novel teflon-coated optical fibres for TCE determination using FTIR spectroscopy. <i>Vibrational Spectroscopy</i> , 1997 , 14, 239-246	2.1	24
51	Emerging priority substances in the aquatic environment: a role for passive sampling in supporting WFD monitoring and compliance. <i>Analytical Methods</i> , 2015 , 7, 7976-7984	3.2	23
50	Potential of microemulsion electrokinetic chromatography for the separation of priority endocrine disrupting compounds. <i>Journal of Chromatography A</i> , 2003 , 1014, 129-39	4.5	23
49	High-throughput multi-residue quantification of contaminants of emerging concern in wastewaters enabled using direct injection liquid chromatography-tandem mass spectrometry. <i>Journal of Hazardous Materials</i> , 2020 , 398, 122933	12.8	23
48	ChromiSense: A colourimetric lab-on-a-disc sensor for chromium speciation in water. <i>Talanta</i> , 2018 , 178, 392-399	6.2	21
47	A neural network approach to smarter sensor networks for water quality monitoring. <i>Sensors</i> , 2012 , 12, 4605-32	3.8	20
46	Rapid simultaneous determination of alkylxanthines by CZE and its application in analysis of pharmaceuticals and food samples. <i>Analytica Chimica Acta</i> , 2005 , 540, 103-110	6.6	20

45	Protocol for the recovery and detection of Escherichia coli in environmental water samples. <i>Analytica Chimica Acta</i> , 2017 , 964, 178-186	6.6	15
44	Novel Microfluidic Analytical Sensing Platform for the Simultaneous Detection of Three Algal Toxins in Water. <i>ACS Omega</i> , 2018 , 3, 6624-6634	3.9	15
43	Determination of association constants of inclusion complexes of steroid hormones and cyclodextrins from their electrophoretic mobility. <i>Electrophoresis</i> , 2006 , 27, 3048-56	3.6	14
42	In-situ lipid and fatty acid extraction methods to recover viable products from <i>Nannochloropsis</i> sp. <i>Science of the Total Environment</i> , 2020 , 748, 142464	10.2	13
41	Occurrence of Selected Metals in Wastewater Effluent and Surface Water in Ireland. <i>Analytical Letters</i> , 2017 , 50, 724-737	2.2	12
40	Bio-inspired Surface Texture Modification as a Viable Feature of Future Aquatic Antifouling Strategies: A Review. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	12
39	Rapid Prototyped Biomimetic Antifouling Surfaces for Marine Applications. <i>Materials Today: Proceedings</i> , 2016 , 3, 527-532	1.4	11
38	Separation of two groups of oestrogen mimicking compounds using micellar electrokinetic chromatography. <i>Journal of Chromatography A</i> , 2000 , 895, 237-46	4.5	11
37	Reproducible Superhydrophobic PVC Coatings; Investigating the Use of Plasticizers for Early Stage Biofouling Control. <i>Advanced Engineering Materials</i> , 2017 , 19, 1700053	3.5	10
36	Passive sampling of polar emerging contaminants in Irish catchments. <i>Water Science and Technology</i> , 2019 , 79, 218-230	2.2	9
35	Pilot Scale Study: First Demonstration of Hydrophobic Membranes for the Removal of Ammonia Molecules from Rendering Condensate Wastewater. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	9
34	Continuous high-frequency monitoring of estuarine water quality as a decision support tool: a Dublin Port case study. <i>Environmental Monitoring and Assessment</i> , 2014 , 186, 5561-80	3.1	9
33	CE separation approaches for combinations of anthracyclines and taxanes. <i>Electrophoresis</i> , 2009 , 30, 3110-3113	3.6	9
32	Versatile Self-Cleaning Coating Production Through Sol-Gel Chemistry. <i>Advanced Engineering Materials</i> , 2016 , 18, 76-82	3.5	9
31	Antifouling Strategies for Sensors Used in Water Monitoring: Review and Future Perspectives. <i>Sensors</i> , 2021 , 21,	3.8	9
30	Using citizen science to understand river water quality while filling data gaps to meet United Nations Sustainable Development Goal 6 objectives. <i>Science of the Total Environment</i> , 2021 , 783, 146953 ^{10.2}	10.2	9
29	Demonstration of an optical biosensor for the detection of faecal indicator bacteria in freshwater and coastal bathing areas. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 7637-7643	4.4	8
28	A comprehensive review of catchment water quality monitoring using a tiered framework of integrated sensing technologies. <i>Science of the Total Environment</i> , 2021 , 765, 142766	10.2	8

27	High resolution monitoring of episodic stratification events in an enclosed marine system. <i>Estuarine, Coastal and Shelf Science</i> , 2013 , 123, 26-33	2.9	7
26	A robust analytical method for the determination of pesticide residues in wastewater. <i>Analytical Methods</i> , 2017 , 9, 4167-4174	3.2	7
25	Characterization and anti-settlement aspects of surface micro-structures from <i>Cancer pagurus</i> . <i>Bioinspiration and Biomimetics</i> , 2014 , 9, 046003	2.6	7
24	Monitoring the occurrence of PAHs in Irish wastewater effluent. <i>Journal of Environmental Monitoring</i> , 2012 , 14, 3009-14		7
23	Introducing Quality Control in the Chemistry Teaching Laboratory Using Control Charts. <i>Journal of Chemical Education</i> , 2009 , 86, 1085	2.4	7
22	Sebacic and succinic acid derived plasticised PVC for the inhibition of biofouling in its initial stages. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2011 , 9, 176-84		6
21	Determination of spatial and temporal variability of pH and dissolved oxygen concentrations in a seasonally hypoxic semi-enclosed marine basin using continuous monitoring. <i>Analytical Methods</i> , 2014 , 6, 5489-5497	3.2	5
20	Recovery of viable ammonia/nitrogen products from agricultural slaughterhouse wastewater by membrane contactors: a review. <i>Environmental Science: Water Research and Technology</i> , 2021 , 7, 259-273	4.2	5
19	Assessing variability in the ratio of metal concentrations measured by DGT-type passive samplers and spot sampling in European seawaters. <i>Science of the Total Environment</i> , 2021 , 783, 147001	10.2	5
18	Data analysis from a low-cost optical sensor for continuous marine monitoring. <i>Sensors and Actuators B: Chemical</i> , 2015 , 214, 211-217	8.5	4
17	Multimedia information retrieval and environmental monitoring: Shared perspectives on data fusion. <i>Ecological Informatics</i> , 2014 , 23, 118-125	4.2	4
16	Potential of CE for the determination of inorganic and acidic anions in cyanoacrylate adhesives. <i>Electrophoresis</i> , 2006 , 27, 4532-7	3.6	4
15	Comparing CRISPR-Cas and qPCR eDNA assays for the detection of Atlantic salmon (<i>Salmo salar</i> L.). <i>Environmental DNA</i> , 2021 , 3, 297-304	7.6	4
14	Selection and optimization of protein and carbohydrate assays for the characterization of marine biofouling. <i>Analytical Methods</i> , 2020 , 12, 2228-2236	3.2	3
13	Development of a Risk Index for Use in Water Quality Monitoring. <i>Water Conservation Science and Engineering</i> , 2017 , 1, 209-221	1.6	3
12	An investigation into the sample preparation procedure and analysis of cyanoacrylate adhesives using capillary electrophoresis. <i>International Journal of Adhesion and Adhesives</i> , 2007 , 27, 604-609	3.4	3
11	Concurrent sampling of transitional and coastal waters by Diffusive Gradient in Thin-films (DGT) and spot sampling for trace metals analysis. <i>MethodsX</i> , 2021 , 8, 101462	1.9	2
10	Modelling and optimisation of single-step laser-based gold nanostructure deposition with tunable optical properties. <i>Optics and Laser Technology</i> , 2018 , 108, 295-305	4.2	1

9	Monitoring of emerging contaminants of concern in the aquatic environment: a review of studies showing the application of effect-based measures. <i>Analytical Methods</i> , 2021 , 13, 5120-5143	3.2	1
8	Highlighting extraction and derivatization method comparisons for optimal sample preparation of <i>Nannochloropsis</i> sp. algal oils prior to FAME determination. <i>Analytical Methods</i> , 2020 , 12, 630-637	3.2	1
7	Marine inspired textured materials for reduction of biofouling on surfaces 2019 ,		1
6	Potential Viable Products Identified from Characterisation of Agricultural Slaughterhouse Rendering Wastewater. <i>Water (Switzerland)</i> , 2021 , 13, 352	3	1
5	Design, build and demonstration of a fast, reliable portable phosphate field analyser. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021 , 4, 100168	7.5	0
4	Metals concentrations in transitional and coastal waters by ICPMS and voltammetry analysis of spot samples and passive samplers (DGT).. <i>Marine Pollution Bulletin</i> , 2022 , 179, 113715	6.7	0
3	Assessment of anthropogenic pollution by monitoring occurrence and distribution of chemicals in the river Liffey in Dublin. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 53754-53766	5.1	
2	Understanding microcystin-LR antibody binding interactions using in silico docking and in vitro mutagenesis. <i>Protein Engineering, Design and Selection</i> , 2019 , 32, 533-542	1.9	
1	Sensors Overview 2018 , 172-172		