

# Colin Fitzpatrick

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

1,680  
citations

279798

23  
h-index

302126

39  
g-index

83  
all docs

83  
docs citations

83  
times ranked

1710  
citing authors

#	ARTICLE	IF	CITATIONS
1	Demand side management of industrial electricity consumption: Promoting the use of renewable energy through real-time pricing. Applied Energy, 2014, 113, 11-21.	10.1	187
2	Demand side management of electric car charging: Benefits for consumer and grid. Energy, 2012, 42, 358-363.	8.8	114
3	Demand side management of a domestic dishwasher: Wind energy gains, financial savings and peak-time load reduction. Applied Energy, 2013, 101, 678-685.	10.1	103
4	Real-time gamma dosimetry using PMMA optical fibres for applications in the sterilization industry. Measurement Science and Technology, 2007, 18, 3171-3176.	2.6	90
5	Success factors and barriers in re-use of electrical and electronic equipment. Resources, Conservation and Recycling, 2013, 80, 21-31.	10.8	81
6	Facilitation of renewable electricity using price based appliance control in Ireland's electricity market. Energy, 2011, 36, 2952-2960.	8.8	70
7	Behavioral change for the circular economy: A review with focus on electronic waste management in the EU. Resources Conservation & Recycling X, 2020, 6, 100035.	4.2	69
8	Detection of carbon dioxide emissions from a diesel engine using a mid-infrared optical fibre based sensor. Sensors and Actuators A: Physical, 2007, 136, 104-110.	4.1	54
9	Real-time fibre optic radiation dosimeters for nuclear environment monitoring around thermonuclear reactors. Fusion Engineering and Design, 2008, 83, 50-59.	1.9	52
10	Definition of generic re-use operating models for electrical and electronic equipment. Resources, Conservation and Recycling, 2012, 65, 85-99.	10.8	51
11	Repurposing end of life notebook computers from consumer WEEE as thin client computers "A hybrid end of life strategy for the Circular Economy in electronics. Journal of Cleaner Production, 2018, 192, 809-820.	9.3	50
12	Barriers to electronics reuse of transboundary e-waste shipment regulations: An evaluation based on industry experiences. Resources, Conservation and Recycling, 2015, 102, 170-177.	10.8	44
13	Evaluating the sustainability potential of a white goods refurbishment program. Sustainability Science, 2013, 8, 529-541.	4.9	40
14	Conflict Minerals in the Compute Sector: Estimating Extent of Tin, Tantalum, Tungsten, and Gold Use in ICT Products. Environmental Science & Technology, 2015, 49, 974-981.	10.0	40
15	Principal component analysis and artificial neural network based approach to analysing optical fibre sensors signals. Sensors and Actuators A: Physical, 2007, 136, 28-38.	4.1	38
16	An optical fibre based ultra violet and visible absorption spectroscopy system for ozone concentration monitoring. Sensors and Actuators B: Chemical, 2007, 125, 372-378.	7.8	37
17	Hazardous gas detection using an integrating sphere as a multipass gas absorption cell. Sensors and Actuators A: Physical, 2008, 141, 414-421.	4.1	35
18	Treasured trash? A consumer perspective on small Waste Electrical and Electronic Equipment (WEEE) divestment in Ireland. Resources, Conservation and Recycling, 2019, 145, 179-189.	10.8	31

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19	CO <sub>2</sub> monitoring and detection using an integrating sphere as a multipass absorption cell. Measurement Science and Technology, 2007, 18, 3187-3194.	2.6	30
20	Modelling the levels of historic waste electrical and electronic equipment in Ireland. Resources, Conservation and Recycling, 2018, 131, 1-16.	10.8	30
21	End-of-Life Electric Vehicle Battery Stock Estimation in Ireland through Integrated Energy and Circular Economy Modelling. Resources, Conservation and Recycling, 2021, 174, 105753.	10.8	27
22	On-board monitoring of vehicle exhaust emissions using an ultraviolet optical fibre based sensor. Journal of Optics, 2007, 9, S24-S31.	1.5	26
23	A novel multi-point ultraviolet optical fibre sensor based on cladding luminescence. Measurement Science and Technology, 2003, 14, 1477-1483.	2.6	23
24	A novel multipoint luminescent coated ultra violet fibre sensor utilising artificial neural network pattern recognition techniques. Sensors and Actuators A: Physical, 2004, 115, 267-272.	4.1	22
25	Is repairability enough? big data insights into smartphone obsolescence and consumer interest in repair. Journal of Cleaner Production, 2021, 313, 127561.	9.3	22
26	Feasibility of Using Radio Frequency Identification to Facilitate Individual Producer Responsibility for Waste Electrical and Electronic Equipment. Journal of Industrial Ecology, 2013, 17, 213-223.	5.5	21
27	Low Concentration Monitoring of Exhaust Gases Using a UV-Based Optical Sensor. IEEE Sensors Journal, 2007, 7, 685-691.	4.7	19
28	Combating Adverse Selection in Secondary PC Markets. Environmental Science & Technology, 2008, 42, 3047-3052.	10.0	18
29	Enabling preparation for re-use of waste electrical and electronic equipment in Ireland: Lessons from other EU member states. Journal of Cleaner Production, 2019, 232, 1005-1017.	9.3	18
30	Deep UV based DOAS system for the monitoring of nitric oxide using ratiometric separation techniques. Sensors and Actuators B: Chemical, 2008, 134, 317-323.	7.8	17
31	A mid-infrared optical fibre sensor for the detection of carbon monoxide exhaust emissions. Sensors and Actuators A: Physical, 2008, 144, 13-17.	4.1	17
32	Sustainable life cycle engineering of an integrated desktop PC; a small to medium enterprise perspective. Journal of Cleaner Production, 2014, 74, 155-160.	9.3	16
33	Monitoring of carbon dioxide exhaust emissions using mid-infrared spectroscopy. Journal of Optics, 2007, 9, S87-S91.	1.5	14
34	Understanding the Impacts of Transboundary Waste Shipment Policies: The Case of Plastic and Electronic Waste. Sustainability, 2020, 12, 2412.	3.2	13
35	Trialling the preparation for reuse of consumer ICT WEEE in Ireland. Journal of Cleaner Production, 2020, 256, 120512.	9.3	13
36	A large core polymer optical fibre sensor for x-ray dosimetry based on luminescence occurring in the cladding. Measurement Science and Technology, 2004, 15, 1586-1590.	2.6	11

#	ARTICLE	IF	CITATIONS
37	Estimating job creation potential of compliant WEEE pre-treatment in Ireland. Resources, Conservation and Recycling, 2021, 166, 105230.	10.8	11
38	Quantifying used electrical and electronic equipment exported from Ireland to West Africa in roll-on roll-off vehicles. Resources, Conservation and Recycling, 2021, 164, 105177.	10.8	10
39	Hazardous gas detection with an integrating sphere in the near-infrared. Journal of Physics: Conference Series, 2005, 15, 250-255.	0.4	9
40	Simulation and measurement of carbon dioxide exhaust emissions using an optical-fibre-based mid-infrared point sensor. Journal of Optics, 2009, 11, 054013.	1.5	8
41	A Preparation for Reuse Trial of Washing Machines in Ireland. Sustainability, 2020, 12, 1175.	3.2	7
42	Education for UN Sustainable Development Goal 12: A Cross-Curricular Program for Secondary Level Students. Frontiers in Sustainability, 2021, 2, .	2.6	7
43	An Optical Fiber Sensor for the Detection of Germicidal UV Irradiation Using Narrowband Luminescent Coatings. IEEE Sensors Journal, 2004, 4, 619-626.	4.7	6
44	Gamma dosimetry using commercial PMMA optical fibres for nuclear environments. , 2005, 5855, 499.		6
45	Ozone measurement in visible region: an optical fibre sensor system. Electronics Letters, 2005, 41, 1317.	1.0	6
46	A case study of the D4R laptop. Proceedings of Institution of Civil Engineers: Waste and Resource Management, 2014, 167, 101-108.	0.8	6
47	Development of an extrinsic optical fibre temperature sensor for monitoring liquid temperature in harsh industrial environments. Journal of Optics, 2005, 7, S331-S339.	1.5	5
48	Gas detection using an integrating sphere as a multipass absorption cell. , 2006, , .		5
49	Techno-financial investigation of second-life of Electric Vehicle batteries for energy imbalance services in the Irish electricity market. Procedia CIRP, 2022, 105, 164-170.	1.9	5
50	Vibration-insensitive temperature sensing system based on fluorescence decay and using a digital processing approach. Measurement Science and Technology, 2006, 17, 2010-2014.	2.6	4
51	Use Phase Signals to Promote Lifetime Extension for Windows PCs. Environmental Science & Technology, 2009, 43, 2544-2549.	10.0	4
52	Investigating reuse of B2C WEEE in Ireland. , 2010, , .		4
53	A Coating Process For Multi-Point Luminescent Clad Fibre Optic Sensors. Optical Review, 2003, 10, 330-334.	2.0	3
54	UV-based pollutant quantification in automotive exhausts. , 2006, 6198, 52.		3

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55	Development of a Fibre-Optic DOAS Sensor for the Detection of Exhaust Gases Using Ratiometric Separation Techniques. , 2007, , .		3
56	Quantifying WEEE arising in scrap metal collections: Method development and application in Ireland. Journal of Industrial Ecology, 2021, 25, 1021-1033.	5.5	3
57	Tackling Adverse Selection in Secondary PC Markets. , 2007, , 347-352.		3
58	A narrow-band photoluminescent optical fibre sensor for the detection of high-intensity germicidal ultraviolet radiation (254 nm) from a microwave plasma ultraviolet lamp. Journal of Optics, 2003, 5, S63-S68.	1.5	2
59	Optical fibre sensors for the monitoring of harmful emissions from land transport vehicles. , 2005, 5826, 586.		2
60	Online monitoring of exhaust emissions using mid-infrared spectroscopy. Journal of Physics: Conference Series, 2005, 15, 33-38.	0.4	2
61	Monitoring of Environmentally Hazardous Exhaust Emissions from Cars Using Optical Fibre Sensors. Lecture Notes in Computer Science, 2008, , 238-247.	1.3	2
62	WEEE reuse trials in Ireland. , 2011, , .		2
63	Mid-infrared optical fibre sensor based detection of exhaust gas emissions. , 2005, 5855, 455.		1
64	Detection of carbon dioxide emissions from a land transport vehicle using a mid-infrared optical fiber based sensor. , 2006, , .		1
65	On-board monitoring of hazardous exhaust emissions in passenger cars (category M1). , 2006, 6379, 162.		1
66	Carbon dioxide detection at 2 $\frac{1}{4}$ $\mu$ m using an integrating sphere as an optical absorption cell. Proceedings of SPIE, 2007, , .	0.8	1
67	A Problem Based Learning (PBL) module on electronics &#x0026; the environment. , 2008, , .		1
68	Increased efficiency of wind generated electricity using demand side management. , 2008, , .		1
69	Developing RFID signalling to close the loop on second hand computers. , 2009, , .		1
70	Optical fiber sensor for germicidal microwave plasma UV lamps for water and wastewater treatment. , 2001, 4416, 90.		0
71	Investigation and development of a fibre optic temperature sensor for monitoring liquid temperature in a high-power microwave environment. , 2004, 5502, 80.		0
72	Toward a mid-infrared optical fibre sensor for exhaust gas emissions. , 2004, , .		0

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73	Low pressure gas discharges for electric field intensity monitoring in microwave resonant cavities. , 2005, 5826, 460.		0
74	Monitoring of harmful gaseous emissions from land transport vehicles using a mid-infrared optical fibre sensor. , 2006, 6198, 64.		0
75	Deep-UV-based differential optical absorption spectroscopy (DOAS) system for the monitoring of nitric oxide. Proceedings of SPIE, 2007, , .	0.8	0
76	RFID signalling to stimulate reuse of personal computers. , 2008, , .		0
77	In-situ monitoring of Carbon Dioxide Emissions from a Diesel Automobile using a Mid-Infrared Optical Fibre Based Point Sensor. , 2008, , .		0
78	A method for extracting historical thermal data from used PCs to foster reuse. , 2010, , .		0
79	In-situ monitoring of carbon dioxide emissions from a diesel engine using a mid-infrared optical fibre sensor. , 2011, , .		0
80	Projecting the split between historic and non-historic WEEE in Ireland. , 2016, , .		0