

Colin Fitzpatrick

List of Publications by Citations

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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.

65

papers

1,229

citations

20

h-index

33

g-index

83

ext. papers

1,481

ext. citations

6.2

avg, IF

4.92

L-index

#	Paper	IF	Citations
65	Demand side management of industrial electricity consumption: Promoting the use of renewable energy through real-time pricing. <i>Applied Energy</i> , 2014 , 113, 11-21	10.7	147
64	Demand side management of electric car charging: Benefits for consumer and grid. <i>Energy</i> , 2012 , 42, 358-363	7.9	91
63	Demand side management of a domestic dishwasher: Wind energy gains, financial savings and peak-time load reduction. <i>Applied Energy</i> , 2013 , 101, 678-685	10.7	84
62	Success factors and barriers in re-use of electrical and electronic equipment. <i>Resources, Conservation and Recycling</i> , 2013 , 80, 21-31	11.9	71
61	Facilitation of renewable electricity using price based appliance control in Ireland's electricity market. <i>Energy</i> , 2011 , 36, 2952-2960	7.9	66
60	Definition of generic re-use operating models for electrical and electronic equipment. <i>Resources, Conservation and Recycling</i> , 2012 , 65, 85-99	11.9	48
59	Real-time gamma dosimetry using PMMA optical fibres for applications in the sterilization industry. <i>Measurement Science and Technology</i> , 2007 , 18, 3171-3176	2	48
58	Detection of carbon dioxide emissions from a diesel engine using a mid-infrared optical fibre based sensor. <i>Sensors and Actuators A: Physical</i> , 2007 , 136, 104-110	3.9	43
57	Real-time fibre optic radiation dosimeters for nuclear environment monitoring around thermonuclear reactors. <i>Fusion Engineering and Design</i> , 2008 , 83, 50-59	1.7	40
56	Evaluating the sustainability potential of a white goods refurbishment program. <i>Sustainability Science</i> , 2013 , 8, 529-541	6.4	34
55	Barriers to electronics reuse of transboundary e-waste shipment regulations: An evaluation based on industry experiences. <i>Resources, Conservation and Recycling</i> , 2015 , 102, 170-177	11.9	33
54	Principal component analysis and artificial neural network based approach to analysing optical fibre sensors signals. <i>Sensors and Actuators A: Physical</i> , 2007 , 136, 28-38	3.9	31
53	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. <i>Journal of Cleaner Production</i> , 2018 , 192, 809-820	10.3	30
52	An optical fibre based ultra violet and visible absorption spectroscopy system for ozone concentration monitoring. <i>Sensors and Actuators B: Chemical</i> , 2007 , 125, 372-378	8.5	28
51	Hazardous gas detection using an integrating sphere as a multipass gas absorption cell. <i>Sensors and Actuators A: Physical</i> , 2008 , 141, 414-421	3.9	28
50	Conflict minerals in the compute sector: estimating extent of tin, tantalum, tungsten, and gold use in ICT products. <i>Environmental Science & Technology</i> , 2015 , 49, 974-81	10.3	27
49	Behavioral change for the circular economy: A review with focus on electronic waste management in the EU. <i>Resources Conservation & Recycling X</i> , 2020 , 6, 100035	3.9	25

48	CO ₂ monitoring and detection using an integrating sphere as a multipass absorption cell. <i>Measurement Science and Technology</i> , 2007 , 18, 3187-3194	2	25
47	Modelling the levels of historic waste electrical and electronic equipment in Ireland. <i>Resources, Conservation and Recycling</i> , 2018 , 131, 1-16	11.9	22
46	On-board monitoring of vehicle exhaust emissions using an ultraviolet optical fibre based sensor. <i>Journal of Optics</i> , 2007 , 9, S24-S31		21
45	Treasured trash? A consumer perspective on small Waste Electrical and Electronic Equipment (WEEE) divestment in Ireland. <i>Resources, Conservation and Recycling</i> , 2019 , 145, 179-189	11.9	19
44	Feasibility of Using Radio Frequency Identification to Facilitate Individual Producer Responsibility for Waste Electrical and Electronic Equipment. <i>Journal of Industrial Ecology</i> , 2013 , 17, 213-223	7.2	19
43	A novel multi-point ultraviolet optical fibre sensor based on cladding luminescence. <i>Measurement Science and Technology</i> , 2003 , 14, 1477-1483	2	18
42	A novel multipoint luminescent coated ultra violet fibre sensor utilising artificial neural network pattern recognition techniques. <i>Sensors and Actuators A: Physical</i> , 2004 , 115, 267-272	3.9	18
41	Sustainable life cycle engineering of an integrated desktop PC; a small to medium enterprise perspective. <i>Journal of Cleaner Production</i> , 2014 , 74, 155-160	10.3	15
40	A mid-infrared optical fibre sensor for the detection of carbon monoxide exhaust emissions. <i>Sensors and Actuators A: Physical</i> , 2008 , 144, 13-17	3.9	15
39	Combating adverse selection in secondary PC markets. <i>Environmental Science & Technology</i> , 2008 , 42, 3047-52	10.3	14
38	Deep UV based DOAS system for the monitoring of nitric oxide using ratiometric separation techniques. <i>Sensors and Actuators B: Chemical</i> , 2008 , 134, 317-323	8.5	14
37	Low Concentration Monitoring of Exhaust Gases Using a UV-Based Optical Sensor. <i>IEEE Sensors Journal</i> , 2007 , 7, 685-691	4	14
36	Enabling preparation for re-use of waste electrical and electronic equipment in Ireland: Lessons from other EU member states. <i>Journal of Cleaner Production</i> , 2019 , 232, 1005-1017	10.3	11
35	Monitoring of carbon dioxide exhaust emissions using mid-infrared spectroscopy. <i>Journal of Optics</i> , 2007 , 9, S87-S91		10
34	A large core polymer optical fibre sensor for x-ray dosimetry based on luminescence occurring in the cladding. <i>Measurement Science and Technology</i> , 2004 , 15, 1586-1590	2	10
33	Hazardous gas detection with an integrating sphere in the near-infrared. <i>Journal of Physics: Conference Series</i> , 2005 , 15, 250-255	0.3	9
32	Trialling the preparation for reuse of consumer ICT WEEE in Ireland. <i>Journal of Cleaner Production</i> , 2020 , 256, 120512	10.3	8
31	Understanding the Impacts of Transboundary Waste Shipment Policies: The Case of Plastic and Electronic Waste. <i>Sustainability</i> , 2020 , 12, 2412	3.6	7

30	A Preparation for Reuse Trial of Washing Machines in Ireland. <i>Sustainability</i> , 2020 , 12, 1175	3.6	6
29	An optical fiber sensor for the detection of germicidal UV irradiation using narrowband luminescent coatings. <i>IEEE Sensors Journal</i> , 2004 , 4, 619-626	4	6
28	A case study of the D4R laptop. <i>Proceedings of Institution of Civil Engineers: Waste and Resource Management</i> , 2014 , 167, 101-108	0.5	5
27	Gamma dosimetry using commercial PMMA optical fibres for nuclear environments 2005 , 5855, 499		5
26	Development of an extrinsic optical fibre temperature sensor for monitoring liquid temperature in harsh industrial environments. <i>Journal of Optics</i> , 2005 , 7, S331-S339		5
25	Estimating job creation potential of compliant WEEE pre-treatment in Ireland. <i>Resources, Conservation and Recycling</i> , 2021 , 166, 105230	11.9	5
24	End-of-Life Electric Vehicle Battery Stock Estimation in Ireland through Integrated Energy and Circular Economy Modelling. <i>Resources, Conservation and Recycling</i> , 2021 , 174, 105753	11.9	5
23	Simulation and measurement of carbon dioxide exhaust emissions using an optical-fibre-based mid-infrared point sensor. <i>Journal of Optics</i> , 2009 , 11, 054013		4
22	Use phase signals to promote lifetime extension for Windows PCs. <i>Environmental Science & Technology</i> , 2009 , 43, 2544-9	10.3	4
21	Gas detection using an integrating sphere as a multipass absorption cell 2006 ,		4
20	Quantifying used electrical and electronic equipment exported from ireland to west africa in roll-on roll-off vehicles. <i>Resources, Conservation and Recycling</i> , 2021 , 164, 105177	11.9	4
19	Vibration-insensitive temperature sensing system based on fluorescence decay and using a digital processing approach. <i>Measurement Science and Technology</i> , 2006 , 17, 2010-2014	2	3
18	UV-based pollutant quantification in automotive exhausts 2006 , 6198, 52		3
17	A Coating Process For Multi-Point Luminescent Clad Fibre Optic Sensors. <i>Optical Review</i> , 2003 , 10, 330-334		3
16	Ozone measurement in visible region: an optical fibre sensor system. <i>Electronics Letters</i> , 2005 , 41, 1317	1.1	3
15	Is reparability enough? big data insights into smartphone obsolescence and consumer interest in repair. <i>Journal of Cleaner Production</i> , 2021 , 313, 127561	10.3	3
14	Investigating reuse of B2C WEEE in Ireland 2010 ,		2
13	WEEE reuse trials in Ireland 2011 ,		2

12	Development of a Fibre-Optic DOAS Sensor for the Detection of Exhaust Gases Using Ratiometric Separation Techniques 2007 ,		2
11	A narrow-band photoluminescent optical fibre sensor for the detection of high-intensity germicidal ultraviolet radiation (254 nm) from a microwave plasma ultraviolet lamp. <i>Journal of Optics</i> , 2003 , 5, S63-S68		2
10	Online monitoring of exhaust emissions using mid-infrared spectroscopy. <i>Journal of Physics: Conference Series</i> , 2005 , 15, 33-38	0.3	2
9	Tackling Adverse Selection in Secondary PC Markets 2007 , 347-352		2
8	Education for UN Sustainable Development Goal 12: A Cross-Curricular Program for Secondary Level Students. <i>Frontiers in Sustainability</i> , 2021 , 2,	2.1	2
7	Quantifying WEEE arising in scrap metal collections: Method development and application in Ireland. <i>Journal of Industrial Ecology</i> , 2021 , 25, 1021-1033	7.2	2
6	Increased efficiency of wind generated electricity using demand side management 2008 ,		1
5	On-board monitoring of hazardous exhaust emissions in passenger cars (category M1) 2006 , 6379, 162		1
4	Monitoring of Environmentally Hazardous Exhaust Emissions from Cars Using Optical Fibre Sensors. <i>Lecture Notes in Computer Science</i> , 2008 , 238-247	0.9	0
3	Techno-financial investigation of second-life of Electric Vehicle batteries for energy imbalance services in the Irish electricity market. <i>Procedia CIRP</i> , 2022 , 105, 164-170	1.8	0
2	Low pressure gas discharges for electric field intensity monitoring in microwave resonant cavities 2005 , 5826, 460		
1	Optical fiber sensor for germicidal microwave plasma UV lamps for water and wastewater treatment 2001 , 4416, 90		