## Aonghus McNabola

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Prediction of Global Efficiency and Economic Viability of Replacing PRVs with Hydraulically Regulated Pump-as-Turbines at Instrumented Sites within Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	1.3	6
2	A numerical analysis of particulate matter control technology integrated with HVAC system inlet design and implications on energy consumption. Building and Environment, 2022, 211, 108726.	3.0	4
3	Developing green process innovation through network action learning. Creativity and Innovation Management, 2022, 31, 248-259.	1.9	3
4	In-kitchen aerosol exposure in twelve cities across the globe. Environment International, 2022, 162, 107155.	4.8	24
5	ls There a Residual and HiddenÂPotential for Small and Micro Hydropower in Europe? A Screening-Level Regional Assessment. Water Resources Management, 2022, 36, 1745-1762.	1.9	18
6	Spatiotemporal representativeness of air pollution monitoring in Dublin, Ireland. Science of the Total Environment, 2022, 827, 154299.	3.9	5
7	Energy Recovery Potential in Industrial and Municipal Wastewater Networks Using Micro-Hydropower in Spain. Water (Switzerland), 2021, 13, 691.	1.2	13
8	Multi-Country Scale Assessment of Available Energy Recovery Potential Using Micro-Hydropower in Drinking, Pressurised Irrigation and Wastewater Networks, Covering Part of the EU. Water (Switzerland), 2021, 13, 899.	1.2	19
9	Heat Recovery from Wastewater—A Review of Available Resource. Water (Switzerland), 2021, 13, 1274.	1.2	50
10	Numerical investigation on the ingress of particulate matter from ambient air into the inlet of a building air handling unit. Indoor Air, 2021, 31, 1940-1951.	2.0	3
11	Optimization-Based Methodology for Selection of Pump-as-Turbine in Water Distribution Networks: Effects of Different Objectives and Machine Operation Limits on Best Efficiency Point. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	1.3	18
12	Evaluation of the design and performance of a micro hydropower plant in a pressurised irrigation network: Real world application at farm-level in Southern Spain. Renewable Energy, 2021, 169, 1106-1120.	4.3	21
13	Sustainable Water-Energy Nexus towards Developing Countries' Water Sector Efficiency. Energies, 2021, 14, 3525.	1.6	14
14	Socio-Technical Viability Framework for Micro Hydropower in Group Water-Energy Schemes. Energies, 2021, 14, 4222.	1.6	8
15	The co-development of HedgeDATE, a public engagement and decision support tool for air pollution exposure mitigation by green infrastructure. Sustainable Cities and Society, 2021, 75, 103299.	5.1	7
16	Design and Year-Long Performance Evaluation of a Pump as Turbine (PAT) Pico-Hydropower Energy Recovery Device in a Water Network. Water (Switzerland), 2021, 13, 3014.	1.2	8
17	Hydropower energy recovery in irrigation networks: Validation of a methodology for flow prediction and pump as turbine selection. Renewable Energy, 2020, 147, 1728-1738.	4.3	39
18	Maximizing Hydropower Generation in Gravity Water Distribution Networks: Determining the Optimal Location and Number of Pumps as Turbines. Journal of Water Resources Planning and Management - ASCE, 2020, 146, .	1.3	28

Aonghus McNabola

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19	Smart Water Management towards Future Water Sustainable Networks. Water (Switzerland), 2020, 12, 58.	1.2	61
20	Spatial and temporal considerations in the performance of wastewater heat recovery systems. Journal of Cleaner Production, 2020, 247, 119583.	4.6	40
21	Environmental Hydraulics Research. Water (Switzerland), 2020, 12, 2749.	1.2	1
22	New Challenges in Water Systems. Water (Switzerland), 2020, 12, 2340.	1.2	12
23	Estimating regional potential for micro-hydropower energy recovery in irrigation networks on a large geographical scale. Renewable Energy, 2020, 155, 396-406.	4.3	16
24	Energy Transfer from the Freshwater to the Wastewater Network Using a PAT-Equipped Turbopump. Water (Switzerland), 2020, 12, 38.	1.2	13
25	The potential impacts of different traffic management strategies on air pollution and public health for a more sustainable city: A modelling case study from Dublin, Ireland. Sustainable Cities and Society, 2020, 60, 102229.	5.1	45
26	A Functional Data Analysis Approach for the Detection of Air Pollution Episodes and Outliers: A Case Study in Dublin, Ireland. Mathematics, 2020, 8, 225.	1.1	24
27	Energy harvesting in water supply systems. , 2020, , 229-254.		0
28	ASSESSMENT OF THE IMPACT OF ROOF-LEVEL BUILDING FEATURES ON AIR POLLUTION INSIDE URBAN STREET CANYONS. WIT Transactions on Ecology and the Environment, 2020, , .	0.0	0
29	A Model for Selecting the Most Cost-Effective Pressure Control Device for More Sustainable Water Supply Networks. Water (Switzerland), 2019, 11, 1297.	1.2	33
30	The nexus between air pollution, green infrastructure and human health. Environment International, 2019, 133, 105181.	4.8	249
31	Pump-as-Turbine Selection Methodology for Energy Recovery in Irrigation Networks: Minimising the Payback Period. Water (Switzerland), 2019, 11, 149.	1.2	21
32	Development of a fleet emissions control (FEC) framework for passenger cars. Journal of Cleaner Production, 2019, 226, 482-492.	4.6	2
33	Decentralized drain water heat recovery from commercial kitchens in the hospitality sector. Energy and Buildings, 2019, 194, 247-259.	3.1	25
34	Comparing the environmental and economic impacts of on- or off-grid solar photovoltaics with traditional energy sources for rural irrigation systems. Renewable Energy, 2019, 140, 895-904.	4.3	52
35	Assessing the Impact of Vehicle Speed Limits and Fleet Composition on Air Quality Near a School. International Journal of Environmental Research and Public Health, 2019, 16, 149.	1.2	20
36	Cost Model for Pumps as Turbines in Run-of-River and In-Pipe Microhydropower Applications. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	1.3	50

Aonghus McNabola

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37	Potential of Energy Recovery and Water Saving Using Micro-Hydropower in Rural Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	1.3	20
38	Decentralized drain water heat recovery: A probabilistic method for prediction of wastewater and heating system interaction. Energy and Buildings, 2019, 183, 684-696.	3.1	13
39	Augmenting limited background monitoring data for improved performance in land use regression modelling: Using support vector regression and mobile monitoring. Atmospheric Environment, 2019, 201, 310-322.	1.9	13
40	Downscaling national road transport emission to street level: A case study in Dublin, Ireland. Journal of Cleaner Production, 2018, 183, 797-809.	4.6	24
41	Hydro-power energy recovery in pressurized irrigation networks: A case study of an Irrigation District in the South of Spain. Agricultural Water Management, 2018, 204, 17-27.	2.4	34
42	Analysing the Co-Benefits of transport fleet and fuel policies in reducing PM2.5 and CO2 emissions. Journal of Cleaner Production, 2018, 172, 623-634.	4.6	70
43	Network-wide traffic and environmental impacts of acceleration and deceleration among Eco-Driving Vehicles in different road configurations. Transportation Planning and Technology, 2018, 41, 244-264.	0.9	9
44	Decentralized Drain Water Heat Recovery: Interaction between Wastewater and Heating Flows on a Single Residence Scale. Proceedings (mdpi), 2018, 2, .	0.2	7
45	Energy Saving Measures in Pressurized Irrigation Networks: A New Challenge for Power Generation. Proceedings (mdpi), 2018, 2, .	0.2	3
46	Potential Micro-Hydropower Generation in Community-Owned Rural Water Supply Networks in Ireland. Proceedings (mdpi), 2018, 2, 677.	0.2	2
47	Potential Energy Recovery Using Micro-Hydropower Technology in Irrigation Networks: Real-World Case Studies in the South of Spain. Proceedings (mdpi), 2018, 2, 679.	0.2	6
48	Fostering Renewable Energies and Energy Efficiency in the Water Sector Using PATs and Wheels. Proceedings (mdpi), 2018, 2, .	0.2	1
49	Innovating for lowâ€carbon energy through hydropower: Enabling a conservation charity's transition to a lowâ€carbon community. Creativity and Innovation Management, 2018, 27, 375-386.	1.9	10
50	Reducing the Energy Dependency of Water Networks in Irrigation, Public Drinking Water, and Process Industry: REDAWN Project. Proceedings (mdpi), 2018, 2, 681.	0.2	4
51	A comparison of route-choice navigation across air pollution exposure, CO2 emission and traditional travel cost factors. Transportation Research, Part D: Transport and Environment, 2018, 65, 82-100.	3.2	20
52	The Development of a Decision Support Software for the Design of Micro-Hydropower Schemes Utilizing a Pump as Turbine. Proceedings (mdpi), 2018, 2, 678.	0.2	8
53	A Comparison of Energy Recovery by PATs against Direct Variable Speed Pumping in Water Distribution Networks. Fluids, 2018, 3, 41.	0.8	31
54	A model for the extrapolation of the characteristic curves of Pumps as Turbines from a datum Best Efficiency Point. Energy Conversion and Management, 2018, 174, 1-7.	4.4	70

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55	Assessment of pathways to reduce CO 2 emissions from passenger car fleets: Case study in Ireland. Applied Energy, 2017, 189, 283-300.	5.1	27
56	Evaluation of combined sewer overflow assessment methods: case study of Cork City, Ireland. Water and Environment Journal, 2017, 31, 202-208.	1.0	17
57	An evaluation of the impact of the Dublin Port Tunnel and HGV management strategy on air pollution emissions. Transportation Research, Part D: Transport and Environment, 2017, 52, 1-14.	3.2	27
58	Air pollution abatement performances of green infrastructure in open road and built-up street canyon environments – A review. Atmospheric Environment, 2017, 162, 71-86.	1.9	611
59	Modelling of intra-urban variability of prevailing ambient noise at different temporal resolution. Noise Mapping, 2017, 4, 20-44.	0.7	9
60	Pump-As-Turbine: Characterization as an Energy Recovery Device for the Water Distribution Network. Journal of Hydraulic Engineering, 2017, 143, .	0.7	21
61	Optimal Location of Pump as Turbines (PATs) in Water Distribution Networks to Recover Energy and Reduce Leakage. Water Resources Management, 2017, 31, 5043-5059.	1.9	72
62	Pressure management and energy recovery in water distribution networks: Development of design and selection methodologies using three pump-as-turbine case studies. Renewable Energy, 2017, 114, 1038-1050.	4.3	51
63	Improvement in the estimation and back-extrapolation of CO 2 emissions from the Irish road transport sector using a bottom-up data modelling approach. Transportation Research, Part D: Transport and Environment, 2017, 56, 18-32.	3.2	32
64	Reducing energy consumption and increasing filter life in HVAC systems using an aspiration efficiency reducer: Long-term performance assessment at full-scale. Journal of Building Engineering, 2017, 12, 267-274.	1.6	15
65	Effects of Long-Term Flow Variation on Microhydropower Energy Production in Pressure Reducing Valves in Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2017, 143, 04016076.	1.3	7
66	Predicting and quantifying the effect of variations in long-term water demand on micro-hydropower energy recovery in water supply networks. Urban Water Journal, 2017, 14, 676-684.	1.0	11
67	Microhydropower Energy Recovery at Wastewater-Treatment Plants: Turbine Selection and Optimization. Journal of Energy Engineering - ASCE, 2017, 143, .	1.0	22
68	"Exposure Trackâ€â€"The Impact of Mobile-Device-Based Mobility Patterns on Quantifying Population Exposure to Air Pollution. Environmental Science & Technology, 2016, 50, 9671-9681.	4.6	119
69	Development of a high resolution wave climate modelling methodology for offshore, nearshore and onshore locations of interest. International Journal of Marine Energy, 2016, 16, 30-40.	1.8	6
70	Optimization of Water Distribution Networks for Combined Hydropower Energy Recovery and Leakage Reduction. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	1.3	53
71	Current and Future Environmental Balance of Small-Scale Run-of-River Hydropower. Environmental Science & Technology, 2015, 49, 6344-6351.	4.6	24
72	Making green technology greener: Achieving a balance between carbon and resource savings through ecodesign in hydropower systems. Resources, Conservation and Recycling, 2015, 105, 11-17.	5.3	14

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73	Exploring the modeling of spatiotemporal variations in ambient air pollution within the land use regression framework: Estimation of PM <sub>10</sub> concentrations on a daily basis. Journal of the Air and Waste Management Association, 2015, 65, 628-640.	0.9	32
74	Life cycle environmental balance and greenhouse gas mitigation potential of micro-hydropower energy recovery in the water industry. Journal of Cleaner Production, 2015, 99, 152-159.	4.6	54
75	A strategic assessment of micro-hydropower in the UK and Irish water industry: Identifying technical and economic constraints. Renewable Energy, 2015, 81, 808-815.	4.3	64
76	Passive methods for improving air quality in the built environment: A review of porous and solid barriers. Atmospheric Environment, 2015, 120, 61-70.	1.9	160
77	Inventory compilation for renewable energy systems: the pitfalls of materiality thresholds and priority impact categories using hydropower case studies. International Journal of Life Cycle Assessment, 2015, 20, 1701-1707.	2.2	6
78	Modelling personal exposure to particulate air pollution: An assessment of time-integrated activity modelling, Monte Carlo simulation & artificial neural network approaches. International Journal of Hygiene and Environmental Health, 2015, 218, 107-116.	2.1	10
79	Can teaching be evaluated through reflection on student performance in continuous assessment? A case study of practical engineering modules. Innovations in Education and Teaching International, 2015, 52, 464-473.	1.5	1
80	Energy recovery in the water industry: an assessment of the potential of microâ€hydropower. Water and Environment Journal, 2014, 28, 294-304.	1.0	49
81	Evaluating artificial neural networks for predicting minute ventilation and lung deposited dose in commuting cyclists. Journal of Transport and Health, 2014, 1, 305-315.	1.1	15
82	Energy recovery in the water industry using micro-hydropower: an opportunity to improve sustainability. Water Policy, 2014, 16, 168-183.	0.7	103
83	Comparison of particulate matter dose and acute heart rate variability response in cyclists, pedestrians, bus and train passengers. Science of the Total Environment, 2014, 468-469, 821-831.	3.9	95
84	Development of an evaluation method for hydropower energy recovery in wastewater treatment plants: Case studies in Ireland and the UK. Sustainable Energy Technologies and Assessments, 2014, 7, 166-177.	1.7	58
85	A critical review and assessment of Eco-Driving policy & technology: Benefits & limitations. Transport Policy, 2014, 35, 42-49.	3.4	111
86	The development and assessment of an aspiration efficiency reducing system of air pollution control for particulate matter in building ventilation systems. Energy and Buildings, 2013, 61, 177-184.	3.1	16
87	Efficient drain water heat recovery in horizontal domestic shower drains. Energy and Buildings, 2013, 59, 44-49.	3.1	70
88	The passive control of air pollution exposure in Dublin, Ireland: A combined measurement and modelling case study. Science of the Total Environment, 2013, 458-460, 331-343.	3.9	33
89	Energy recovery potential using micro hydropower in water supply networks in the UK and Ireland. Water Science and Technology: Water Supply, 2013, 13, 552-560.	1.0	39
90	Energy recovery in the water industry: an assessment of the potential of micro-hydropower. Water and Environment Journal, 2013, 27, n/a-n/a.	1.0	6

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91	Personal Exposure to Air Pollution in Office Workers in Ireland: Measurement, Analysis and Implications. Toxics, 2013, 1, 60-76.	1.6	20
92	Environmental tobacco smoke in designated smoking areas in the hospitality industry: Exposure measurements, exposure modelling and policy assessment. Environment International, 2012, 44, 68-74.	4.8	7
93	Numerical modelling of the passive control of air pollution in asymmetrical urban street canyons using refined mesh discretization schemes. Building and Environment, 2012, 56, 232-240.	3.0	38
94	Energy Recovery in the Water & Waste Water Industry using Micro-Hydropower: A Review. , 2012, , .		3
95	Analysis of the relationship between urban background air pollution concentrations and the personal exposure of office workers in Dublin, Ireland, using baseline separation techniques. Atmospheric Pollution Research, 2011, 2, 80-88.	1.8	20
96	Spoiling air pollution dispersion: A numerical investigation of exhaust plume dispersion from cars with rear spoilers. Transportation Research, Part D: Transport and Environment, 2011, 16, 296-301.	3.2	0
97	Optimizing the use of on-street car parking system as a passive control of air pollution exposure in street canyons by large eddy simulation. Atmospheric Environment, 2011, 45, 1684-1694.	1.9	38
98	New Directions: Passive control of personal air pollution exposure from traffic emissions in urban street canyons. Atmospheric Environment, 2010, 44, 2940-2941.	1.9	29
99	A numerical analysis of the aspiration efficiency of a personal sampler. International Journal of Environment and Pollution, 2010, 41, 109.	0.2	2
100	The Control of Environmental Tobacco Smoke: A Policy Review. International Journal of Environmental Research and Public Health, 2009, 6, 741-758.	1.2	44
101	A principal components analysis of the factors effecting personal exposure to air pollution in urban commuters in Dublin, Ireland. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2009, 44, 1219-1226.	0.9	20
102	A numerical investigation of the impact of low boundary walls on pedestrian exposure to air pollutants in urban street canyons. Science of the Total Environment, 2009, 407, 760-769.	3.9	62
103	Reducing pedestrian exposure to environmental pollutants: A combined noise exposure and air quality analysis approach. Transportation Research, Part D: Transport and Environment, 2009, 14, 309-316.	3.2	47
104	The impacts of inter-vehicle spacing on in-vehicle air pollution concentrations in idling urban traffic conditions. Transportation Research, Part D: Transport and Environment, 2009, 14, 567-575.	3.2	32
105	Modelling the impacts of a carbon emission-differentiated vehicle tax system on CO2 emissions intensity from new vehicle purchases in Ireland. Energy Policy, 2009, 37, 1404-1411.	4.2	68
106	Relative exposure to fine particulate matter and VOCs between transport microenvironments in Dublin: Personal exposure and uptake. Atmospheric Environment, 2008, 42, 6496-6512.	1.9	122
107	Reduced exposure to air pollution on the boardwalk in Dublin, Ireland. Measurement and prediction. Environment International, 2008, 34, 86-93.	4.8	33
108	Optimal cycling and walking speed for minimum absorption of traffic emissions in the lungs. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2007, 42, 1999-2007.	0.9	22

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109	Effects of the Smoking Ban on Benzene and 1,3-Butadiene Levels in Pubs in Dublin. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2006, 41, 799-810.	0.9	27
110	New Directions: Improved atmosphere in pubs due to the smoking ban in Ireland. Atmospheric Environment, 2005, 39, 4815-4816.	1.9	0
111	The technical and economic feasibility of energy recovery in water supply networks. Renewable Energy and Power Quality Journal, 0, , 1123-1127.	0.2	18