

Finbarr Murphy

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

1,400
citations

331259

21
h-index

377514

34
g-index

77
all docs

77
docs citations

77
times ranked

1470
citing authors

#	ARTICLE	IF	CITATIONS
1	Connected and autonomous vehicles: A cyber-risk classification framework. <i>Transportation Research, Part A: Policy and Practice</i> , 2019, 124, 523-536.	2.0	89
2	The Toxic Truth About Carbon Nanotubes in Water Purification: a Perspective View. <i>Nanoscale Research Letters</i> , 2018, 13, 183.	3.1	84
3	Practices and Trends of Machine Learning Application in Nanotoxicology. <i>Nanomaterials</i> , 2020, 10, 116.	1.9	73
4	Application of Bayesian networks for hazard ranking of nanomaterials to support human health risk assessment. <i>Nanotoxicology</i> , 2017, 11, 123-133.	1.6	60
5	Autonomous Vehicles and Embedded Artificial Intelligence: The Challenges of Framing Machine Driving Decisions. <i>Applied Artificial Intelligence</i> , 2019, 33, 706-731.	2.0	56
6	Cyber risk and cybersecurity: a systematic review of data availability. <i>Geneva Papers on Risk and Insurance: Issues and Practice</i> , 2022, 47, 698-736.	1.1	55
7	Nanotoxicology data for <i>in silico</i> tools: a literature review. <i>Nanotoxicology</i> , 2020, 14, 612-637.	1.6	51
8	Sustainable nanotechnology decision support system: bridging risk management, sustainable innovation and risk governance. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	50
9	Machine learning prediction of nanoparticle <i>in vitro</i> toxicity: A comparative study of classifiers and ensemble-classifiers using the Copeland Index. <i>Toxicology Letters</i> , 2019, 312, 157-166.	0.4	48
10	From semi to fully autonomous vehicles: New emerging risks and ethico-legal challenges for human-machine interactions. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2019, 63, 153-164.	1.8	48
11	Autonomous Vehicles and Avoiding the Trolley (Dilemma): Vehicle Perception, Classification, and the Challenges of Framing Decision Ethics. <i>Cybernetics and Systems</i> , 2020, 51, 59-80.	1.6	38
12	The insurability of nanomaterial production risk. <i>Nature Nanotechnology</i> , 2013, 8, 222-224.	15.6	35
13	Semi-autonomous vehicle motor insurance: A Bayesian Network risk transfer approach. <i>Transportation Research Part C: Emerging Technologies</i> , 2017, 82, 124-137.	3.9	34
14	A Machine Learning Tool to Predict the Antibacterial Capacity of Nanoparticles. <i>Nanomaterials</i> , 2021, 11, 1774.	1.9	33
15	Predicting <i>In Vitro</i> Neurotoxicity Induced by Nanoparticles Using Machine Learning. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5280.	1.8	30
16	End-to-End Autonomous Driving Risk Analysis: A Behavioural Anomaly Detection Approach. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021, 22, 1650-1662.	4.7	29
17	A Tractable Method for Measuring Nanomaterial Risk Using Bayesian Networks. <i>Nanoscale Research Letters</i> , 2016, 11, 503.	3.1	28
18	Application of Bayesian networks in determining nanoparticle-induced cellular outcomes using transcriptomics. <i>Nanotoxicology</i> , 2019, 13, 827-848.	1.6	28

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19	Risk Governance of Emerging Technologies Demonstrated in Terms of its Applicability to Nanomaterials. <i>Small</i> , 2020, 16, e2003303.	5.2	28
20	The Essential Elements of a Risk Governance Framework for Current and Future Nanotechnologies. <i>Risk Analysis</i> , 2018, 38, 1321-1331.	1.5	27
21	A quantitative bow-tie cyber risk classification and assessment framework. <i>Journal of Risk Research</i> , 2021, 24, 1619-1638.	1.4	24
22	Impact and effectiveness of risk mitigation strategies on the insurability of nanomaterial production: evidences from industrial case studies. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2015, 7, 839-855.	3.3	23
23	Artificial Driving Intelligence and Moral Agency: Examining the Decision Ontology of Unavoidable Road Traffic Accidents through the Prism of the Trolley Dilemma. <i>Applied Artificial Intelligence</i> , 2019, 33, 267-293.	2.0	22
24	Smartphone Use While Driving: An Investigation of Young Novice Driver (YND) Behaviour. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2021, 77, 209-220.	1.8	22
25	Reduction of Health Care-Associated Infections (HAIs) with Antimicrobial Inorganic Nanoparticles Incorporated in Medical Textiles: An Economic Assessment. <i>Nanomaterials</i> , 2020, 10, 999.	1.9	21
26	Semiautonomous Vehicle Risk Analysis: A Telematics-Based Anomaly Detection Approach. <i>Risk Analysis</i> , 2019, 39, 1125-1140.	1.5	19
27	Hazard Screening Methods for Nanomaterials: A Comparative Study. <i>International Journal of Molecular Sciences</i> , 2018, 19, 649.	1.8	18
28	Spatial risk modelling of behavioural hotspots: Risk-aware path planning for autonomous vehicles. <i>Transportation Research, Part A: Policy and Practice</i> , 2020, 134, 152-163.	2.0	18
29	Anticipatory Ethics and Governance (AEG): Towards a Future Care Orientation Around Nanotechnology. <i>NanoEthics</i> , 2015, 9, 123-136.	0.5	17
30	Forecasting implied volatility in foreign exchange markets: a functional time series approach. <i>European Journal of Finance</i> , 2018, 24, 1-18.	1.7	16
31	The impact of autonomous vehicle technologies on product recall risk. <i>International Journal of Production Research</i> , 2019, 57, 6264-6277.	4.9	16
32	Insuring nanotech requires effective risk communication. <i>Nature Nanotechnology</i> , 2017, 12, 717-719.	15.6	15
33	Applying crash data to injury claims - an investigation of determinant factors in severe motor vehicle accidents. <i>Accident Analysis and Prevention</i> , 2018, 113, 244-256.	3.0	15
34	ASINA Project: Towards a Methodological Data-Driven Sustainable and Safe-by-Design Approach for the Development of Nanomaterials. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 805096.	2.0	15
35	Cars and distraction: How to address the limits of Driver Monitoring Systems and improve safety benefits using evidence from German young drivers. <i>Technology in Society</i> , 2021, 66, 101628.	4.8	14
36	Outperformance in exchange-traded fund pricing deviations: Generalized control of data snooping bias. <i>Journal of Financial Markets</i> , 2014, 19, 86-109.	0.7	13

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37	Artificial intelligence assistants and risk: framing a connectivity risk narrative. <i>AI and Society</i> , 2020, 35, 625-634.	3.1	13
38	Exploring the role of delta-V in influencing occupant injury severities – A mediation analysis approach to motor vehicle collisions. <i>Accident Analysis and Prevention</i> , 2020, 142, 105577.	3.0	11
39	The forecasting efficiency of the dynamic Nelson Siegel model on credit default swaps. <i>Research in International Business and Finance</i> , 2014, 30, 348-368.	3.1	10
40	Engineered nanomaterials: risk perception, regulation and insurance. <i>Journal of Risk Research</i> , 2016, 19, 444-460.	1.4	10
41	Comparing mental models of prospective users of the sustainable nanotechnology decision support system. <i>Environment Systems and Decisions</i> , 2017, 37, 465.	1.9	10
42	Driving to a future without accidents? Connected automated vehicles™ impact on accident frequency and motor insurance risk. <i>Environment Systems and Decisions</i> , 2019, 39, 383-395.	1.9	10
43	A new version of the Behaviour of Young Novice Drivers Scale (BYNDS). Insights from a randomised sample of 700 German young novice drivers.. <i>Accident Analysis and Prevention</i> , 2020, 145, 105622.	3.0	10
44	Surveillance and privacy – Beyond the panopticon. An exploration of 720-degree observation in level 3 and 4 vehicle automation. <i>Technology in Society</i> , 2021, 66, 101667.	4.8	10
45	Data Shepherding in Nanotechnology. The Exposure Field Campaign Template. <i>Nanomaterials</i> , 2021, 11, 1818.	1.9	9
46	From Traditional to Autonomous Vehicles: A Systematic Review of Data Availability. <i>Transportation Research Record</i> , 2022, 2676, 161-193.	1.0	9
47	Data Shepherding in Nanotechnology. The Initiation. <i>Nanomaterials</i> , 2021, 11, 1520.	1.9	8
48	Empowering citizens in international governance of nanotechnologies. <i>Journal of Nanoparticle Research</i> , 2015, 17, 215.	0.8	7
49	An analysis of implied volatility jump dynamics: Novel functional data representation in crude oil markets. <i>North American Journal of Economics and Finance</i> , 2015, 33, 199-216.	1.8	7
50	The valuation and information content of options on crude-oil futures contracts. <i>Review of Derivatives Research</i> , 2015, 18, 95-106.	0.6	6
51	Connected and autonomous vehicle injury loss events: Potential risk and actuarial considerations for primary insurers. <i>Risk Management and Insurance Review</i> , 2021, 24, 5-35.	0.4	6
52	A Supervised Machine-Learning Prediction of Textile™s Antimicrobial Capacity Coated with Nanomaterials. <i>Coatings</i> , 2021, 11, 1532.	1.2	6
53	The Role of Market Participants in Agricultural Futures Markets. <i>Outlook on Agriculture</i> , 2015, 44, 97-108.	1.8	5
54	Regulatory and Technical Constraints: An Overview of the Technical Possibilities and Regulatory Limitations of Vehicle Telematic Data. <i>Sensors</i> , 2021, 21, 3517.	2.1	5

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55	Associations between mobility patterns and COVID-19 deaths during the pandemic: A network structure and rank propagation modelling approach. <i>Array</i> , 2021, 11, 100075.	2.5	5
56	Dynamic communication and perception of cyber risk: Evidence from big data in media. <i>Computers in Human Behavior</i> , 2021, 122, 106851.	5.1	4
57	The link between jet fuel prices, carbon credits and airline firm value. <i>Journal of Energy Markets</i> , 2013, 6, 83-97.	0.2	4
58	Interest rate dynamics and volatility transmission in the European short term interest rate market. <i>Journal of Economics and Finance</i> , 2016, 40, 754-772.	0.8	3
59	Reasonable, Adequate and Efficient Allocation of Liability Costs for Automated Vehicles: A Case Study of the German Liability and Insurance Framework. <i>European Journal of Risk Regulation</i> , 2018, 9, 548-563.	0.8	3
60	The risk perception of nanotechnology: evidence from twitter. <i>RSC Advances</i> , 2022, 12, 11021-11031.	1.7	3
61	Financial Globalisation, State Autonomy and Modern Financial Instruments: The Case of Brazil. <i>Globalizations</i> , 2009, 6, 433-449.	1.9	2
62	Jumps in Euribor and the effect of ECB monetary policy announcements. <i>Environment Systems and Decisions</i> , 2016, 36, 142-157.	1.9	2
63	Predicting Nanomaterials toxicity pathways based on genome-wide transcriptomics studies using Bayesian networks. , 2018, , .		2
64	Exploring the price of motor vehicle collisions â€“ A compensation cost approach. <i>Transportation Research Interdisciplinary Perspectives</i> , 2020, 4, 100097.	1.6	2
65	A vector-autoregression analysis of credit and liquidity factor dynamics in US LIBOR and Euribor swap markets. <i>Journal of Economics and Finance</i> , 2012, 36, 351-370.	0.8	1
66	Using extracted forward rate term structure information to forecast foreign exchange rates. <i>Journal of Empirical Finance</i> , 2019, 53, 1-14.	0.9	1
67	Risk-adequate motor underwriting of automated vehicles: a qualitative evaluation using German focus groups. <i>Environment Systems and Decisions</i> , 2021, 41, 189.	1.9	1
68	Forecasting Implied Volatility in Foreign Exchange Markets: A Robust Functional Linear Model Approach. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
69	The ELD: Applicability to Nanotechnology Risk and the Liability Implications of Environmental Damage. <i>European Journal of Risk Regulation</i> , 2017, 8, 140-157.	0.8	0
70	Extracting Forward Rate Term Structure Information in Foreign Exchange. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
71	Nanomaterial and Nanotechnology Firms: A Typology. <i>Innovation, Technology and Knowledge Management</i> , 2016, , 9-28.	0.4	0
72	A Bayesian Regression Methodology for Correlating Noisy Hazard and Structural Alert Parameters of Nanomaterials. <i>Innovation, Technology and Knowledge Management</i> , 2016, , 197-218.	0.4	0

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73	Precaution as a Risk in Data Gaps and Sustainable Nanotechnology Decision Support Systems: a Case Study of Nano-Enabled Textiles Production. NanoEthics, 2021, 15, 245-270.	0.5	0