Nirajan Shiwakoti

List of Publications by Year
in descending order

90 papers	2,429 citations	201575 27 h-index	243529 44 g-index
91 all docs	91 docs citations	91 times ranked	1232 citing authors

#	Article	IF	Citations
1	Passengers' perception of safety and its relationship with demographics, service quality, satisfaction and loyalty in airlines sector - A case study of Vietnam to Australia route. Transport Policy, 2022, 124, 194-202.	3.4	12
2	A conceptual system dynamics model for cybersecurity assessment of connected and autonomous vehicles. Accident Analysis and Prevention, 2022, 165, 106515.	3.0	26
3	Application of geographical information system and agent-based modeling to estimate particle-gaseous pollutant emissions and transportation cost of woody biomass supply chain. Applied Energy, 2022, 309, 118482.	5.1	13
4	Using ordered and unordered logistic regressions to investigate risk factors associated with pedestrian crash injury severity in Victoria, Australia. Journal of Safety Research, 2022, 81, 78-90.	1.7	30
5	Palm oil biomass global supply chain: environmental emissions vs. technology development of maritime transportation. Procedia CIRP, 2022, 105, 817-822.	1.0	10
6	Evaluating Rainy Weather Effects on Driving Behaviour Dimensions of Driving Behaviour Questionnaire. Journal of Advanced Transportation, 2022, 2022, 1-10.	0.9	6
7	A Clustering Approach to Identify High-Risk Taxi Drivers Based on Self-Reported Driving Behavior. Journal of Advanced Transportation, 2022, 2022, 1-16.	0.9	3
8	Agricultural biomass supply chain resilience: COVID-19 outbreak vs. sustainability compliance, technological change, uncertainties, and policies. Cleaner Logistics and Supply Chain, 2022, 4, 100049.	3.1	10
9	State-of-the-Art of Factors Affecting the Adoption of Automated Vehicles. Sustainability, 2022, 14, 6697.	1.6	10
10	Examining the effects of exit layout designs on children pedestrians' exit choice. Physica A: Statistical Mechanics and Its Applications, 2022, 602, 127654.	1.2	3
11	Environmental emissions and cost vs. intermodal transportation technological development trade-off for the design of woody biomass supply chain. Procedia CIRP, 2022, 109, 134-139.	1.0	3
12	Use-stage life cycle greenhouse gas emissions of the transition to an autonomous vehicle fleet: A System Dynamics approach. Journal of Cleaner Production, 2021, 278, 123447.	4.6	21
13	Verifying the applicability of a pedestrian simulation model to reproduce the effect of exit design on egress flow under normal and emergency conditions. Physica A: Statistical Mechanics and Its Applications, 2021, 562, 125347.	1.2	13
14	Incentive-based experiments to characterize pedestrians' evacuation behaviors under limited visibility. Safety Science, 2021, 133, 105013.	2.6	23
15	Data mining approach to model bus crash severity in Australia. Journal of Safety Research, 2021, 76, 73-82.	1.7	41
16	Investigation on the impact of walkways slope and pedestrians physical characteristics on pedestrians normal walking and jogging speeds. Safety Science, 2021, 133, 105012.	2.6	26
17	ERP-based lean systems and their impact on performance: the system dynamics approach for a maturity model. International Journal of Industrial and Systems Engineering, 2021, 37, 334.	0.1	0
18	Evaluating Safety Issues for Taxi Transport Management. Journal of Advanced Transportation, 2021, 2021, 1-14.	0.9	4

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19	Simulation Scenario Analysis of Operational Day to Day Storage System of Biomass Supply Chain for a Power Plant Case Study Based on Logistic Cost and Transportation Emissions. , 2021, , .		1
20	Site characteristics associated with multi-modal trip generation rates at residential developments. Transport Policy, 2021, 103, 127-145.	3.4	7
21	Observational-based study to explore pedestrian crossing behaviors at signalized and unsignalized crosswalks. Accident Analysis and Prevention, 2021, 151, 105990.	3.0	50
22	Sustainable and Resilient Transport Infrastructure. Journal of Advanced Transportation, 2021, 2021, 1-2.	0.9	2
23	Modelling bus-pedestrian crash severity in the state of Victoria, Australia. International Journal of Injury Control and Safety Promotion, 2021, 28, 233-242.	1.0	20
24	Using latent class clustering and binary logistic regression to model Australian cyclist injury severity in motor vehicle–bicycle crashes. Journal of Safety Research, 2021, 79, 246-256.	1.7	26
25	Assessing a priori acceptance of shared dockless e-scooters in Iran. Transportation Research, Part D: Transport and Environment, 2021, 100, 103042.	3.2	18
26	Particle-Gaseous pollutant emissions and cost of global biomass supply chain via maritime transportation: Full-scale synergy model. Applied Energy, 2021, 303, 117687.	5.1	16
27	Would walking hand-in-hand increase the traffic efficiency of children pedestrian flow?. Physica A: Statistical Mechanics and Its Applications, 2021, 583, 126332.	1.2	2
28	Lean construction analysis of concrete pouring process using value stream mapping and Arena based simulation model. Materials Today: Proceedings, 2021, 42, 1279-1286.	0.9	7
29	Economic and environmental assessment of biomass supply chain for design of transportation modes: strategic and tactical decisions point of view. Procedia CIRP, 2021, 100, 780-785.	1.0	12
30	Review on Lane Detection and Tracking Algorithms of Advanced Driver Assistance System. Sustainability, 2021, 13, 11417.	1.6	13
31	Effects of COVID-19 on rail passengers' crowding perceptions. Transportation Research, Part A: Policy and Practice, 2021, 154, 186-202.	2.0	27
32	Security assessment in Vehicle-to-Everything communications with the integration of 5G and 6G networks. , 2021, , .		6
33	Development, testing, and evaluation of road safety poster to reduce jaywalking behavior at intersections. Cognition, Technology and Work, 2020, 22, 389-397.	1.7	11
34	A 'role-rule' model to examine passengers' likely behaviour and their perceived ability to evacuate safely from airport in an emergency evacuation. Safety Science, 2020, 124, 104584.	2.6	15
35	Biomass supply chain environmental and socio-economic analysis: 40-Years comprehensive review of methods, decision issues, sustainability challenges, and the way forward. Biomass and Bioenergy, 2020, 142, 105777.	2.9	79
36	In an emergency evacuation situation what would you do?. Transportation Research Procedia, 2020, 48, 860-869.	0.8	2

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37	Projection of Greenhouse Gas Emissions for the Road Transport Sector Based on Multivariate Regression and the Double Exponential Smoothing Model. Sustainability, 2020, 12, 9152.	1.6	35
38	Transportation system analysis of empty fruit bunches biomass supply chain based on delivery cost and greenhouse gas emissions. Procedia Manufacturing, 2020, 51, 1717-1722.	1.9	12
39	Investigating the state of connected and autonomous vehicles: a literature Review. Transportation Research Procedia, 2020, 48, 870-882.	0.8	17
40	Lean manufacturing analysis of a Heater industry based on value stream mapping and computer simulation. Procedia Manufacturing, 2020, 51, 1379-1386.	1.9	9
41	Cyber-attacks in the next-generation cars, mitigation techniques, anticipated readiness and future directions. Accident Analysis and Prevention, 2020, 148, 105837.	3.0	68
42	Water-energy nexus and greenhouse gasâ€"sulfur oxides embodied emissions of biomass supply and production system: A large scale analysis using combined life cycle and dynamic simulation approach. Energy Conversion and Management, 2020, 220, 113113.	4.4	24
43	A Review on Water-Energy-Greenhouse Gas Nexus of the Bioenergy Supply and Production System. Current Sustainable/Renewable Energy Reports, 2020, 7, 28-39.	1.2	18
44	Effect of Intersecting Angle on Pedestrian Crowd Flow under Normal and Evacuation Conditions. Sustainability, 2020, 12, 1301.	1.6	8
45	Supply chain collaboration and performance: an empirical study of maturity model. SN Applied Sciences, 2020, 2, 1.	1.5	7
46	A multinomial logit model of motorcycle crash severity at Australian intersections. Journal of Safety Research, 2020, 73, 17-24.	1.7	85
47	Passengersâ€™ Perceptions of Security Check in Metro Stations. Sustainability, 2019, 11, 2930.	1.6	9
48	An investigation of the environmental sustainability of palm biomass supply chains via dynamic simulation modeling: A case of Malaysia. Journal of Cleaner Production, 2019, 237, 117740.	4.6	43
49	Examining passengersâ€™ perceptions and awareness of emergency wayfinding and procedure in airports. Safety Science, 2019, 118, 805-813.	2.6	15
50	An analysis of core functions offered by software packages aimed at the supply chain management software market. Computers and Industrial Engineering, 2019, 138, 106116.	3.4	12
51	Exploring how perceptive differences impact the current public transport usage and support for future public transport extension and usage: A case study of Melbourne's tramline extension. Transport Policy, 2019, 84, 12-23.	3.4	14
52	Examining effect of architectural adjustment on pedestrian crowd flow at bottleneck. Physica A: Statistical Mechanics and Its Applications, 2019, 522, 350-364.	1.2	93
53	A Literature Review of Supply Chain Collaboration Mechanisms and Their Impact on Performance. EMJ - Engineering Management Journal, 2019, 31, 47-68.	1.4	31
54	Application of a Adaptive Neuro-Fuzzy Technique for Projection of the Greenhouse Gas Emissions from Road Transportation. Sustainability, 2019, 11, 6346.	1.6	6

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55	A review on the performance of an obstacle near an exit on pedestrian crowd evacuation. Safety Science, 2019, 113, 54-67.	2.6	98
56	Passengers' perceived ability to get out safely from an underground train station in an emergency situation. Cognition, Technology and Work, 2018, 20, 367-375.	1.7	19
57	Estimating Pedestrian Walking Characteristics by Use of Smartphone Sensing: An Experimental Study. , 2018, , .		1
58	MEASURING THE PUBLIC ACCEPTANCE OF URBAN CONGESTION-PRICING: A SURVEY IN MELBOURNE (AUSTRALIA). Transport, 2018, 33, 902-912.	0.6	10
59	A State-of-the-Art Review on Empirical Data Collection for External Governed Pedestrians Complex Movement. Journal of Advanced Transportation, 2018, 2018, 1-42.	0.9	32
60	Likely behaviours of passengers under emergency evacuation in train station. Safety Science, 2017, 91, 40-48.	2.6	84
61	Supply chain collaboration â€" A case study of textile and apparel industry. , 2017, , .		5
62	Maturity model for supply chain collaboration: CMMI approach. , 2016, , .		7
63	Understanding differences in emergency escape and experimental pedestrian crowd egress through quantitative comparison. International Journal of Disaster Risk Reduction, 2016, 20, 129-137.	1.8	28
64	Empirical investigation on safety constraints of merging pedestrian crowd through macroscopic and microscopic analysis. Accident Analysis and Prevention, 2016, 95, 405-416.	3.0	64
65	Video-based analysis of school students' emergency evacuation behavior in earthquakes. International Journal of Disaster Risk Reduction, 2016, 18, 1-11.	1.8	56
66	Passengers' awareness and perceptions of way finding tools in a train station. Safety Science, 2016, 87, 179-185.	2.6	33
67	Controlled Experiments to Examine Different Exit Designs on Crowd Evacuation Dynamics. , 2016, , .		11
68	Economic Viability of Bus Bridging Reserves for Fast Response to Unplanned Passenger Rail Disruption. Transportation Research Record, 2015, 2537, 13-22.	1.0	13
69	A Review of Experimental Studies on Complex Pedestrian Movement Behaviors. , 2015, , .		15
70	Examining influence of merging architectural features on pedestrian crowd movement. Safety Science, 2015, 75, 15-22.	2.6	85
71	Pedestrian Walking Characteristics through Angled Corridors. Transportation Research Record, 2014, 2421, 41-50.	1.0	38
72	International Study of Current and Potential Social Media Applications in Unplanned Passenger Rail Disruptions. Transportation Research Record, 2014, 2419, 118-127.	1.0	12

#	ARTICLE	IF	CITATIONS
73	Examining the Impact of Different Turning Angles on the Collective Egress of Crowds. Journal of Transportation Safety and Security, 2014, 6, 167-181.	1.1	12
74	Congestion Pricing with Distance Tolls: A Review and New Developments. , 2014, , .		2
75	Social Media Use during Unplanned Transit Network Disruptions: A Review of Literature. Transport Reviews, 2014, 34, 501-521.	4.7	63
76	Similar Crowd Behavior in Organisms of Vastly Different Body Size. Journal of Insect Behavior, 2014, 27, 239-250.	0.4	6
77	Using non-human biological entities to understand pedestrian crowd behaviour under emergency conditions. Safety Science, 2014, 66, 1-8.	2.6	48
78	Understanding public response to a congestion charge: A random-effects ordered logit approach. Transportation Research, Part A: Policy and Practice, 2014, 70, 117-134.	2.0	35
79	Improving bus bridging responses via satellite bus reserve locations. Journal of Transport Geography, 2014, 34, 202-210.	2.3	19
80	Investigating collective escape behaviours in complex situations. Safety Science, 2013, 60, 87-94.	2.6	68
81	Understanding pedestrian crowd panic: a review on model organisms approach. Journal of Transport Geography, 2013, 26, 12-17.	2.3	52
82	Enhancing the panic escape of crowd through architectural design. Transportation Research Part C: Emerging Technologies, 2013, 37, 260-267.	3.9	92
83	Disruption Recovery in Passenger Railways. Transportation Research Record, 2013, 2353, 22-32.	1.0	57
84	Turning Angle Effect on Emergency Egress: Experimental Evidence and Pedestrian Crowd Simulation. Transportation Research Record, 2012, 2312, 120-127.	1.0	26
85	Animal dynamics based approach for modeling pedestrian crowd egress under panic conditions. Transportation Research Part B: Methodological, 2011, 45, 1433-1449.	2.8	103
86	Consequence of Turning Movements in Pedestrian Crowds during Emergency Egress. Transportation Research Record, 2011, 2234, 97-104.	1.0	28
87	Animal dynamics based approach for modeling pedestrian crowd egress under panic conditions. Procedia, Social and Behavioral Sciences, 2011, 17, 438-461.	0.5	28
88	Biologically Inspired Modeling Approach for Collective Pedestrian Dynamics under Emergency Conditions. Transportation Research Record, 2010, 2196, 176-184.	1.0	31
89	Nest architecture and traffic flow: large potential effects from small structural features. Ecological Entomology, 2010, 35, 464-468.	1.1	17
90	Enhancing the Safety of Pedestrians during Emergency Egress. Transportation Research Record, 2009, 2137, 31-37.	1.0	54