Ankit Gupta

List of Publications by Year
in descending order

106 papers	2,124 citations	304743 22 h-index	289244 40 g-index
116 all docs	116 docs citations	116 times ranked	2133 citing authors

#	Article	IF	Citations
1	Adaptive traffic signal control for developing countries using fused parameters derived from crowd-source data. Transportation Letters, 2023, 15, 296-307.	3.1	2
2	Evaluation of driver Acceleration/Deceleration behavior at signalized intersections using vehicle trajectory data. Transportation Letters, 2023, 15, 350-362.	3.1	10
3	Predicting pedestrian crash locations in urban India: An integrated GIS-based spatiotemporal HSID technique. Journal of Transportation Safety and Security, 2023, 15, 103-136.	1.6	7
4	Is safe distance enough to prevent COVID-19? Dispersion and tracking of aerosols in various artificial ventilation conditions using OpenFOAM. Gondwana Research, 2023, 114, 40-54.	6.0	7
5	Effect of analysis procedure and sample geometry on the fatigue life results of asphalt mastics from linear amplitude sweep test. Mechanics of Time-Dependent Materials, 2023, 27, 1097-1121.	4.4	4
6	Performance evaluation of bauxite residue modified asphalt concrete mixes. European Journal of Environmental and Civil Engineering, 2022, 26, 978-994.	2.1	14
7	An optimised approach for saturation flow estimation of signalised intersections. Proceedings of the Institution of Civil Engineers: Transport, 2022, 175, 137-149.	0.6	7
8	Analysing the influence of industrial waste fillers on the ageing susceptibility of asphalt concrete. International Journal of Pavement Engineering, 2022, 23, 3906-3919.	4.4	4
9	High, intermediate and low temperature performance appraisal of elastomeric and plastomeric asphalt binders and mixes. Journal of Elastomers and Plastics, 2022, 54, 225-246.	1.5	7
10	Quantitative prioritization of potentially critical glacial Lakes in the Indus River basin using satellite derived parameters. Geocarto International, 2022, 37, 7508-7530.	3.5	8
11	Updated Glacial Lake Inventory of Indus River Basin based on High-Resolution Indian Remote Sensing Satellite Data. Journal of the Indian Society of Remote Sensing, 2022, 50, 73-98.	2.4	2
12	Evidence for reduced performance discrepancy of improved cookstoves at laboratory and field. Air Quality, Atmosphere and Health, 2022, 15, 633-644.	3.3	5
13	Valuation of environmental damages of Kasardi River: a case for benefits of timely action. Proceedings of the Indian National Science Academy, 2022, 88, 80-89.	1.4	1
14	Two-Step Optimization Model for Evaluating the Saturation Flow Rate under the Impact of Small-Sized Vehicles. Journal of Transportation Engineering Part A: Systems, 2022, 148, .	1.4	4
15	Contribution of mineral filler to the fatigue damage behaviour of bituminous mastic. Construction and Building Materials, 2022, 334, 127120.	7.2	5
16	Comparing different fatigue test methods at asphalt mastic level. Materials and Structures/Materiaux Et Constructions, 2022, 55, .	3.1	7
17	Stochastic filtering for multiscale stochastic reaction networks based on hybrid approximations. Journal of Computational Physics, 2022, 467, 111441.	3.8	6
18	Understanding COVID-19 transmission through Bayesian probabilistic modeling and GIS-based Voronoi approach: a policy perspective. Environment, Development and Sustainability, 2021, 23, 5846-5864.	5.0	53

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19	The probability distribution of the ancestral population size conditioned on the reconstructed phylogenetic tree with occurrence data. Journal of Theoretical Biology, 2021, 509, 110400.	1.7	12
20	Air pollution aggravating COVID-19 lethality? Exploration in Asian cities using statistical models. Environment, Development and Sustainability, 2021, 23, 6408-6417.	5.0	126
21	COVID-19 Creating another problem? Sustainable solution for PPE disposal through LCA approach. Environment, Development and Sustainability, 2021, 23, 9418-9432.	5.0	82
22	Impact assessment of clean cookstove intervention in Gujarat, India: a potential case for corporate social responsibility (CSR) funding. Environmental Science and Pollution Research, 2021, 28, 12740-12752.	5.3	5
23	Investigation of Adoption and Cognizance of Urban Green Spaces in India: Post COVID-19 Scenarios. Current Research in Environmental Sustainability, 2021, 3, 100088.	3.5	16
24	Potential utilization of construction wastes in asphalt pavements as fillers using ranking framework. Construction and Building Materials, 2021, 277, 122262.	7.2	16
25	Evaluation of engineering, economic and environmental suitability of waste filler incorporated asphalt mixes and pavements. Road Materials and Pavement Design, 2021, 22, S624-S640.	4.0	17
26	Non-Linear Evaluation Model to Analyze Saturation Flow under Weak-Lane-Disciplined Mixed Traffic Stream. Transportation Research Record, 2021, 2675, 422-431.	1.9	7
27	A study of topological structures on equi-continuous mappings. Proyecciones, 2021, 40, 335-354.	0.3	1
28	Assessment and valuation of health impacts of fine particulate matter during COVID-19 lockdown: a comprehensive study of tropical and sub tropical countries. Environmental Science and Pollution Research, 2021, 28, 44522-44537.	5.3	23
29	Speed distribution for interrupted flow facility under mixed traffic. Physica A: Statistical Mechanics and Its Applications, 2021, 570, 125798.	2.6	13
30	A Note on the Generalized Nonlinear Vector Variational-Like Inequality Problem. Journal of Function Spaces, 2021, 2021, 1-7.	0.9	7
31	Introduction of a New Parameter to Quantify the Fatigue Damage in Asphalt Mastics and Asphalt Binder. Coatings, 2021, 11, 828.	2.6	4
32	Review of Factors Controlling Skid Resistance at Tire-Pavement Interface. Advances in Civil Engineering, 2021, 2021, 1-16.	0.7	9
33	Utilization of Waste Glass Powder and Glass Composite Fillers in Asphalt Pavements. Advances in Civil Engineering, 2021, 2021, 1-17.	0.7	13
34	DeepCME: A deep learning framework for computing solution statistics of the chemical master equation. PLoS Computational Biology, 2021, 17, e1009623.	3.2	17
35	Effect of filler on the bitumen-aggregate adhesion in asphalt mix. International Journal of Pavement Engineering, 2020, 21, 1482-1490.	4.4	35
36	Use of dimension limestone sludge as filler in asphalt mix. Proceedings of Institution of Civil Engineers: Construction Materials, 2020, , 1-11.	1.1	5

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37	A review of methodological approaches for saturation flow estimation at signalized intersections. Canadian Journal of Civil Engineering, 2020, 47, 237-247.	1.3	10
38	Analysis of the Extreme Rainfall Events Over Upper Catchment of Sabarmati River Basin in Western India Using Extreme Precipitation Indices. Lecture Notes in Civil Engineering, 2020, , 103-111.	0.4	4
39	Utilization of solid waste materials as alternative fillers in asphalt mixes: A review. Construction and Building Materials, 2020, 234, 117271.	7.2	107
40	Development of a practical evaluation approach of a typical biomass cookstove. Environmental Technology and Innovation, 2020, 17, 100613.	6.1	28
41	The probability distribution of the reconstructed phylogenetic tree with occurrence data. Journal of Theoretical Biology, 2020, 488, 110115.	1.7	13
42	Assessing urban sidewalk networks based on three constructs: a synthesis of pedestrian level of service literature. Transport Reviews, 2020, 40, 204-240.	8.8	28
43	Feasible utilization of waste limestone sludge as filler in bituminous concrete. Construction and Building Materials, 2020, 239, 117781.	7.2	32
44	A bench scale study on the startup, performance and optimization of the biological degradation of obnoxious air containing trimethylamine. Journal of Environmental Chemical Engineering, 2020, 8, 103529.	6.7	4
45	Exploring dependence of COVID-19 on environmental factors and spread prediction in India. Npj Climate and Atmospheric Science, 2020, 3, .	6.8	46
46	Understanding air and water borne transmission and survival of coronavirus: Insights and way forward for SARS-CoV-2. Science of the Total Environment, 2020, 749, 141486.	8.0	45
47	Queue-Based Headway Distribution Models at Signal Controlled Intersection under Mixed Traffic. Transportation Research Record, 2020, 2674, 768-778.	1.9	11
48	Spectral characteristics of talc and mineral abundance mapping in the Jahazpur Belt of Rajasthan, India using AVIRIS-NG data. International Journal of Remote Sensing, 2020, 41, 8757-8777.	2.9	7
49	Valuation of air pollution externalities: comparative assessment of economic damage and emission reduction under COVID-19 lockdown. Air Quality, Atmosphere and Health, 2020, 13, 683-694.	3.3	104
50	Morphologically designed micro porous zeolite-geopolymers as cool coating materials. Journal of Hazardous Materials, 2020, 398, 123022.	12.4	8
51	Development of a rainfall Stability Index using probabilistic indicators. Ecological Indicators, 2020, 115, 106406.	6.3	4
52	Evaluation of the SWAT Model for Analysing the Water Balance Components for the Upper Sabarmati Basin. Lecture Notes in Civil Engineering, 2020, , 141-151.	0.4	14
53	Experimental Investigation of Waste Glass Powder as Filler in Asphalt Concrete Mixes. Lecture Notes in Civil Engineering, 2020, , 261-270.	0.4	3
54	A study of uniformities on the space of uniformly continuous mappings. Open Mathematics, 2020, 18, 1478-1490.	1.0	2

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55	Assessment of Saturation Flow at Signalized Intersections: A Synthesis of Global Perspective and Future Directions. Current Science, 2020, 119, 32.	0.8	4
56	Discharge Characteristics Analysis of Queued-up Vehicles at Signal-Controlled Intersections Under Heterogeneous Traffic Conditions. International Journal of Civil Engineering, 2019, 17, 619-628.	2.0	14
57	Optimal proportioning of grout constituents using mathematical programming for semi flexible pavement. International Journal of Pavement Research and Technology, 2019, 12, 297-306.	2.6	15
58	Development of hierarchical ranking strategy for the asphalt skeleton in semi-flexible pavement. Construction and Building Materials, 2019, 201, 149-158.	7.2	33
59	A high performance biological degradation of trimethylamine: Experimental study and mathematical modeling. Journal of Environmental Chemical Engineering, 2019, 7, 103292.	6.7	8
60	Evaluation of best management practices for sediment and nutrient loss control using SWAT model. Soil and Tillage Research, 2019, 192, 42-58.	5.6	84
61	Comparative emission study by real-time congestion monitoring for stable pollution policy on temporal and meso-spatial regions in Delhi. Journal of Cleaner Production, 2019, 224, 465-478.	9.3	13
62	A finite state projection method for steady-state sensitivity analysis of stochastic reaction networks. Journal of Chemical Physics, 2019, 150, 134101.	3.0	4
63	FORA: An OWO based framework for finding outliers in web usage mining. Information Fusion, 2019, 48, 27-38.	19.1	6
64	Sensitivity Analysis for Multiscale Stochastic Reaction Networks Using Hybrid Approximations. Bulletin of Mathematical Biology, 2019, 81, 3121-3158.	1.9	7
65	Analysis of trend in temperature and rainfall time series of an Indian arid region: comparative evaluation of salient techniques. Theoretical and Applied Climatology, 2019, 136, 301-320.	2.8	61
66	Assessment of Vehicles Headway during Queue Dissipation at Signal-Controlled Intersection under Mixed Traffic. Current Science, 2019, 116, 437.	0.8	14
67	Wayside Train Monitoring Systems. , 2019, , 728-754.		0
68	Congestion Adaptive Traffic Light Control and Notification Architecture Using Google Maps APIs. Data, 2018, 3, 67.	2.3	18
69	Ranking the Rheological Response of SBS- and EVA-Modified Bitumen Using MSCR and LAS Tests. Journal of Materials in Civil Engineering, 2018, 30, .	2.9	52
70	Application of waste materials as fillers in bituminous mixes. Waste Management, 2018, 78, 417-425.	7.4	84
71	Wayside Train Monitoring Systems. Advances in Civil and Industrial Engineering Book Series, 2018, , 67-93.	0.2	0
72	Predicting Behavior of Passengers Using Data Collected Through Smart Cards. Advances in Civil and Industrial Engineering Book Series, 2018, , 127-156.	0.2	0

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73	Modelling U-Turning Behaviour of Vehicles at Mid-Block Median Openings in Multilane Urban Roads. Current Science, 2018, 114, 1461.	0.8	3
74	Going Private in Public: A study on shift in behavioral trend using Facebook. Computers in Human Behavior, 2017, 73, 55-63.	8.5	5
75	Estimation of passenger car unit for heterogeneous traffic stream of urban arterials: case study of Kolkata. Transportation Letters, 2017, , 1-13.	3.1	15
76	Spatial and Temporal Variability Analysis Using Modelled Precipitation Data in Upper Catchment of Chambal Basin. Springer Water, 2017, , 75-88.	0.3	4
77	A finite state projection algorithm for the stationary solution of the chemical master equation. Journal of Chemical Physics, 2017, 147, 154101.	3.0	49
78	Effect of Gradient on Pedestrian Flow Characteristics Under Mixed Flow Conditions. Transportation Research Procedia, 2017, 25, 4720-4732.	1.5	3
79	Comparison of ordinary and Bayesian kriging techniques in depicting rainfall variability in arid and semi-arid regions of north-west India. Environmental Earth Sciences, 2017, 76, 1.	2.7	54
80	Dynamic disorder in simple enzymatic reactions induces stochastic amplification of substrate. Journal of the Royal Society Interface, 2017, 14, 20170311.	3.4	12
81	A note on some generalized closure and interior operators in a topological space. Mathematics for Applications, 2017, 6, 11-20.	0.3	4
82	A study of function space topologies for multifunctions. Applied General Topology, 2017, 18, 331.	0.5	11
83	OWA Operator-Based Hybrid Framework for Outlier Reduction in Web Mining. International Journal of Intelligent Systems, 2016, 31, 947-962.	5.7	6
84	Biomass and lipid enhancement in Chlorella sp. with emphasis on biodiesel quality assessment through detailed FAME signature. Bioresource Technology, 2016, 201, 276-286.	9.6	23
85	An MCDM approach towards handling outliers in web data: a case study using OWA operators. Artificial Intelligence Review, 2016, 46, 59-82.	15.7	7
86	Investigation of adolescent accident predictive variables in hilly regions. International Journal of Injury Control and Safety Promotion, 2016, 23, 291-301.	2.0	6
87	A uniform approach to normality for topological spaces. Applied General Topology, 2016, 17, 7.	0.5	0
88	Critical Pavement Response Analysis of Low-Volume Pavements considering Nonlinear Behavior of Materials. Transportation Research Record, 2015, 2474, 3-11.	1.9	7
89	Recent trends in intelligent transportation systems: a review. Journal of Transport Literature, 2015, 9, 30-34.	0.3	69
90	Factors affecting road crash modeling. Journal of Transport Literature, 2015, 9, 15-19.	0.3	23

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91	Pedestrian Flow Characteristics Studies: A Review. Transport Reviews, 2015, 35, 445-465.	8.8	22
92	An Analytical Study of Ordered Weighted Geometric Averaging Operator on Web Data Set as a MCDM Problem. Advances in Intelligent Systems and Computing, 2015, , 585-597.	0.6	2
93	Mechanisticâ€"empirical approach for design of low volume pavements. International Journal of Pavement Engineering, 2015, 16, 797-808.	4.4	22
94	Analysis of aggregation operators in regression analysis. , 2015, , .		3
95	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mi>P</mml:mi><mml:mi>S</mml:mi></mml:math>-Regular Sets in Topology and Generalized Topology. Journal of Mathematics, 2014, 2014, 1-6.	1.0	3
96	An ordered weighted operator approach towards web usage mining. , 2014, , .		3
97	Modeling anonymous human behavior using social media. , 2014, , .		4
98	Critical review of flexible pavement performance models. KSCE Journal of Civil Engineering, 2014, 18, 142-148.	1.9	27
99	Effect of FRP wrapping on axial behavior of concrete and cyclic behavior of external RC beam column joints. KSCE Journal of Civil Engineering, 2014, 18, 566-573.	1.9	22
100	Hydrological inferences from watershed analysis for water resource management using remote sensing and GIS techniques. Egyptian Journal of Remote Sensing and Space Science, 2014, 17, 111-121.	2.0	151
101	Fuzzy information retrieval in WWW: a survey. International Journal of Advanced Intelligence Paradigms, 2014, 6, 272.	0.3	7
102	Comparative Structural Analysis of Flexible Pavements Using Finite Element Method. International Journal on Pavement Engineering & Asphalt Technology, 2014, 15, 11-19.	0.4	14
103	A Survey on Web Information Retrieval Inside Fuzzy Framework. Advances in Intelligent Systems and Computing, 2014, , 433-445.	0.6	8
104	PEDESTRIAN CROSSING BEHAVIOUR ANALYSIS AT INTERSECTIONS. International Journal for Traffic and Transport Engineering, 2014, 4, 103-116.	0.4	68
105	Performance of EDF-BF algorithm under QoS constraint in grid heterogeneous environment. , 2013, , .		1
106	Analytical Investigations on Short-Paneled Concrete Pavements Using Finite Element Analysis. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 0, , 1.	1.9	1