

# Ankit Gupta

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Hydrological inferences from watershed analysis for water resource management using remote sensing and GIS techniques. <i>Egyptian Journal of Remote Sensing and Space Science</i> , 2014, 17, 111-121.	2.0	151
2	Air pollution aggravating COVID-19 lethality? Exploration in Asian cities using statistical models. <i>Environment, Development and Sustainability</i> , 2021, 23, 6408-6417.	5.0	126
3	Utilization of solid waste materials as alternative fillers in asphalt mixes: A review. <i>Construction and Building Materials</i> , 2020, 234, 117271.	7.2	107
4	Valuation of air pollution externalities: comparative assessment of economic damage and emission reduction under COVID-19 lockdown. <i>Air Quality, Atmosphere and Health</i> , 2020, 13, 683-694.	3.3	104
5	Application of waste materials as fillers in bituminous mixes. <i>Waste Management</i> , 2018, 78, 417-425.	7.4	84
6	Evaluation of best management practices for sediment and nutrient loss control using SWAT model. <i>Soil and Tillage Research</i> , 2019, 192, 42-58.	5.6	84
7	COVID-19 Creating another problem? Sustainable solution for PPE disposal through LCA approach. <i>Environment, Development and Sustainability</i> , 2021, 23, 9418-9432.	5.0	82
8	Recent trends in intelligent transportation systems: a review. <i>Journal of Transport Literature</i> , 2015, 9, 30-34.	0.3	69
9	PEDESTRIAN CROSSING BEHAVIOUR ANALYSIS AT INTERSECTIONS. <i>International Journal for Traffic and Transport Engineering</i> , 2014, 4, 103-116.	0.4	68
10	Analysis of trend in temperature and rainfall time series of an Indian arid region: comparative evaluation of salient techniques. <i>Theoretical and Applied Climatology</i> , 2019, 136, 301-320.	2.8	61
11	Comparison of ordinary and Bayesian kriging techniques in depicting rainfall variability in arid and semi-arid regions of north-west India. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	2.7	54
12	Understanding COVID-19 transmission through Bayesian probabilistic modeling and GIS-based Voronoi approach: a policy perspective. <i>Environment, Development and Sustainability</i> , 2021, 23, 5846-5864.	5.0	53
13	Ranking the Rheological Response of SBS- and EVA-Modified Bitumen Using MSCR and LAS Tests. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	2.9	52
14	A finite state projection algorithm for the stationary solution of the chemical master equation. <i>Journal of Chemical Physics</i> , 2017, 147, 154101.	3.0	49
15	Exploring dependence of COVID-19 on environmental factors and spread prediction in India. <i>Npj Climate and Atmospheric Science</i> , 2020, 3, .	6.8	46
16	Understanding air and water borne transmission and survival of coronavirus: Insights and way forward for SARS-CoV-2. <i>Science of the Total Environment</i> , 2020, 749, 141486.	8.0	45
17	Effect of filler on the bitumen-aggregate adhesion in asphalt mix. <i>International Journal of Pavement Engineering</i> , 2020, 21, 1482-1490.	4.4	35
18	Development of hierarchical ranking strategy for the asphalt skeleton in semi-flexible pavement. <i>Construction and Building Materials</i> , 2019, 201, 149-158.	7.2	33

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19	Feasible utilization of waste limestone sludge as filler in bituminous concrete. Construction and Building Materials, 2020, 239, 117781.	7.2	32
20	Development of a practical evaluation approach of a typical biomass cookstove. Environmental Technology and Innovation, 2020, 17, 100613.	6.1	28
21	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
22	Critical review of flexible pavement performance models. KSCE Journal of Civil Engineering, 2014, 18, 142-148.	1.9	27
23	Factors affecting road crash modeling. Journal of Transport Literature, 2015, 9, 15-19.	0.3	23
24	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
25	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
26	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
27	Pedestrian Flow Characteristics Studies: A Review. Transport Reviews, 2015, 35, 445-465.	8.8	22
28	Mechanistic-empirical approach for design of low volume pavements. International Journal of Pavement Engineering, 2015, 16, 797-808.	4.4	22
29	Congestion Adaptive Traffic Light Control and Notification Architecture Using Google Maps APIs. Data, 2018, 3, 67.	2.3	18
30	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
31	DeepCME: A deep learning framework for computing solution statistics of the chemical master equation. PLoS Computational Biology, 2021, 17, e1009623.	3.2	17
32	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
33	Potential utilization of construction wastes in asphalt pavements as fillers using ranking framework. Construction and Building Materials, 2021, 277, 122262.	7.2	16
34	Estimation of passenger car unit for heterogeneous traffic stream of urban arterials: case study of Kolkata. Transportation Letters, 2017, , 1-13.	3.1	15
35	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
36	Comparative Structural Analysis of Flexible Pavements Using Finite Element Method. International Journal on Pavement Engineering & Asphalt Technology, 2014, 15, 11-19.	0.4	14

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37	Discharge Characteristics Analysis of Queued-up Vehicles at Signal-Controlled Intersections Under Heterogeneous Traffic Conditions. <i>International Journal of Civil Engineering</i> , 2019, 17, 619-628.	2.0	14
38	Performance evaluation of bauxite residue modified asphalt concrete mixes. <i>European Journal of Environmental and Civil Engineering</i> , 2022, 26, 978-994.	2.1	14
39	Evaluation of the SWAT Model for Analysing the Water Balance Components for the Upper Sabarmati Basin. <i>Lecture Notes in Civil Engineering</i> , 2020, , 141-151.	0.4	14
40	Assessment of Vehicles Headway during Queue Dissipation at Signal-Controlled Intersection under Mixed Traffic. <i>Current Science</i> , 2019, 116, 437.	0.8	14
41	Comparative emission study by real-time congestion monitoring for stable pollution policy on temporal and meso-spatial regions in Delhi. <i>Journal of Cleaner Production</i> , 2019, 224, 465-478.	9.3	13
42	The probability distribution of the reconstructed phylogenetic tree with occurrence data. <i>Journal of Theoretical Biology</i> , 2020, 488, 110115.	1.7	13
43	Speed distribution for interrupted flow facility under mixed traffic. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 570, 125798.	2.6	13
44	Utilization of Waste Glass Powder and Glass Composite Fillers in Asphalt Pavements. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-17.	0.7	13
45	Dynamic disorder in simple enzymatic reactions induces stochastic amplification of substrate. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170311.	3.4	12
46	The probability distribution of the ancestral population size conditioned on the reconstructed phylogenetic tree with occurrence data. <i>Journal of Theoretical Biology</i> , 2021, 509, 110400.	1.7	12
47	Queue-Based Headway Distribution Models at Signal Controlled Intersection under Mixed Traffic. <i>Transportation Research Record</i> , 2020, 2674, 768-778.	1.9	11
48	A study of function space topologies for multifunctions. <i>Applied General Topology</i> , 2017, 18, 331.	0.5	11
49	A review of methodological approaches for saturation flow estimation at signalized intersections. <i>Canadian Journal of Civil Engineering</i> , 2020, 47, 237-247.	1.3	10
50	Evaluation of driver Acceleration/Deceleration behavior at signalized intersections using vehicle trajectory data. <i>Transportation Letters</i> , 2023, 15, 350-362.	3.1	10
51	Review of Factors Controlling Skid Resistance at Tire-Pavement Interface. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-16.	0.7	9
52	A high performance biological degradation of trimethylamine: Experimental study and mathematical modeling. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103292.	6.7	8
53	Morphologically designed micro porous zeolite-geopolymers as cool coating materials. <i>Journal of Hazardous Materials</i> , 2020, 398, 123022.	12.4	8
54	Quantitative prioritization of potentially critical glacial Lakes in the Indus River basin using satellite derived parameters. <i>Geocarto International</i> , 2022, 37, 7508-7530.	3.5	8

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55	A Survey on Web Information Retrieval Inside Fuzzy Framework. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 433-445.	0.6	8
56	Fuzzy information retrieval in WWW: a survey. <i>International Journal of Advanced Intelligence Paradigms</i> , 2014, 6, 272.	0.3	7
57	Critical Pavement Response Analysis of Low-Volume Pavements considering Nonlinear Behavior of Materials. <i>Transportation Research Record</i> , 2015, 2474, 3-11.	1.9	7
58	An MCDM approach towards handling outliers in web data: a case study using OWA operators. <i>Artificial Intelligence Review</i> , 2016, 46, 59-82.	15.7	7
59	Sensitivity Analysis for Multiscale Stochastic Reaction Networks Using Hybrid Approximations. <i>Bulletin of Mathematical Biology</i> , 2019, 81, 3121-3158.	1.9	7
60	Spectral characteristics of talc and mineral abundance mapping in the Jahazpur Belt of Rajasthan, India using AVIRIS-NG data. <i>International Journal of Remote Sensing</i> , 2020, 41, 8757-8777.	2.9	7
61	An optimised approach for saturation flow estimation of signalised intersections. <i>Proceedings of the Institution of Civil Engineers: Transport</i> , 2022, 175, 137-149.	0.6	7
62	Non-Linear Evaluation Model to Analyze Saturation Flow under Weak-Lane-Disciplined Mixed Traffic Stream. <i>Transportation Research Record</i> , 2021, 2675, 422-431.	1.9	7
63	A Note on the Generalized Nonlinear Vector Variational-Like Inequality Problem. <i>Journal of Function Spaces</i> , 2021, 2021, 1-7.	0.9	7
64	High, intermediate and low temperature performance appraisal of elastomeric and plastomeric asphalt binders and mixes. <i>Journal of Elastomers and Plastics</i> , 2022, 54, 225-246.	1.5	7
65	Predicting pedestrian crash locations in urban India: An integrated GIS-based spatiotemporal HSID technique. <i>Journal of Transportation Safety and Security</i> , 2023, 15, 103-136.	1.6	7
66	Is safe distance enough to prevent COVID-19? Dispersion and tracking of aerosols in various artificial ventilation conditions using OpenFOAM. <i>Gondwana Research</i> , 2023, 114, 40-54.	6.0	7
67	Comparing different fatigue test methods at asphalt mastic level. <i>Materials and Structures/Materiaux Et Constructions</i> , 2022, 55, .	3.1	7
68	OWA Operator-Based Hybrid Framework for Outlier Reduction in Web Mining. <i>International Journal of Intelligent Systems</i> , 2016, 31, 947-962.	5.7	6
69	Investigation of adolescent accident predictive variables in hilly regions. <i>International Journal of Injury Control and Safety Promotion</i> , 2016, 23, 291-301.	2.0	6
70	FORA: An OWO based framework for finding outliers in web usage mining. <i>Information Fusion</i> , 2019, 48, 27-38.	19.1	6
71	Stochastic filtering for multiscale stochastic reaction networks based on hybrid approximations. <i>Journal of Computational Physics</i> , 2022, 467, 111441.	3.8	6
72	Going Private in Public: A study on shift in behavioral trend using Facebook. <i>Computers in Human Behavior</i> , 2017, 73, 55-63.	8.5	5

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73	Use of dimension limestone sludge as filler in asphalt mix. Proceedings of Institution of Civil Engineers: Construction Materials, 2020, , 1-11.	1.1	5
74	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
75	Evidence for reduced performance discrepancy of improved cookstoves at laboratory and field. Air Quality, Atmosphere and Health, 2022, 15, 633-644.	3.3	5
76	Contribution of mineral filler to the fatigue damage behaviour of bituminous mastic. Construction and Building Materials, 2022, 334, 127120.	7.2	5
77	Modeling anonymous human behavior using social media. , 2014, , .		4
78	Spatial and Temporal Variability Analysis Using Modelled Precipitation Data in Upper Catchment of Chambal Basin. Springer Water, 2017, , 75-88.	0.3	4
79	A finite state projection method for steady-state sensitivity analysis of stochastic reaction networks. Journal of Chemical Physics, 2019, 150, 134101.	3.0	4
80	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
81	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
82	Development of a rainfall Stability Index using probabilistic indicators. Ecological Indicators, 2020, 115, 106406.	6.3	4
83	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
84	Introduction of a New Parameter to Quantify the Fatigue Damage in Asphalt Mastics and Asphalt Binder. Coatings, 2021, 11, 828.	2.6	4
85	A note on some generalized closure and interior operators in a topological space. Mathematics for Applications, 2017, 6, 11-20.	0.3	4
86	Assessment of Saturation Flow at Signalized Intersections: A Synthesis of Global Perspective and Future Directions. Current Science, 2020, 119, 32.	0.8	4
87	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
88	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
89	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"} \rangle \langle \text{mml:mi} \rangle P \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle S \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Regular Sets in Topology and Generalized Topology. Journal of Mathematics, 2014, 2014, 1-6.	1.0	3
90	An ordered weighted operator approach towards web usage mining. , 2014, , .		3

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91	Analysis of aggregation operators in regression analysis. , 2015, , .		3
92	Effect of Gradient on Pedestrian Flow Characteristics Under Mixed Flow Conditions. Transportation Research Procedia, 2017, 25, 4720-4732.	1.5	3
93	Experimental Investigation of Waste Glass Powder as Filler in Asphalt Concrete Mixes. Lecture Notes in Civil Engineering, 2020, , 261-270.	0.4	3
94	Modelling U-Turning Behaviour of Vehicles at Mid-Block Median Openings in Multilane Urban Roads. Current Science, 2018, 114, 1461.	0.8	3
95	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
96	A study of uniformities on the space of uniformly continuous mappings. Open Mathematics, 2020, 18, 1478-1490.	1.0	2
97	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
98	Adaptive traffic signal control for developing countries using fused parameters derived from crowd-source data. Transportation Letters, 2023, 15, 296-307.	3.1	2
99	Performance of EDF-BF algorithm under QoS constraint in grid heterogeneous environment. , 2013, , .		1
100	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
101	A study of topological structures on equi-continuous mappings. Proyecciones, 2021, 40, 335-354.	0.3	1
102	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
103	A uniform approach to normality for topological spaces. Applied General Topology, 2016, 17, 7.	0.5	0
104	Wayside Train Monitoring Systems. Advances in Civil and Industrial Engineering Book Series, 2018, , 67-93.	0.2	0
105	Predicting Behavior of Passengers Using Data Collected Through Smart Cards. Advances in Civil and Industrial Engineering Book Series, 2018, , 127-156.	0.2	0
106	Wayside Train Monitoring Systems. , 2019, , 728-754.		0