Ajit Pratap Singh

List of Publications by Year
in descending order

75 papers	1,353 citations	304368 22 h-index	395343 33 g-index
79 all docs	79 docs citations	79 times ranked	1012 citing authors

#	ARTICLE	IF	CITATIONS
1	Water quality management of a stretch of river Yamuna: An interactive fuzzy multi-objective approach. Water Resources Management, 2007, 21, 515-532.	1.9	80
2	Utilization potential of fly ash and copper tailings in concrete as partial replacement of cement along with life cycle assessment. Waste Management, 2019, 99, 90-101.	3.7	69
3	An evidence based integrated watershed modelling system to assess the impact of non-point source pollution in the riverine ecosystem. Journal of Cleaner Production, 2020, 246, 118963.	4.6	61
4	Evaluation of access to health care in rural areas using enhanced two-step floating catchment area (E2SFCA) method. Journal of Transport Geography, 2016, 56, 45-52.	2.3	59
5	Managing water quality of a river using an integrated geographically weighted regression technique with fuzzy decision-making model. Environmental Monitoring and Assessment, 2019, 191, 378.	1.3	54
6	Alternative materials for wearing course of concrete pavements: A critical review. Construction and Building Materials, 2020, 236, 117609.	3.2	51
7	Groundwater Quality Assessment in a Hyper-arid Region of Rajasthan, India. Natural Resources Research, 2019, 28, 505-522.	2.2	49
8	Quantifying Accessibility to Health Care Using Two-step Floating Catchment Area Method (2SFCA): A Case Study in Rajasthan. Transportation Research Procedia, 2016, 17, 391-399.	0.8	46
9	Pavement condition assessment using soft computing techniques. International Journal of Pavement Research and Technology, 2018, 11, 564-581.	1.3	42
10	Groundwater Quality Assessment in Some Selected Area of Rajasthan, India Using Fuzzy Multi-criteria Decision Making Tool. Aquatic Procedia, 2015, 4, 1023-1030.	0.9	40
11	Integrated Software Quality Evaluation: A Fuzzy Multi-Criteria Approach. Journal of Information Processing Systems, 2011, 7, 473-518.	1.0	40
12	Quantification of accessibility to health facilities in rural areas. Case Studies on Transport Policy, 2015, 3, 311-320.	1.1	39
13	Sustainable management of a river basin by integrating an improved fuzzy based hybridized SWOT model and geo-statistical weighted thematic overlay analysis. Journal of Hydrology, 2018, 563, 92-105.	2.3	39
14	Development of groundwater sustainability index: a case study of western arid region of Rajasthan, India. Environment, Development and Sustainability, 2021, 23, 1844-1868.	2.7	37
15	Performance evaluation of textile wastewater treatment techniques using sustainability index: An integrated fuzzy approach of assessment. Journal of Cleaner Production, 2022, 337, 130384.	4.6	37
16	A Scenario Based Impact Assessment of Trace Metals on Ecosystem of River Ganges Using Multivariate Analysis Coupled with Fuzzy Decision-Making Approach. Water Resources Management, 2017, 31, 4165-4185.	1.9	35
17	Impact assessment of industrial wastewater discharge in a river basin using interval-valued fuzzy group decision-making and spatial approach. Environment, Development and Sustainability, 2018, 20, 2373-2397.	2.7	33
18	Prediction of asphalt pavement condition using FWD deflection basin parameters and artificial neural networks. Road Materials and Pavement Design, 2021, 22, 2748-2766.	2.0	31

#	ARTICLE	IF	CITATIONS
19	Assessment of air quality in Haora River basin using fuzzy multiple-attribute decision making techniques. Environmental Monitoring and Assessment, 2017, 189, 373.	1.3	30
20	Economic evaluation of crop production in the Ganges region under climate change: A sustainable policy framework. Journal of Cleaner Production, 2021, 278, 123413.	4.6	28
21	Road safety analysis using multi criteria approach: A case study in India. Transportation Research Procedia, 2017, 25, 4649-4661.	0.8	26
22	An integrated fuzzy-based advanced eutrophication simulation model to develop the best management scenarios for a river basin. Environmental Science and Pollution Research, 2018, 25, 9012-9039.	2.7	25
23	Application of infrared thermography for debonding detection in asphalt pavements. Journal of Civil Structural Health Monitoring, 2019, 9, 325-337.	2.0	23
24	Entropy-based fuzzy SWOT decision-making for condition assessment of airfield pavements. International Journal of Pavement Engineering, 2021, 22, 1226-1237.	2.2	22
25	Impact assessment of fly ash on ground water quality: An experimental study using batch leaching tests. Waste Management and Research, 2018, 36, 624-634.	2.2	21
26	Selection of Equipment for Construction of a Hilly Road Using Multi Criteria Approach. Procedia, Social and Behavioral Sciences, 2013, 104, 282-291.	0.5	20
27	Real-time Optimal Bus Scheduling for a City Using A DTR Model. Procedia, Social and Behavioral Sciences, 2013, 104, 845-854.	0.5	19
28	Water quality assessment of a river basin under fuzzy multi-criteria framework. International Journal of Water, 2015, 9, 226.	0.1	18
29	Detecting SARS-CoV-2 RNA prone clusters in a municipal wastewater network using fuzzy-Bayesian optimization model to facilitate wastewater-based epidemiology. Science of the Total Environment, 2021, 778, 146294.	3.9	18
30	Understanding the threats and challenges concerning Ganges River basin for effective policy recommendations towards sustainable development. Environment, Development and Sustainability, 2020, 22, 3655-3690.	2.7	17
31	Smart water conservation through a machine learning and blockchain-enabled decentralized edge computing network. Applied Soft Computing Journal, 2021, 106, 107274.	4.1	16
32	Identification and analysis of barriers for harnessing geothermal energy in India. Renewable Energy, 2022, 186, 327-340.	4.3	16
33	Optimal Selection of a Landfill Disposal Site Using a Modified Fuzzy Utility Approach. Fuzzy Information and Engineering, 2012, 4, 313-338.	1.0	14
34	Regulation of water resources systems using fuzzy logic: a case study of Amaravathi dam. Applied Water Science, 2018, 8, 1.	2.8	13
35	Assessment of Software Quality. , 0, , 200-219.		13
36	Life Cycle Assessment of Groundwater Supply System in a Hyper-arid Region of India. Procedia CIRP, 2018, 69, 603-608.	1.0	12

#	ARTICLE	IF	CITATIONS
37	Development of a HEC-HMS-based watershed modeling system for identification, allocation, and optimization of reservoirs in a river basin. Environmental Monitoring and Assessment, 2018, 190, 31.	1.3	11
38	Holistic approach for quantification and identification of pollutant sources of a river basin by analyzing the open drains using an advanced multivariate clustering. Environmental Monitoring and Assessment, 2018, 190, 720.	1.3	10
39	Effects of Chemical Reaction on Magneto-Micropolar Fluid Flow from a Radiative Surface with Variable Permeability. International Journal of Applied Mechanics and Engineering, 2013, 18, 833-851.	0.3	9
40	Development of a comprehensive fuzzy based approach for evaluating sustainability and self-purifying capacity of river Ganges. ISH Journal of Hydraulic Engineering, 2018, 24, 131-139.	1.1	9
41	Analysis of urban heat island effect in Visakhapatnam, India, using multi-temporal satellite imagery: causes and possible remedies. Environment, Development and Sustainability, 2021, 23, 11475-11493.	2.7	9
42	Neural networks approach for evaluating quality of service in public transportation in rural areas. , 2016, , .		8
43	Application of remote sensing in alpine grasslands cover mapping of western Himalaya, Uttarakhand, India. Environmental Monitoring and Assessment, 2021, 193, 166.	1.3	8
44	The Application of Adaptive Neuro-Fuzzy Inference System and Fuzzy Delphi Technique to Assess Socio-Economic Impacts of Construction of Rural Roads. Transport and Telecommunication, 2019, 20, 325-345.	0.7	8
45	A Decision Making Framework for Condition Evaluation of Airfield Pavements Using Non-Destructive Testing. , 2019, , .		7
46	Impact of rural road construction on the local livelihood diversification: evidence from Pradhan Mantri Gram Sadak Yojana in Jhunjhunu district, India. Geo Journal, 2020, 85, 961-978.	1.7	7
47	Development of a Need-Based Approach for Rural Road Network Planning. Transportation in Developing Economies, 2017, 3, 1.	0.9	6
48	Hydroclimatic river discharge and seasonal trends assessment model using an advanced spatio-temporal model. Stochastic Environmental Research and Risk Assessment, 2020, 34, 381-396.	1.9	6
49	Application of Storm Water Management Model to an Urban Catchment. Water Science and Technology Library, 2018, , 175-184.	0.2	6
50	Socio-economic impacts of low-volume roads using a mixed-method approach of PCA and Fuzzy-TOPSIS. International Review for Spatial Planning and Sustainable Development, 2021, 9, 112-133.	0.6	5
51	Hydro-conditioning: Advanced approaches for cost-effective water quality management in agricultural watersheds. Water Research, 2022, 220, 118647.	5.3	5
52	The impact of construction of hill roads on the environment, assessed using the multi-criteria approach. International Journal of Environmental Studies, 2022, 79, 1-18.	0.7	4
53	Impact of climate on vegetation in Pindari watershed of Western Himalayas, Kumaun, India, using spatiotemporal analysis: 1972â€"2018. Environmental Science and Pollution Research, 2022, 29, 86362-86373.	2.7	4
54	Assessment of snout analysis of Himalayan glaciers: impact studies on Pindari, Kafni, Sundardhunga, and Baljuri base camp glaciers. Environmental Monitoring and Assessment, 2022, 194, 338.	1.3	4

#	Article	IF	Citations
55	Assessment of groundwater suitability using remote sensing and GIS: a case study of Western Rajasthan, India. Arabian Journal of Geosciences, 2022, 15, 1.	0.6	3
56	LiDAR based hydro-conditioned hydrological modeling for enhancing precise conservation practice placement in agricultural watersheds. Water Resources Management, 2022, 36, 3877-3900.	1.9	3
57	Application of Fuzzy Multi-criteria Approach to Assess the Water Quality of River Ganges. Advances in Intelligent Systems and Computing, 2018, , 513-522.	0.5	2
58	Application of Multiple Linear Regression as Downscaling Methodology for Lower Godavari Basin. Water Science and Technology Library, 2018, , 25-34.	0.2	2
59	Exploring Rural Road Impacts Using Fuzzy Multi-criteria Approach. Lecture Notes in Civil Engineering, 2019, , 1-12.	0.3	2
60	Debonding detection in asphalt pavements using infrared thermography. Transportation Research Procedia, 2020, 48, 3850-3859.	0.8	2
61	Development of an advanced entropy-based decision support system to assess the feasibility of linking of rivers in a sustainable manner. International Journal of River Basin Management, 2022, 20, 289-300.	1.5	2
62	Socioeconomic impacts of low-volume roads using a GIS-based multidimensional impact assessment approach. Environment, Development and Sustainability, 2022, 24, 6676-6701.	2.7	2
63	Life-Cycle Assessment of Production of Concrete Using Copper Tailings and Fly Ash as a Partial Replacement of Cement. Lecture Notes in Civil Engineering, 2020, , 75-85.	0.3	2
64	Quantification of environmental impact of water pollutants using fuzzy comprehensive model. International Journal of Environmental Science and Technology, 0, , 1.	1.8	2
65	Assessment of Socio-Economic Impacts of PMGSY Roads Using Fuzzy Multi-Criteria Decision Making Tool. , 2018, , .		1
66	Risk enablers modelling for infrastructure projects using Bayesian belief network. International Journal of Construction Management, 2022, 22, 993-1010.	2.2	1
67	Quantification of airfield pavement condition using soft-computing technique. World Journal of Engineering, 2020, 17, 877-890.	1.0	1
68	Evaluation and Quantification of Pollution Caused by Open Drains in Ganges River Basin Using Multivariate Cluster Analysis. Asian Journal of Water, Environment and Pollution, 2020, 17, 75-82.	0.4	1
69	Assessment for risk of logistics infrastructure projects using analytic network process. International Journal of Process Management and Benchmarking, 2021, 11, 725.	0.1	1
70	Annual Rainfall Prediction Using Artificial Neural Networks. Lecture Notes in Civil Engineering, 2021, , 257-267.	0.3	1
71	INVESTIGATING THE ADVERSE IMPACTS OF RURAL ROADS USING A FUZZY MULTICRITERIA APPROACH. Journal of Civil Engineering and Management, 2021, 27, 441-453.	1.9	1
72	Utilizing the Potential of Textile Effluent Treatment Sludge in Construction Industry: Current Status, Opportunities, Challenges, and Solutions. , 2022, , 279-290.		1

#	Article	IF	Citations
73	Ranking of software design alternatives: a fuzzy utility approach. International Journal of Information Systems and Change Management, 2013, 6, 239.	0.1	0
74	Social impact assessment of construction of hill road (Ghatiabagarh-Lipulekh road of 76 km) on green field alignment in Dharchula, India. E3S Web of Conferences, 2022, 347, 04011.	0.2	0
75	Pothole recognition using DeepCNN with layer permutation scheme. Journal of Electronic Imaging, 2022, 31, .	0.5	0