

Sudhir Kumar Singh

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

134
papers

3,067
citations

31
h-index

50
g-index

140
ext. papers

4,061
ext. citations

3
avg, IF

6.16
L-index

#	Paper	IF	Citations
134	Evaluation of long-term nitrate and electrical conductivity in groundwater system of Peninsula, India. <i>Applied Water Science</i> , 2022 , 12, 1	5	0
133	Assessing the Accuracy of Open Source Altitude Data for the Hilly Area in Tehri Garhwal District of Uttarakhand, India. <i>Springer Proceedings in Energy</i> , 2022 , 153-177	0.2	
132	Monitoring Drought of Maharashtra, India by Using Standardized Precipitation Index. <i>Springer Proceedings in Energy</i> , 2022 , 201-208	0.2	
131	Crop-Type Classification Using Sentinel-2A and in Situ Data: Case Study of Shri Dungargarh Taluk of Rajasthan, India. <i>Springer Proceedings in Energy</i> , 2022 , 179-188	0.2	
130	Evaluation of Total Dissolved Solids and Quality Zones of Groundwater Using Vertical Electrical Soundings and GIS Method. <i>Springer Proceedings in Energy</i> , 2022 , 189-199	0.2	
129	Multi-criteria decision making and Dempster-Shafer model-based delineation of groundwater prospect zones from a semi-arid environment.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	2
128	AHP and TOPSIS Based Sub-Watershed Prioritization and Tectonic Analysis of Ami River Basin, Uttar Pradesh. <i>Journal of the Geological Society of India</i> , 2022 , 98, 423-430	1.3	4
127	GIS-based multi-criteria approach to delineate groundwater prospect zone and its sensitivity analysis. <i>Applied Water Science</i> , 2022 , 12, 1	5	2
126	Delineation of groundwater potential zones for sustainable development and planning using analytical hierarchy process(AHP), and MIF techniques. <i>Applied Water Science</i> , 2021 , 11,	5	15
125	A new method to map groundwater-dependent ecosystem zones in semi-arid environments: A case study in Chile. <i>Science of the Total Environment</i> , 2021 , 151528	10.2	7
124	What is the impact of COVID-19 pandemic on global carbon emissions?. <i>Science of the Total Environment</i> , 2021 , 151503	10.2	14
123	A flood assessment of data scarce region using an open-source 2D hydrodynamic modeling and Google Earth Image: a case of Sabarmati flood, India. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	4
122	Mapping of Normalized Difference Dispersal Index for Groundwater Quality Study on Parameter-Based Index for Irrigation: Kanchipuram District, India 2021 , 239-260		
121	Geomorphic Analysis, Morphometric-based Prioritization and Tectonic Implications in Chite Lui River, Northeast India. <i>Journal of the Geological Society of India</i> , 2021 , 97, 385-395	1.3	5
120	Urban growth modeling using earth observation datasets, Cellular Automata-Markov Chain model and urban metrics to measure urban footprints. <i>Remote Sensing Applications: Society and Environment</i> , 2021 , 22, 100479	2.8	6
119	Development of fuzzy analytic hierarchy process based water quality model of Upper Ganga river basin, India. <i>Journal of Environmental Management</i> , 2021 , 284, 111985	7.9	4
118	Investigating forest fragmentation through earth observation datasets and metric analysis in the tropical rainforest area. <i>SN Applied Sciences</i> , 2021 , 3, 1	1.8	4

117	Comparative evaluation of models to estimate direct runoff volume from an agricultural watershed 2021 , 5, 94-108		3
116	Irrigation water quality appraisal using statistical methods and WATEQ4F geochemical model 2021 , 101-138		5
115	Drainage network analysis to understand the morphotectonic significance in upper Tuirial watershed, Aizawl, Mizoram 2021 , 349-373		3
114	Assessing the suitability of Ghaghra River water for irrigation purpose in India 2021 , 67-81		1
113	Drought Identification and Trend Analysis Using Long-Term CHIRPS Satellite Precipitation Product in Bundelkhand, India. <i>Sustainability</i> , 2021 , 13, 1042	3.6	9
112	Intrinsic Vulnerability Evaluation of Groundwater Nitrate Pollution Along a Course of the Subarnarekha River in Jharkhand, India. <i>Water Conservation Science and Engineering</i> , 2021 , 6, 55-66	1.6	3
111	Soil erosion assessment using earth observation data in a trans-boundary river basin. <i>Natural Hazards</i> , 2021 , 107, 1-34	3	12
110	Estimation of crop and forest biomass resources in a semi-arid region using satellite data and GIS. <i>Journal of the Saudi Society of Agricultural Sciences</i> , 2021 , 20, 302-311	3.3	10
109	Soil moisture estimation using triangular method at higher resolution from MODIS products. <i>Physics and Chemistry of the Earth</i> , 2021 , 103051	3	2
108	Erosion risk assessment through prioritization of sub-watersheds in Nyabarongo river catchment, Rwanda. <i>Environmental Challenges</i> , 2021 , 5, 100260	2.6	3
107	Long-Term Satellite Data Time Series Analysis for Land Degradation Mapping to Support Sustainable Land Management in Ukraine. <i>Advances in Geographical and Environmental Sciences</i> , 2021 , 165-189	0.4	1
106	Evaluation of soil erosion and sediment yield spatio-temporal pattern during 1990-2019. <i>Geomatics, Natural Hazards and Risk</i> , 2021 , 12, 2676-2707	3.6	4
105	Change In Nitrogen Dioxide (No ₂) Concentration Due To The Lockdown Amid The Covid-19 Pandemic In India. <i>Geography, Environment, Sustainability</i> , 2021 , 14, 192-198	1	0
104	Spatial regionalisation of morphometric characteristics of mini watershed of Northern Foreland of Peninsular India. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1	1.8	13
103	Assessment and Spatial Mapping of Groundwater Quality Parameters Using Metal Pollution Indices, Graphical Methods and Geoinformatics. <i>Analytical Chemistry Letters</i> , 2020 , 10, 152-180	1	14
102	Parameterization of the modified water cloud model (MWCM) using normalized difference vegetation index (NDVI) for winter wheat crop: a case study from Punjab, India. <i>Geocarto International</i> , 2020 , 1-14	2.7	4
101	Trend of extreme rainfall events using suitable Global Circulation Model to combat the water logging condition in Kolkata Metropolitan Area. <i>Urban Climate</i> , 2020 , 32, 100599	6.8	34
100	Impact of urbanization and land cover change on urban climate: Case study of Nigeria. <i>Urban Climate</i> , 2020 , 32, 100600	6.8	17

99	Parameterizing the modified water cloud model to improve soil moisture data retrieval using vegetation models. <i>Hungarian Geographical Bulletin</i> , 2020 , 69, 17-26	0.7	5
98	Climate Change and Agriculture: A Review of Crop Models 2020 , 423-435		3
97	Assessing the Use of Sentinel-2 in Burnt Area Cartography 2020 , 141-150		
96	Groundwater evaluation for drinking purposes using statistical index: study of Akola and Buldhana districts of Maharashtra, India. <i>Environment, Development and Sustainability</i> , 2020 , 22, 7453-7471	4.5	37
95	Applications of Remote Sensing in Precision Agriculture: A Review. <i>Remote Sensing</i> , 2020 , 12, 3136	5	110
94	Early warning systems development for agricultural drought assessment in Nigeria. <i>Environmental Monitoring and Assessment</i> , 2020 , 192, 798	3.1	29
93	Influence of land-use pattern on soil quality in a steeply sloped tropical mountainous region, India.. <i>Archives of Agronomy and Soil Science</i> , 2020 , 1-21	2	5
92	Integrated framework for soil and water conservation in Kosi River Basin. <i>Geocarto International</i> , 2020 , 35, 391-410	2.7	17
91	Distribution of nickel in different agro-climatic zones of Jharkhand, India 2020 , 4, 52-58		2
90	Modelling of soil permeability using different data driven algorithms based on physical properties of soil. <i>Journal of Hydrology</i> , 2020 , 580, 124223	6	27
89	An integrated approach to delineate the groundwater potential zones in Devdari watershed area of Akola district, Maharashtra, Central India. <i>Environment, Development and Sustainability</i> , 2020 , 22, 4867-4887	4.5	48
88	Delineation of groundwater potential zones using geospatial techniques and analytical hierarchy process in Dumka district, Jharkhand, India. <i>Groundwater for Sustainable Development</i> , 2019 , 9, 100239	6	67
87	Quantitative assessment of landscape transformation using earth observation datasets in Shirui Hill of Manipur, India. <i>Remote Sensing Applications: Society and Environment</i> , 2019 , 15, 100237	2.8	5
86	Appraisal of river water quality using open-access earth observation data set: a study of river Ganga at Allahabad (India). <i>Sustainable Water Resources Management</i> , 2019 , 5, 755-765	1.9	14
85	Estimation of infiltration rate from soil properties using regression model for cultivated land 2019 , 3, 1-13		28
84	Topographical distribution of cobalt in different agro-climatic zones of Jharkhand state, India 2019 , 3, 14-21		8
83	Appraisal of groundwater with special reference to nitrate using statistical index approach. <i>Groundwater for Sustainable Development</i> , 2019 , 8, 49-58	6	12
82	Spatial interpolation approach-based appraisal of groundwater quality of arid regions 2019 , 68, 431-447		21

81	Statistical approach to evaluate groundwater contamination for drinking and irrigation suitability. <i>Groundwater for Sustainable Development</i> , 2019 , 9, 100251	6	13
80	Synergetic methodology for estimation of soil moisture over agricultural area using Landsat-8 and Sentinel-1 satellite data. <i>Remote Sensing Applications: Society and Environment</i> , 2019 , 15, 100250	2.8	12
79	Intensity Analysis and the Figure of Merit components for assessment of a Cellular Automata Markov simulation model. <i>Ecological Indicators</i> , 2019 , 101, 933-942	5.8	52
78	An integrated approach to estimate surface soil moisture in agricultural lands. <i>Geocarto International</i> , 2019 , 1-19	2.7	7
77	Quantitative Estimation of Soil Erosion Using Open-Access Earth Observation Data Sets and Erosion Potential Model. <i>Water Conservation Science and Engineering</i> , 2019 , 4, 187-200	1.6	13
76	Estimation of crop evapotranspiration through spatial distributed crop coefficient in a semi-arid environment. <i>Agricultural Water Management</i> , 2019 , 213, 922-933	5.9	22
75	Comparative evaluation of vertical accuracy of elevated points with ground control points from ASTERDEM and SRTMDEM with respect to CARTOSAT-1DEM. <i>Remote Sensing Applications: Society and Environment</i> , 2019 , 13, 289-297	2.8	20
74	Deriving forest fire probability maps from the fusion of visible/infrared satellite data and geospatial data mining. <i>Modeling Earth Systems and Environment</i> , 2019 , 5, 627-643	3.2	11
73	Hydrochemical investigations of groundwater quality for drinking and irrigational purposes: two case studies of Koprivnica-Križevci County (Croatia) and district Allahabad (India). <i>Sustainable Water Resources Management</i> , 2019 , 5, 467-490	1.9	33
72	Water Quality Indices and GIS-based evaluation of a decadal groundwater quality 2018 , 2, 240-255		25
71	Landscape metrics for assessment of land cover change and fragmentation of a heterogeneous watershed. <i>Remote Sensing Applications: Society and Environment</i> , 2018 , 10, 224-233	2.8	27
70	Investigation of impacts of land use/land cover change on water availability of Tons River Basin, Madhya Pradesh, India. <i>Modeling Earth Systems and Environment</i> , 2018 , 4, 295-310	3.2	40
69	Appraisal of Soil Conservation Capacity Using NDVI Model-Based C Factor of RUSLE Model for a Semi Arid Ungauged Watershed: a Case Study. <i>Water Conservation Science and Engineering</i> , 2018 , 3, 47-58	1.6	16
68	Environmental monitoring of water resources with the use of PoS index: a case study from Subarnarekha River basin, India. <i>Environmental Earth Sciences</i> , 2018 , 77, 1	2.9	19
67	Extracting water-related features using reflectance data and principal component analysis of Landsat images. <i>Hydrological Sciences Journal</i> , 2018 , 63, 269-284	3.5	27
66	Morphometric based prioritization of watershed for groundwater potential of Mula river basin, Maharashtra, India 2018 , 2, 256-267		68
65	Quantifying land use/land cover spatio-temporal landscape pattern dynamics from Hyperion using SVMs classifier and FRAGSTATS. <i>Geocarto International</i> , 2018 , 33, 862-878	2.7	54
64	Prioritisation of sub-watersheds based on earth observation data of agricultural dominated northern river basin of India. <i>Geocarto International</i> , 2018 , 33, 339-356	2.7	30

63	Delineation and classification of ruralUrban fringe using geospatial technique and onboard DMSP Operational Linescan System. <i>Geocarto International</i> , 2018 , 33, 375-396	2.7	17
62	Modelling of land use land cover change using earth observation data-sets of Tons River Basin, Madhya Pradesh, India. <i>Geocarto International</i> , 2018 , 33, 1202-1222	2.7	75
61	Groundwater quality evaluation using numerical indices: a case study (Delhi, India). <i>Sustainable Water Resources Management</i> , 2018 , 4, 875-885	1.9	18
60	Integration of Earth Observation Data and Spatial Approach to Delineate and Manage Aeolian Sand-Affected Wasteland in Highly Productive Lands of Haryana, India. <i>International Journal of Geophysics</i> , 2018 , 2018, 1-7	2	6
59	Drainage morphometric analysis using open access earth observation datasets in a drought-affected part of Bundelkhand, India. <i>Applied Geomatics</i> , 2018 , 10, 173-189	2.2	31
58	Hypsometric Analysis Using Microwave Satellite Data and GIS of NainiTorma River Basin (Rewa district, Madhya Pradesh, India). <i>Water Conservation Science and Engineering</i> , 2018 , 3, 221-234	1.6	8
57	Estimation of Evapotranspiration through Open Access Earth Observation Data Sets and Its Validation with Ground Observation 2018 , 173-189		1
56	Performance Analysis of Different Predictive Algorithms for the Land Features Modeling 2018 , 87-107		2
55	Sub-Surface Investigation Using Vertical Electrical Sounding: Chennai Metropolitan Area. <i>Current World Environment Journal</i> , 2018 , 13, 317-330	0.7	3
54	Hydro-chemical Survey and Quantifying Spatial Variations in Groundwater Quality in Coastal Region of Chennai, Tamilnadu, India A case study. <i>Indonesian Journal of Geography</i> , 2018 , 50, 57	1.8	9
53	Statistical evaluation of rainfall time series in concurrence with agriculture and water resources of Ken River basin, Central India (1901-2010). <i>Theoretical and Applied Climatology</i> , 2018 , 134, 1231-1243	3	31
52	Groundwater Quality of Coastal Aquifer Evaluation Using Spatial Analysis Approach. <i>Oriental Journal of Chemistry</i> , 2018 , 34, 2902-2912	0.8	2
51	Assessment of groundwater quality for irrigation use: a peninsular case study. <i>Applied Water Science</i> , 2018 , 8, 1	5	46
50	Integrating remote sensing, geographic information systems and global positioning system techniques with hydrological modeling. <i>Applied Water Science</i> , 2017 , 7, 1595-1608	5	40
49	Hydrogeochemical characterization of groundwater of peninsular Indian region using multivariate statistical techniques. <i>Applied Water Science</i> , 2017 , 7, 3001-3013	5	28
48	Mapping of groundwater quality using Normalized Difference Dispersal Index of Dwarka sub-city at Delhi National Capital of India. <i>ISH Journal of Hydraulic Engineering</i> , 2017 , 23, 229-240	1.5	14
47	SWAT Model calibration and uncertainty analysis for streamflow prediction of the Tons River Basin, India, using Sequential Uncertainty Fitting (SUFI-2) algorithm. <i>Modeling Earth Systems and Environment</i> , 2017 , 3, 1	3.2	42
46	Quantification of wheat crop evapotranspiration and mapping: A case study from Bhiwani District of Haryana, India. <i>Agricultural Water Management</i> , 2017 , 187, 200-209	5.9	20

45	Assessment of river water quality and ecological diversity through multivariate statistical techniques, and earth observation dataset of rivers Ghaghara and Gandak, India. <i>International Journal of River Basin Management</i> , 2017 , 15, 347-360	1.7	29
44	Estimation of Surface Runoff from Semi-arid Ungauged Agricultural Watershed Using SCS-CN Method and Earth Observation Data Sets. <i>Water Conservation Science and Engineering</i> , 2017 , 1, 233-247	1.6	29
43	Assessment of heavy metal contamination in the sediment of the River Ghaghara, a major tributary of the River Ganga in Northern India. <i>Applied Water Science</i> , 2017 , 7, 4133-4149	5	83
42	Appraisal of long term groundwater quality of peninsular India using water quality index and fractal dimension. <i>Journal of Earth System Science</i> , 2017 , 126, 1	1.8	15
41	Reference Evapotranspiration Retrievals from a Mesoscale Model Based Weather Variables for Soil Moisture Deficit Estimation. <i>Sustainability</i> , 2017 , 9, 1971	3.6	11
40	Reduced major axis approach for correcting GPM/GMI radiometric biases to coincide with radiative transfer simulation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016 , 168, 40-45	2.1	4
39	Assessment of urban heat islands (UHI) of Noida City, India using multi-temporal satellite data. <i>Sustainable Cities and Society</i> , 2016 , 22, 19-28	10.1	116
38	Support vector machines and generalized linear models for quantifying soil dehydrogenase activity in agro-forestry system of mid altitude central Himalaya. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	5
37	Landscape transform and spatial metrics for mapping spatiotemporal land cover dynamics using Earth Observation data-sets. <i>Geocarto International</i> , 2016 , 1-15	2.7	40
36	Forecasting Arabian Sea level rise using exponential smoothing state space models and ARIMA from TOPEX and Jason satellite radar altimeter data. <i>Meteorological Applications</i> , 2016 , 23, 633-639	2.1	6
35	Dynamics of land use change in a mining area: a case study of Nadowli District, Ghana. <i>Journal of Mountain Science</i> , 2016 , 13, 633-642	2.1	26
34	Precipitation trend analysis of Sindh River basin, India, from 102-year record (1901-2002). <i>Atmospheric Science Letters</i> , 2016 , 17, 71-77	2.4	53
33	Amino acid functionalized magnetic nanoparticles for removal of Ni(II) from aqueous solution. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 67, 148-160	5.3	29
32	Slope angle and aspect as influencing factors on the accuracy of the SRTM and the ASTER GDEM databases. <i>Physics and Chemistry of the Earth</i> , 2015 , 83-84, 137-145	3	44
31	Tracking a tropical cyclone through WRF-ARW simulation and sensitivity of model physics. <i>Natural Hazards</i> , 2015 , 76, 1473-1495	3	37
30	Modeling groundwater quality over a humid subtropical region using numerical indices, earth observation datasets, and X-ray diffraction technique: a case study of Allahabad district, India. <i>Environmental Geochemistry and Health</i> , 2015 , 37, 157-80	4.7	76
29	Assessing impact of climate change on Mundra mangrove forest ecosystem, Gulf of Kutch, western coast of India: a synergistic evaluation using remote sensing. <i>Theoretical and Applied Climatology</i> , 2015 , 120, 685-700	3	24
28	Hydrogeochemical evaluation of groundwater of Bhaktapur Municipality, Nepal. <i>Environmental Earth Sciences</i> , 2015 , 74, 4973-4988	2.9	30

27	Evaluation of groundwater quality in the Chotanagpur plateau region of the Subarnarekha river basin, Jharkhand State, India. <i>Sustainability of Water Quality and Ecology</i> , 2015 , 6, 57-74		81
26	Geochemical modeling to evaluate the mangrove forest water. <i>Arabian Journal of Geosciences</i> , 2015 , 8, 4687-4702	1.8	13
25	Predicting Spatial and Decadal LULC Changes Through Cellular Automata Markov Chain Models Using Earth Observation Datasets and Geo-information. <i>Environmental Processes</i> , 2015 , 2, 61-78	2.8	149
24	SWAT Model Calibration and Uncertainty Analysis for Streamflow Prediction in the Kunwari River Basin, India, Using Sequential Uncertainty Fitting. <i>Environmental Processes</i> , 2015 , 2, 79-95	2.8	87
23	Morphometric analysis of Upper Tons basin from Northern Foreland of Peninsular India using CARTOSAT satellite and GIS. <i>Geocarto International</i> , 2014 , 29, 895-914	2.7	82
22	Effects of Land Transformation on Water Quality of Dal Lake, Srinagar, India 2014 , 42, 119-128		41
21	Soil characterization based on land cover heterogeneity over a tropical landscape: an integrated approach using earth observation data-sets. <i>Geocarto International</i> , 2014 , 1-24	2.7	9
20	Appraisal of land use/land cover of mangrove forest ecosystem using support vector machine. <i>Environmental Earth Sciences</i> , 2014 , 71, 2245-2255	2.9	104
19	Land Use Fragmentation Analysis Using Remote Sensing and Fragstats. <i>Society of Earth Scientists Series</i> , 2014 , 151-176	0.6	12
18	A study of the effectiveness of sewage treatment plants in Delhi region. <i>Applied Water Science</i> , 2013 , 3, 57-65	5	44
17	Integrated Assessment of Groundwater Influenced by a Confluence River System: Concurrence with Remote Sensing and Geochemical Modelling. <i>Water Resources Management</i> , 2013 , 27, 4291-4313	3.7	70
16	Geochemical Modelling of Fluoride Concentration in Hard Rock Terrain of Madhya Pradesh, India. <i>Acta Geologica Sinica</i> , 2013 , 87, 1421-1433	0.7	18
15	MODELING IMPACT OF LAND USE CHANGE TRAJECTORIES ON GROUNDWATER QUALITY USING REMOTE SENSING AND GIS. <i>Environmental Engineering and Management Journal</i> , 2013 , 12, 2343-2355	0.6	42
14	Plant community characteristics and soil status in different land use systems in Dimapur district, Nagaland, India. <i>Forest Research Papers</i> , 2012 , 73,	0.2	8
13	Estimation of Evapotranspiration from Wetlands Using Geospatial and Hydrometeorological Data 2011 , 53-67		7
12	Arsenic Contamination of Groundwater in Nepal: An Overview. <i>Water (Switzerland)</i> , 2011 , 3, 1-20	3	87
11	Retrieval of Surface Roughness Over Cropped Area using Modified Water Cloud Model (MWCM), Oh Model and SAR Data		1
10	Investigation of the hydrogeochemistry, groundwater quality, and associated health risks in industrialized regions of Tripura, northeast India. <i>Environmental Forensics</i> , 1-22	1.6	7

9	A novel approach of mapping landscape aesthetic value and its validation with rural tourism data. <i>Hungarian Geographical Bulletin</i> ,283-301	0.7	2
8	Nutrient dynamics of the Brahmaputra (tropical river) during the monsoon period76, 212-224		4
7	Statistical investigation of long-term meteorological data to understand the variability in climate: a case study of Jharkhand, India. <i>Environment, Development and Sustainability</i> ,1	4.5	2
6	Morpho-tectonic assessment of Central Northern escarpment of Peninsular India, based on tectonically sensitive geomorphic indices. <i>Physical Geography</i> ,1-31	1.8	3
5	Trend analysis of selected hydro-meteorological variables for the Rietspruit sub-basin, South Africa. <i>Journal of Water and Climate Change</i> ,	2.3	2
4	Multi-decadal groundwater variability analysis using geostatistical method for groundwater sustainability. <i>Environment, Development and Sustainability</i> ,1	4.5	4
3	Prediction of soil erosion risk using earth observation data under recent emission scenarios of CMIP6. <i>Geocarto International</i> ,1-24	2.7	2
2	Simulation of land use/land cover change at a basin scale using satellite data and markov chain model. <i>Geocarto International</i> ,1-26	2.7	1
1	Quantifying surface soil organic carbon distribution globally during the COVID-19 pandemic using satellite data. <i>Geocarto International</i> ,1-26	2.7	0