

Sudhir Kumar Singh

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1660193/sudhir-kumar-singh-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
133	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
132	Applications of Remote Sensing in Precision Agriculture: A Review. <i>Remote Sensing</i> , 2020 , 12, 3136	5	110
131	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
130	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
129	Arsenic Contamination of Groundwater in Nepal: An Overview. <i>Water (Switzerland)</i> , 2011 , 3, 1-20	3	87
128	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
127	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
126	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
125	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
124	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
123	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
122	Morphometric based prioritization of watershed for groundwater potential of Mula river basin, Maharashtra, India 2018 , 2, 256-267		68
121	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
120	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
119	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
118	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

117	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
116	Assessment of groundwater quality for irrigation use: a peninsular case study. <i>Applied Water Science</i> , 2018 , 8, 1	5	46
115	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
114	A study of the effectiveness of sewage treatment plants in Delhi region. <i>Applied Water Science</i> , 2013 , 3, 57-65	5	44
113	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
112	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
111	Effects of Land Transformation on Water Quality of Dal Lake, Srinagar, India 2014 , 42, 119-128		41
110	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
109	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
108	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
107	Tracking a tropical cyclone through WRF-ARW simulation and sensitivity of model physics. <i>Natural Hazards</i> , 2015 , 76, 1473-1495	3	37
106	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
105	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
104	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
103	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
102	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
101	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
100	Hydrogeochemical evaluation of groundwater of Bhaktapur Municipality, Nepal. <i>Environmental Earth Sciences</i> , 2015 , 74, 4973-4988	2.9	30

99	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
98	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
97	Early warning systems development for agricultural drought assessment in Nigeria. <i>Environmental Monitoring and Assessment</i> , 2020 , 192, 798	3.1	29
96	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
95	Hydrogeochemical characterization of groundwater of peninsular Indian region using multivariate statistical techniques. <i>Applied Water Science</i> , 2017 , 7, 3001-3013	5	28
94	Estimation of infiltration rate from soil properties using regression model for cultivated land 2019 , 3, 1-13		28
93	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
92	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
91	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
90	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
89	Water Quality Indices and GIS-based evaluation of a decadal groundwater quality 2018 , 2, 240-255		25
88	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
87	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
86	Spatial interpolation approach-based appraisal of groundwater quality of arid regions 2019 , 68, 431-447		21
85	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
84	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
83	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
82	Groundwater quality evaluation using numerical indices: a case study (Delhi, India). <i>Sustainable Water Resources Management</i> , 2018 , 4, 875-885	1.9	18

81	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
80	Impact of urbanization and land cover change on urban climate: Case study of Nigeria. <i>Urban Climate</i> , 2020 , 32, 100600	6.8	17
79	Delineation and classification of rural-urban fringe using geospatial technique and onboard DMSP-Operational Linescan System. <i>Geocarto International</i> , 2018 , 33, 375-396	2.7	17
78	Integrated framework for soil and water conservation in Kosi River Basin. <i>Geocarto International</i> , 2020 , 35, 391-410	2.7	17
77	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
76	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
75	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
74	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
73	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
72	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
71	What is the impact of COVID-19 pandemic on global carbon emissions?. <i>Science of the Total Environment</i> , 2021 , 151503	10.2	14
70	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
69	Statistical approach to evaluate groundwater contamination for drinking and irrigation suitability. <i>Groundwater for Sustainable Development</i> , 2019 , 9, 100251	6	13
68	Geochemical modeling to evaluate the mangrove forest water. <i>Arabian Journal of Geosciences</i> , 2015 , 8, 4687-4702	1.8	13
67	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
66	Appraisal of groundwater with special reference to nitrate using statistical index approach. <i>Groundwater for Sustainable Development</i> , 2019 , 8, 49-58	6	12
65	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
64	Land Use Fragmentation Analysis Using Remote Sensing and Fragstats. <i>Society of Earth Scientists Series</i> , 2014 , 151-176	0.6	12

63	Soil erosion assessment using earth observation data in a trans-boundary river basin. <i>Natural Hazards</i> , 2021 , 107, 1-34	3	12
62	Reference Evapotranspiration Retrievals from a Mesoscale Model Based Weather Variables for Soil Moisture Deficit Estimation. <i>Sustainability</i> , 2017 , 9, 1971	3.6	11
61	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
60	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
59	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
58	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
57	Drought Identification and Trend Analysis Using Long-Term CHIRPS Satellite Precipitation Product in Bundelkhand, India. <i>Sustainability</i> , 2021 , 13, 1042	3.6	9
56	Hypsometric Analysis Using Microwave Satellite Data and GIS of Nainital-Norma River Basin (Rewa district, Madhya Pradesh, India). <i>Water Conservation Science and Engineering</i> , 2018 , 3, 221-234	1.6	8
55	Topographical distribution of cobalt in different agro-climatic zones of Jharkhand state, India 2019 , 3, 14-21		8
54	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
53	Estimation of Evapotranspiration from Wetlands Using Geospatial and Hydrometeorological Data 2011 , 53-67		7
52	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
51	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
50	An integrated approach to estimate surface soil moisture in agricultural lands. <i>Geocarto International</i> , 2019 , 1-19	2.7	7
49	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
48	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
47	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
46	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

45	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
44	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
43	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
42	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
41	Irrigation water quality appraisal using statistical methods and WATEQ4F geochemical model 2021 , 101-138		5
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	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
38	Nutrient dynamics of the Brahmaputra (tropical river) during the monsoon period76, 212-224		4
37	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
36	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
35	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
34	Multi-decadal groundwater variability analysis using geostatistical method for groundwater sustainability. <i>Environment, Development and Sustainability</i> ,1	4.5	4
33	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
32	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
31	Sub-Surface Investigation Using Vertical Electrical Sounding: Chennai Metropolitan Area. <i>Current World Environment Journal</i> , 2018 , 13, 317-330	0.7	3
30	Climate Change and Agriculture: A Review of Crop Models 2020 , 423-435		3
29	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
28	Comparative evaluation of models to estimate direct runoff volume from an agricultural watershed 2021 , 5, 94-108		3

27	Drainage network analysis to understand the morphotectonic significance in upper Tuirial watershed, Aizawl, Mizoram 2021 , 349-373		3
26	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
25	Erosion risk assessment through prioritization of sub-watersheds in Nyabarongo river catchment, Rwanda. <i>Environmental Challenges</i> , 2021 , 5, 100260	2.6	3
24	Performance Analysis of Different Predictive Algorithms for the Land Features Modeling 2018 , 87-107		2
23	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
22	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
21	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
20	Distribution of nickel in different agro-climatic zones of Jharkhand, India 2020 , 4, 52-58		2
19	Groundwater Quality of Coastal Aquifer Evaluation Using Spatial Analysis Approach. <i>Oriental Journal of Chemistry</i> , 2018 , 34, 2902-2912	0.8	2
18	Soil moisture estimation using triangular method at higher resolution from MODIS products. <i>Physics and Chemistry of the Earth</i> , 2021 , 103051	3	2
17	Prediction of soil erosion risk using earth observation data under recent emission scenarios of CMIP6. <i>Geocarto International</i> , 1-24	2.7	2
16	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
15	GIS-based multi-criteria approach to delineate groundwater prospect zone and its sensitivity analysis. <i>Applied Water Science</i> , 2022 , 12, 1	5	2
14	Retrieval of Surface Roughness Over Cropped Area using Modified Water Cloud Model (MWCM), Oh Model and SAR Data ¹		1
13	Estimation of Evapotranspiration through Open Access Earth Observation Data Sets and Its Validation with Ground Observation 2018 , 173-189		1
12	Assessing the suitability of Ghaghra River water for irrigation purpose in India 2021 , 67-81		1
11	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
10	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

9	Evaluation of long-term nitrate and electrical conductivity in groundwater system of Peninsula, India. <i>Applied Water Science</i> , 2022 , 12, 1	5	0
8	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
7	Quantifying surface soil organic carbon distribution globally during the COVID-19 pandemic using satellite data. <i>Geocarto International</i> , 1-26	2.7	0
6	Assessing the Use of Sentinel-2 in Burnt Area Cartography 2020 , 141-150		
5	Mapping of Normalized Difference Dispersal Index for Groundwater Quality Study on Parameter-Based Index for Irrigation: Kanchipuram District, India 2021 , 239-260		
4	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	
3	Monitoring Drought of Maharashtra, India by Using Standardized Precipitation Index. <i>Springer Proceedings in Energy</i> , 2022 , 201-208	0.2	
2	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	
1	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	