

# Chander Kumar Singh

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

2,383  
citations

218381

26  
h-index

223531

46  
g-index

80  
all docs

80  
docs citations

80  
times ranked

1923  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Spatial stochastic model for predicting soil organic matter using remote sensing data. <i>Geocarto International</i> , 2022, 37, 413-444.  | 1.7 | 5         |
| 2  | Reflectance based semi-empirical model to determine nature and metamorphic grade of almora group of rocks, Kumaon (Lesser) Himalaya. <i>Geocarto International</i> , 2022, 37, 1345-1363.  | 1.7 | 1         |
| 3  | Geospatial modelling for sub-watershed prioritization in Western Himalayan Basin using morphometric parameters. <i>Natural Hazards</i> , 2022, 110, 545-561.   | 1.6 | 9         |
| 4  | Groundwater fluoride across the Punjab plains of Pakistan and India: Distribution and underlying mechanisms. <i>Science of the Total Environment</i> , 2022, 806, 151353.  | 3.9 | 24        |
| 5  | Geochemical assessment of groundwater in a desertic region of India using chemometric analysis and entropy water quality index (EWQI). <i>Natural Hazards</i> , 2022, 112, 747-782.  | 1.6 | 17        |
| 6  | An index-based approach to assess groundwater quality for drinking and irrigation in Asir region of Saudi Arabia. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.   | 0.6 | 16        |
| 7  | Time series trend analysis of rainfall in last five decades and its quantification in Aseer Region of Saudi Arabia. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.   | 0.6 | 14        |
| 8  | Groundwater Quality Studies in the Kingdom of Saudi Arabia: Prevalent Research and Management Dimensions. <i>Water (Switzerland)</i> , 2021, 13, 1266.   | 1.2 | 34        |
| 9  | Evaluating the NDVI-Rainfall Relationship in Bisha Watershed, Saudi Arabia Using Non-Stationary Modeling Technique. <i>Atmosphere</i> , 2021, 12, 593.   | 1.0 | 24        |
| 10 | Geochemical modeling to infer genetic origin of groundwater and associated health risks in desertic aquifers. <i>Groundwater for Sustainable Development</i> , 2021, 13, 100569.   | 2.3 | 3         |
| 11 | Spatial and decadal prediction of land use/land cover using multi-layer perceptron-neural network (MLP-NN) algorithm for a semi-arid region of Asir, Saudi Arabia. <i>Earth Science Informatics</i> , 2021, 14, 1547-1562.       | 1.6 | 33        |
| 12 | A comparative analysis of different pixel and object-based classification algorithms using multi-source high spatial resolution satellite data for LULC mapping. <i>Earth Science Informatics</i> , 2021, 14, 2231-2247.         | 1.6 | 17        |
| 13 | Effect of Lockdown Amid COVID-19 on Ambient Air Quality in 16 Indian Cities. <i>Frontiers in Sustainable Cities</i> , 2021, 3, .   | 1.2 | 18        |
| 14 | Arsenic enrichment in groundwater and associated health risk in Bari doab region of Indus basin, Punjab, India. <i>Environmental Pollution</i> , 2020, 256, 113324.  | 3.7 | 68        |
| 15 | Assessment of urban area dynamics in world's second largest megacity at sub-city (district) level during 1973-2016 along with regional planning. <i>Remote Sensing Applications: Society and Environment</i> , 2020, 20, 100383. | 0.8 | 4         |
| 16 | Impacts of Vegetation and Topography on Land Surface Temperature Variability over the Semi-Arid Mountain Cities of Saudi Arabia. <i>Atmosphere</i> , 2020, 11, 762.  | 1.0 | 40        |
| 17 | Predicting impact of urbanization on water resources in megacity Delhi. <i>Remote Sensing Applications: Society and Environment</i> , 2020, 20, 100361.  | 0.8 | 12        |
| 18 | Geochemical, Topographical, and Meteorological Controls on Groundwater Arsenic Contamination in Sharda River Basin of Uttar Pradesh, India. <i>Journal of Climate Change</i> , 2020, 6, 71-87.                                   | 0.2 | 8         |

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|----|--|-----|-----------|
| 19 | Google Earth Engine for the Detection of Soiling on Photovoltaic Solar Panels in Arid Environments. <i>Remote Sensing</i> , 2020, 12, 1466.  | 1.8 | 24        |
| 20 | Regulation of groundwater arsenic concentrations in the Ravi, Beas, and Sutlej floodplains of Punjab, India. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 276, 384-403.  | 1.6 | 14        |
| 21 | Geochemistry and associated human health risk through potential harmful elements (PHEs) in groundwater of the Indus basin, India. <i>Environmental Earth Sciences</i> , 2020, 79, 1.                                     | 1.3 | 15        |
| 22 | Predicting groundwater arsenic contamination: Regions at risk in highest populated state of India. <i>Water Research</i> , 2019, 159, 65-76.   | 5.3 | 83        |
| 23 | Field testing of over 30,000 wells for arsenic across 400 villages of the Punjab plains of Pakistan and India: Implications for prioritizing mitigation. <i>Science of the Total Environment</i> , 2019, 654, 1358-1363. | 3.9 | 47        |
| 24 | Identification of resource management domain-specific best practices in the agriculture sector for the Mewat region of Haryana, India. <i>Environment, Development and Sustainability</i> , 2019, 21, 2277-2296.         | 2.7 | 3         |
| 25 | Quantitative analysis of the methane gas emissions from municipal solid waste in India. <i>Scientific Reports</i> , 2018, 8, 2913.   | 1.6 | 57        |
| 26 | CaRiRO: Gradient and residual integrated rank ordering of stations in rainfall monitoring network. <i>Earth Science Informatics</i> , 2018, 11, 273-286.   | 1.6 | 0         |
| 27 | Spatial analysis of soil resources in the Mewat district in the semiarid regions of Haryana, India. <i>Environment, Development and Sustainability</i> , 2018, 20, 661-680.  | 2.7 | 9         |
| 28 | Hydro-Geochemical Assessment of Groundwater Quality in Aseer Region, Saudi Arabia. <i>Water (Switzerland)</i> , 2018, 10, 1847.  | 1.2 | 62        |
| 29 | Examining the rainfall–topography relationship using non-stationary modelling technique in semi-arid Aseer region, Saudi Arabia. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.                                    | 0.6 | 14        |
| 30 | A Comparative Analysis of Fluoride Contamination in a Part of Western India and Indus River Basin. <i>Springer Hydrogeology</i> , 2018, , 257-274.   | 0.1 | 0         |
| 31 | Arsenic contamination in Rapti River Basin, Terai region of India. <i>Journal of Geochemical Exploration</i> , 2018, 192, 120-131.   | 1.5 | 35        |
| 32 | Urban Growth and Management in Lucknow City, the Capital of Uttar Pradesh. , 2018, , 109-122.  |     | 4         |
| 33 | Evaluation of Spectral Mapping Methods of Mineral Aggregates and Rocks along the Thrust Zones of Uttarakhand Using Hyperion Data. , 2018, , 251-274.   |     | 1         |
| 34 | Geographically weighted regression based quantification of rainfall–topography relationship and rainfall gradient in Central Himalayas. <i>International Journal of Climatology</i> , 2017, 37, 1299-1309.               | 1.5 | 45        |
| 35 | Multivariate statistical analysis and geochemical modeling for geochemical assessment of groundwater of Delhi, India. <i>Journal of Geochemical Exploration</i> , 2017, 175, 59-71.                                      | 1.5 | 158       |
| 36 | Non-stationary modelling framework for rainfall interpolation in complex terrain. <i>International Journal of Climatology</i> , 2017, 37, 4171-4185.   | 1.5 | 16        |

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|----|---|-----|-----------|
| 37 | Evaluation of aqueous geochemistry of fluoride enriched groundwater: A case study of the Patan district, Gujarat, Western India. <i>Water Science</i> , 2017, 31, 215-229.  | 0.5 | 53        |
| 38 | Demand for environmental quality information and household response: Evidence from well-water arsenic testing. <i>Journal of Environmental Economics and Management</i> , 2017, 86, 160-192.                            | 2.1 | 24        |
| 39 | A GIS-based methodological framework to characterize the Resource Management Domain (RMD): A case study of Mewat district, Haryana, India. <i>Land Use Policy</i> , 2017, 60, 90-100.                                   | 2.5 | 8         |
| 40 | Clustering Data and Incorporating Topographical Variables for Improving Spatial Interpolation of Rainfall in Mountainous Region. <i>Water Resources Management</i> , 2017, 31, 425-442.                                 | 1.9 | 11        |
| 41 | DEM-based delineation for improving geostatistical interpolation of rainfall in mountainous region of Central Himalayas, India. <i>Theoretical and Applied Climatology</i> , 2017, 130, 51-58.                          | 1.3 | 11        |
| 42 | Estimating Potential Methane Emission from Municipal Solid Waste and a Site Suitability Analysis of Existing Landfills in Delhi, India. <i>Technologies</i> , 2017, 5, 62.  | 3.0 | 20        |
| 43 | Cause and Occurrence of Drought. , 2017, , 137-148.   |     | 1         |
| 44 | Integrated Assessment of Groundwater for Agricultural Use in Mewat District of Haryana, India Using Geographical Information System (GIS). <i>Journal of the Indian Society of Remote Sensing</i> , 2016, 44, 747-758.  | 1.2 | 38        |
| 45 | Hydrogeochemical Evolution and Appraisal of Groundwater Quality in Panna District, Central India. <i>Exposure and Health</i> , 2016, 8, 19-30.  | 2.8 | 26        |
| 46 | Evaluation of LiDAR and image segmentation based classification techniques for automatic building footprint extraction for a segment of Atlantic County, New Jersey. <i>Geocarto International</i> , 2016, 31, 694-713. | 1.7 | 10        |
| 47 | Depositional environment in great Indian desert using grain size parameters and its chemical characterization. <i>Journal of the Geological Society of India</i> , 2015, 86, 412-420.                                   | 0.5 | 2         |
| 48 | Tree species biomass and carbon stock measurement using ground based-LiDAR. <i>Geocarto International</i> , 2015, 30, 293-310.  | 1.7 | 9         |
| 49 | Characterization of Hydrogeochemical Processes and Fluoride Enrichment in Groundwater of South-Western Punjab. <i>Water Quality, Exposure, and Health</i> , 2015, 7, 373-387.   | 1.5 | 56        |
| 50 | Geospatial and geostatistical approach for groundwater potential zone delineation. <i>Hydrological Processes</i> , 2015, 29, 395-418.   | 1.1 | 116       |
| 51 | Aqueous geochemistry of fluoride enriched groundwater in arid part of Western India. <i>Environmental Science and Pollution Research</i> , 2015, 22, 2668-2678.   | 2.7 | 58        |
| 52 | Determining the genetic origin of nitrate contamination in aquifers of Northern Gujarat, India. <i>Environmental Earth Sciences</i> , 2014, 71, 1711-1719.  | 1.3 | 20        |
| 53 | Geochemical characterization and heavy metal contamination of groundwater in Satluj River Basin. <i>Environmental Earth Sciences</i> , 2014, 71, 201-216.   | 1.3 | 56        |
| 54 | Geophysical approach to delineate arsenic hot spots in the alluvial aquifers of Bhagalpur district, Bihar (India) in the central Gangetic plains. <i>Applied Water Science</i> , 2014, 4, 89-97.                        | 2.8 | 7         |

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|----|--|-----|-----------|
| 55 | Fluoride enrichment in aquifers of the Thar Desert: controlling factors and its geochemical modelling. <i>Hydrological Processes</i> , 2013, 27, 2462-2474.  | 1.1 | 57        |
| 56 | Geochemical modelling, ionic ratio and GIS based mapping of groundwater salinity and assessment of governing processes in Northern Gujarat, India. <i>Environmental Earth Sciences</i> , 2013, 69, 2377-2391.                                      | 1.3 | 43        |
| 57 | Chemometric analysis to infer hydro-geochemical processes in a semi-arid region of India. <i>Arabian Journal of Geosciences</i> , 2013, 6, 2915-2932.  | 0.6 | 21        |
| 58 | Modeling urban heat islands in heterogeneous land surface and its correlation with impervious surface area by using night-time ASTER satellite data in highly urbanizing city, Delhi-India. <i>Advances in Space Research</i> , 2013, 52, 639-655. | 1.2 | 133       |
| 59 | Remote Sensing Applications to Infer Yield of Tea in a Part of Sri Lanka. , 2013, , 91-111.  |     | 0         |
| 60 | Land surface emissivity retrieval based on moisture index from LANDSAT TM satellite data over heterogeneous surfaces of Delhi city. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2012, 19, 348-358.              | 1.4 | 76        |
| 61 | Delineation of Groundwater Potential Zones in Arid Region of Indiaâ€”A Remote Sensing and GIS Approach. <i>Water Resources Management</i> , 2012, 26, 2643-2672.   | 1.9 | 176       |
| 62 | Characterization and evaluation of processes governing the groundwater quality in parts of the Sabarmati basin, Gujarat using hydrochemistry integrated with GIS. <i>Hydrological Processes</i> , 2012, 26, 1538-1551.                             | 1.1 | 55        |
| 63 | Genetically modified Cotton species detection by LISS-III satellite data. <i>Nature Precedings</i> , 2011, , .   | 0.1 | 0         |
| 64 | Identification of erosional and inundation hazard zones in Kenâ€™Betwa river linking area, India, using remote sensing and GIS. <i>Environmental Monitoring and Assessment</i> , 2011, 182, 341-360.   | 1.3 | 16        |
| 65 | Application of GWQI to Assess Effect of Land Use Change on Groundwater Quality in Lower Shiwaliks of Punjab: Remote Sensing and GIS Based Approach. <i>Water Resources Management</i> , 2011, 25, 1881-1898.                                       | 1.9 | 84        |
| 66 | Geochemical Modeling of High Fluoride Concentration in Groundwater of Pokhran Area of Rajasthan, India. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2011, 86, 152-158.   | 1.3 | 87        |
| 67 | Quantitative modeling of groundwater in Satluj River basin of Rupnagar district of Punjab using remote sensing and geographic information system. <i>Environmental Earth Sciences</i> , 2011, 62, 871-881.   | 1.3 | 66        |
| 68 | Integrating multivariate statistical analysis with GIS for geochemical assessment of groundwater quality in Shiwaliks of Punjab, India. <i>Environmental Earth Sciences</i> , 2011, 62, 1387-1405.   | 1.3 | 95        |
| 69 | Monitoring change in land use and land cover in Rupnagar district of Punjab, India using Landsat and IRS LISS III satellite data. <i>Ecological Questions</i> , 2010, 13, .  | 0.1 | 0         |
| 70 | Genetically modified Cotton species detection by LISS-III satellite data. <i>Nature Precedings</i> , 2008, , .   | 0.1 | 1         |
| 71 | Genetically modified Cotton species detection by LISS-III satellite data. <i>Nature Precedings</i> , 2008, , .   | 0.1 | 0         |
| 72 | Monitoring change in land use and land cover in Rupnagar district of Punjab, India using Landsat and IRS LISS III satellite data. <i>Ecological Questions</i> , 0, 13, 73.   | 0.1 | 7         |

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|----|---|-----|-----------|
| 73 | Vermicomposting of terrestrial weeds <i>Lantana camara</i> L. and <i>Parthenium hysterophorus</i> L.: agriculture solid waste. <i>Ecological Questions</i> , 0, 28, 63. | 0.1 | 2         |