Dr. Prafull Kumar Singh
M.Sc. (Geology), Ph.D. (Hydrogeology)
Associate Professor
E-mail: prafullsingh@cusb.ac.in pks.jiwaji@gmail.com
Mobile : +91- 9958196406

Scopus Id54394070900

Google Scholar Idhttps://scholar.google.com/citations?user=OedZhWUA

Orcid Id0000-0003-1881-8751

Areas of Expertise/Research Interest:

Prafull Singh *is* a Associate Professor in the Department of Geology under School of Earth, Biological and Environmental Sciences of the Central University of South Bihar. He has more than 12 years of teaching and research experience. Dr. Singh major research interests are groundwater recharge and potential modeling, Hydrogeophysics, Environmental Geology, Aquifer Vulnerability and pollution modeling, Urban Hydrology, landslide susceptibility mapping, flood and drought prediction. Application of remote sensing in urban heat island (UHI), watershed modeling and river basin management.

Prior to joining CUSB, he served for Amity Institute of Geoinfomatics and Remote Sensing, Amity University Noida since 2012 and prior to Amity University; he served as Assistant Professor in Maulana Azad National Institute of Technology (MANIT) and Rajeev Gandhi Prodogiki Visvdyalaya, Bhopal.He Awarded DST young Scientist award and completed one Science & Engineering Research Board (SERB), Govt of India funded project as Principal Investigator. He received the European Union Fellowship to Visit University of Salzburg Austria as Visiting Professor and having research collaboration with international organizations. He also awarded Certificate of Appreciation in Shikshak Samman Samaroh , Organized Rashtriya Shaikshik Mahasangh,U.P. Dr. Singh also served for many administrative positions in the University as Chair person Interview board, BOS member, research coordinator, Program coordinator, member secretary of research program of Amity University Noida. He also contributed as founding member of Amity Institute of Geoinformatics and Remote Sensing, Amity University Noida and established many programs in the Institute like M.Sc. GIS & Remote Sensing, M.Tech. Geoinformatics and M.Sc. Applied Geology Programs of the university. He also developed many labs such as Remote Sensing & GIS lab, Groundwater modeling and Hydrogeology labs. Dr. Singh supervised many Ph.D. (06) and PG (40) level students in his previous institutions. He also edited 03 books on earth and environmental issues with International repute publishers. He has presented / participated in number of National and International Conference and delivered many invited talk in conferences and training programs. He served as reviewer for many International journals in the field of water resources, urban

environmental monitoring and Remote Sensing. He has the membership with many scientific journal and acting as editorial board member.

He has published more than 50 International research papers in renowned peer-reviewed journals in the field of earth, environment and hydrology. Some of the important are listed below.

1. Ujjwal Sur and **Prafull Singh*,** Sansar Raj Meena (2020) Landslide Susceptibility Assessment in a Lesser Himalayan Road Corridor (India) applying Fuzzy AHP technique and Earth-Observation data. Geomatics, Natural Hazards and Risk. 2176-2209 **(IF.3.333)**

2. **Prafull Singh*,** Ankit Sharma, Ujjwal Sur, P.K.Rai (2020) Comparative landslide susceptibility assessment using statistical information value and index of entropy model in Bhanupali-Beri region, Himachal Pradesh, India. Environment, Development and Sustainability DOI: 10.1007/s10668-020-00811-0 **(IF: 2.191).**
3. Ujjwal Sur and **Prafull Singh*** (2020) assessment of landscape change of lesser Himalayan road corridor of Uttarakhand, India. Journal of Landscape Ecology. 13,1-22.

4. Pradipika Verma, **Prafull Singh*,** S.K.Srivastva (2020) Development of Spatial Decision Making for Groundwater Recharge Suitability Assessment by Considering Geoinformatics and Field Data. Arabian Journal of Geosciences, DOI: 10.1007/s12517-020-05290-1**(IF-1.141).**

5. Sushma Shastri, **Prafull Singh***, Pradipika Verma, P K Rai and A.P.Singh (2020) Land cover change dynamics and their impacts on thermal environment of Dadri block, Gautam Budh Nagar, India. Journal of Landscape Ecology.13 (2), 1-13 DOI: 10.2478/jlecol-2020-0007.

6. P.K.Rai, **Prafull Singh** (2020) Climate change effect on water resources in the Varanasi district, India.DOI: 10.1002/met.1863, Meteorological Applications. 1-16**.(IF.1.685).**

7. M.M. Nistor, P.K.Rai, I.A. Carebia, **Prafull Singh** (2020) Comparison of the effectiveness of two budyko-based methods for actual evapotranspiration in Uttar Pradesh, India. Geographia Technica, 15,1 – 15.
8. P.K.Rai , **Prafull Singh**, V.N.Mishra , Anisha Singh(2019) Geospatial approach for quantitative drainage morphometric analysis of Varuna river basin, India. Journal of Landscape Ecology, 12, 1-25.
9. Gopal Krishna, R. N. Sahoo, **Prafull Singh,** Himesh Patra, Vaishangi Bajpai (2019) Application of thermal imaging and Hyperspectral remote sensing for crop water deficit stress monitoring. Geocarto International.DOI:(10.1080/10106049.2019.1618922) **(IF.3.789)**

10. Pradipika Verma, **Prafull Singh*,** S.K.Srivastva (2019) Impact of Land use change dynamics on sustainability of groundwater resources using Earth Observation Data. Environment, Development and Sustainability.DOI:10.1007/s10668-019-00420-6. (**IF: 2.191).**
11. Gopal Krishnaa, R. N. Sahoo, **Prafull Singh,** Vaishangi Bajpai, Himesh Patra (2019) Comparison of Various Modeling Approaches for Water Deficit Stress Monitoring in Rice Crop through Hyperspectral Remote Sensing. Agriculture Water Management. 213, 231–244**. (IF.4.021).**
12. Anindita Sarkar Chaudhuri, **Prafull Singh*,** S. C. Rai (2018) Modeling LULC Change Dynamics and its Impact on Environment and Water Security: Geospatial Technology Based Assessment. Journal of Ecology, Environment and conservatio*n* .24, 300-306.
13. Shivangi S. Somvanshi, Oshin Bhalla, P.Kunwar, Madhulika Singh, **Prafull Singh*** (2018) Monitoring spatial LULC changes and its growth prediction based on Statistical Models and Earth Observation Datasets of Gautam Buddha Nagar, Uttar Pradesh, India. Environment, Development and Sustainability. DOI: 10.1007/s10668-018-0234-8**. (IF: 2.191).**
14. Ankit Sharma, **Prafull Singh***, P. K.Rai (2018). Morphotectonic Analysis of Sheer Khadd River Basin Using Geo-spatial Tools. Spatial Information Research. 26, 4 , 405–414.
15. P.K.Rai, R.S.Chandel, V.N.Mishra, **Prafull Singh** (2018) Hydrological inferences through morphometric analysis of lower Kosi River basin of India for water resource management based on remote sensing data. Applied Water Science, DOI**:** 10.1007/s13201-018-0660-7.
16. **Prafull Singh** , N.Kikon , P.Verma (2017) Impact of land use change and urbanization on urban heat island in Lucknow city, Central India. A remote sensing based estimate. Sustainable Cities and Society. 32: 100-114**. (IF-5.268)**
17. P.KRai, P. K. Chaubey1, K. Mohan, **Prafull Singh**(2017) Geoinformatics for assessing the inferences of quantitative drainage morphometry of the Narmada Basin in India. Applied Geomatics. 9. 167–189
18. A.S.Chaudhary ,**Prafull Singh***, S.C.Rai (2017) Assessment of impervious surface growth in urban environment through remote sensing estimates. Environmental Earth Science, 76:541-554. **(IF.2.180)**
19. A. Banarjee ,**Pafull Singh***, K.Pratap (2017) Morphometric evaluation of Swarnrekha watershed, Madhya Pradesh, India: an integrated GIS-based approach. Applied Water Science. 7: 1807–1815.
20. Kikon, N. **Prafull Singh*,** Singh, S.K., Vyas, A. (2016) Assessment of urban heat islands (UHI) of Noida City, India using multi-temporal satellite data. Sustainable Cities and Society. 32: 100-114. (**IF-5.268)**

21. A. Banarjee ,**Pafull Singh***, K.Pratap (2016) Hydrogeological Component Assessment for Water Resources Management of Semi-Arid Region: A Case Study of Gwalior, M.P., India. Aabian Journal of Geoscience. DOI: 10.1007/s12517-016-2736-8**. (IF-1.141)**
22. S.K.Singh, **Prafull Singh*,** S.K.Gautam (2016) Appraisal of Urban Lake Water Quality through Numerical Index, Multivariate Statistics and Earth Observation Datasets. International Journal of Environmental Science and Technology. 445-456. (Impact Factor **2.540).**
23. **Prafull Singh,** Ankit Sharma , M.Singh (2014) Hydrological Inferences from Watershed Analysis for Water Resource Management using Remote Sensing and GIS Techniques. Egyptian Journal of Remote Sensing and Space Sciences. 17, 111–121.
24. **Prafull Singh,** J.K.Thakur and U.C.Singh (2013) Morphometric analysis of Morar River Basin, Madhya Pradesh, India, using remote sensing and GIS techniques. Environmental Earth Science (68:1967–1977). **(IF.2.180)**
25. **Prafull Singh**, J.K.Thakur , S.Kumar (2013) Assessment of Groundwater Prospect zones of a hard rock terrain using Geospatial tool. Hydrological Science Journal (58: 213-223). **(IF. 2.186)**
26. J.K.Thakur , **Prafull Singh,** S.K.Singh, B.Bhaghel (2013) Geochemical modelling of fluoride concentration of hard rock terrain of Madhya Pradesh, India. Acta Geologica Sinica. 87: 1421-1433. **(IF.1.973)**
27. **Prafull Singh**, U.C.Singh , S.Kumar (2011) Groundwater resource evaluation in the Gwalior area, India, using satellite data: an integrated geomorphologic and geophysical approach. Hydrogeology Journal.19: 1421–1429. **(IF.2.641).**