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Hydrology and Water Resource Management

Countries	India
Region	Indo-Gangetic Plains

Topics of last three projects

- Climate Variability and Food Security
- Urban Sprawl and its Impact on Groundwater Hydrology
- Agricultural Diversity and Food Security in Central Himalaya

Envisioned activities in Commission

attend/ organise meetings	Yes
contribute to publications	Yes
read newsletter	Yes
joint research, collaboration	Yes
Other (please specify)	

Photo of yourself you would like to see on the Commission's website



- | 1 | Impact of anthropogenic and geological factors on groundwater hydrochemistry in the unconfined aquifers of Indo-Gangetic plain. |
|----|---|
| 2 | Assessment of groundwater quality beneath agriculturally advanced region of Northern Alluvial Plain, India. |
| 3 | Evaluating geologic and anthropogenic impact on groundwater level dynamics in Chhotanagpur Plateau, India. |
| 4 | Sustainable water resource management in Chhotanagpur Plateau, India |
| 5 | Impact of anthropogenic activities on the alluvial aquifers of north-east Punjab, India |
| 6 | Probabilistic groundwater recharge zonation in hard rock terrain using geospatial techniques in Veniar watershed, South India |
| 7 | Hydrogeochemical evaluation of groundwater quality for drinking and irrigation purposes using water quality index in semi-arid region |
| 8 | Assessment of impervious surface growth in urban environment through Remote Sensing estimates |
| 9 | Drivers of land-use/cover change and its impact on Pong Dam wetland. |
| 10 | Geo-hydrological inferences through morphometric aspects of the Himalayan glacial-fed river: a case study of the Madhyamahesh |

Research interests in water (select maximum 10)

Climate & Water	Hydrological extreme events	Water flow	Surface water	Ground water	Marine Environment	Aquatic habitats/ Ecosystems	Water availability
Water in arid areas <input checked="" type="checkbox"/>	Floods <input checked="" type="checkbox"/>	Catchment processes <input type="checkbox"/>	Limnology <input type="checkbox"/>	Soil water <input type="checkbox"/>	Coastal waters <input type="checkbox"/>	Wetlands <input checked="" type="checkbox"/>	Water utility <input type="checkbox"/>
Arctic water <input type="checkbox"/>	Droughts <input type="checkbox"/>	Run-off generation <input type="checkbox"/>	Fluvial dynamics <input checked="" type="checkbox"/>	Karst water <input type="checkbox"/>	Estuarian waters <input type="checkbox"/>	Lakes <input type="checkbox"/>	Water storage <input type="checkbox"/>
Water cycle <input type="checkbox"/>	Ice phenomena <input type="checkbox"/>	Groundwater-Surface water interactions <input checked="" type="checkbox"/>	Continental scale processes <input type="checkbox"/>	Hydrogeology <input checked="" type="checkbox"/>		Peatlands <input type="checkbox"/>	Dams / Reservoirs <input type="checkbox"/>
Atmospheric water <input type="checkbox"/>		Hyporheic processes <input type="checkbox"/>	Dams / Reservoirs <input type="checkbox"/>	Recharge <input type="checkbox"/>		Rivers <input type="checkbox"/>	Water scarcity <input type="checkbox"/>
Glaciers & Cryosphere <input type="checkbox"/>		Interstitial water <input type="checkbox"/>	Sediments <input type="checkbox"/>				Supply & Distribution <input type="checkbox"/>
		Porwater <input type="checkbox"/>	Rivers <input type="checkbox"/>				Water allocation <input type="checkbox"/>
		Alluvial water <input type="checkbox"/>	Floodplains <input type="checkbox"/>				Water restrictions <input type="checkbox"/>

Modelling and GIS	Water quality	Water & Health	Water & Energy	Water management/ policy	Water use	Water Law & Economics	Socio-political aspects
Hydro GIS <input type="checkbox"/>	Pollution <input type="checkbox"/>	Water & Sanitation <input type="checkbox"/>	Water-Energy nexus <input type="checkbox"/>	Integrated Catchment management <input type="checkbox"/>	Urban <input checked="" type="checkbox"/>	Water trade <input type="checkbox"/>	Water history <input type="checkbox"/>
Groundwater modelling <input type="checkbox"/>	Purification <input type="checkbox"/>	Water & Food <input type="checkbox"/>	Water for energy <input type="checkbox"/>	Integrated water resource management <input checked="" type="checkbox"/>	Agricultural <input type="checkbox"/>	Virtual water <input type="checkbox"/>	Water wars <input type="checkbox"/>
Surface water modelling <input type="checkbox"/>	Hydrochemistry <input checked="" type="checkbox"/>	Waterborne diseases <input type="checkbox"/>	Energy for water <input type="checkbox"/>	Water loss <input type="checkbox"/>	Mine water <input type="checkbox"/>	Privatisation <input type="checkbox"/>	Water & Poverty <input type="checkbox"/>
Remote sensing <input type="checkbox"/>	Treatment <input type="checkbox"/>	Drinking water <input type="checkbox"/>	Water, Food & Energy <input type="checkbox"/>	Reticulation & Supply <input type="checkbox"/>	Industrial <input type="checkbox"/>	Water as public good <input type="checkbox"/>	Access to water <input type="checkbox"/>
	Desalination <input type="checkbox"/>	Water purification <input type="checkbox"/>		Transboundary water <input type="checkbox"/>	Grey water <input type="checkbox"/>	Right to water <input checked="" type="checkbox"/>	
	Waste water <input type="checkbox"/>				Green water <input type="checkbox"/>	Bills & Laws <input type="checkbox"/>	
	Sewage <input type="checkbox"/>				Blue water <input type="checkbox"/>	Affordability <input type="checkbox"/>	
					Return water <input type="checkbox"/>		
					Water sustainability <input type="checkbox"/>		
					Competing water use <input type="checkbox"/>		

Other (please specify)

I am also working on climate variability and its impact on agro-biodiversity in Himalayan region.

Research interests in water (supply 5 keywords)

Groundwater Quality	River Discharge	Wetland Hydrology	Climate Change	Flood Problem
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Topics of last 10 publications

Publication links

- | 1 | https://doi.org/10.1016/j.pce.2022.103109 |
|----|---|
| 2 | https://doi.org/10.3390/su13137053 |
| 3 | https://doi.org/10.1007/s12517-021-07298-7 |
| 4 | http://doi.org/10.1007/s40899-020-00453-0 |
| 5 | https://doi.org/10.1007/s10661-020-08496-8 |
| 6 | https://doi.org/10.1016/j.ecohyd.2019.01.004 |
| 7 | https://doi.org/10.1007/s12594-020-1405-4 |
| 8 | https://doi.org/10.1007/s12665-017-6877-1 |
| 9 | https://doi.org/10.1007/s10661-019-7347-x |
| 10 | https://doi.org/10.1007/s12517-020-05571-9 |