

Soumendra N Bhanja

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,598
citations

393982

19
h-index

329751

37
g-index

55
all docs

55
docs citations

55
times ranked

1573
citing authors

#	ARTICLE	IF	CITATIONS
1	Global GRACE Data Assimilation for Groundwater and Drought Monitoring: Advances and Challenges. <i>Water Resources Research</i> , 2019, 55, 7564-7586.	1.7	229
2	Combining Physically Based Modeling and Deep Learning for Fusing GRACE Satellite Data: Can We Learn From Mismatch?. <i>Water Resources Research</i> , 2019, 55, 1179-1195.	1.7	131
3	Groundwater systems of the Indian Sub-Continent. <i>Journal of Hydrology: Regional Studies</i> , 2015, 4, 1-14.	1.0	125
4	Validation of GRACE based groundwater storage anomaly using in-situ groundwater level measurements in India. <i>Journal of Hydrology</i> , 2016, 543, 729-738.	2.3	121
5	Groundwater depletion causing reduction of baseflow triggering Ganges river summer drying. <i>Scientific Reports</i> , 2018, 8, 12049.	1.6	116
6	Groundwater rejuvenation in parts of India influenced by water-policy change implementation. <i>Scientific Reports</i> , 2017, 7, 7453.	1.6	109
7	Benefits and pitfalls of GRACE data assimilation: A case study of terrestrial water storage depletion in India. <i>Geophysical Research Letters</i> , 2017, 44, 4107-4115.	1.5	102
8	Evaluating the Uncertainty of Terrestrial Water Budget Components Over High Mountain Asia. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	47
9	Spatio-temporal variability of groundwater storage in India. <i>Journal of Hydrology</i> , 2017, 544, 428-437.	2.3	44
10	In situ and satellite-based estimates of usable groundwater storage across India: Implications for drinking water supply and food security. <i>Advances in Water Resources</i> , 2019, 126, 15-23.	1.7	44
11	Long-term groundwater recharge rates across India by in situ measurements. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 711-722.	1.9	43
12	Estimating long-term groundwater storage and its controlling factors in Alberta, Canada. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 6241-6255.	1.9	39
13	Sources and radiative effects of wintertime black carbon aerosols in an urban atmosphere in east India. <i>Chemosphere</i> , 2013, 90, 260-269.	4.2	38
14	Using Satellite-Based Vegetation Cover as Indicator of Groundwater Storage in Natural Vegetation Areas. <i>Geophysical Research Letters</i> , 2019, 46, 8082-8092.	1.5	35
15	Microbial kinetics and thermodynamic (MKT) processes for soil organic matter decomposition and dynamic oxidation-reduction potential: Model descriptions and applications to soil N ₂ O emissions. <i>Environmental Pollution</i> , 2019, 247, 812-823.	3.7	29
16	Three decades of depth-dependent groundwater response to climate variability and human regime in the transboundary Indus-Ganges-Brahmaputra-Meghna mega river basin aquifers. <i>Advances in Water Resources</i> , 2021, 149, 103856.	1.7	29
17	Groundwater storage change detection from in situ and GRACE-based estimates in major river basins across India. <i>Hydrological Sciences Journal</i> , 2020, 65, 650-659.	1.2	27
18	Machine-learning-based regional-scale groundwater level prediction using GRACE. <i>Hydrogeology Journal</i> , 2021, 29, 1027-1042.	0.9	25

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19	Aerosol extinction properties over coastal West Bengal Gangetic plain under inter-seasonal and sea breeze influenced transport processes. <i>Atmospheric Research</i> , 2016, 167, 224-236.	1.8	23
20	Aerosol optical and physical properties during winter monsoon pollution transport in an urban environment. <i>Environmental Science and Pollution Research</i> , 2014, 21, 4977-4994.	2.7	19
21	Impact of Covid-19 Lockdown on Availability of Drinking Water in the Arsenic-Affected Ganges River Basin. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 2832.	1.2	19
22	Estimating influences of environmental drivers on soil heterotrophic respiration in the Athabasca River Basin, Canada. <i>Environmental Pollution</i> , 2020, 257, 113630.	3.7	18
23	Using night time lights to find regional inequality in India and its relationship with economic development. <i>PLoS ONE</i> , 2020, 15, e0241907.	1.1	18
24	Impact of sanitation and socio-economy on groundwater fecal pollution and human health towards achieving sustainable development goals across India from ground-observations and satellite-derived nightlight. <i>Scientific Reports</i> , 2019, 9, 15193.	1.6	17
25	Deep Learning-Based Forecasting of Groundwater Level Trends in India: Implications for Crop Production and Drinking Water Supply. <i>ACS ES&T Engineering</i> , 2021, 1, 965-977.	3.7	17
26	Groundwater Storage Variations in India. <i>Springer Hydrogeology</i> , 2018, , 49-59.	0.1	16
27	Modelling microbial kinetics and thermodynamic processes for quantifying soil CO ₂ emission. <i>Atmospheric Environment</i> , 2019, 209, 125-135.	1.9	16
28	Vulnerability of groundwater from elevated nitrate pollution across India: Insights from spatio-temporal patterns using large-scale monitoring data. <i>Journal of Contaminant Hydrology</i> , 2021, 243, 103895.	1.6	16
29	Predicting Regional-Scale Elevated Groundwater Nitrate Contamination Risk Using Machine Learning on Natural and Human-Induced Factors. <i>ACS ES&T Engineering</i> , 2022, 2, 689-702.	3.7	14
30	Modelling Watershed and River Basin Processes in Cold Climate Regions: A Review. <i>Water (Switzerland)</i> , 2021, 13, 518.	1.2	11
31	Groundwater faecal pollution observation in parts of Indo-Gangesâ€“Brahmaputra river basin from in-situ measurements and satellite-based observations. <i>Journal of Earth System Science</i> , 2019, 128, 1.	0.6	10
32	Achieving Sustainable Development Goal for Clean Water in India: Influence of Natural and Anthropogenic Factors on Groundwater Microbial Pollution. <i>Environmental Management</i> , 2020, 66, 742-755.	1.2	10
33	Use of machine learning and deep learning methods in groundwater. , 2021, , 545-557.		10
34	Influence of environmental factors on autotrophic, soil and ecosystem respirations in Canadian boreal forest. <i>Ecological Indicators</i> , 2021, 125, 107517.	2.6	9
35	Estimating Present-Day Groundwater Recharge Rates in India. <i>Springer Hydrogeology</i> , 2018, , 37-47.	0.1	1
36	Emerging groundwater and surface water trends in Alberta, Canada. , 2021, , 73-79.		1

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37	Groundwater sustainability and security in South Asia. , 2021, , 469-476.		1
38	Short-Term and Long-Term Replenishment of Water Storage Influenced by Lockdown and Policy Measures in Drought-Prone Regions of Central India. Remote Sensing, 2022, 14, 1768.	1.8	0
39	Soil CO2 Emission Largely Dominates the Total Ecosystem CO2 Emission at Canadian Boreal Forest. Frontiers in Environmental Science, 0, 10, .	1.5	0