Soumendra N Bhanja

List of Publications by Year
in descending order

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	Predicting Regional-Scale Elevated Groundwater Nitrate Contamination Risk Using Machine Learning on Natural and Human-Induced Factors. ACS ES&T Engineering, 2022, 2, 689-702.	3.7	14
2	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
3	Use of machine learning and deep learning methods in groundwater. , 2021, , 545-557.		10
4	Emerging groundwater and surface water trends in Alberta, Canada. , 2021, , 73-79.		1
5	Modelling Watershed and River Basin Processes in Cold Climate Regions: A Review. Water (Switzerland), 2021, 13, 518.	1.2	11
6	Machine-learning-based regional-scale groundwater level prediction using GRACE. Hydrogeology Journal, 2021, 29, 1027-1042.	0.9	25
7	Impact of Covid-19 Lockdown on Availability of Drinking Water in the Arsenic-Affected Ganges River Basin. International Journal of Environmental Research and Public Health, 2021, 18, 2832.	1.2	19
8	Three decades of depth-dependent groundwater response to climate variability and human regime in the transboundary Indus-Ganges-Brahmaputra-Meghna mega river basin aquifers. Advances in Water Resources, 2021, 149, 103856.	1.7	29
9	Deep Learning-Based Forecasting of Groundwater Level Trends in India: Implications for Crop Production and Drinking Water Supply. ACS ES&T Engineering, 2021, 1, 965-977.	3.7	17
10	Influence of environmental factors on autotrophic, soil and ecosystem respirations in Canadian boreal forest. Ecological Indicators, 2021, 125, 107517.	2.6	9
11	Vulnerability of groundwater from elevated nitrate pollution across India: Insights from spatio-temporal patterns using large-scale monitoring data. Journal of Contaminant Hydrology, 2021, 243, 103895.	1.6	16
12	Groundwater sustainability and security in South Asia. , 2021, , 469-476.		1
13	Estimating influences of environmental drivers on soil heterotrophic respiration in the Athabasca River Basin, Canada. Environmental Pollution, 2020, 257, 113630.	3.7	18
14	Achieving Sustainable Development Goal for Clean Water in India: Influence of Natural and Anthropogenic Factors on Groundwater Microbial Pollution. Environmental Management, 2020, 66, 742-755.	1.2	10
15	Groundwater storage change detection from in situ and GRACE-based estimates in major river basins across India. Hydrological Sciences Journal, 2020, 65, 650-659.	1.2	27
16	Using night time lights to find regional inequality in India and its relationship with economic development. PLoS ONE, 2020, 15, e0241907.	1.1	18
17	Using Satelliteâ€Based Vegetation Cover as Indicator of Groundwater Storage in Natural Vegetation Areas. Geophysical Research Letters, 2019, 46, 8082-8092.	1.5	35
18	Impact of sanitation and socio-economy on groundwater fecal pollution and human health towards achieving sustainable development goalsÂacross India from ground-observations and satellite-derived nightlight. Scientific Reports, 2019, 9, 15193.	1.6	17

#	Article	IF	Citations
19	Global GRACE Data Assimilation for Groundwater and Drought Monitoring: Advances and Challenges. Water Resources Research, 2019, 55, 7564-7586.	1.7	229
20	Evaluating the Uncertainty of Terrestrial Water Budget Components Over High Mountain Asia. Frontiers in Earth Science, 2019, 7, .	0.8	47
21	Microbial kinetics and thermodynamic (MKT) processes for soil organic matter decomposition and dynamic oxidation-reduction potential: Model descriptions and applications to soil N2O emissions. Environmental Pollution, 2019, 247, 812-823.	3.7	29
22	Modelling microbial kinetics and thermodynamic processes for quantifying soil CO2 emission. Atmospheric Environment, 2019, 209, 125-135.	1.9	16
23	Groundwater faecal pollution observation in parts of Indo-Gangesâ€“Brahmaputra river basin from in-situ measurements and satellite-based observations. Journal of Earth System Science, 2019, 128, 1.	0.6	10
24	In situ and satellite-based estimates of usable groundwater storage across India: Implications for drinking water supply and food security. Advances in Water Resources, 2019, 126, 15-23.	1.7	44
25	Long-term groundwater recharge rates across India by in situ measurements. Hydrology and Earth System Sciences, 2019, 23, 711-722.	1.9	43
26	Combining Physically Based Modeling and Deep Learning for Fusing GRACE Satellite Data: Can We Learn From Mismatch?. Water Resources Research, 2019, 55, 1179-1195.	1.7	131
27	Estimating long-term groundwater storage and its controlling factors in Alberta, Canada. Hydrology and Earth System Sciences, 2018, 22, 6241-6255.	1.9	39
28	Groundwater depletion causing reduction of baseflow triggering Ganges river summer drying. Scientific Reports, 2018, 8, 12049.	1.6	116
29	Estimating Present-Day Groundwater Recharge Rates in India. Springer Hydrogeology, 2018, , 37-47.	0.1	1
30	Groundwater Storage Variations in India. Springer Hydrogeology, 2018, , 49-59.	0.1	16
31	Benefits and pitfalls of GRACE data assimilation: A case study of terrestrial water storage depletion in India. Geophysical Research Letters, 2017, 44, 4107-4115.	1.5	102
32	Groundwater rejuvenation in parts of India influenced by water-policy change implementation. Scientific Reports, 2017, 7, 7453.	1.6	109
33	Spatio-temporal variability of groundwater storage in India. Journal of Hydrology, 2017, 544, 428-437.	2.3	44
34	Validation of GRACE based groundwater storage anomaly using in-situ groundwater level measurements in India. Journal of Hydrology, 2016, 543, 729-738.	2.3	121
35	Aerosol extinction properties over coastal West Bengal Gangetic plain under inter-seasonal and sea breeze influenced transport processes. Atmospheric Research, 2016, 167, 224-236.	1.8	23
36	Groundwater systems of the Indian Sub-Continent. Journal of Hydrology: Regional Studies, 2015, 4, 1-14.	1.0	125

#	Article	IF	Citations
37	Aerosol optical and physical properties during winter monsoon pollution transport in an urban environment. Environmental Science and Pollution Research, 2014, 21, 4977-4994.	2.7	19
38	Sources and radiative effects of wintertime black carbon aerosols in an urban atmosphere in east India. Chemosphere, 2013, 90, 260-269.	4.2	38
39	Soil CO2 Emission Largely Dominates the Total Ecosystem CO2 Emission at Canadian Boreal Forest. Frontiers in Environmental Science, 0, 10, .	1.5	0