

A P Dimri

List of Publications by Year in descending order

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136
papers

4,274
citations

109264

35
h-index

143943

57
g-index

147
all docs

147
docs citations

147
times ranked

2894
citing authors

#	ARTICLE	IF	CITATIONS
1	Western Disturbances: A review. <i>Reviews of Geophysics</i> , 2015, 53, 225-246.	9.0	307
2	A massive rock and ice avalanche caused the 2021 disaster at Chamoli, Indian Himalaya. <i>Science</i> , 2021, 373, 300-306.	6.0	304
3	Wintertime climatic trends in the western Himalayas. <i>Climatic Change</i> , 2012, 111, 775-800.	1.7	226
4	A Review of High Impact Weather for Aviation Meteorology. <i>Pure and Applied Geophysics</i> , 2019, 176, 1869-1921.	0.8	162
5	Cloudbursts in Indian Himalayas: A review. <i>Earth-Science Reviews</i> , 2017, 168, 1-23.	4.0	131
6	Study of cloudburst and flash floods around Leh, India, during August 4-6, 2010. <i>Natural Hazards</i> , 2013, 65, 2175-2204.	1.6	109
7	Application of regional climate models to the Indian winter monsoon over the western Himalayas. <i>Science of the Total Environment</i> , 2013, 468-469, S36-S47.	3.9	100
8	Indian winter monsoon: Present and past. <i>Earth-Science Reviews</i> , 2016, 163, 297-322.	4.0	99
9	Glaciohydrology of the Himalaya-Karakoram. <i>Science</i> , 2021, 373, .	6.0	90
10	Temperature and Precipitation trends in Kashmir valley, North Western Himalayas. <i>Theoretical and Applied Climatology</i> , 2019, 135, 293-304.	1.3	82
11	Simulation of mesoscale features associated with intense western disturbances over western Himalayas. <i>Meteorological Applications</i> , 2009, 16, 289-308.	0.9	75
12	Regional climate model application at subgrid scale on Indian winter monsoon over the western Himalayas. <i>International Journal of Climatology</i> , 2013, 33, 2185-2205.	1.5	75
13	PM2.5 diminution and haze events over Delhi during the COVID-19 lockdown period: an interplay between the baseline pollution and meteorology. <i>Scientific Reports</i> , 2020, 10, 13442.	1.6	75
14	Decreasing Indian summer monsoon on the northern Indian sub-continent during the last 180 years: evidence from five tree-ring cellulose oxygen isotope chronologies. <i>Climate of the Past</i> , 2018, 14, 653-664.	1.3	73
15	Climate change over Leh (Ladakh), India. <i>Theoretical and Applied Climatology</i> , 2018, 131, 531-545.	1.3	71
16	Surface and Upper Air Fields During Extreme Winter Precipitation Over the Western Himalayas. <i>Pure and Applied Geophysics</i> , 2006, 163, 1679-1698.	0.8	69
17	Impact of horizontal model resolution and orography on the simulation of a western disturbance and its associated precipitation. <i>Meteorological Applications</i> , 2004, 11, 115-127.	0.9	62
18	Regional projections of North Indian climate for adaptation studies. <i>Science of the Total Environment</i> , 2013, 468-469, S4-S17.	3.9	61

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19	Assessment of the performance of CORDEX-South Asia experiments for monsoonal precipitation over the Himalayan region during present climate: part I. <i>Climate Dynamics</i> , 2018, 50, 2311-2334.	1.7	61
20	A review of atmospheric and land surface processes with emphasis on flood generation in the Southern Himalayan rivers. <i>Science of the Total Environment</i> , 2016, 556, 98-115.	3.9	56
21	Relationship between ENSO phases with Northwest India winter precipitation. <i>International Journal of Climatology</i> , 2013, 33, 1917-1923.	1.5	55
22	Model sensitivity analysis study for western disturbances over the Himalayas. <i>Meteorology and Atmospheric Physics</i> , 2014, 123, 155-180.	0.9	52
23	Monitoring land use change and its drivers in Delhi, India using multi-temporal satellite data. <i>Modeling Earth Systems and Environment</i> , 2016, 2, 1.	1.9	52
24	Future changes over the Himalayas: Mean temperature. <i>Global and Planetary Change</i> , 2018, 162, 235-251.	1.6	52
25	Future changes over the Himalayas: Maximum and minimum temperature. <i>Global and Planetary Change</i> , 2018, 162, 212-234.	1.6	52
26	Moisture source signals preserved in a 242-year tree-ring $\delta^{18}O$ chronology in the western Himalaya. <i>Global and Planetary Change</i> , 2017, 157, 73-82.	1.6	51
27	Impact of subgrid scale scheme on topography and landuse for better regional scale simulation of meteorological variables over the western Himalayas. <i>Climate Dynamics</i> , 2009, 32, 565-574.	1.7	49
28	On the relationship between ENSO patterns and winter precipitation over North and Central India. <i>Global and Planetary Change</i> , 2013, 107, 50-58.	1.6	49
29	Study of intraseasonal variability of Indian summer monsoon using a regional climate model. <i>Climate Dynamics</i> , 2016, 46, 1043-1064.	1.7	49
30	Investigation of Uttarakhand (India) disaster-2013 using weather research and forecasting model. <i>Natural Hazards</i> , 2016, 82, 1703-1726.	1.6	48
31	Interannual variability of Indian winter monsoon over the Western Himalayas. <i>Global and Planetary Change</i> , 2013, 106, 39-50.	1.6	45
32	Intraseasonal oscillation associated with the Indian winter monsoon. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1189-1198.	1.2	42
33	A new Western Disturbance Index for the Indian winter monsoon. <i>Journal of Earth System Science</i> , 2020, 129, 1.	0.6	42
34	Assessment of CORDEX-South Asia experiments for monsoonal precipitation over Himalayan region for future climate. <i>Climate Dynamics</i> , 2018, 50, 3009-3030.	1.7	41
35	Study of seasonal climatology and interannual variability over India and its subregions using a regional climate model (RegCM3). <i>Journal of Earth System Science</i> , 2014, 123, 1147-1169.	0.6	40
36	Location-specific prediction of maximum and minimum temperature over the western Himalayas. <i>Meteorological Applications</i> , 2007, 14, 79-93.	0.9	37

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37	Wintertime Seasonal Scale Simulation over Western Himalaya Using RegCM3. Pure and Applied Geophysics, 2007, 164, 1733-1746.	0.8	37
38	Assessment of present and future climate change over Kashmir Himalayas, India. Theoretical and Applied Climatology, 2019, 137, 3183-3195.	1.3	34
39	Assessment of CORDEX-SA experiments in representing precipitation climatology of summer monsoon over India. Theoretical and Applied Climatology, 2018, 134, 283-307.	1.3	33
40	Changing Indian monsoon rainfall patterns under the recent warming period 2001â€“2018. Climate Dynamics, 2021, 57, 2581-2593.	1.7	32
41	Prevention and Mitigation of Avalanche Disasters in Western Himalayan Region. Natural Hazards, 2004, 31, 357-371.	1.6	31
42	The transport of momentum, sensible heat, potential energy and moisture over the western Himalayas during the winter season. Theoretical and Applied Climatology, 2007, 90, 49-63.	1.3	31
43	Numerical simulation of an intense precipitation event over Rudraprayag in the central Himalayas during 13â€“14 September 2012. Journal of Earth System Science, 2015, 124, 1545-1561.	0.6	30
44	Western Disturbances - An Indian Meteorological Perspective. , 2016, , .		27
45	Slope Environmental Lapse Rate (SELR) of Temperature in the Monsoon Regime of the Western Himalaya. Frontiers in Environmental Science, 2018, 6, .	1.5	26
46	Location-Specific Prediction of the Probability of Occurrence and Quantity of Precipitation over the Western Himalayas. Weather and Forecasting, 2004, 19, 520-533.	0.5	23
47	Future precipitation extremes over India from the CORDEX-South Asia experiments. Theoretical and Applied Climatology, 2019, 137, 2961-2975.	1.3	23
48	On bias correction of summer monsoon precipitation over India from CORDEXâ€“SA simulations. International Journal of Climatology, 2019, 39, 1388-1403.	1.5	23
49	Elevation dependent precipitation and temperature changes over Indian Himalayan region. Climate Dynamics, 2022, 59, 1-21.	1.7	22
50	Redistribution of Indian summer monsoon by dust aerosol forcing. Meteorological Applications, 2019, 26, 584-596.	0.9	21
51	Simulation of Heavy Precipitation Associated with an Intense Western Disturbance over Western Himalayas. Natural Hazards, 2004, 31, 499-519.	1.6	20
52	Atmospheric water budget over the western Himalayas in a regional climate model. Journal of Earth System Science, 2012, 121, 963-973.	0.6	20
53	Effect of changing tropical easterly jet, low level jet and quasiâ€“biennial oscillation phases on Indian summer monsoon. Atmospheric Science Letters, 2017, 18, 52-59.	0.8	20
54	Observed Evidence for Steep Rise in the Extreme Flow of Western Himalayan Rivers. Geophysical Research Letters, 2020, 47, e2020GL087815.	1.5	20

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55	Land-Air Interactions over Urban-Rural Transects Using Satellite Observations: Analysis over Delhi, India from 1991 to 2016. <i>Remote Sensing</i> , 2017, 9, 1283.	1.8	19
56	Comparison of regional and seasonal changes and trends in daily surface temperature extremes over India and its subregions. <i>Theoretical and Applied Climatology</i> , 2019, 136, 265-286.	1.3	19
57	Regional climate projections for Northeast India: an appraisal from CORDEX South Asia experiment. <i>Theoretical and Applied Climatology</i> , 2018, 134, 1065-1081.	1.3	19
58	Assessing operative natural and anthropogenic forcing factors from long-term climate time series of Uttarakhand (India) in the backdrop of recurring extreme rainfall events over northwest Himalaya. <i>Geomorphology</i> , 2017, 284, 31-40.	1.1	18
59	Assessment of the performance of CORDEX-SA experiments in simulating seasonal mean temperature over the Himalayan region for the present climate: Part I. <i>Climate Dynamics</i> , 2018, 50, 2411-2441.	1.7	18
60	Added value of CORDEX-SA experiments in simulating summer monsoon precipitation over India. <i>International Journal of Climatology</i> , 2019, 39, 2156-2172.	1.5	18
61	Future changes in Indian summer monsoon characteristics under 1.5 and 2°C specific warming levels. <i>Climate Dynamics</i> , 2020, 54, 507-523.	1.7	18
62	Investigating Indian summer monsoon in coupled regional land-atmosphere downscaling experiments using RegCM4. <i>Climate Dynamics</i> , 2020, 54, 2959-2980.	1.7	18
63	Wintertime land surface characteristics in climatic simulations over the western Himalayas. <i>Journal of Earth System Science</i> , 2012, 121, 329-344.	0.6	17
64	Indus River Basin: Future climate and water budget. <i>International Journal of Climatology</i> , 2019, 39, 395-406.	1.5	17
65	Climatic trends in fog occurrence over the Indo-Gangetic plains. <i>International Journal of Climatology</i> , 2020, 40, 2048-2061.	1.5	17
66	How much snow falls in the world's mountains? A first look at mountain snowfall estimates in A-train observations and reanalyses. <i>Cryosphere</i> , 2020, 14, 3195-3207.	1.5	17
67	Impact of arctic oscillation on Indian winter monsoon. <i>Meteorology and Atmospheric Physics</i> , 2019, 131, 1157-1167.	0.9	16
68	Snowfall Statistics of Some SASE Field Stations in J&K. <i>Defence Science Journal</i> , 1999, 49, 437-445.	0.5	16
69	Fog Occurrence and Associated Meteorological Factors Over Kempegowda International Airport, India. <i>Pure and Applied Geophysics</i> , 2019, 176, 2179-2190.	0.8	15
70	Assessment of coupled regional climate model (RegCM4.6 to CLM4.5) for Indian summer monsoon. <i>Climate Dynamics</i> , 2019, 53, 6543-6558.	1.7	15
71	Decoding the Karakoram Anomaly. <i>Science of the Total Environment</i> , 2021, 788, 147864.	3.9	15
72	Sub-seasonal interannual variability associated with the excess and deficit Indian winter monsoon over the Western Himalayas. <i>Climate Dynamics</i> , 2014, 42, 1793-1805.	1.7	14

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73	Determining the quasi monsoon front in the Indian Himalayas. Quaternary International, 2021, 599-600, 4-14.	0.7	14
74	Knowledge Priorities on Climate Change and Water in the Upper Indus Basin: A Horizon Scanning Exercise to Identify the Top 100 Research Questions in Social and Natural Sciences. Earth's Future, 2022, 10, .	2.4	14
75	Impact of initial and boundary conditions on simulations of western disturbances and associated precipitation. Natural Hazards, 2012, 64, 1405-1424.	1.6	13
76	An intercomparison of observational precipitation data sets over Northwest India during winter. Theoretical and Applied Climatology, 2018, 132, 181-207.	1.3	13
77	Mass Balance Status of Indian Himalayan Glaciers: A Brief Review. Frontiers in Environmental Science, 2018, 6, .	1.5	13
78	Changes in rainfall seasonality pattern over India. Meteorological Applications, 2020, 27, e1823.	0.9	13
79	Synoptic-scale precursors of landslides in the western Himalaya and Karakoram. Science of the Total Environment, 2021, 776, 145895.	3.9	13
80	Effect of Reduced Traffic Density on Characteristics of Particulate Matter Over Delhi. Current Science, 2018, 115, 315.	0.4	13
81	The Contrasting Features of Winter Circulation During Surplus and Deficient Precipitation Over Western Himalayas. Pure and Applied Geophysics, 2005, 162, 2215-2237.	0.8	12
82	Impact of initial and boundary conditions on regional winter climate over the Western Himalayas: A fixed domain size experiment. Global and Planetary Change, 2014, 114, 1-13.	1.6	12
83	Contribution of diverse monsoon precipitation over Central and Northern India during mid to Late Holocene. Quaternary International, 2019, 507, 217-223.	0.7	12
84	Context of the added value in coupled atmosphere-land RegCM4â€œCLM4.5 in the simulation of Indian summer monsoon. Climate Dynamics, 2021, 56, 259-274.	1.7	12
85	Temperature over the Himalayan foothill state of Uttarakhand: Present and future. Journal of Earth System Science, 2021, 130, 1.	0.6	12
86	Rainfall over the Himalayan foot-hill region: Present and future. Journal of Earth System Science, 2020, 129, 1.	0.6	12
87	Numerical simulation of a rare winter hailstorm event over Delhi, India on 17 January 2013. Natural Hazards and Earth System Sciences, 2014, 14, 3331-3344.	1.5	11
88	Simulation study of heavy rainfall episodes over the southern Indian peninsula. Meteorological Applications, 2015, 22, 223-235.	0.9	11
89	Sensitivity of convective and land surface parameterization in the simulation of contrasting monsoons over CORDEX-South Asia domain using RegCM-4.4.5.5. Theoretical and Applied Climatology, 2020, 139, 297-322.	1.3	11
90	Precipitation forecast over western Himalayas using k-nearest neighbour method. International Journal of Climatology, 2008, 28, 1921-1931.	1.5	10

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91	Comparative analysis of two rainfall retrieval algorithms during extreme rainfall event: a case study on cloudburst, 2010 over Ladakh (Leh), Jammu and Kashmir. <i>Natural Hazards</i> , 2019, 97, 1357-1374.	1.6	10
92	Asian summer monsoon variability, global teleconnections, and dynamics during the last 1,000 years. <i>Earth-Science Reviews</i> , 2022, 230, 104041.	4.0	10
93	Inter-comparison of physical processes associated with winter and non-winter hailstorms using the weather research and forecasting (WRF) model. <i>Modeling Earth Systems and Environment</i> , 2015, 1, 1.	1.9	9
94	Isotopic analysis to quantify the role of the Indian monsoon on water resources of selected river basins in the Himalayas. <i>Hydrological Processes</i> , 2021, 35, .	1.1	9
95	Comparison of climatic trends and variability among glacierized environments in the Western Himalayas. <i>Theoretical and Applied Climatology</i> , 2018, 134, 155-163.	1.3	8
96	Meteorological trends over Satluj River Basin in Indian Himalaya under climate change scenarios. <i>Journal of Earth System Science</i> , 2020, 129, 1.	0.6	8
97	Future projection of winter precipitation over northwest India and associated regions using CORDEX-SA experiments. <i>Theoretical and Applied Climatology</i> , 2020, 139, 1317-1331.	1.3	7
98	Integrated approach for effective debris mapping in glacierized regions of Chandra River Basin, Western Himalayas, India. <i>Science of the Total Environment</i> , 2021, 779, 146492.	3.9	7
99	Genesis of a Severe Dust Storm Over the Indian Subcontinent: Dynamics and Impacts. <i>Earth and Space Science</i> , 2022, 9, e2021EA001702.	1.1	7
100	Characterizing rainfall occurrence in India: Natural variability and recent trends. <i>Journal of Hydrology</i> , 2021, 603, 126979.	2.3	7
101	A Study of Mean Winter Circulation Characteristics and Energetics over Southeastern Asia. <i>Pure and Applied Geophysics</i> , 2007, 164, 1081-1106.	0.8	6
102	Variable monsoons and human adaptations: Archaeological and palaeoenvironmental records during the last 1400 years in north-western India. <i>Holocene</i> , 2020, 30, 1332-1344.	0.9	6
103	Climate-driven acceleration in forest evapotranspiration fuelling extreme rainfall events in the Himalaya. <i>Environmental Research Letters</i> , 2021, 16, 084042.	2.2	6
104	Models to improve winter minimum surface temperature forecasts, Delhi, India. <i>Meteorological Applications</i> , 2004, 11, 129-139.	0.9	5
105	Mass-balance modelling of Gangotri glacier. <i>Geological Society Special Publication</i> , 2018, 462, 99-117.	0.8	5
106	Regional Climate Changes Over Hindukush-Karakoram-Himalaya Region. , 2018, , 143-159.		5
107	Response of streamflow to climate variability in the source region of Jhelum River Basin in Kashmir valley, India. <i>Natural Hazards</i> , 2020, 104, 611-637.	1.6	5
108	Physical Processes Affecting Radiation Fog Based on WRF Simulations and Validation. <i>Pure and Applied Geophysics</i> , 2021, 178, 4265-4288.	0.8	5

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109	Developing a science-based policy network over the Upper Indus Basin. <i>Science of the Total Environment</i> , 2021, 784, 147067.	3.9	5
110	Modeling of Indian monsoon extremes during 850-2000AD using the proxy-data from speleothems. <i>Quaternary International</i> , 2021, 599-600, 117-127.	0.7	5
111	Cotton Crop in Changing Climate. <i>Current Science</i> , 2018, 115, 948.	0.4	5
112	Bias correction demonstration in two of the Indian Himalayan river basins. <i>Journal of Water and Climate Change</i> , 2021, 12, 1297-1309.	1.2	5
113	Western Disturbances â€œ Structure. , 2016, , 1-26.		4
114	Projected changes in winter-season wet days over the Himalayan region during 2020â€œ2099. <i>Theoretical and Applied Climatology</i> , 2021, 146, 883.	1.3	4
115	Warm pool/cold tongue El NiÃ±o and Indian winter Monsoon. <i>Meteorology and Atmospheric Physics</i> , 2017, 129, 321-331.	0.9	3
116	The role of potential vorticity anomalies in the Somali Jet on Indian Summer Monsoon Intraseasonal Variability. <i>Climate Dynamics</i> , 2018, 50, 4149-4169.	1.7	3
117	Performance of an ensemble of CORDEX-SA simulations in representing maximum and minimum temperature over the Himalayan region. <i>Theoretical and Applied Climatology</i> , 2019, 136, 1047-1072.	1.3	3
118	Model-based Approach to Study the Response of Bt-cotton Towards Elevated Temperature and Carbon Dioxide in the Semi-arid Region of Hisar. <i>Journal of Climate Change</i> , 2019, 5, 35-50.	0.2	3
119	Western Disturbances â€œ Impacts and Climate Change. , 2016, , 113-127.		3
120	Non-Linearity Explanation in Artificial Neural Network Application with a Case Study of Fog Forecast Over Delhi Region. <i>Pure and Applied Geophysics</i> , 2016, 173, 1765-1781.	0.8	2
121	Efficacy of Filtering Techniques in Improving Landsat SLC-Off Thermal Infrared Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018, 11, 271-284.	2.3	2
122	Future changes in subâ€œseasonal variability of Indian winter precipitation. <i>International Journal of Climatology</i> , 0, , .	1.5	2
123	Impact of Surface forcing on simulating Sea Surface Temperature in the Indian Ocean â€œ A study using Regional Ocean Modeling System (ROMS). <i>Dynamics of Atmospheres and Oceans</i> , 2021, 95, 101243.	0.7	2
124	Summer Monsoon Variability in the Himalaya Over Recent Centuries. , 2020, , 261-280.		2
125	Diagnostic of the massive flood event and flood hazard mapping in Tons River basin. <i>Theoretical and Applied Climatology</i> , 2022, 148, 1459-1476.	1.3	2
126	Diagnostic study and numerical simulation of the Bombay (India) Deluge. <i>Natural Hazards</i> , 2011, 59, 17-31.	1.6	1

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127	Spring "Predictability Barrier" and Indian Summer Monsoon. Journal of Climate Change, 2016, 2, 53-60.	0.2	1
128	Energetics of Indian winter monsoon. Journal of Earth System Science, 2018, 127, 1.	0.6	1
129	Evaluating the performance of RegCM4 in studies on irrigated and rainfed cotton crops. Journal of Earth System Science, 2021, 130, 1.	0.6	1
130	Western Disturbances " Indian Winter Monsoon. , 2016, , 83-111.		1
131	Future precipitation extremes over base Himalayan Uttarakhand region: analysis using the statistically downscaled, bias-corrected high-resolution NEX-GDDP datasets. Theoretical and Applied Climatology, 2022, 149, 1239-1253.	1.3	1
132	Winter Hailstorm over New Delhi, India. , 2016, , 867-871.		0
133	Spatial and temporal variation in daily precipitation indices over Western Himalayas. Journal of Earth System Science, 2021, 130, 1.	0.6	0
134	Western Disturbances " Dynamics and Thermodynamics. , 2016, , 27-59.		0
135	Western Disturbances " Indian Seasons. , 2016, , 61-82.		0
136	Wintertime Seasonal Scale Simulation over Western Himalaya Using RegCM3. , 2007, , 1733-1746.		0