Pawan Kumar Joshi

List of Publications by Year
in descending order

108	3,869	117453	155451
papers	citations	34 h-index	55 g-index

110	110	110	4036
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evaluation of vertical accuracy of open source Digital Elevation Model (DEM). International Journal of Applied Earth Observation and Geoinformation, 2013, 21, 205-217.	1.4	258
2	Development of Decadal (1985â€“1995â€“2005) Land Use and Land Cover Database for India. Remote Sensing, 2015, 7, 2401-2430.	1.8	202
3	A comparison of selected classification algorithms for mapping bamboo patches in lower Gangetic plains using very high resolution WorldView 2 imagery. International Journal of Applied Earth Observation and Geoinformation, 2014, 26, 298-311.	1.4	152
4	New vegetation type map of India prepared using satellite remote sensing: Comparison with global vegetation maps and utilities. International Journal of Applied Earth Observation and Geoinformation, 2015, 39, 142-159.	1.4	138
5	Ecosystem service value assessment of a natural reserve region for strengthening protection and conservation. Journal of Environmental Management, 2019, 244, 208-227.	3.8	134
6	Assessing the potential of hyperspectral imagery to map bark beetle-induced tree mortality. Remote Sensing of Environment, 2014, 140, 533-548.	4.6	112
7	Responses of ecosystem services to natural and anthropogenic forcings: A spatial regression based assessment in the world's largest mangrove ecosystem. Science of the Total Environment, 2020, 715, 137004.	3.9	109
8	Mapping disaster vulnerability in India using analytical hierarchy process. Geomatics, Natural Hazards and Risk, 2016, 7, 308-325.	2.0	102
9	Random forest classification of urban landscape using Landsat archive and ancillary data: Combining seasonal maps with decision level fusion. Applied Geography, 2014, 48, 31-41.	1.7	83
10	A landscape approach for quantifying land-use and land-cover change (1976â€“2006) in middle Himalaya. Regional Environmental Change, 2010, 10, 145-155.	1.4	81
11	Examining the effects of forest fire on terrestrial carbon emission and ecosystem production in India using remote sensing approaches. Science of the Total Environment, 2020, 725, 138331.	3.9	74
12	Predicting distribution of major forest tree species to potential impacts of climate change in the central Himalayan region. Ecological Engineering, 2016, 97, 593-609.	1.6	73
13	Monitoring Urban Landscape Dynamics Over Delhi (India) Using Remote Sensing (1998â€“2011) Inputs. Journal of the Indian Society of Remote Sensing, 2013, 41, 641-650.	1.2	66
14	Landscape approach for quantifying land use land cover change (1972â€“2006) and habitat diversity in a mining area in Central India (Bokaro, Jharkhand). Environmental Monitoring and Assessment, 2010, 170, 215-229.	1.3	59
15	Decision tree classification of land use land cover for Delhi, India using IRS-P6 AWiFS data. Expert Systems With Applications, 2011, 38, 5577-5583.	4.4	58
16	Decision tree approach for classification of remotely sensed satellite data using open source support. Journal of Earth System Science, 2013, 122, 1237-1247.	0.6	58
17	Climate change perception: an analysis of climate change and risk perceptions among farmer types of Indian Western Himalayas. Climatic Change, 2019, 152, 103-119.	1.7	58
18	Topographic controls on spatio-temporal snow cover distribution in Northwest Himalaya. International Journal of Remote Sensing, 2014, 35, 3036-3056.	1.3	57

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19	Forest cover assessment in north-east India--the potential of temporal wide swath satellite sensor data (IRS-1C WiFS). International Journal of Remote Sensing, 2002, 23, 4881-4896.	1.3	56
20	Identifying seasonal heat islands in urban settings of Delhi (India) using remotely sensed data â€“ An anomaly based approach. Urban Climate, 2014, 9, 19-34.	2.4	54
21	Estimating biomass and carbon mitigation of temperate coniferous forests using spectral modeling and field inventory data. Ecological Informatics, 2015, 25, 63-70.	2.3	51
22	A lake detection algorithm (LDA) using Landsat 8 data: A comparative approach in glacial environment. International Journal of Applied Earth Observation and Geoinformation, 2015, 38, 150-163.	1.4	50
23	Assessing forest fragmentation in northeastern region (NER) of India using landscape matrices. Ecological Indicators, 2008, 8, 657-663.	2.6	49
24	Inherent vulnerability of agricultural communities in Himalaya: A village-level hotspot analysis in the Uttarakhand state of India. Applied Geography, 2016, 74, 182-198.	1.7	49
25	Mapping forests in monsoon Asia with ALOS PALSAR 50-m mosaic images and MODIS imagery in 2010. Scientific Reports, 2016, 6, 20880.	1.6	49
26	Mapping debris-covered glaciers and identifying factors affecting the accuracy. Cold Regions Science and Technology, 2014, 106-107, 161-174.	1.6	48
27	Snow cover variation and streamflow simulation in a snow-fed river basin of the Northwest Himalaya. Journal of Mountain Science, 2012, 9, 853-868.	0.8	45
28	Dynamics and determinants of land change in India: integrating satellite data with village socioeconomics. Regional Environmental Change, 2017, 17, 753-766.	1.4	45
29	Vulnerability of forests in the Himalayan region to climate change impacts and anthropogenic disturbances: a systematic review. Regional Environmental Change, 2018, 18, 1783-1799.	1.4	44
30	Long-term land use and land cover changes (1920â€“2015) in Eastern Ghats, India: Pattern of dynamics and challenges in plant species conservation. Ecological Indicators, 2018, 85, 21-36.	2.6	44
31	Geospatial quantification and analysis of environmental changes in urbanizing city of Kolkata (India). Environmental Monitoring and Assessment, 2015, 187, 4206.	1.3	43
32	Modelling Agriculture, Forestry and Other Land Use (AFOLU) in response to climate change scenarios for the SAARC nations. Environmental Monitoring and Assessment, 2020, 192, 236.	1.3	40
33	Modeling spatio-temporal change patterns of forest cover: a case study from the Himalayan foothills (India). Regional Environmental Change, 2012, 12, 619-632.	1.4	38
34	Farmer typology to understand differentiated climate change adaptation in Himalaya. Scientific Reports, 2019, 9, 20375.	1.6	36
35	National Forest Policy in India: Critique of Targets and Implementation. Small-Scale Forestry, 2011, 10, 83-96.	0.7	35
36	Assessing impact of climate change on forest cover type shifts in Western Himalayan Eco-region. Journal of Forestry Research, 2012, 23, 75-80.	1.7	35

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37	Mapping long-term land use and land cover change in the central Himalayan region using a tree-based ensemble classification approach. Applied Geography, 2016, 74, 136-150.	1.7	35
38	A long-term and comprehensive assessment of urbanization-induced impacts on ecosystem services in the capital city of India. City and Environment Interactions, 2020, 7, 100047.	1.8	35
39	Biome mapping in India using vegetation type map derived using temporal satellite data and environmental parameters. Ecological Modelling, 2006, 197, 148-158.	1.2	33
40	Analysis of urban built-up areas and surface urban heat island using downscaled MODIS derived land surface temperature data. Geocarto International, 2017, 32, 900-918.	1.7	33
41	Snow cover area change and its relations with climatic variability in Kashmir Himalayas, India. Geocarto International, 2019, 34, 688-702.	1.7	33
42	Spatio-temporal footprints of urbanisation in Surat, the Diamond City of India (1990â€“2009). Environmental Monitoring and Assessment, 2013, 185, 3313-3325.	1.3	32
43	Spatio-temporal variations in landscape ecological risk related to road network in the Central Himalaya. Human and Ecological Risk Assessment (HERA), 2021, 27, 289-306.	1.7	32
44	Vulnerability of agro-ecological zones in India under the earth system climate model scenarios. Mitigation and Adaptation Strategies for Global Change, 2017, 22, 399-425.	1.0	30
45	Assessment of large-scale deforestation of Nawarangpur district, Orissa, India: a remote sensing based study. Environmental Monitoring and Assessment, 2009, 154, 325-335.	1.3	29
46	Assessing biome boundary shifts under climate change scenarios in India. Ecological Indicators, 2013, 34, 536-547.	2.6	28
47	Examining the glacial lake dynamics in a warming climate and GLOF modelling in parts of Chandra basin, Himachal Pradesh, India. Science of the Total Environment, 2020, 714, 136455.	3.9	26
48	Capturing forest dependency in the central Himalayan region: Variations between Oak (Quercus spp.) and Pine (Pinus spp.) dominated forest landscapes. Ambio, 2018, 47, 504-522.	2.8	25
49	Assessing areas deforested by coal mining activities through satellite remote sensing images and gis in parts of Korba, Chattisgarh. Journal of the Indian Society of Remote Sensing, 2006, 34, 415-421.	1.2	24
50	Estimating soil carbon storage and mitigation under temperate coniferous forests in the southern region of Kashmir Himalayas. Mitigation and Adaptation Strategies for Global Change, 2014, 19, 1179-1194.	1.0	24
51	Characterizing fragmentation trends of the Himalayan forests in the Kumaon region of Uttarakhand, India. Ecological Informatics, 2017, 38, 95-109.	2.3	24
52	Development of glacier mapping in Indian Himalaya: a review of approaches. International Journal of Remote Sensing, 2019, 40, 6607-6634.	1.3	24
53	Assessment of Urban Dynamics to Understand Spatiotemporal Differentiation at Various Scales Using Remote Sensing and Geospatial Tools. Remote Sensing, 2020, 12, 1306.	1.8	24
54	Study of habitat quality assessment using geospatial techniques in Keoladeo National Park, India. Environmental Science and Pollution Research, 2021, 28, 14105-14114.	2.7	24

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55	Long-term agricultural performance and climate variability for drought assessment: a regional study from Telangana and Andhra Pradesh states, India. Geomatics, Natural Hazards and Risk, 2017, 8, 822-840.	2.0	23
56	Forest Ecosystem Services in the Central Himalaya: Local Benefits and Global Relevance. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2019, 89, 785-792.	0.4	23
57	Characterizing urban area dynamics in historic city of Kurukshetra, India, using remote sensing and spatial metric tools. Geocarto International, 2019, 34, 1584-1607.	1.7	22
58	Spatio-temporal forest cover dynamics along road networks in the Central Himalaya. Ecological Engineering, 2019, 127, 383-393.	1.6	22
59	Agriculture in the western Himalayas â€“ an asset turning into a liability. Development in Practice, 2018, 28, 318-324.	0.6	21
60	Demystifying vulnerability assessment of agriculture communities in the Himalayas: a systematic review. Natural Hazards, 2018, 91, 409-429.	1.6	21
61	Climate change drives glacier retreat in Bhaga basin located in Himachal Pradesh, India. Geocarto International, 2020, 35, 1179-1198.	1.7	21
62	A multinomial logistic model-based land use and land cover classification for the South Asian Association for Regional Cooperation nations using Moderate Resolution Imaging Spectroradiometer product. Environment, Development and Sustainability, 2021, 23, 6106-6127.	2.7	21
63	Assessing impact of forest landscape dynamics on migratory corridors: a case study of two protected areas in Himalayan foothills. Biodiversity and Conservation, 2011, 20, 3393-3411.	1.2	20
64	Analysing spatio-temporal footprints of urbanization on environment of Surat city using satellite-derived bio-physical parameters. Geocarto International, 2013, 28, 420-438.	1.7	20
65	Comparison of spatial modelling approaches to simulate urban growth: a case study on Udaipur city, India. Geocarto International, 2020, 35, 411-433.	1.7	20
66	Are Climate Extremities Changing Forest Fire Regimes in India? An Analysis Using MODIS Fire Locations During 2003â€“2013 and Gridded Climate Data of India Meteorological Department. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2017, 87, 827-843.	0.8	19
67	Land cover dynamics in Garhwal Himalayas â€” a case study of balkhila sub-watershed. Journal of the Indian Society of Remote Sensing, 2004, 32, 199-208.	1.2	18
68	Multi-temporal forest cover dynamics in Kashmir Himalayan region for assessing deforestation and forest degradation in the context of REDD+ policy. Journal of Mountain Science, 2016, 13, 1431-1441.	0.8	18
69	Evaluating landscape capacity to provide spatially explicit valued ecosystem services for sustainable coastal resource management. Ocean and Coastal Management, 2019, 182, 104918.	2.0	18
70	Examining the effects of green revolution led agricultural expansion on net ecosystem service values in India using multiple valuation approaches. Journal of Environmental Management, 2021, 277, 111381.	3.8	18
71	Landscape dynamics in Hokersar Wetland, Jammu & Kashmirâ€”An application of geospatial approach. Journal of the Indian Society of Remote Sensing, 2002, 30, 1-5.	1.2	17
72	Biodiversity Characterization in Nubra Valley, Ladakh with Special Reference to Plant Resource Conservation and Bioprospecting. Biodiversity and Conservation, 2006, 15, 4253-4270.	1.2	17

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73	Landscape characterisation of the forests of Himalayan foothills. Journal of the Indian Society of Remote Sensing, 2010, 38, 441-452.	1.2	17
74	High resolution DEM generation for complex snow covered Indian Himalayan Region using ADS80 aerial push-broom camera: a first time attempt. Arabian Journal of Geosciences, 2015, 8, 1403-1414.	0.6	16
75	An indicator-based approach to assess village-level social and biophysical vulnerability of agriculture communities in Uttarakhand, India. Journal of Mountain Science, 2016, 13, 2260-2271.	0.8	16
76	Land use and climate change impacts on distribution of plant species of conservation value in Eastern Ghats, India: a simulation study. Environmental Monitoring and Assessment, 2020, 192, 86.	1.3	16
77	Numerical modelling spatial patterns of urban growth in Chandigarh and surrounding region (India) using multi-agent systems. Modeling Earth Systems and Environment, 2015, 1, 1.	1.9	15
78	Remote sensing of alpine glaciers in visible and infrared wavelengths: a survey of advances and prospects. Geocarto International, 2016, 31, 557-574.	1.7	15
79	Assessing impact of industrialization in terms of LULC in a dry tropical region (Chhattisgarh), India using remote sensing data and GIS over a period of 30 years. Environmental Monitoring and Assessment, 2009, 149, 371-376.	1.3	14
80	Assessing forest fragmentation in north-western Himalaya: a case study from Ranikhet forest range, Uttarakhand, India. Journal of Forestry Research, 2017, 28, 319-327.	1.7	14
81	Assessing inherent vulnerability of farming communities across different biogeographical zones in Himachal Pradesh, India. Environmental Development, 2020, 33, 100506.	1.8	13
82	Indicator based assessment of food security in SAARC nations under the influence of climate change scenarios. Future Foods, 2022, 5, 100122.	2.4	13
83	Longâ€term spatiotemporal variability in the surface velocity of Eastern Himalayan glaciers, India. Earth Surface Processes and Landforms, 2022, 47, 1720-1733.	1.2	12
84	Assessing impact of varied social and ecological conditions on inherent vulnerability of Himalayan agriculture communities. Human and Ecological Risk Assessment (HERA), 2020, 26, 2628-2645.	1.7	11
85	Identification of Conservation Priority Zones Using Spatially Explicit Valued Ecosystem Services: A Case from the Indian Sundarbans. Integrated Environmental Assessment and Management, 2020, 16, 773-787.	1.6	11
86	Assessment and visualization of inherent vulnerability of urban population in India to natural disasters. Climate and Development, 2020, 12, 532-546.	2.2	10
87	Vegetation type and land cover mapping in a semi-arid heterogeneous forested wetland of India: comparing image classification algorithms. Environment, Development and Sustainability, 2022, 24, 3947-3966.	2.7	10
88	Integrated approach for understanding spatio-temporal changes in forest resource distribution in the central Himalaya. Journal of Forestry Research, 2014, 25, 281-290.	1.7	9
89	The role of information infrastructure for climate change adaptation in the socio-ecological system of the Central Himalaya: availability, utility, and gaps. Socio-Ecological Practice Research, 2021, 3, 397-410.	0.9	9
90	Development of tiger habitat suitability model using geospatial toolsâ€"a case study in Achankmar Wildlife Sanctuary (AMWLS), Chhattisgarh India. Environmental Monitoring and Assessment, 2009, 155, 555-567.	1.3	8

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91	Consistency in Vulnerability Assessments of Wheat to Climate Changeâ€"A District-Level Analysis in India. Sustainability, 2020, 12, 8256.	1.6	8
92	Socio-Ecological Systems (SESs)â€"Identification and Spatial Mapping in the Central Himalaya. Sustainability, 2021, 13, 7525.	1.6	8
93	Spectral evaluation of vegetation features using multiâ€satellite sensor system (Terra ASTER, Landsat) Tj ETQq1 1 0.784314 rgBT /Ov	1.0	7
94	Automated Delineation of Supraglacial Debris Cover Using Deep Learning and Multisource Remote Sensing Data. Remote Sensing, 2022, 14, 1352.	1.8	7
95	Forest biomass carbon dynamics (1980â€"2009) in western Himalaya in the context of REDD+ policy. Environmental Earth Sciences, 2017, 76, 1.	1.3	6
96	The Climate Change Conundrum and the Himalayan Forests: The Way Forward into the Future. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2018, 88, 837-847.	0.4	6
97	Longitudinal study of changes in ecosystem services in a city of lakes, Bhopal, India. Energy, Ecology and Environment, 2021, 6, 408-424.	1.9	6
98	Satellite Data Classification Using Open Source Support. Journal of the Indian Society of Remote Sensing, 2013, 41, 523-530.	1.2	5
99	Multi-criteria approach to geographically visualize the quality of life in India. International Journal of Sustainable Development and World Ecology, 2016, 23, 469-481.	3.2	5
100	Evaluation of Image Classification Algorithms on Hyperion and ASTER Data for Land Cover Classification. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2017, 87, 855-865.	0.8	5
101	Unraveling the complex and dynamic Himalayan socio-ecological systems: a systematic review. Environment, Development and Sustainability, 2022, 24, 1532-1559.	2.7	5
102	A Reflection on Image Classifications for Forest Ecology Management: Towards Landscape Mapping and Monitoring. , 2017, , 67-85.		3
103	Characterizing Khetri copper mine environment using geospatial tools. SN Applied Sciences, 2021, 3, 1.	1.5	3
104	Road network drives urban ecosystems - a longitudinal analysis of impact of roads in the central Himalaya. Geocarto International, 2020, , 1-26.	1.7	1
105	Spatio-Temporal Heterogeneity in Glaciers Response Across Western Himalaya. Sustainable Development Goals Series, 2022, , 185-206.	0.2	1
106	Mapping of Agriculture Productivity Variability for the SAARC Nations in Response to Climate Change Scenario for the Year 2050. , 2021, , 249-262.		1
107	Downscaling of Coarse Resolution Satellite Remote Sensing Thermal Data. Springer Remote Sensing/photogrammetry, 2017, , 35-55.	0.4	0
108	Influence of socio-environmental risks on natural resource dependent socio-ecological systems in Central Himalaya. Human and Ecological Risk Assessment (HERA), 0, , 1-20.	1.7	0