Dr. SHAIK VAZEED PASHA, Research Scientist
M.Sc., B.Ed., Ph.D.,
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Total Publications	48	Projects	13
Total Impact factor	72	Google Citations:	1106

Professional Summary

Environmental scientists with 12 years of experience in interdisciplinary research focused on Natural resource assessment, ecology, carbon stock assessment, land cover dynamics, forest biodiversity assessment, geo-socio-ecological integration, species distribution modelling, and environmental impact studies. Demonstrated expertise in supporting large-scale conservation, and nature-based solutions aligning with Earth & Environment and Ecology practice areas.

- **Mentored more than 35 students including diversified backgrounds.** Masters, M.Phil. M.Tech and B.Tech.
- **Guiding 01 Ph.**D student through TDU.

Core Competencies

• Ecological surveys, NRM & biodiversity assessment

• Habitat suitability modelling (MaxEnt, ML models)

• Geospatial analysis (ArcGIS, QGIS, ERDAS)

• Carbon stock & biomass estimation

• Environmental Impact Assessment (EIA)

• Climate change and land cover dynamics

• Field ecology across diverse ecosystems

• Technical reporting & scientific writing

Professional Experience

- **Research Scientist & Co-Project Lead, NIAS–IISc, Bengaluru (Apr 2025 – Present)**

Leading geo-socio-ecological assessments, carbon cycle research, biodiversity monitoring and technical reporting for multi-institutional projects supporting national-level environmental planning.

- **Post-Doctoral Associate, NIAS–IISc, Bengaluru (Sep 2021 – Apr 2025)**

Conducted research on age-based biomass and C-stock estimation, historical forest cover dynamics, land cover change and biodiversity applications using remote sensing and GIS.

- **Project Scientist, NRSC–ISRO, Hyderabad (Feb 2019 – Sep 2021)**

Executed geospatial monitoring projects on natural resources including watershed management, NRM planning, forest monitoring and rural development using geospatial technology.

- **Research Associate, IIT Kharagpur (Oct 2017 – Feb 2019)**

Worked on national missions related to shifting cultivation in North-East India, climate impacts on forests and biodiversity conservation.

- **Doctoral Researcher, NRSC–ISRO (May 2012 – Sep 2017)**

Developed long-term deforestation datasets, ecological plots, invasive species mapping, and forest fragmentation analyses for India and South Asian countries.

Career Highlights

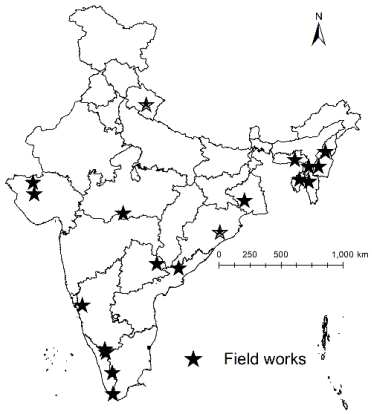
- Represented India at the **BRICS Young Scientist Conclave (2023)** in South Africa, an international recognition awarded through a competitive DST travel grant.
- **Developed a historical forest spatial database for South Asia**, widely used in climate-related studies.
- Delivered substantial scientific output with **40 international peer-reviewed publications** and contributed across 12 major national-level projects in ecology and geospatial sciences.
- Advanced global ecological analytics by leading machine-learning and cloud-based species distribution modelling for high-value conservation insights.
- Mentored 36 interns and received multiple recognitions and awards from NRSC, ISRO, NIAS, DUK, and Alia University.

Computer/software/instruments: Spatial: Arc GIS, ERDAS Imagine, Q-GIS and Land Change modelling, Species distribution model, R, **Analytical:** JASP, Microsoft Office • **Field instruments:** Trimble Terrasync GPS, SPAD-Photometer, Forestry Pro (Laser tree height finder).

Education	**Year of Award**
Ph.D in Environmental Science (RS & GIS) Forestry & Ecology Group, NRSC (ISRO) & Department of Environmental Sciences, Andhra University, Visakhapatnam, AP, India.	**May- 2017**
M.Sc. in Botany Department of Botany, University College, Kakatiya University, Warangal, Telangana Distinction India.	**May 2011** Marks 77.50% First class with
B.Ed in (English and Biology), 2012 Sravanthi College of Education, Kakatiya University, Andhra Pradesh, India.	Graduated, May Division-**Passed**
B.Sc in (Botany, Zoology, Chemistry) S.R & B.G.N.R GOVT. Degree College, Kakatiya University, Khammam, Telangana India.	**May 2009** Marks 69.16% First class

Field ecological research experience across diverse forest ecosystems of India

Spatial locations of Ecological studies



1) The Himalayan Ecosystem (North-East India):
Parts of Manipur, Meghalaya, Mizoram, Nagaland and Tripura

2) Western Ghats: Large-scale sample plots
•Uttara Kannada, Nilgiri BR, Kudremukh, BR Hills and Agastyamai

3) The Eastern Ghats
• Odisha, Telangana and Andhra Pradesh

4) Mangrove Ecosystem:
• Sundarbans, West Bengal, Bhitharkanika WLS, Odisha
• Kundapura, Karnataka, & Gulf of Kachchh, Gujarat

5) Wetland cum Desert Ecosystem:
• Kachchh biosphere reserve (Invasive Ecology)

6) Others: Arabari RF, West Bengal

Training:

- **"Remote Sensing & GIS-Technology and Application'**12 weeks course (4thJune 24thAugust) at NRSC, (ISRO) Hyd. Awarded **First class**.
- **"Bio-Optical Characterization of Water Resources Implications for Future Satellite Missions'** during 25-29June 2018 at IIT Kharagpur.
- Li-COR two days training on Eddy covariance and carbon flux towers 2013.
- **IPR Workshop on innovation, invention and creativity (25th August 2018).**

Achievements/Awards: (15)

- Represented India at the **8th BRICS Young Scientist Conclave (2023)** in Gqeberha **(**Port Elizabeth), South Africa.
- **Full-time Member, Global Forest Biodiversity Initiative (GFBI) and Global Member, Science-i.** https://www.gfbinitiative.org/full-member-list https://science-i.org/members/vazeedpashashaikgmail-com/mp-membership/
- **Life Member, Indian Society of Geomatics (ISG) and Associate Fellow, Telangana Academy of Sciences (TAS).**
- **Resource person** in a National Seminar on Recent Trends on Environmental Pollution Mitigation Under Changing Climatic Condition (EPMCC-2025) by Shri Phanishwar Nath Renu Engineering College sponsored by Bihar Council on Science & Technology, Patna.
- **Advisory Committee member** for the College of Climate Change and Environmental Science, Kerala Agricultural University, Kerala. 2024.
- Invited as **resource person, advisor,** and **expert speaker** at multiple national/international forums, including NIAS–KAF Dialogue (2023), EPMCC-2025 Seminar, Europe Conclave (2023), and Sustainable Sapiens Foundation.
- **Expert talk** on Brush for Biodiversity, Sustainable Sapiens Foundation, Pune 2023.
- **Certificate of merit** from IIT Kharagpur, in an international workshop.

- **Appreciation from Alia State University, West Bengal, India** for the GIS day lecture on International GIS Day (2023).
- **Letter of appreciation from the Digital University of Kerala** for delivering lab tutorial on Remote sensing and GIS subject Ecological informatics.
- **Letter of appreciation National Institute of Advanced Studies (NIAS)** for preparing a novel database on plantation types with age.
- **Letter of Appreciation from NRSC, ISRO** for preparation of Natural Resource management planning and unique plantation database (2021).
- Awarded Best Presentation Awards (International & National) and served as a Reviewer for seven international journals.
- **Invited/ Guest lectures:** Amity Institute of Forestry and Wildlife, Uttar Pradesh, Digital University of Kerala and Siddipet Government Degree & PG College, Telangana.
- **Keynote/Resource person:** 08 (01 international and 07 National)

Teaching and Seminar/Course Organized

- Organized first stakeholders' workshop on Develop Natural Resource Utilization Plan for Biodiversity Hotspots at NIAS, IISc campus, Bengaluru-2025.
- Assisted as a co-coordinator at **DST-sponsored** training programme on Science & Technology: Global Developments and Perspectives-2023.
- Delivered lab tutorials on Remote sensing and GIS applications for MSc Ecology (Ecological informatics), Digital University of Kerala.2022.
- Assisted in organizing an international workshop (BDCC-2018) at IIT Kharagpur.

Languages: Written and spoken: English, Hindi,Telugu and Kannada (Basic)

Research Projects Associated: (13 Projects: Ongoing & Completed**)**

➢ **Ongoing projects:**

1. **Develop Natural Resource Utilization Plan for Biodiversity Hotspots of India**
   Role: Co-Principal Investigator & Key Resource person
   A flagship initiative focused on ecological assessment, resource mapping, and conservation planning across India's major biodiversity hotspots. The project received a ₹2.5 crore research grant, supporting multi-institutional collaboration and field-based ecological studies**.**
2. Ecological Assessment of Myristica Swamps, Northern Western Ghats
   Role: Adviser
   Advising on GPS-based field assessments, species composition studies, hydrological characteristics, and threat evaluation for highly sensitive Myristica swamp ecosystems.

✓ **Completed projects:**

3. **Climate-Driven Effects on Indian Forests (IWST-ICFRE & NIAS)**
   Role: Co-Principal Investigator
   Studied climate-related impacts on forest structure and composition through long-term datasets and geospatial approaches. The project received a ₹5 lakh grant.).
4. **Indian Terrestrial Carbon Cycle Assessment & Modelling (ITCAM) – NIAS**
   Role: Senior Post-Doctoral Associate

Conducted national-level assessments of carbon pools in forests and plantations, integrating field inventory data with remote sensing and modelling approaches.

5. **National Mission on Himalayan Studies (NMHS):** Shifting Cultivation Monitoring and ecological assessment.
   Role: Research Associate (2017–2019). Mapped and assessed shifting cultivation patterns in Northeast India using multi-temporal satellite data and extensive ecological plots**.**
6. **"Climate Change Effects on Indian Forest Cover (DST–IIT Kharagpur)"** (DST-IIT Kharagpur) **Role: Research Associate.** Analysed long-term forest cover dynamics using multi-sensor datasets to evaluate climate-induced ecological changes.
7. **"Improvement of Rural Livelihood (IRL) – World Bank Sponsored**. Role: Consultant. With IIIT-Hyderabad. Worked on plantation mapping, biomass assessment, and carbon stock estimation to support livelihood enhancement initiatives.
8. **National Biosphere Reserve Project: (MoEF & CC-NRSC-ISRO). Role:** JRF & SRF (2012–2017).
   Title: Inventorisation and Monitoring of Biosphere Reserves in India using Remote Sensing and GIS technology (Kachchh Gujarat, Nilgiris and Agasthyamalai (Western Ghats) biosphere reserves). **2012-2017.**
9. **NRSC-NIRD:** "*Development of Application and Infrastructure for planning and Monitoring of* ***Geo MGNREGA activities using Geospatial Technologies***" National Institute of Rural Development & Panchayati Raj (NIRDPR); MoRD, Government of India. **2019-2021. As a Project Scientist**
10. **South Asia Project: (ISRO-NRSC) Title:** Quantification and monitoring of long-term forest cover changes and carbon stocks in South Asia: National Carbon Project, ISRO. **Research Scholar** (SRF)
11. **National Carbon Project: (ISRO-NRSC)**
    a. **Title:** Historical Monitoring of Forest cover in India -NRSC Hyderabad
    b. **Title:** Estimation of Trees Outside Forests using remote sensing data in parts of Andhra Pradesh and Telangana, India (ISRO-IGBP-VCP). 2016-2017.
12. **Monitoring of NABARD-Sponsored Watersheds (NRSC–NABARD). Role:** Project Scientist
    Implemented geospatial monitoring of watershed development in **Rajasthan, Madhya Pradesh, and Gujarat.**
13. **Integrated Watershed Management Programme (IWMP) Monitoring.** Role: Project Scientist
    Utilized RS-GIS techniques to assess watershed interventions and landscape restoration outcomes (2021).

List of Peer Reviewed Scholarly Publications

1. Paraseth, P., **Pasha, S.V.,** Dadhwal, V.K. *et al.* Comparison of Field Measured Aboveground Biomass C-stock Change (2019–2022) and Satellite-Derived Biomass in the Tropical Forests of Eastern Ghats. *Journal of the Indian Society of Remote Sensing* (2026). https://doi.org/10.1007/s12524-026-02429-7
2. **Pasha, S. V.,** Dadhwal, V. K., Kumari, K., & Ali, N. (2025). Historical expansion of tea plantations over 150 years (1876-2023) in North Bengal, India (vol 196, 1071,

2024). Environmental Monitoring and Assessment, 197(4). https://doi.org/10.1007/s10661-024-13208-7

3. Manohara, T. N., **Pasha, S. V.,** Swarada, B., & Balakrishna, S. M. (2025). Predicting habitat suitability of Dalbergia latifolia Roxb.(Indian rosewood) using MaxEnt: implications for conservation and sustainable forest management. *BMC Ecology and Evolution*, *25*(1), 1-13. https://doi.org/10.1186/s12862-025-02446-z
4. Pavithra A., Venkata Ramana, **Pasha, S. V.,** G., Swarada, B., C. Sudhakar Reddy., Dadhwal, V. K., (2025). Geospatial Identification of Human–Wildlife Conflict Hotspots in the Southern Western Ghats. Journal of the Indian Society of Remote Sensing https://doi.org/10.1007/s12524-025-02210-2
5. **Pasha, S.V.,** Dadhwal, V.K. (2024). National analysis on variations in estimates of forest cover dynamics over India (2001–2020) using multiple techniques and data sources. *Spatial Information Research*. https://doi.org/10.1007/s41324-024-00570-4
6. **Pasha, S.V.,** Reddy, C.S. Global spatial distribution of *Prosopis juliflora* - one of the world's worst 100 invasive alien species under changing climate using multiple machine learning models. Environmental Monitoring and Assessment, 196, 196 (2024). https://doi.org/10.1007/s10661-024-12347-1
7. **Pasha, S.V.,** Dadhwal, V.K., Kumari, K., & Ali, N. (2024). Historical expansion of tea plantations over 150 years (1876–2023) in North Bengal, India. *Environmental Monitoring and Assessment*, 196(11), 1-18. https://doi.org/10.1007/s10661-024-13208-7
8. Swarada, B., **Pasha, S. V.,** & Dadhwal, V. K. (2024). How natural are the forests in Rajiv Gandhi (Nagarhole) Tiger Reserve? A multi-source data approach. *Environmental Monitoring and Assessment*, 196(5), 1-17. https://doi.org/10.1007/s10661-024-12586-2
9. Swarada, B., **Pasha, S. V.,** Manohara, T. N., Suresh, H. S., & Dadhwal, V. K. (2024). Assessing Landslide-Driven Deforestation and Its Ecological Impact in the Western Ghats: A Multi-Source Data Approach. *Journal of the Indian Society of Remote Sensing*, 1-15. https://doi.org/10.1007/s12524-024-01896-0
10. Fararoda, R., Reddy, R. S., Rajashekar, G., Mayamanikandan, T., Mutyala, P., Satish, K. V., **Pasha, S. V.,** & Jha, C. S. (2024). Improving plot-level above ground biomass estimation in tropical Indian forests. *Ecological Informatics*, 102621. https://doi.org/10.1016/j.ecoinf.2024.102621
11. **Pasha, S.K.,** Varshney, S. K., & Bhattacharyya, A. (2024). BRICS Young Scientists and Innovators Forum. *Current Science (00113891)*, (5). http://eprints.nias.res.in/2682/1/BRICS_Young_Scientists_and_Innovators_Forum.pdf
12. **Pasha, S.V.** & Dadhwal, V.K. (2023). Age-Based Stratification to Estimate Aboveground Biomass (AGB) and Carbon Stocks of Rubber Plantations in Tripura. *Journal of the Indian Society of Remote Sensing*, 1-11. https://link.springer.com/article/10.1007/s12524-023-01751-8
13. **Pasha, S.V.,** Dadhwal, V.K., & Reddy, C. S. (2023). Rubber expansion and age-class mapping in the state of Tripura (India) 1990–2021 using multi-year and multi-sensor data. Environmental Monitoring and Assessment, 195(2), 1-14. https://link.springer.com/article/10.1007/s11676-019-00885-1
14. **Pasha, S.V.,** & Reddy, C. S. (2023). Trends in Hotspots of Alien Plant Invasion in Kachchh Biosphere Reserve, India Using Spatial Pattern Mining Tool. *Journal of the Indian Society of Remote Sensing*, 1-13. https://link.springer.com/article/10.1007/s12524-022-01637-1

15. G. Pujar, **Pasha, S.V.,** Y. Balaji et. al (2022) National Assessment of Afforestation activities in India, a key SDG target, under the world's largest social safety scheme. *Journal of the Indian Society of Remote Sensing*. - DOI: 10.1007/s12524-022-01536-5 https://link.springer.com/article/10.1007/s12524-022-01536-5
16. Sabu, M.M., **Pasha, S.V.,** Reddy, C.S., Singh, R., & Jaishanker, R. (2021). The effectiveness of Tiger Conservation Landscapes in decreasing deforestation in South Asia: a remote sensing-based study. *Spatial Information Research*, 1-13. https://link.springer.com/article/10.1007/s41324-021-00411-8
17. **Pasha, S.V.,** Behera, M.D., Mahawar, S.K., Barik, S.K., & Joshi, S.R. (2020). Assessment of shifting cultivation fallows in Northeastern India using Landsat imageries. *Tropical Ecology*. 1-11. https://link.springer.com/article/10.1007/s42965-020-00062-0
18. Reddy, C.S., Pasha, S.V, C.S. Jha, P.G. Diwakar, V.K. Dadhwal (2016). Development of national database on long-term deforestation (1930–2014) in Bangladesh-2016. Global and Planetary Change. 139, 173-182. http://www.sciencedirect.com/science/article/pii/S0921818115300928
19. Reddy, C.S., **Pasha, S.V.,** Diwakar, P. G., Dadhwal, V.K. (2019). Quantifying and predicting multi-decadal forest cover changes in Myanmar: a biodiversity hotspot under threat. Biodiversity and conservation. 28(5), 1129-1149. https://www.springerprofessional.de/en/quantifying-and-predicting-multi-decadal-forest-cover-changes-in/16489730
20. Reddy, C.S., **Pasha, S.V.,** K.V. Satish, K. R. L. Saranya, C. S. Jha, Y.V.N. Krishna Murthy (2018). Quantifying nationwide land cover and historical changes in forests of Nepal (1930– 2014): implications on forest fragmentation-2018. 27:91–107. Biodiversity and Conservation. 27:91–107). https://link.springer.com/content/pdf/10.1007%2Fs10531-017-1423-8.pdf
21. **Pasha, S.V.,** K.V. Satish, Reddy, C.S., P.V.V. Prasada Rao & C.S. Jha (2014). Satellite Image based Quantification of Invasion and Patch dynamics of Mesquite (*Prosopis juliflora*) in Great Rann of Kachchh, Kachchh Biosphere Reserve, Gujarat, India. *Journal of Earth System Sciences*: 123(7): 1481–1490). http://link.springer.com/article/10.1007/s12040-014-0486-0
22. **Pasha, S.V.,** Reddy, C.S., Jha, C.S., Rao, P.P. and Dadhwal, V.K., 2016. Assessment of land cover change hotspots in Gulf of Kachchh, India using multi-temporal remote sensing data and GIS. *Journal of the Indian Society of Remote Sensing*, 44, pp.905-913. http://link.springer.com/article/10.1007/s12524-016-0562-9
23. **Pasha, S.V.,** K.V. Satish, Reddy, C.S., C.S. Jha (2015). Massive Invasion of Mesquite (*Prosopis juliflora*) in Wild Ass Wildlife Sanctuary, India (National Academy Science Letters: 38(3), 271-273. http://link.springer.com/article/10.1007/s40009-014-0321-9
24. Reddy, C.S., K.R.L. Saranya, **Pasha, S.V.,** K.V. Satish, C.S. Jha, P.G. Diwakara, , V.K. Dadhwal , P.V.N. Rao , Y.V.N. Krishna Murthy (2018). Assessment and monitoring of deforestation and forest fragmentation in South Asia since the 1930s. Global and Planetary Change 161, 132–148 https://www.sciencedirect.com/science/article/pii/S0921818117303867
25. MD Behera, **Pasha, S.V.,** P Tripathi and PC Pandey (2018). Biodiversity and Climate Change-BDCC-2018 (News Report) CORAL, IIT Kharagpur-2018. *Current Science*-VOL. 115, NO. 4, 25 AUGUST 2018) 2017. https://www.currentscience.ac.in/Volumes/115/04/0608.pdf
26. Reddy, C.S., C.S. Jha, G. Manaswini, V.V.L. Padma, **Pasha, S.V.,** K.V. Satish, P.G. Diwakar and V.K. Dadhwal (2017). Nationwide assessment of forest burnt area in India

using Resourcesat-2 AWiFS data. *Current Science*, VOL. 112, NO. 07, 1521) http://www.currentscience.ac.in/Volumes/112/07/1521.pdf

27. Singh, S., Reddy, C.S., **Pasha, S.V.,** Dutta, K., Saranya, K.R.L. and Satish, K.V., 2017. Modeling the spatial dynamics of deforestation and fragmentation using multi-layer perceptron neural network and landscape fragmentation tool. Ecological Engineering, 99, pp.543-551. http://www.sciencedirect.com/science/article/pii/S092585741630670X 2016
28. Reddy, C.S., **Pasha, S.V.,** C.S. Jha (2016). Spatio-temporal changes associated with natural and anthropogenic factors in wetlands of Great Rann of Kachchh. *India Journal of Coastal Conservation*. 20(2), 145-155. http://link.springer.com/article/10.1007/s11852-016-0425-0
29. Reddy, C.S., C.S. Jha, V.K. Dadhwal, P. HariKrishna, **Pasha, S.V.,** K.V. Satish, Kalloli Dutta, K. R. L. Saranya, F. Rakesh, G. Rajashekar, P.G. Diwakar-2016. Quantification and monitoring of deforestation in India over eight decades (1930– 2013)-2016. *Biodiversity and Conservation*. 25(1):93-116. (Impact factor: 3.14) http://link.springer.com/article/10.1007/s10531-015-1033-2
30. Jha, C.S, Rajashekar G, K Chand Thumaty Jayant Singhal C.S Reddy J Singh **Pasha, S.V.,** et al (2016). Monitoring of forest fires from space – ISRO's initiative for near real-time monitoring of the recent forest fires in Uttarakhand, India- 2016. *Current Science*, VOL. 110, NO. 11, 10 http://www.currentscience.ac.in/Volumes/110/11/2057.pdf
31. Reddy, C.S., K.V. Satish, **Pasha, S.V.,** C.S. Jha and V.K. Dadhwal Assessment and monitoring of deforestation and land use changes (1976-2014) in Andaman and Nicobar Islands, India using remote sensing and GIS-2016.. *Current Science*, VOL. 111, NO. 9, 10 http://www.currentscience.ac.in/Volumes/111/09/1492.pdf
32. Reddy, C.S., **Pasha, S.V.,** S., Jha, C.S. and Dadhwal, V.K., 2015. Geospatial characterization of deforestation, fragmentation and forest fires in Telangana state, India: conservation perspective. Environmental monitoring and assessment, 187, pp.1-14. http://link.springer.com/article/10.1007/s10661-015-4673-5
33. K.V. Satish, **Pasha, S.V.,** Reddy, C.S., & C.S. Jha (2015). Achyranthes *coyinei Santapau* (Amaranthaceae) – An endemic and threatened species from Kachchh desert, India. *National Academy Science Letters*, 38(3), 281-282). http://link.springer.com/article/10.1007/s40009-014-0338-0 2014

Conference Papers/ Research square: (03)

1) **Pasha, S.V.,** Dadhwal, V.K., Swarada, B., & Pavithra, G.M. (2024). Harnessing Geospatial Technology for Human Elephant Conflict Hotspots: Insights from *e-Parihara* data from Karnataka Forest Department.
2) Reddy, C.S., Satish, K. V., **Pasha, S.V.,** Saranya, K. R. L., Jha, C. S., Diwakar, P. G., ... & Murthy, Y. K.Earth Observation-based Forest Monitoring and Conservation in Biodiversity Hotspots of South Asia-2018. (AARS-Conference Paper).
3) Manohara, T. N., Pasha, **S. V.,** Badhe, S., & Balakrishna, S. M. (2024). Predictive Modeling of Habitat Suitability for the Vulnerable Tree Species Dalbergia latifolia in India using MaxEnt. https://doi.org/10.21203/rs.3.rs-5432783/v1

Books/Chapters: (08)

1. Reddy, C. S., Malik, K., **Pasha, S. V.,** et al. (2026). Identifying potential invasion hotspots of Chromolaena odorata using species distribution models (Vol. 1, pp. 8.1–8.20). Biodiversity Conservation Foundation.

2. **Pasha SV,** Komal K, Kripa MK., K Saketh, & VK Dadhwal (2025). Vegetation Indices and the Changing Landscape: A Spatio-Temporal Study of Vegetation Composition and Health. In FORESTS FOR INCLUSIVE AND SUSTAINABLE ECONOMIC GROWTH" to be published by Elsevier, USA. (In press).
3. **Pasha, S.V.,** Dadhwal, V.K., Saketh, K. (2024). Fernerkundung zur Kartierung und Charakterisierung von Mango und Kautschuk zur Ermittlung des Kohlenstoffbestands – Fallstudie von Malihabad Tehsil (UP) und West Tripura District, Indien. In: Chaudhary, S., Biradar, C.M., Divakaran, S., Raval, M.S. (eds) Digitales Ökosystem für Innovationen in der Landwirtschaft. Springer Vieweg, Singapore. https://doi.org/10.1007/978-981-97-2498-7_9
4. Satish, K.V., **Pasha, S.V.** & Reddy, C.S. (2024). Spatial conservation prioritization of landscapes in Nilgiri Biosphere Reserve, Western Ghats. In: T. Pullaiah (ed.) Biodiversity Hotspot of the Western Ghats and Sri Lanka. pp 381-403. Apple Academic Press. USA.
5. **Pasha, S.V.,** Dadhwal, V.K., & Saketh, K. (2023). Remote Sensing for Mango and Rubber Mapping and Characterization for Carbon Stock Estimation—Case Study of Malihabad Tehsil (UP) and West Tripura District, India. In *Digital Ecosystem for Innovation in Agriculture* (pp. 183-200). Singapore: Springer Nature Singapore.
6. C. Sudhakar Reddy, K.R.L Saranya, P. Hari Krishna, **Pasha, S.V.,** K.V Sathish and C.S Jha) Flora of NRSC Shadnagar campus **(BOOK)** https://nrsc.gov.in/Forestry_and_Environment?q=Shadnagar_flora
7. Forest Resources Resilience and Conflicts 1st Edition **Chapter:** Development of a WebGIS platform to generate biodiversity data using citizen science approach, Sujoy Mudia, Sambhunath Roy, Pulakesh Das, & **Pasha, S.V. (PP-17-31).**
8. Behera, M. D., Chitale, V. S., Matin, S., Pujar, G. S., Malik, A. H., & **Pasha, S.V.** (2022). Spatiotemporal Dynamics of Land and Vegetation Cover in Cold Desert Region of the Ladakh Himalaya. In Geospatial Technologies for Land and Water Resources Management (pp. 85-102). Springer, Cham.

Contribution to other technical reports

1. Inventorisation and Monitoring of Biosphere Reserves in India using Remote Sensing and GIS technology (Kachchh Biosphere Reserve). **Pasha, S.V.,** C. Sudhakar Reddy, CS Jha **Affiliation:** National Remote Sensing Centre. NRSC-RSAA-FEG-MAY-2016-TR-855.
2. National Remote Sensing Centre Bibliography of selected Publications in Journals 2011-2015. (Sudhakar Reddy C., Vijaya Banu, Jaya Saxena, CS Jha, **Pasha, S.V.,** KV Satish, VVL Padma Alekhya, KRL Saranya, Sonali Singh, Jyoti Singh, AM Vamsee, M Suresh) Report number:NRSC-DIR-PPEG-Feb-2016-TR-793, Affiliation: National Remote Sensing Centre. http://www.nrsc.gov.in/sites/all/pdf/Bibliography%20Full%20_Web.pdf
3. Monitoring of NABARD Sponsored Watersheds in Madhya Pradesh State using Geospatial Techniques (Report number NRSC-RSA-LRUMG-RDWMD-FEB2021-TR0001786-V1.0)
4. Monitoring of NABARD Sponsored Watersheds in Gujarat State using Geospatial Techniques (Report number NRSC-RSA-LRUMG-RDWMD-FEB2021-TR0001787-V1.0)
5. Monitoring of NABARD Sponsored Watersheds in Rajasthan State using Geospatial Techniques (Report number NRSC-RSA-LRUMG-RDWMD-FEB2021-TR0001788-V1.0)

Symposium/Seminars/Webinars participated: 15

Declaration: I hereby declare that all the above information is true to the best of my knowledge and belief.

(Dr. VAZEED PASHA SHAIK)