

ISRO RESEARCH HIGHLIGHTS

***A Bi-Monthly Analysis of Journal Articles
Published by DOS/ISRO Centres/Units indexed
in Scopus and Web of Science Databases***

**Issue-1
January-February 2026**

**Library and Documentation Division
ISRO Headquarters**

ISRO RESEARCH HIGHLIGHTS

JANUARY – FEBRUARY 2026

EXECUTIVE SUMMARY

SOURCES OF DATA: Scopus and Web of Science Databases

329 Total Articles	196 Unique Journals	16 Centres/Units	6.96 Avg. Authors/Paper	85 Open Access Articles	86 Intl. Collab. Papers
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KEY FINDINGS

- 01 Atmospheric Sci. + Earth Obs. = 46.5% of output (153/329), driven by INSAT, Resourcesat & Cartosat mandates.
- 02 PRL leads with 88 articles (26.7%); IIST with 67 (20.36%) and SAC with 45 (13.68%). All 329 articles matched to an ISRO Centre/Unit.
- 03 Modelling is the dominant method (197 papers, 59.9%) - WRF, CMIP, LES, FEM. Experimental & observational approaches cover 43.8%.
- 04 AI/ML applied in 85 articles (25.8%) - deep learning, CNNs, random forests - primarily in Earth observation & atmospheric domains.
- 05 High collaboration: avg. 7.0 authors/paper; 37 articles with 10+ authors; three 100-author articles. astrophysics consortium papers.
- 06 International collaboration in 86 articles (26.14%). ISRO HQ highest at 100% followed by PRL at 53.41% and IIST at 23.88% international collaboration articles.
- 07 56 articles (18.2%) claim novelty - 'novel' (32) and 'first time' (6).
- 08 Open access: only 85/329 (25.84%) openly accessible. IOP journals lead at 89% OA; Elsevier at 15%.
- 09 196 unique journals across various subject domains; 150 (76.53%) contribute only 1 article - exceptional breadth & interdisciplinary reach.
- 10 Indian Ocean (7 articles); Bay of Bengal (13 articles).

RESEARCH DOMAIN DISTRIBUTION

Research Domain	No.	%
Atmospheric Science & Climate	94	28.6%
Spacecraft & Propulsion Engineering	82	24.9%
Earth Observation & RS	59	17.9%
Astronomy & Astrophysics	27	8.2%
Space Weather & Ionosphere	15	4.6%
Planetary & Lunar Science	14	4.3%
Oceanography & Hydrology	14	4.3%
Machine Learning & Data Sci.	14	4.3%
Navigation, Geosciences, Other	10	3.0%
TOTAL	329	100%

TOP PUBLISHING CENTRES

Top ISRO Centres	No.
PRL	88
IIST	68
SAC	45
VSSC/SPL	40
IIRS	32
NRSC	30
Others	65

AUTHOR KEYWORDS (TOP 5)

Keyword	No.
remote sensing	11
machine learning	9
deep learning	8
random forest	6
air quality	5

CROSS-CUTTING THEMES

Cross-Cutting Theme	No.	%
Modelling / Simulation	197	59.9%
India-Specific Research	118	35.9%
AI / ML Methods Applied	85	25.8%
Validation / Ground Truth	77	23.4%
Experimental / Lab Work	84	25.5%
Satellite / RS Data Used	70	21.3%
Operational / App. Focus	66	20.1%
Novel / First-of-Kind Claims	60	18.2%
Intl. Datasets (ERA5, GPM...)	33	10.0%
Mission-Linked (ISRO)	23	7.0%
Climate Change Focus	14	4.3%

PUBLISHER LANDSCAPE

Publisher Group	No.
Elsevier (all imprints)	120
Springer (all imprints)	81
Wiley	21
IEEE / IOP Publishing	40
Taylor & Francis	18
All others	49

MISSION COVERAGE (23 PAPERS, 7.0%)

Mission / Platform	n
INSAT (3D/3DR/3DS)	6
Resourcesat (LISS series)	5
Cartosat	3
Chandrayaan-2 & -3	4
Aditya-L1 / NavIC	4
AstroSat	1

OPEN ACCESS BREAKDOWN

OA Type	No.
Subscription / No OA Tag	244
Gold Open Access	45
Hybrid Gold OA	18
Green OA (only)	14
Bronze OA	8

1. Corpus Overview

The dataset comprises 329 journal articles published by DOS/ISRO-affiliated researchers during January–February 2026, indexed in Scopus and Web of Science databases and exported on 5th March 2026. The corpus spans 196 unique journals across different research domains.

329 Total Articles	196 Unique Journals	16 Centres / Units	6.96 Avg. Authors / Article	85 Open Access Articles	328 Articles with DOI	47 Collab. countries	>220 Indian Institutions
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2. Author & Authorship Analysis

This section analyses authorship count distribution, collaboration depth, and the most prolific individual contributors. The total number of author-name instances across all 329 articles is 2,290 with 1888 unique authors.

2.1 Authorship Band Distribution

Authorship Band	Articles	% of Total	Cumulative %
Single author (1)	5	1.5%	1.5%
2 authors	40	12.2%	13.7%
3–4 authors	110	33.4%	47.1%
5–9 authors	137	41.6%	88.8%
10–19 authors	23	7.0%	95.7%
20+ authors	14	4.3%	100.0%
TOTAL	329	100.0%	

Interestingly, there are three articles published with 100 authors each. However, this significantly increases the average authorship count (6.96). If these three articles are excluded, the effective average drops to approximately 6.2 authors per article. Furthermore, 47.1% of articles (155) fall in the 1-4 author band, indicating that solo and small-team research remains substantial alongside large consortia.

2.2 Top Most Frequent Author Names

#	Author Name	No. of Articles
01	Chauhan, Prakash / NRSC	10
02	Suresh Babu, S.S. / SPL-VSSC	9
03	Kumar, Prashant. / SAC	8
04	Sharma, Som Kumar. / PRL	7

05	Kamat, Dharmendra Kumar. / PRL	6
06	Pallamraju, Duggirala. / PRL	6
07	Sharma, Rashmi. / SAC	6
08	Singh, Raghavendra Pratap. / IIRS	6
09	Anoop, A.C. / IIST	5
10	Mishra, Deepak. / IIST	5
11	Murty, S.V.S.N. / LPSCV	5
12	Ray, Dwijesh. / PRL	5

3. Journal Landscape

The 329 articles are distributed across 196 unique journals - an average of 1.68 articles per journal. Only 22 journals (11.22%) carry 3 or more articles, underlining the exceptional breadth of ISRO's publication footprint.

3.1 Journal Coverage Summary

196 Unique Journals	150 Journals with only 1 article	24 Journals with 2 articles	22 Journals with 3+ articles
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3.2 Top Journals by Article Count

#	Journal	Articles	% of Total
01	Journal of the Indian Society of Remote Sensing	20	6.1%
02	Astrophysical Journal	12	3.6%
03	Atmospheric Research	12	3.6%
04	Advances in Space Research	9	2.4%
05	Atmospheric Environment	7	2.1%
06	IEEE Sensors Letters	7	2.1%
07	Astronomy and Astrophysics	6	1.8%
08	Journal of Geophysical Research: Space Physics	6	1.8%
09	Life Sciences in Space Research	6	1.8%
10	Monthly Notices of the Royal Astronomical Society	5	1.5%
11	Theoretical and Applied Climatology	5	1.5%
12	Icarus	4	1.2%
13	Natural Hazards	4	1.2%

#	Journal	Articles	% of Total
14	Remote Sensing Applications: Society and Environment	4	1.2%

The top journal (JISRS, 20 articles, 6.1%) publishes remotely-sensed Earth observation work. The top 20 journals together account for 125 articles (38.00%). The remaining 204 articles are spread across 176 journals, confirming wide interdisciplinary reach. With 150 journals carrying only a single article (76.53% of all unique journals), ISRO's publication footprint is exceptionally dispersed.

4. Publisher Analysis

32 distinct publisher names appear in the dataset. After consolidating imprints, Elsevier is the dominant publisher group with 36.47% share, followed by Springer (24.62%).

4.1 Publisher Group Summary (Consolidated)

Publisher Group	Articles	% of Total	Market Position
Elsevier	120	36.47	Dominant - largest global STM publisher
Springer	81	24.62	Second largest - strong in sciences
Wiley	21	6.38	Major interdisciplinary publisher
IOP Publishing	21	6.38	Strong in physics & space sciences
IEEE	19	5.78	Leading engineering / technology publisher
Taylor & Francis	18	5.47	Broad coverage across applied sciences
EDP Sciences	6	1.82	European publisher; astronomy focus
American Chemical Society	6	1.82	Chemistry / materials
Oxford University Press	5	1.52	Humanities & sciences; MNRAS
Others (23 publishers)	32	9.73	Diverse specialised publishers

Elsevier's 120 articles across Elsevier Ltd, Elsevier B.V., ELSEVIER SCI LTD, and Academic Press Inc. represent the largest share. IOP Publishing (21 articles) is notable for its physics and astronomy journals, including the Astrophysical Journal family. Elsevier alone accounts for 36.47% of all articles yet delivers an OA rate of only 15%. **A DOS/ISRO open-access mandate or institutional APC fund would substantially improve discoverability.** IOP Publishing's 89% OA rate demonstrate that high OA compliance is achievable even in physics and space science domains and should be used as a benchmark.

5. ISRO Centre & Affiliation Analysis

Affiliations were extracted from the Scopus and Web of Science databases with 'Affiliations' field. All 329 articles (100%) were successfully matched to at least one

DOS/ISRO Centre or Unit. An article is counted under every Centre/Unit whose authors appear in it, so the total attributions (368) exceed the article count (329). 39 articles span 2 or more DOS/ISRO Centres/Units.

5.1 Centre-wise Article Count

#	Centre / Unit	Articles	% of 329
1	Human Space Flight Centre	1	0.30
2	Indian Institute of Remote Sensing	32	9.73
3	Indian Institute of Space Science and Technology	68	20.67
4	ISRO Inertial Systems Unit	3	0.91
5	ISRO Propulsion Complex	5	1.52
6	ISRO Headquarters	5	1.52
7	ISRO Telemetry Tracking and Command Network	3	0.91
8	Liquid Propulsion Systems Centre Valiamala	11	3.34
9	Master Control Facility	1	0.30
10	National Atmospheric Research Laboratory	17	5.17
11	North Eastern Space Applications Centre	10	3.04
12	National Remote Sensing Centre	30	9.12
13	Physical Research Laboratory	88	26.75
14	Space Applications Centres	45	13.68
15	U R Rao Satellite Centre	9	2.74
16	Vikram Sarabhai Space Centre / Space Physics Laboratory	40	12.16
	TOTAL ATTRIBUTIONS	368	

PRL leads primarily because of its large astrophysics output and high-author-count articles (consortium articles). IIST's 68 articles reflect its role as an ISRO-funded university. SAC and VSSC represent ISRO's operational applied-research mandate. PRL (26.75%), IIST (20.36%) and SAC (13.68%) together account for 61.09% of total attributions.

5.2 International Collaboration by Centre/Unit

86 unique articles of 329 total articles (26.14%) involve at least one non-Indian author affiliation. International collaboration rates vary widely by Centre/Unit - from 0% for HSFC, IISU, IPRC, ISTRAC, LPSCV and MCF to 53.41% for PRL and 23.88% for IIST.

Centre	Total Articles	Intl. Collab.	% of Total Articles
Human Space Flight Centre	1	-	-
Indian Institute of Remote Sensing	32	5	15.62
Indian Institute of Space Science and Technology	68	16	23.53
ISRO Inertial Systems Unit	3	-	-
ISRO Propulsion Complex	5	-	-
ISRO Headquarters	5	4	80.00
ISRO Telemetry Tracking and Command Network	3	-	-
Liquid Propulsion Systems Centre Valiamala	11	-	-
Master Control Facility	1	-	-
National Atmospheric Research Laboratory	17	2	11.76
North Eastern Space Applications Centre	10	1	10.00
National Remote Sensing Centre	30	4	13.33
Physical Research Laboratory	88	47	53.41
Space Applications Centres	45	8	17.78
U R Rao Satellite Centre	9	2	22.22
Vikram Sarabhai Space Centre / Space Physics Laboratory	40	8	20.00

5.3 International Collaboration - Partner Countries

Collaboration with 47 Countries identified from affiliation strings. The authors from USA, Germany, Japan, China, France, United Kingdom and South Africa are the major collaborators.

Country	Articles with Collab.
United States	32
Germany	19
Japan	16
France	15
China	11
United Kingdom	11
South Africa	10
Italy	8
Australia	7
Canada	6

USA has the highest co-occurrence in affiliation strings, driven primarily by large astrophysics consortium articles where PRL researchers collaborate with US-based teams.

6. Research Domain Distribution

Each article was classified into one primary domain using keyword scoring on title and abstract. The classification is mutually exclusive - each article appears under exactly one domain. Total = 329.

#	Research Domain	Articles	% of Total	Top Journal
01	Atmospheric Science & Climate	94	28.6%	Atmospheric Research (12)
02	Spacecraft & Propulsion Engineering	82	24.9%	IEEE Sensors Letters (4)
03	Earth Observation & Remote Sensing	59	17.9%	J. Indian Soc. Remote Sensing (12)
04	Astronomy & Astrophysics	27	8.2%	Astrophysical Journal (9)
05	Space Weather & Ionosphere	15	4.6%	JGR: Space Physics (4)
06	Planetology & Lunar Science	14	4.3%	J. Indian Soc. Remote Sensing (4)
07	Oceanography & Hydrology	14	4.3%	Various (1 each)
08	Machine Learning & Data Science	14	4.3%	Various (1 each)
09	Navigation & Geodesy	2	0.6%	Tectonophysics, RS Letters
10	Geosciences & Natural Hazards	2	0.6%	Geomorphology, Natural Hazards
11	Other / Interdisciplinary	6	1.8%	J. High Energy Physics (2)
	TOTAL	329	100.0%	

Atmospheric Science (28.6%) + Earth Observation (17.9%) together account for 46.50% of output, reflecting ISRO's operational mandate around INSAT, Resourcesat, and Cartosat. Spacecraft & Propulsion (24.9%) reflects VSSC, LPSC, IPRC, and IIST's engineering output. Astronomy & Astrophysics (8.2%) is driven almost entirely by PRL.

7. Cross-Cutting Research Themes

Themes are identified by pattern-matching titles and abstracts. A single article may satisfy multiple themes simultaneously. Percentages are of the total 329 articles.

Theme	Articles	% of	Significance
Modelling / Simulation	197	59.9%	Dominant methodology; WRF,
India-Specific Research	118	35.9%	Domestic focus remains primary
Statistical / ML Analysis	96	29.2%	Broad adoption of data-driven
AI / ML Methods Applied	85	25.8%	Deep learning / neural networks
Experimental / Lab Work	84	25.5%	Materials, propulsion, sensor
Validation / Ground Truth	77	23.4%	High emphasis on observational
Novel / First-of-Kind Claims	56	17.02%	Novelty language: 'novel', 'first
Satellite / Remote Sensing Data	70	21.3%	Sentinel, MODIS, Landsat, IRS series
Operational / Application Focus	66	20.1%	Decision-support, real-time, early
International Datasets Used	33	10.0%	ERA5, GRACE, CHIRPS, GPM,
Mission-Linked (ISRO)	23	7.0%	Direct reference to INSAT,
Space Mission / Experimental	17	5.2%	In-orbit, onboard, or flight
Climate Change Focus	14	4.3%	Explicit GHG / global warming
Review / Meta-analysis	8	2.4%	Systematic review or multi-study

8. Novelty & First-of-Kind Claims

56 articles (18.2%) contain language claiming novelty, priority, first time and new method character.

Novelty Term Used	Occurrences	Where it appears
'novel' (standalone adjective)	32	Most common; appears in materials, engineering, ML articles
'for the first time'	6	Explicit temporal priority claim
'newly' (new method / approach)	6	Less formal but implies priority
'first demonstration'	1	Engineering / experimental context
'new method'	1	Methodological novelty
TOTAL (unique articles)	56	17.02% of 329 articles

9. Open Access Status

245 of 329 articles (74.5%) carry no open access tag in the Scopus export, indicating subscription-based access to articles. 84 articles (25.5%) are accessible via one or more OA routes. Gold OA is the dominant OA pathway (46 articles, 14.0% of total).

9.1 Open Access Classification

OA Category	Articles	% of Total	Description
Subscription / No OA Tag	244	74.16	No open access designation in Scopus record
Gold Open Access	45	13.68	Fully OA journal or APC-funded Gold route
Hybrid Gold OA	18	5.47	OA article in subscription journal (APC paid)
Green OA Only	14	4.26	Author manuscript in repository; no journal OA
Bronze OA	8	2.43	Free to read on publisher site; no formal OA licence
TOTAL OA (any route)	85	25.84	
TOTAL	329	100.0%	

IOP Publishing has the highest OA rate: 17 of 19 articles (89%) are open access, driven by the *Astrophysical Journal* family's author charge model. Elsevier's OA rate is only 17/117 (15%). **Expanding institutional OA mandates and APC funding would significantly improve discoverability.**

10. Author Keywords Analysis

279 of 329 articles (84.80%) carry author-assigned keywords. 50 articles (15.20%) have no keyword assigned. A total of 1,482 keyword instances cover 1,342 unique terms - indicating very high keyword diversity with minimal repetition.

279 Articles with Keywords	50 No Keywords	1,482 Total KW Instances	1,342 Unique Keywords	5.3 Avg. KWs per Article
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10.1 Top 25 Author Keywords

#	Keyword	Count	Domain Association
01	remote sensing	11	Earth Observation & Remote Sensing
02	machine learning	9	Cross-cutting / Data Science
03	deep learning	8	Cross-cutting / Data Science
04	random forest	6	Cross-cutting / Machine Learning

#	Keyword	Count	Domain Association
05	air quality	5	Atmospheric Science
06	optimization	4	Engineering / Multi-domain
07	arabian sea	4	Oceanography / Atmospheric
08	astrochemistry	4	Astronomy & Astrophysics
09	ISM (interstellar medium)	4	Astronomy & Astrophysics
10	HII regions	3	Astronomy & Astrophysics
11	rip currents	3	Oceanography
12	thermal sensors	3	Spacecraft & Engineering
13	WRF model	3	Atmospheric Science
14	boundary layer	3	Atmospheric Science
15	atmospheric boundary layer	3	Atmospheric Science
16	ceilometer	3	Atmospheric Science
17	cloud base height	3	Atmospheric Science
18	mechanism	3	Materials / Engineering
19	Mars	3	Planetary Science
20	galaxies: active	3	Astronomy
21	hot deformation	3	Materials Science
22	quantum key distribution	3	Quantum Optics
23	spectroscopy	3	Astronomy / Materials
24	Bay of Bengal	3	Oceanography / Atmospheric
25	Indian summer monsoon	3	Atmospheric Science

Remote sensing, machine learning, and deep learning are the top three keywords - confirming that AI-driven Earth observation is the single most active emerging sub-theme. Astrochemistry and ISM keywords reflect PRL's active radio astronomy programme.

11. ISRO Missions & Platform Coverage

23 articles (7.0%) contain direct references to a specific ISRO mission, satellite platform, or instrument in their title or abstract. Patterns use verified, instrument-specific terms to minimise false positives.

Mission / Platform	Articles	Domain	Nature of Research
INSAT series (3D, 3DR, 3DS)	6	Atmospheric Science	Radiance assimilation, cyclone tracking, aerosol retrieval, fire monitoring
Resourcesat (LISS-III, LISS-IV)	5	Earth Observation	Land cover, landslides, glacier, image captioning
Cartosat (2E, 3)	3	Earth Observation	Road extraction, building footprints, DEM generation
Chandrayaan-2	2	Planetary Science	Dual-frequency SAR crater morphology; landing site mineralogy
Chandrayaan-3	2	Planetary Science	Landing site mineralogy; FPGA radar altimeter development
Aditya-L1	2	Astronomy / Space Weather	ASPEX particle energisation; Lagrange orbit validation
IRNSS / NavIC	2	Navigation	Smartphone GNSS evaluation; rip current modelling
AstroSat	1	Astronomy	Black hole X-ray binary spectro-polarimetry
TOTAL	23		

One article appears under both Chandrayaan-2 and Chandrayaan-3 (landing site mineralogy study). INSAT leads with 6 articles covering meteorological applications. SAC's development of a Chandrayaan-3-inspired FPGA radar altimeter also counts as mission-linked research.

12. Geographic Focus of Research

Geographic keywords were matched within titles and abstracts. An article may cover multiple geographic regions. The counts represent articles mentioning each region at least once.

Geographic Region	Articles	% of 329	Context
India / Indian (general)	118	35.9%	Broadest category; encompasses all Indian-context studies
Global scope	35	10.6%	Global datasets, worldwide analysis, or universal phenomena

Geographic Region	Articles	% of 329	Context
Arctic / Antarctic / Polar	32	9.7%	Cryosphere, polar vortex, teleconnection studies
Himalayas / Hindu Kush	14	4.3%	Cryosphere, glaciology, climate, landslide research
Bay of Bengal	13	4.0%	Monsoon dynamics, cyclone genesis, marine science
Arabian Sea	12	3.6%	Aerosols, monsoon onset, marine biogeochemistry
Mars (extraterrestrial)	10	3.0%	Planetary science, Mars geology
Moon / Lunar	7	2.1%	Chandrayaan science, crater studies
Indian Ocean (general)	7	2.1%	Under-represented given Oceansat capacity
Southeast Asia / South Asia	6	1.8%	Bangladesh, Nepal, Pakistan; regional environmental studies

India-focused research (35.9%) remains the dominant geographic frame. Notably, 32 articles (9.7%) involve polar/Arctic topics, many driven by teleconnection research linking Arctic climate to Indian monsoon variability.

13. Research Methodology Signals

Abstract text was scanned for methodology indicator terms. Articles can satisfy multiple categories.

Methodology Signal	Articles	% of 329	Interpretation
Numerical / Modelling	197	59.9%	Dominant; covers WRF, GCM, CMIP, LES, FEM, CFD models
Statistical / ML Analysis	96	29.2%	Regression, correlation, ML - broad data-driven coverage
Experimental / Lab Work	84	25.5%	Materials testing, sensor fabrication, propulsion experiments
Satellite / Remote Sensing Data	70	21.3%	Satellite imagery as primary data source
Observational / Field Study	60	18.2%	In-situ measurements, ground-based stations, field campaigns

Methodology Signal	Articles	% of 329	Interpretation
Spectroscopic / Photometric	41	12.5%	Optical/radio spectroscopy; photometry in astronomy articles
Review / Meta-analysis	8	2.4%	Systematic literature reviews; small fraction

Modelling is the predominant methodology (59.9%), reflecting the computational nature of atmospheric, oceanographic, and engineering work. Experimental and observational studies together cover 144 articles (43.8%), indicating a healthy balance between computational and empirical approaches.

14. DOI Coverage & Data Quality

DOI (Digital Object Identifier) coverage is 99.7% - 328 of 329 articles have a DOI. This near-complete coverage ensures each article can be uniquely and persistently identified.

328 Articles with DOI (99.7%)	1 Missing DOI	51 Missing Author Keywords	4 Missing Publisher
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15. Notable Article Spotlights

★ **LARGE CONSORTIUM - 100 Co-Authors** | *Science Bulletin*

A fast powerful X-ray transient from possible tidal disruption of a white dwarf by an intermediate-mass black hole

Science Bulletin - Physical Research Laboratory, Ahmedabad (with 99 international co-authors)

A 100-author consortium article reporting a rare astrophysical transient consistent with tidal disruption of a white dwarf by an intermediate-mass black hole. Such events constrain black hole demographics in the intermediate-mass regime - a poorly understood population. PRL's participation in this global consortium illustrates its integration into frontier high-energy astrophysics networks.

★ **LONGEST ABSTRACT (4,133 chars)** | *Earth-Science Reviews (IF > 10)*

Hybrid volcanic rocks from Alech Hills, Saurashtra, western India - insight into magma mixing and crustal contamination

Earth-Science Reviews - High-impact geoscience journal

Published in one of the highest-impact geoscience journals, this article provides geochemical and petrological insight into Deccan-era hybrid volcanic rocks in

Saurashtra. Results illuminate magma–crust interaction during the Deccan Volcanism episode, with implications for India's tectonic and volcanism history.

★ **ADITYA-L1 FIRST SCIENCE** | *Astrophysical Journal Letters*

Evidence for In Situ Particle Energization during the 2024 May Event Based on the ASPEX Instrument on Board Aditya-L1

Astrophysical Journal Letters - PRL / VSSC Collaboration

One of the first peer-reviewed science results from Aditya-L1's ASPEX instrument, reporting in-situ particle energisation during a major solar energetic particle event in May 2024. This is an important milestone: early operational science from India's first dedicated solar observatory establishing ISRO's footprint in heliospheric physics.

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LIST OF ARTICLES PUBLISHED BY DOS/ISRO CENTRES/UNITS INDEXED IN SCOPUS AND WEB OF SCIENCE DATABASES DURING JANUARY – FEBRUARY 2026

Sl. No.	Title of the Article	Author(s) from ISRO Centre/Units
1	A 2–14-GHz Inductorless Wideband 6-bit Phase Shifter in 130-nm BiCMOS Process	SAC
2	A comparative study on the effectiveness of half-bulb under-reamed over single under-reamed piles in enhancing axial capacity in soft clays	VSSC
3	A comprehensive drought characterization of Bangladesh using integrated remote sensing observations and land surface model outputs	IIRS
4	A conceptual framework for assessing urban biodiversity: components, drivers, and dynamics through earth observation	IIRS
5	A Deep Learning Approach for Automated Building Footprint Extraction from Cartosat Imagery	IIRS
6	A deep learning-based semantic segmentation framework for 3D reconstruction of heritage architecture	IIRS
7	A fast powerful X-ray transient from possible tidal disruption of a white dwarf	IIST
8	A fluid vacation model for renewable-powered electric vehicle charging systems: Performance evaluation and cost-optimal battery sizing	IIST
9	A GEOSPATIAL APPROACH TO MANAGING IRRIGATION WATER RESOURCES OF THE BIG ALMATY CANAL	ISRO HQ
10	A global view on star formation: The GLOSTAR Galactic plane survey. XII. Effelsberg's continuum view and data release	IIST
11	A GMR-Based Smart Respiration Belt for Noninvasive Real-Time Monitoring	IIST
12	A holistic similarity measure for GMMs by embedding it into the manifold of SPD matrices	IIST
13	A hybrid deep learning model based on vision transformer and convolutional neural networks for land use and land cover classification	NRSC
14	A multidimensional approach to manage rip current danger and enhancing safety at beaches	SAC
15	A novel PSQA brain phantom using G-GAAB gel to measure non-coplanar dose with IMRT and VMAT techniques in radiation therapy	IIST
16	A Rigorous Comparative Geological Evaluation of a Potential Martian Terrestrial Analog Site from Kachchh Sedimentary Basin of NW India: A Geoheritage Significance	SAC
17	A safer, high performance LiMn ₂ O ₄ /LiTi ₂ (PO ₄) ₃ cell enabled by aqueous electrolyte	VSSC
18	A Scale-Adaptive TENO Scheme based on a New Smoothness Indicator	IIST
19	A Smart Dual-Thermistor-Based Nasal Mask for Respiratory Health Monitoring	IIST

20	A tale of two magnetic CVs: TESS detection of QPOs and accretion variability in Swift J2113.5+5422, and the polar nature of LAMOST J003553.36+433341.4	PRL
21	A unified stabilized virtual element method for the generalized Oseen equation: stability and robustness	IIST
22	Accretion Geometry of the New Galactic Black Hole Candidate AT2019wey in the Hard State	URSC
23	Active tectonics in the Himalayan foreland due to an advancing detachment plane	IIRS
24	Additive manufacturing of bimetallic structures: Process challenges, interfacial engineering, and emerging intelligent approaches	VSSC
25	Advancing real-time coastal data monitoring: Bio-optical property analysis (chlorophyll-a and TSM) in the Northern Bay of Bengal using Sentinel-3 OLCI, IRS Oceansat-3, and artificial neural networks	SAC
26	Aerosol characterization using dynamic columnar properties over a remote station in the Meghalaya plateau	NESAC
27	Aerosol light-scattering enhancement and liquid water content in a tropical coastal atmosphere	VSSC
28	Aerosol pollution across the Indo-Gangetic plain and the Himalayas: Seasonal patterns and implications for air quality and climate	PRL
29	Age and geochemistry of carbonatites and associated silicate rocks in Sarnu-Dandali alkaline complex, Deccan Large Igneous Province: Evidence for melt immiscibility and plume-lithosphere interaction	PRL
30	All-sky radiance assimilation of INSAT-3DS imager water vapour channel in the weather research and forecasting model	SAC
31	ALMA-QUARKS: Few-thousand-year Hatching out of the Egg: The Supersonic Breakout of a Hypercompact H II Region from Its Parental Hot Core	IIST
32	ALMASOP: Inner-envelope Structures of Protostars Driving Nascent Jets	PRL
33	An Enhanced LVDT Digitizer With Extended Range	IIST
34	An estimation of gain coefficient of visible-channel of INSAT-3D and INSAT-3DR imager-using tropical cyclones over India region	SAC
35	An experimental study of forming force and hardness of deformed sheet in induction heated incremental forming of AA6061 alloy	VSSC
36	An Improved Inductance and Self-Resonance Frequency Modeling and Estimation of Single-Turn On-Chip Inductors for Millimeter-Wave Applications	IIST
37	An Integrated Framework for Global Detection and Quantification of Lunar Pyroclastic Deposits	PRL
38	An unusual velocity field in a sunspot penumbra	PRL
39	Analysis of precipitation and temperature trends in the gomti river basin, India (1980–2023)	IIRS
40	Anomalous global and seasonal variations in the Equatorial Ionization Anomaly (EIA) observed during the May and October 2024 geomagnetic storms	PRL

41	Application of GIS for Property Tax Assessment: A Case Study of Shillong Municipal Board	NESAC
42	Are Protons Truly Stable?: Proton Stability: A Theoretical and Experimental Overview	PRL
43	Assessing historical and future spatio-temporal dynamics of water footprints across climatically diverse zones of an agriculturally dominant river basin	NRSC
44	Assessing Landscape Dynamics and Variations in Land Surface Temperature in the Parbati Watershed of the Himalayas	IIRS
45	Assessing the impact of polarization on soil moisture retrieval using C-band SAR data across diverse crop structures	SAC
46	Assessing the impact of the lightning on the total electron content of the atmosphere	NRSC
47	Assessing vegetation health and fragmentation in Aizawl District using Normalized Difference Vegetation Index	IIRS
48	Assessment of EOS-07 MHS satellite observations and retrieval of specific humidity profiles using a random forest-based algorithm	SAC
49	Assessment of the near surface air pollution, sources, and their potential at a tropical urban location Hyderabad, India	NARL
50	Atmospheric boundary layer characteristics during severe air pollution and fog events over Delhi: Insights from ground-based Lidar, satellites, and models	PRL
51	Back-to-back triggering of tropical cyclones during extreme positive IOD event in the Arabian Sea	IIRS
52	Bauxite exploration in Odisha using advanced hyperspectral remote sensing and analytical techniques	IIRS
53	Biogeochemical cycling of dissolved zinc in the Indian Ocean	PRL
54	Bio-optical relationships in the surface waters of the Indian Sector of the Southern Ocean during austral summer	NRSC
55	Black carbon mixing state and light-absorption enhancement under different air mass regimes over a tropical coastal site	VSSC
56	Boundary Layer Meteorology in Elysium Planitia, Mars During a Global Dust Storm - Insights from a Dust Reservoir	PRL
57	Calibration and Performance Evaluation of Low-Cost Air Quality Sensors in an Urban Environment of Western India	PRL
58	Carbon Black-Incorporated Carbon Nanofiber for Flexible and Washable Monopole Antenna	IIST
59	Carbon composites for electromagnetic interference shielding: Progress, challenges and perspective	IIST
60	Carbon dioxide (CO ₂) variations across India: Synthesis of observations and model simulations	SAC/NARL/PRL/VSSC
61	CartoRoadNet: A Deep Learning Framework for Indian Road Network Extraction from Cartosat-2E Satellite Images	NRSC

62	Characteristics of cloud base height distribution over a tropical urban region Hyderabad, India	NARL/IIST
63	Characteristics of multi-layer clouds observed using ceilometer observations over Leh-Ladakh: A high-altitude cold desert region	PRL/SAC
64	Characterization of Drop Size Distribution in Urban Heavy Rainfall Event Using Doppler Weather Radar and Laser Precipitation Monitor	NRSC
65	Characterization of liquid jet breakup mechanisms in a swirl coaxial aerated injector	IIST
66	Classical spectral unmixing-based lunar mineralogical analysis using hyperspectral data from Chandrayaan-2	SAC
67	Climatological features of Land–Sea breeze circulation along the red sea Coasts	NARL
68	Climatology of Quasi-2-Day Wave-Induced Horizontal Momentum Flux and Heat Fluxes Over the Tropical MLT Region Using SVU Meteor Radar	NARL/VSSC
69	Colloidal Gold-Assisted Isolation and Electric Lysis of Small Exosomes for Electrochemical Detection of HER2 Cancer Biomarker	IIST
70	Comparative case studies of environmental factors and vortex features in developing and non-developing tropical disturbances over the Bay of Bengal	NARL
71	Comparison of the structure–property relationships in CaZrO_3 perovskite doped with Pr^{3+} , Sm^{3+} , and Eu^{3+} for solid-state lighting	PRL
72	Compound urban extremes weaken the cooling efficacy of super cool broadband materials in cities	IIRS
73	Computational Studies on the Strain Energy and Natural Frequency of a Parabolic Deployable Composite Boom for Space Antenna Structures	URSC
74	Constraints on lepton flavor universal and non-universal new physics in $b \rightarrow s\ell + \ell^-$ decays: A global SMEFT survey	PRL
75	Context-Aware Person Re-Identification with Guided Prompt Pooling	IIST
76	Coupled ocean-atmosphere modeling of tropical cyclones over the Bay of Bengal: evaluating the performance of OML and PWP ocean modules in the WRF model	NARL
77	Coupling variable infiltration capacity (VIC) reservoir model and regression model for improving inflow estimation into Srisailem Reservoir, India	NRSC
78	Crater Ray Explorer (CRAYEX): Toolkit to evaluate the spallation expanse of rayed craters on lunar surface	PRL/URSC
79	Cross-Linked Epoxy Microspheres and Its Effect on Mechanical, Thermo-Mechanical and Interface Properties of Ambient Cured Epoxy Adhesives	VSSC
80	Dark aqueous processing of organics in aerosols and size-resolved fog droplets: Variations in levels, characteristics and evolution	PRL
81	Dawn-Side Anomaly in Sudden Geomagnetic Field Responses to Solar Wind Pressure Discontinuities During the 10 May and 10 October 2024 Geomagnetic Storms	PRL/SPL

82	Decadal changes in the Tropical Tropopause Inversion Layer and its radiative drivers over Gadanki (2006–2024)	NARL
83	Decadal evolution of mass movements in a Himalayan catchment after the catastrophic 2013 Kedarnath disaster	NRSC
84	Deciphering aerosol impacts: Unravelling long-term AOD trends and radiative forcing across key regions	NARL
85	Deciphering chemical heritage: Isotopic study of methanol and other complex organic molecules in a solar-type protostar NGC 1333 IRAS 4A2	PRL
86	Describing critical barriers in commercial deployment of CO ₂ capture and utilization technologies	IIST
87	Design and development of low noise transimpedance amplifier for low intensity light level detection applications for UV range	NARL/SAC
88	Design and Experimental Validation of Pattern and Frequency Reconfigurable Central Plasma Antenna Array	SAC
89	Design and implementation of an SDR-based spacecraft telemetry system	MCF
90	Design aspects of an additively manufactured reconfigurable grinding wheel with in-situ coolant generation and self-adaptable lubrication capability	IIST
91	Developing a Fluorescence Line Height Based Chlorophyll Algorithm for Optically Complex Waters Using Post Cyclone Phytoplankton Blooms	SAC
92	Development of multifunctional structures for spacecraft applications	URSC
93	Development of One Health-based community surveillance system to study zoonotic diseases: a study protocol	NESAC
94	DFT investigations of major defects in quartz crystal: Implications for luminescence and ESR dosimetry and dating	PRL
95	Disc brake caliper vibration under friction and geometric nonlinearities: modeling, bifurcation, and feedback control assessment	IIST
96	Discovery of a Rich Population of Compact Hub-filament Systems in a Single Star-forming Complex	PRL
97	Distinct Impacts of the Extreme Space Weather Events of 2024 on the Low Latitude Ionospheric Dynamics in the Indian Sector as Captured by Combined Space and Ground Based Plasma Measurements	PRL
98	District-Level Groundnut Yield Prediction in Gujarat State Using Machine Learning and Remote Sensing Data	IIRS
99	Drying of Northern Arabian Sea's Lower Atmosphere Amplifies the Monsoon Droughts Over the Western Front of India	NESAC
100	Dual stage – Spectral and Spatial Analyser (DSSA) - A novel deep learning model for methane detection from hyperspectral images	VSSC
101	Duty-Ratio Controlled Front-End for Thermistors with Broad Span	IIST/IISU

102	Dynamics of convective clouds near and below the lifting condensation level over a semi-arid Western-Indian region	PRL/SAC
103	Eco-sustainable route to water-soluble thiadiazoles via oxidative direct ring construction onto poly(amidoamine) dendrimer: Two targets, one arrow!	IIST
104	Effect of aging time on the fretting wear behavior of selective laser melted (SLM) 15-5 PH stainless steel	LPSCV
105	Effect of high relative permeability and high magnetic saturation flux density on dynamic performance of a plunger type solenoid valve during its start transient	LPSCV
106	Effect of perchlorate on biocementation capable bacteria and Martian bricks	ISRO HQ
107	Effect of Re-crystallization Annealing on the Fracture Toughness of ϕ 400 mm Ti6Al4V Alloy Hemispherical Closed Die Forged Domes for Gas Bottle Applications	VSSC
108	Effect of vacuum annealing temperature and time on the recrystallisation behavior of cold rolled niobium alloy C-103 sheets	LPSCV/IIST
109	Effects of coronal mass ejection on PSR J1022+1001 and possible mode change of PSR J2145 - 0750 in the InPTA DR2	PRL
110	Efficient extraction and evaluation of hand-crafted meta-data features for Dravidian spam SMS classification	IIST
111	Electrical Discharge Nickel Alloying on Ti–6Al–4V: Mechanism and Material Processing for Space Application	URSC
112	Electrically Conductive Polypyrrole-Bentonite Nanocomposite for Thermoelectric Applications	URSC/VSSC
113	Electrification in Martian dust devils: Possibility and implications	PRL
114	Empowering Image Captioning on Indian Remote Sensing Imagery Using Deep Learning	SAC
115	Enhanced Heart disease prediction using LLM ranked feature selection, Dynamic custom Kernel	IIST
116	Enhanced understanding of the K–Pg boundary in the Indian subcontinent: Petrological, mineralogical, and geochemical insights	PRL
117	Enhancement of Radiation Efficiency of Plasma Antenna in Reconfigurable Central Plasma Antenna Array	SAC
118	Enhancing Hydrologic Model Performance in a Data-Scarce Basin Using Satellite-Based Soil Moisture Data	NRSC
119	Estimation of fire radiative power for crop residue burning regions in northern India using India's geostationary satellite INSAT-3DS	SAC
120	Evaluation of GOSAT-IM, NASA-GEOS and NOAA-CT terrestrial ecosystem and oceanic flux datasets using the GEOS-Chem model to simulate the seasonal cycle of tropospheric CO ₂	NRSC
121	Evidence for In Situ Particle Energization during the 2024 May Event Based on the ASPEX Instrument on Board Aditya-L1	PRL
122	Evidence for shock-induced transformation and incipient melting of pyroxene in impact-melt bomb from Lonar Impact Crater, India	PRL

123	Evolution of accretion properties in Mrk 1040 using long-term X-ray observations	PRL
124	Evolution of fractional vortices through intensity autocorrelation of scattered speckle patterns	PRL
125	Experimental Investigation of the Dynamics of Methane-Oxygen Diffusion Flame Stabilized Over Swirl Coaxial Injector	IIST/LPSCV
126	Exploring global research patterns on LGBTQ rights: a comprehensive bibliometric analysis using the Web of Science database	PRL
127	Exploring the feasibility and challenges of AI-based rainfall-induced landslides prediction	NESAC
128	Exploring the interplay between molecular and ionized gas in H II regions	IIST
129	FIRESTORM I: stellar feedback and gas kinematics in the evolved W40 hub-filament system	PRL
130	First Insights Into Unveiling Altitude-Specific Dynamics and Seasonal Behavior of Dual Green Line Dayglow Emission Regions	PRL
131	fKAN-UNet: Lightweight Road Segmentation With Fractional Spectral Modeling and Directional Convolutions	IIST/SAC
132	FiDepth: A New Method for Estimating Fluvial and Pluvial Flood Depths from Near Real-Time Satellite-Derived Inundation Map and Topography	NRSC
133	Flexible heat pipes in thermal management applications – A comprehensive review	URSC
134	Flexible PEDOT:PSS/PVA/Co ₃ O ₄ nanocomposite films with absorption-dominated EMI shielding performance	IIST
135	FMCW radar implementation on RF sampling transceiver with signal processing techniques for enhanced range accuracy	IIST/VSSC
136	Formability investigations of 15–5 PH stainless steel sheets	LPSCV
137	FPGA Implementation of a Hardware-Optimized Autonomous Real-Time Radar Altimeter Processor for Interplanetary Landing Missions	SAC
138	Fredkin Gate-based Arbiter PUF design through challenge obfuscation using garbage outputs	ISTRAC
139	Frequency-Domain clustering of Non-Attainment cities of India using CEEMDAN decomposition of aerosols and Coupled meteorological drivers	NRSC
140	Fumarolic CO ₂ Dynamics: A Case Study from the Tatun Volcano Group, Taiwan	PRL
141	Functionalized SiO ₂ Wafer Platform for on Chip Extracellular Vesicles Capture-Lysis for Electrochemical Sensing	IIST
142	Further updates to the Committee on Space Research Planetary Protection Policy for missions to Icy Worlds	ISRO HQ
143	Generating Cloud-Free Sentinel-2 Images for Enhanced In-Season Crop Type Classification: a Case Study	IIRS
144	Generation of High Resolution DEM and Orthoimage Using Cartosat-2S and Cartosat-3 Data	SAC
145	Geospatial time series forecasting of air quality across Delhi using ARIMA and LSTM models	IIST

146	Glacial Expansion of Deoxygenation in the Arabian Sea	PRL
147	Glacier mass balance and velocity estimation of the Zemu glacier using SAR data	SAC
148	Governing factors of the unprecedented extreme rainfall over Rameswaram Island	NARL
149	Ground image processing of high-resolution thermal EOIR data from EOS-08 microsatellite mission	SAC
150	Groundwater Potential Zones and Resource Estimation: A Case Study in Wainganga Basin, Central India Using AHP and Geospatial Techniques	NRSC
151	Harnessing continual learning and equivariant GNNs for seizure detection in EEG time series	IIST
152	Harnessing Imperfection: Deep Learning-Based Receiver for Non-Coherent Distributed Transmission	ISTRAC
153	High performance helium and hydrogen barrier liners from graphene nanoplatelet reinforced HDPE composites: Synthesis, characterization and properties	VSSC
154	Higher efficacy of SO ₂ and accumulation mode-H ₂ SO ₄ stratospheric aerosol injection: insights from CESM2 and GEOS-Chem with advanced particle microphysics (APM)	VSSC
155	High-Yield Isolation of Stem Cell-Derived Extracellular Vesicles Using a Gold Nanoparticle-Enhanced SiO ₂ Immunoaffinity Platform	IIST
156	Hot deformation behavior of a cast dual-phase CoCrFeNiAl _{0.7} high-entropy alloy: Validation of processing maps and microstructural characteristics	VSSC
157	Hot Workability Behavior of Kovar: An Approach Using Constitutive Equations and Processing Maps	IIST/LPSCV
158	Hybrid volcanic rocks from Alech Hills, Saurashtra, western India- insight into the role of magma mixing in the evolution of Late Cretaceous Deccan Traps Volcanic Province	PRL
159	Identification and characterization of the topside bulge of the Venusian ionosphere	PRL
160	Impact of atmospheric turbulence on free-space deterministic secure quantum communication with squeezed light	IIST
161	Impact of Atmospheric Turbulence on Spatial Mode Mismatch Attacks in Free-Space QKD Implementation	PRL
162	Impact of forest fire on surface black carbon concentration over Mizoram, North-east India	NESAC/VSSC
163	Impact of orography on extreme rainfall event in Thoothukudi, Tamil Nadu: Role of lateral and cross-barrier mountain effects	NARL/IIST
164	Impact of spatial and temporal resolution of satellite sea surface salinity measurements on ocean state prediction in the Tropical Indian Ocean; an OSSE framework using SMOS	SAC
165	Impact of Structural and Sink Parameters on Performance of Loop Heat Pipe	SAC
166	Implementation of Machine Learning Algorithms for Mapping the Geological Units in the Vicinity of Posidonius Crater and the Eastern Rim of Mare Serenitatis	NRSC
167	Imprints of terrestrial water fluxes on tropospheric stable water isotopes revealed by satellite observations and complex network analysis	SAC/IIRS

168	Improving the multi-temporal dissolved oxygen estimation using statistically enhanced remote sensing proxies in data-scarce, optically complex inland water	SAC
169	Indigenous biodegradable cutting fluid effect on workpiece surface morphology and tool wear during machining of resorbable magnesium alloy	VSSC
170	Indoor 3D geometry estimation using single panorama image	IIRS
171	Influence of aging on microstructure evolution and mechanical properties of ultra-low carbon Fe-Cr-Ni-Ti-Mo PH martensitic stainless steel: Insights into austenite stability and Ni ₃ Ti precipitation	LPSCV
172	Influence of matrix inelasticity on the mechanical properties of bioinspired composites	IIST
173	Influence of swirl on the thermo-acoustic characteristics of partially-premixed flames	IIST
174	Infrared spectroscopy reveals ethylene glycol is an anti-crystallizer in water mixed astrochemical ices	PRL/VSSC
175	In-In EFT	PRL
176	Injection and Transport of the Particle Fluxes During the Substorms That Occurred on 7 September 2017: Multi-Satellite Observations	VSSC
177	Insights into the effect of microgravity on phytopathogens and plant-associated microbes	NRSC
178	Integrated Usage of Earth Observation and Machine Learning in Detection of Landslide Hotspot: A Case Example from Ukhimath, Uttarakhand	IIRS
179	Integrating Analytical Hierarchy Process and Machine Learning for Enhancing Flood Hazard Mapping	NESAC/NRSC
180	Integrating CA–Markov–ANN for spatiotemporal prediction of land use dynamics in a fragile Himalayan watershed	IIRS
181	Interface-Engineered AgMOF/Cu ₂ O Pyramids for Enhanced C ₂ H ₄ Selectivity in Electrochemical CO ₂ Reduction	IIST
182	Investigating roles of triple excitations for high-precision determination of clock properties of alkaline-earth-metal singly charged ions	PRL
183	Investigating the impact of adhesive thickness and bond area on failure pressure in bonded composite patch repairs for leaking pipelines: An experimental and numerical study	VSSC
184	Investigating the impact of rain on aerosol morphology and chemical composition across size fractions in Hyderabad, India	NARL
185	Investigation of Atmospheric Boundary Layer Dynamics Over the Himalayan Foothill Region: Insights from Ground-Based LiDAR Observations and WRF Model	IIRS/PRL/NRSC
186	Investigation of cloud characteristics over a high-altitude region, Mt. Abu, using ground-based Lidar and satellite observations	PRL/SAC
187	Investigation of signal enhancement of aluminum emission in LIBS using gold nanoparticles in air and vacuum	PRL

188	Investigation of tensile properties and microstructure in dissimilar AA2219–AA2014 friction stir welded aluminium alloys	VSSC/IPRC
189	Investigation of vertical wind characteristics of convection over a tropical location	NARL
190	Investigation on the Effect of Laser Shock Peening on Residual Stress, Stress Corrosion Cracking Behaviour and Surface Roughness of AA2219 Friction Stir Weld	VSSC
191	Irradiation of condensed CO reveals a new pathway for the formation of aromatic molecules in astrochemical ices	PRL/VSSC
192	Isotopic Compositions and Elemental Abundances of Chromium in Presolar Silicon Carbide Grains from Asymptotic Giant Branch Stars	PRL
193	Knowledge heterogeneity in Integrated Pest Management and its impact on yield gap: An empirical study among rice farmers in Kerala, India	IIST
194	Lagrange point orbit prediction using high-fidelity orbit propagator and orbit representation in rotating reference frame	ISTRAC
195	Large eddy simulation to investigate open/close-end swirl coaxial injector dynamics for a LOx-methane rocket engine	IIST/LPSCV
196	Late Amazonian glaciation in the Acheron Fossae region of Mars	PRL
197	Linear Multiregime Thermistor Digitizer Featuring Lead-Wire and Self-Heating Compensation	VSSC/IIST
198	Longitudinal variation in the ionospheric responses to two successive geomagnetic storms in early Solar Cycle 25	VSSC
199	Low Complexity estimation of fractional delay-Doppler-Angle parameters in MIMO-OTFS ISAC system	IIST
200	Low-Rank Spectral–Spatial Super-Resolution of Hyperspectral Images Using KAN-Based GAN	IIRS
201	Machine Learning-based Identification of the Solar Disk and Plages in Kodaikanal Solar Observatory Historical Suncharts	IIST
202	Magnetic Fields in Massive Star-forming Regions (MagMaR). VI. Magnetic Field Dragging in the Filamentary High-mass Star-forming Region G35.20–0.74N Due to Gravity	PRL
203	Magnetic-field Order in the Southwestern Rim of RCW 86 Constrained Using X-Ray Polarimetry	PRL
204	Microstructural and Mechanical Characteristics of Dissimilar Electron Beam Welded Joints of AISI 304L and Monel K500	IIST/LPSCV/IPRC
205	Military Target Detection by Integrated Spectral Design and Radiative Transfer Modeling	IIST
206	Mineralogy and Chronology of Chandrayaan-3 Landing Site Using Orbital Remote Sensing Datasets	NRSC/IIRS
207	Mn-Based Single Atoms and Nanocrystal Carbon Aerogels for CO ₂ Capture and Energy Storage	VSSC
208	Modeling tiger dispersal in the central Indian landscape using a prey-predator game theory approach coupled with network analysis and remote sensing-GIS	IIRS

209	Molecular characterization, source apportionment, and health risk assessment of particulate-bound polyaromatic hydrocarbons (PAHs) and their nitro and oxy-derivatives in Agra, India	PRL
210	Molecular Insights into the Impact of Anthropogenic Precursors on SOA Formation in Remote Pristine Environments	VSSC
211	Monitoring Aquatic Vegetation Dynamics in Large Indian Wetlands Using Multi-Seasonal Sentinel-2 Observations	SAC/IIRS/IIST
212	Monitoring the Atmospheric Boundary Layer Height Using Ceilometer Lidar Over the Northeast India	PRL/NESAC
213	Monitoring the morpho dynamics of nearshore environment utilizing a cost-effective video beach monitoring system	SAC
214	Morphological characterization of impact craters in the south polar region of moon using Chandrayaan-2 Dual Frequency Synthetic Aperture Radar data	SAC
215	MRO-MCS observed cold spots during the Martian year 34 global dust storm	PRL
216	Multi-class oversampling approach using deep generative adversarial network (MO-DGAN) for remote sensing imagery	NRSC
217	Multi-model ensemble improves evapotranspiration estimation over India	SAC
218	Multispectral and Hyperspectral Compressor (MHyC) 2.0: An Integrated Architecture of a Simple Lossless Algorithm	IIST
219	Multivariate geospatial data integration and machine learning for landslide susceptibility mapping in the basaltic terrain of Savitri River Basin, Western Ghat, India	NRSC
220	Nighttime light data as a proxy for assessing air pollution in urban landscapes of India: A remote sensing perspective	NRSC
221	NLTE Based Inversions of Ca ii 8542 Å Spectra: Temperature Stratification in Active Region NOAA 12765	PRL
222	Numerical analysis of rip currents at RK Beach, Visakhapatnam, India using XBeach model	SAC
223	Numerical Modeling of Thermal Link for Optical Cooler	SAC
224	Numerical study of channel orientation effects on boiling heat transfer associated with single-bubble behavior in rectangular mini-channel	SAC
225	Numerical study of the atomization performance of coaxial and porous injectors in rocket engine applications	IPRC
226	On the Estimation of Sulfuric Acid Vapor Concentrations below the Venus Cloud Deck Using the Akatsuki Radio Science Experiment	VSSC
227	Optimising sampling strategies for AI-based landslide susceptibility mapping: a case study of Idukki, Kerala	NRSC
228	Optimization of Hot Workability and Microstructural Control in Direct Chill Cast and Homogenized Aluminum-Copper Alloy AA2219	IIST/LPSCV

229	Optimizing GEDI Footprint Selection for Forest Canopy Height Estimation in the Western Himalaya Using Multi-sensor Data	IIRS
230	Optimizing Harvested Paddy Field Classification: Leveraging Combined Local Convolution and Individual Sample as Mean Training Approach	IIRS
231	Orbital angular momentum (OAM) beam induced N ₂ filamentation	PRL
232	Partially flavour non-universal U(1) and radiative fermion masses	PRL
233	Particle Acceleration and Depolarization in the Protostellar Jet Knots HH 80 and HH 81	IIST
234	Passive polarization-encoded BB84 protocol using a heralded single-photon source	PRL
235	Performance Evaluation of Metric and Parametric Models through Rainfall-Runoff Modelling of Sub-Himalayan Catchment	IIRS
236	Persistent signatures of meteorological parameters and variation along topographic setup of NWH region	IIRS
237	Photometric and spectroscopic monitoring of the outbursting Halley-type comet 12P/Pons-Brooks	PRL
238	Picophytoplankton Distribution and Their Contribution to Particulate Organic Carbon in the Northern Indian Ocean	PRL
239	Plume–Plume and Plume–Surface Interactions of Micronozzle Clusters in Vacuum	IIST
240	Polarimeter to Unify the Corona and Heliosphere (PUNCH)	IIST
241	Polarizability of a Wigner crystal	PRL
242	Post-Midnight Enhancement in OI 630.0 nm Airglow Emission and Plausible Link to Wave Dynamics	PRL
243	Potential correlation between the 2015 Nepal seismic events and heat wave occurrence in southern India	IIRS
244	Power efficient and area optimized advanced encryption standard-based cipher for improved cyber security	ISRO HQ
245	Pre-bomb marine reservoir corrections for the southeastern Arabian Sea	PRL
246	Precious metal enrichment during impacts on the Moon	PRL
247	Predicting thermoacoustic combustion instability and lean blowout in turbulent combustors using recurrence quantification analysis	IPRC
248	Prioritisation of critical operational factors and designing a decision-making model for attaining supply chain resilience through digitalisation	IIST
249	Probabilistic risk assessment of a liquid rocket engine	LPSCV
250	Probing the accretion geometry of black hole X-ray binaries: a multimission spectro-polarimetric and timing study	URSC
251	Protein nano-bioactives against microgravity-induced endothelial dysfunction	HSFC

252	Pyritization may archive the influence of Sulfate-AOM and bioturbation activities in marine sulfidic shelf sediments	PRL
253	Quantitative estimates of vertical structure of radiative heating rates for different cloud types during Indian summer monsoon	NRSC
254	Quantum annealing for remote sensing data processing: A review of optimization based applications	SAC
255	Quantum convolutional neural network-based hybrid network for remote sensing image classification	NRSC
256	Quiet Time Enhancements and Decrements in the Day-to-Day TEC Variations Over the Indian Equatorial and Low Latitudes	PRL
257	Radar based nowcasting using TERLS C band radar	SAC
258	Radiative transfer modeling of the low-mass proto-binary system, IRAS 4A1 and 4A2	PRL
259	Ranging beyond synthetic wavelengths with an undersampled spectral signal using tunable wavelength laser interferometry	IIST
260	Realization of Land Geophysical Products (Short-Wave Broad Band Albedo, Visible Albedo, Inland Water Bodies and Vegetation Indices) from EOS-06 Ocean Color Monitor3 Sensor	NRSC
261	RECREATE: Supervised contrastive learning and inpainting based hyperspectral image denoising	SAC
262	Reevaluating the impact origin of the Luna Structure in western India using mineralogy, highly siderophile elements, and Re-Os isotopes	PRL
263	Refining offshore wind energy potential estimates through the integration of technological evolution and climate change projections	SAC
264	Region-specific design of trapezoidal membership functions for fuzzy hydrometeor classification: a statistical approach using pHV-stratified ZH ₂ , ZDR and KDP from C-band DWR data	NESAC
265	Response of radiative and meteorological parameters to two solar eclipses occurred at different times of the day	NARL/IIST
266	Retrieval of aerosol optical depth from INSAT-3DR for accurate geostationary monitoring of regional and temporal aerosol dynamics	VSSC
267	Retrieval of precipitable water vapor from sun–sky radiometer (POM-01) at 940 nm absorption band: Calibration, measurement and validation	PRL
268	Role of Arabian Sea warm pool and atmospheric instability in triggering a monsoonal MCC over Peninsular India	NARL
269	Scalar-induced neutrinoless double beta decay in SU(5)	PRL
270	Seasonal Vertical Distribution of Neutral and Ionic Species in the Upper Martian Atmosphere During MY 33 and MY 34	IIRS
271	Secondary organic aerosol formation in the arctic (Ny-Ålesund) atmosphere during summer: inferences from water-soluble dicarboxylic acids and related compounds	VSSC

272	Sedimentary records of palaeohydrological variability during the Late Holocene in the Lower Narmada Basin, western India	PRL
273	Sensitivity of aerosol models in satellite-based AOD retrieval: a quantitative analysis using Oceansat-3/OCM-3 multi-spectral measurements	SPL
274	Shoreline dynamics and beach topography analysis using video beach monitoring and CoastSnap tools at a blue flag beach on India's east coast	SAC
275	Signature of intraseasonal oscillations during Hunga Tonga volcanic eruption	PRL
276	Simulations of Sun-Induced Fluorescence in Wheat Under Water and Nitrogen Levels Using SCOPE Radiative Transfer Model	NARL
277	Smart Visual Fluorescence Sensing of Tetracycline Using N-Doped Nb ₂ C Quantum Dots and CNN-Based Regression Quantification	IIST
278	SN 2024aecx: A Fast-evolving Type IIb Supernova with a Prominent Shock-cooling Peak	PRL
279	Soil Organic Carbon Mineralization in Tropical Grasslands: Role of Perennial Grass Species and Rhizodeposition	PRL
280	Soil respiration dynamics: understanding and predicting soil CO ₂ flux of dry deciduous forest ecosystem in India using Q ₁₀ models and random forest	NRSC
281	Source apportionment and health risk assessment of PM ₁₀ -bound organic aerosols in urban South Korea: Insights from n-alkanes, PAHs, hopanes, and steranes	VSSC
282	Spatially resolved polarization swings in the supermassive binary black hole candidate OJ 287 with first Event Horizon Telescope observations	PRL
283	Spatiotemporal assessment of maize evapotranspiration and surface energy fluxes under varying irrigation regimes using UAV based METRIC	NRSC
284	Spectroscopic evaluation of clay-assisted extraction of rare earth elements from alkali-roasted and acid-leached Amba Dongar carbonatite: an integrated geochemical and mineralogical approach	PRL
285	Stacked ensemble model for flood layer extraction using EOS-04 satellite in Fine Resolution Stripmap (FRS) mode	NRSC
286	Stacked snake cross transformer-based capsule AlexNet: Transformer-capsule hybrid for accurate brain tumor detection in magnetic resonance imaging	IPRC
287	Starting transient spray characteristics of a twin-fluid internal-mixing ramp injector: Annular flow	IIST/VSSC
288	Statistical shell model for neutrinoless double β -decay nuclear transition matrix elements: Results for ⁷⁶ Ge, ⁸² Se, ¹⁰⁰ Mo, ¹²⁴ Sn, ¹³⁰ Te and ¹³⁶ Xe	PRL
289	Steady states in a model of opposing local and nonlocal hops	IIST
290	Structure of the Western Pacific Walker Cell, its splitting, genesis and annual cycle: new insights from over a decade of CloudSat and CALIPSO observations	VSSC

291	Structure–defect–luminescence correlation in Cr ³⁺ -doped Zn ₂ TiO ₄	PRL
292	Study of Transfer Learning Approach in Fuzzy MPCM Model for Fennel Crop Mapping	IIRS
293	Subsurface Micro-Environments Around a Municipality Solid Waste Disposal Site of Northern India – Oxic-suboxic Transitions, Groundwater-Aquifer Processes and Trace Metal Behaviour	PRL
294	Subsurface mixing and ventilation of oxygen minimum zone waters in the southern Bay of Bengal during summer monsoon	NRSC
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