

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-2
March-April 2026**

**Library and Information Resource Division
ISRO Headquarters**

ISRO RESEARCH HIGHLIGHTS

MARCH – APRIL 2026

EXECUTIVE SUMMARY

SOURCES OF DATA: Scopus and Web of Science Databases

349 Total Articles	209 Unique Journals	18 Centres/Units	11.86 Avg. Authors/Article	121 Gold & Hybrid OA Articles	95 Intl. Collab. Countries
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KEY FINDINGS

- Astronomy & Astrophysics leads with 64 articles (18.3%), a major shift from Issue 1 where Atmospheric Sci. dominated. Materials Sci. ranks 2nd (40, 11.5%).
- PRL leads with 105 articles (27.42%); IIST (63, 16.45%), VSSC (48, 12.53%), SAC (45, 11.75%), NRSC (32, 8.36%). 18 centres active; 3 new centres vs Issue 1.
- Experimental/Lab Work is the top theme (130, 37.25%). Modelling & Simulation fell sharply from 59.9% (Issue 1) to 12.32%, displaced by astrophysics & materials output.
- AI/ML Methods applied in 34 articles (9.74%) - CNNs, LSTMs, random forests - fastest-growing theme across 7 domains. Up from est. 8.5% in Issue 1.
- Mega-consortia inflate avg. to 11.86 authors/article; 9 articles with 50+ authors; 2 exceed 1,300 co-authors (DUNE/PRL). Effective avg. excl. outliers ~6.2.
- International collaboration in 95 articles (27.22%). PRL highest at 57.14%; 95 partner countries vs 47 in Issue 1. USA (50), China (25), UK (24) top 3.
- 33 articles (9.45%) claim novelty - 'novel' (12), 'for the first time' (6), 'unprecedented' (2), 'breakthrough' (1). Down from 17.02% in Issue 1.
- Open access: 121/349 (34.67%) openly accessible - up from 25.84% in Issue 1. AAS journals: 100% OA; Elsevier: 19.3%; Springer Nature: 36.3%.
- 209 unique journals across 14 subject domains; 155 (74.2%) contribute only 1 article - exceptional breadth & interdisciplinary reach. 44 publisher groups.
- Novelty claims: 33 articles (9.45%). Mission coverage: 25 articles (7.16%) across 9 platforms. 1,513 keyword instances across 1,383 unique terms.

RESEARCH DOMAINS

Research Domain	No.	%
Astronomy & Astrophysics	64	18.3%
Materials Science & Engineering	40	11.5%
Physics & Applied Mathematics	37	10.6%
Remote Sensing & Earth Observation	33	9.5%
Earth Sciences & Geosciences	31	8.9%

TOP PUBLISHING CENTRES

Top ISRO Centres	No.
PRL	105
IIST	63
VSSC	48
SAC	45
NRSC	32
URSC	17
IIRS	27
Others	69

AUTHOR KEYWORDS

Keyword	No.
remote sensing	9
deep learning	8
machine learning	8
India	6
Moon	6
astrochemistry	5
Bay of Bengal	4
climate change	4

OPEN ACCESS BREAKDOWN

OA Type	No.
Closed / Paywalled	228
Gold Open Access	95
Hybrid Gold OA	17
Green OA (only)	7
Bronze OA	2

AUTHORSHIP

Authorship	Articles
Single author (1)	8
2 authors	37
3-4 authors	117
5-9 authors	137
>=10 authors	30

CROSS-CUTTING THEMES

Cross-Cutting Theme	No.	%
Experimental / Lab Work	130	37.25%
Indian Subcontinent Focus	110	31.52%
Validation / Ground Truth	66	18.91%
Satellite / RS Data Used	62	17.77%
Operational / App. Focus	47	13.47%
Modelling / Simulation	43	12.32%
Novel / First-of-Kind Claims	37	10.60%
AI / ML Methods Applied	34	9.74%
Mission-Linked (ISRO)	25	7.16%
Climate Change Focus	21	6.02%
Intl. Datasets (ERA5, GPM...)	12	3.44%

PUBLISHER LANDSCAPE

Publisher Group	No.
Elsevier (all imprints)	83
Springer Nature (all imprints)	80
Wiley	33
American Astronomical Society	24
Taylor & Francis	15
IEEE / AIP Publishing	22
Oxford University Press	12
All others	73

AUTHORS

Author	No.
Anil Bhardwaj / PRL	7
Suresh Babu, S. / SPL/VSSC	6
Sanjeev Kumar / PRL	6
Murty, S. V. S. N. / LPSC	6
Dipen Sahu / PRL	6
Dibyendu Chakrabarty / PRL	5
Lokesh Kumar Dewangan / PRL	5

MISSION COVERAGE

Mission / Platform	No.
Chandrayaan-2 & -3	8
Oceansat / OCM-3	5
Aditya-L1 / ASPEX	3
INSAT / GISAT	3
EOS-04 / 06 / 08	3
Resourcesat / Cartosat	2
AstroSat	1
NavIC / IRNSS	1

1. Data Collection

349 Total Articles	209 Unique Journals	18 Centres / Units	15.63 Avg. Authors / Article	112 Gold & Hybrid OA Articles	349 Articles with DOI	95 Intl. Collab. countries
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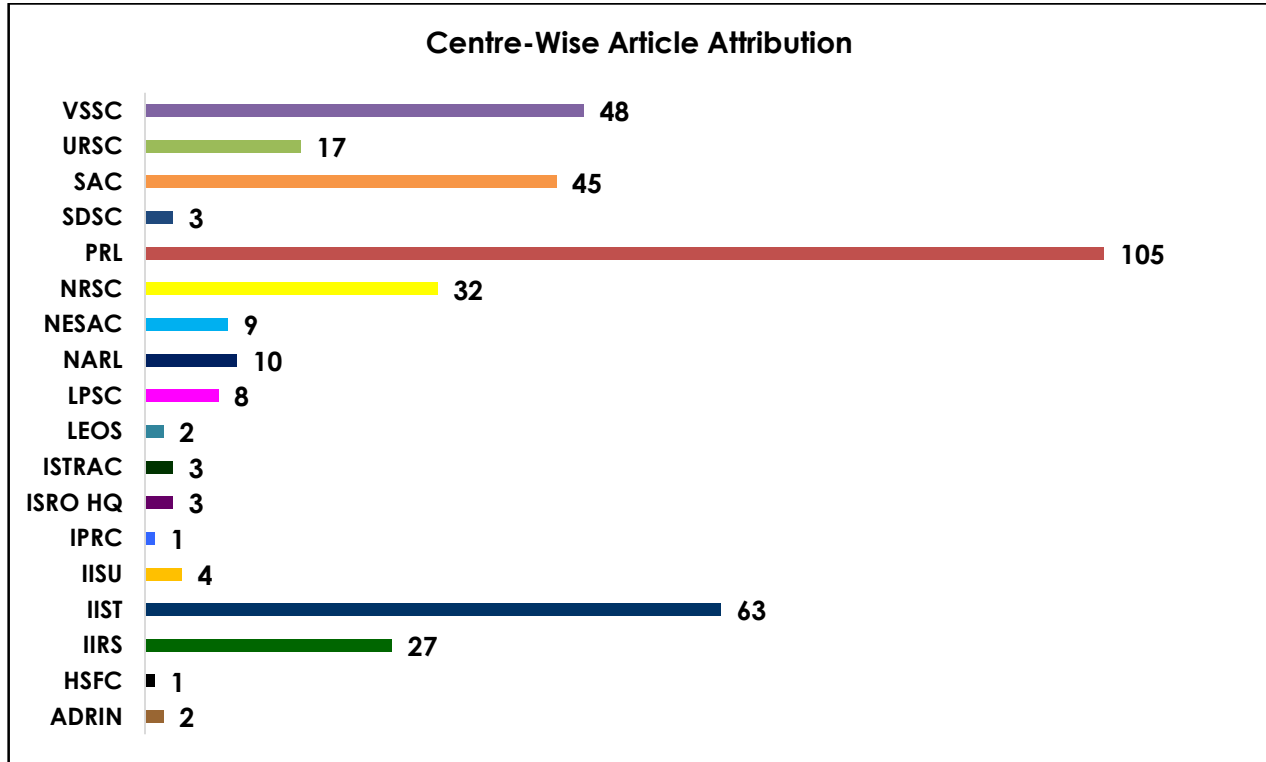
The dataset comprises 349 journal articles published as article, letter, note and review by DOS/ISRO-affiliated researchers during **March–April 2026**. The data is extracted from **Scopus and Web of Science databases** on 15th May 2026 for the journal articles indexed in these two databases during the period **6th March 2026 to 15th May 2026**.

2. ISRO Affiliation Analysis

	Centre / Unit	Articles Jan-Feb 329	Articles Mar-Apr 349	% of 349
1	Advanced Data Processing Research Institute	-	2	0.52
2	Human Space Flight Centre	1	1	0.26
3	Indian Institute of Remote Sensing	32	27	7.05
4	Indian Institute of Space Science and Technology	68	63	16.45
5	ISRO Inertial Systems Unit	3	4	1.04
6	ISRO Propulsion Complex	5	1	0.26
7	ISRO Headquarters	5	3	0.78
8	ISRO Telemetry Tracking and Command Network	3	3	0.78
9	Laboratory for Electro-Optical Systems	-	2	0.52
10	Liquid Propulsion Systems Centre	11	8	2.09
11	Master Control Facility	1	-	-
12	National Atmospheric Research Laboratory	17	10	2.61
13	North Eastern Space Applications Centre	10	9	2.35
14	National Remote Sensing Centre (including RRSCs)	30	32	8.36
15	Physical Research Laboratory	88	105	27.42
16	Satish Dhawan Space Centre	-	3	0.78
17	Space Applications Centre	45	45	11.75
18	U R Rao Satellite Centre	9	17	4.44
19	Vikram Sarabhai Space Centre (including SPL)	40	48	12.53
	TOTAL ATTRIBUTIONS	367	383	

A total of 383 attributions are recorded across 18 DOS/ISRO Centres/Units for 349 articles, giving an average of 1.10 attributions per article, with 27 articles having two Centres, 2 articles having three Centres and one article having four Centres. PRL contributed 105 articles (27.42%),

followed by IIST (63, 16.45%), VSSC (48, 12.53%), SAC (45, 11.75%), and NRSC (32, 8.36%). Together these five Centres account for 76.2% of all attributions. Three Centres, ADRIN (2 articles), LEOS (2 articles), and SDSC (3 articles) also contributed during March-April 2026 reflecting broader institutional participation. HSFC, IPRC, and IISU contributed 1 article each.

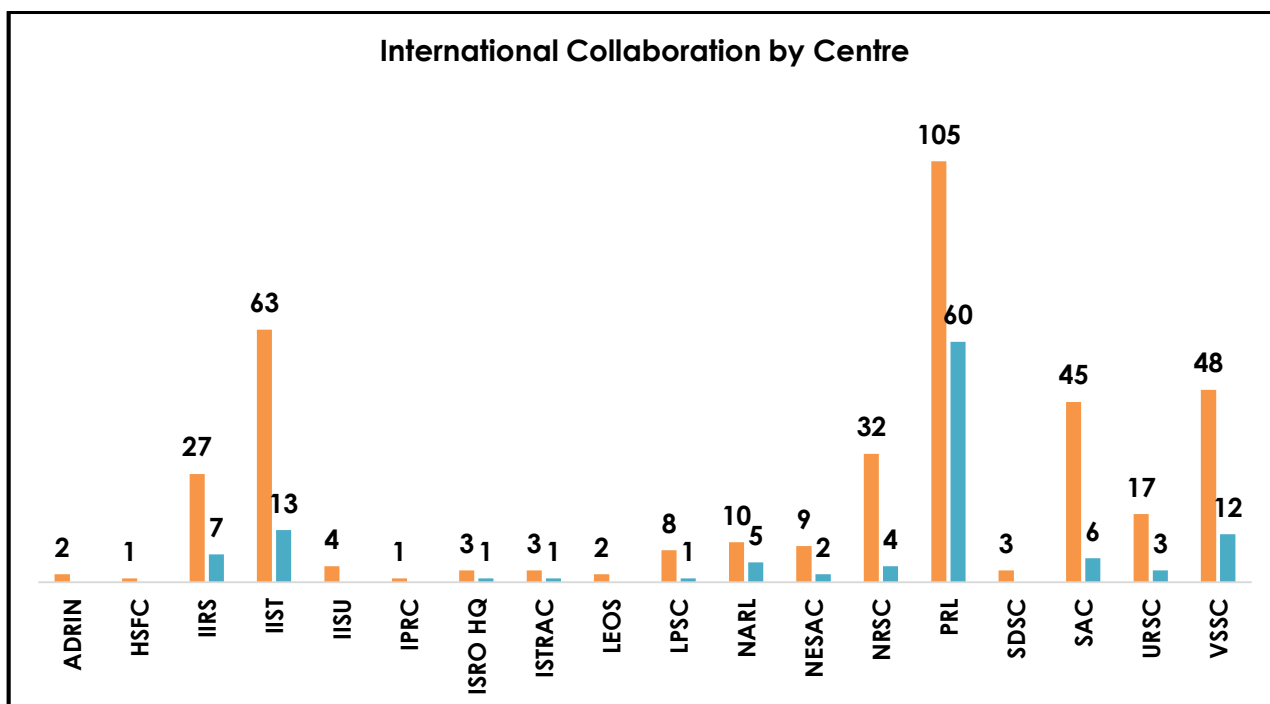


3. International Collaboration – Articles Count

	Centre / Unit	Total Articles	Intl. Collab.	% of Total Articles
1	Advanced Data Processing Research Institute	2	-	-
2	Human Space Flight Centre	1	-	-
3	Indian Institute of Remote Sensing	27	7	
4	Indian Institute of Space Science and Technology	63	13	20.63
5	ISRO Inertial Systems Unit	4	-	-
6	ISRO Propulsion Complex	1	-	-
7	ISRO Headquarters	3	1	33.33
8	ISRO Telemetry Tracking and Command Network	3	1	33.33
9	Laboratory for Electro-Optical Systems	2	-	-
10	Liquid Propulsion Systems Centre	8	1	12.50
11	National Atmospheric Research Laboratory	10	5	50.00
12	North Eastern Space Applications Centre	9	2	22.22
13	National Remote Sensing Centre (including RRSCs)	32	4	12.50
14	Physical Research Laboratory	105	60	57.14

	Centre / Unit	Total Articles	Intl. Collab.	% of Total Articles
15	Satish Dhawan Space Centre	3	-	-
16	Space Applications Centre	45	6	13.33
17	U R Rao Satellite Centre	17	3	17.65
18	Vikram Sarabhai Space Centre (including SPL)	48	12	25.00
	TOTAL ATTRIBUTIONS	383	95	24.80

Of the 349 articles, 95 unique articles (27.22%) involve at least one international co-author - a meaningful increase from Jan-Feb 2026 (86 articles, 26.14%) in absolute terms, with geographic breadth doubling from 47 to 95 countries. PRL records the highest absolute count of internationally co-authored articles (60 articles), representing 57.14% of its total output, followed by NARL at 50.00% (5 of 10 articles) and VSSC at 25.00% (12 of 48). IIST has a comparatively modest international collaboration rate of 20.63% (13 of 63 articles), consistent with its engineering curriculum focus. Six Centres - ADRIN, HSFC, IISU, IPRC, LEOS, and SDSC - show no international collaboration in this period.



4. International Collaboration – Partner Countries

Collaboration is identified with 95 countries - a significant expansion from 47 countries in Jan-Feb 2026. The United States leads at 50 co-occurring articles, followed by China (25), United Kingdom (24), Japan (23), Italy (21), Germany (20), South Korea (17), Spain (15), France (14), and Canada (10). The notable rise of China to 2nd place (vs lower ranking in Jan-Feb 2026) and the strong showing of South Korea (7th) and Japan (4th) signals growing Indo-Pacific scientific partnerships. Latin American partners - Mexico, Chile, Argentina - appear in the top-30, a new trend absent from during Jan-Feb 2026. The USA's lead is driven largely by large astrophysics consortium articles where PRL researchers collaborate alongside US-based teams from Caltech, JPL, MIT, and NRAO.

Country	No. of Articles
United States	50
China	25
United Kingdom	24
Japan	23
Italy	21
Germany	20
South Korea	17
Spain	15
France	14
Canada	10

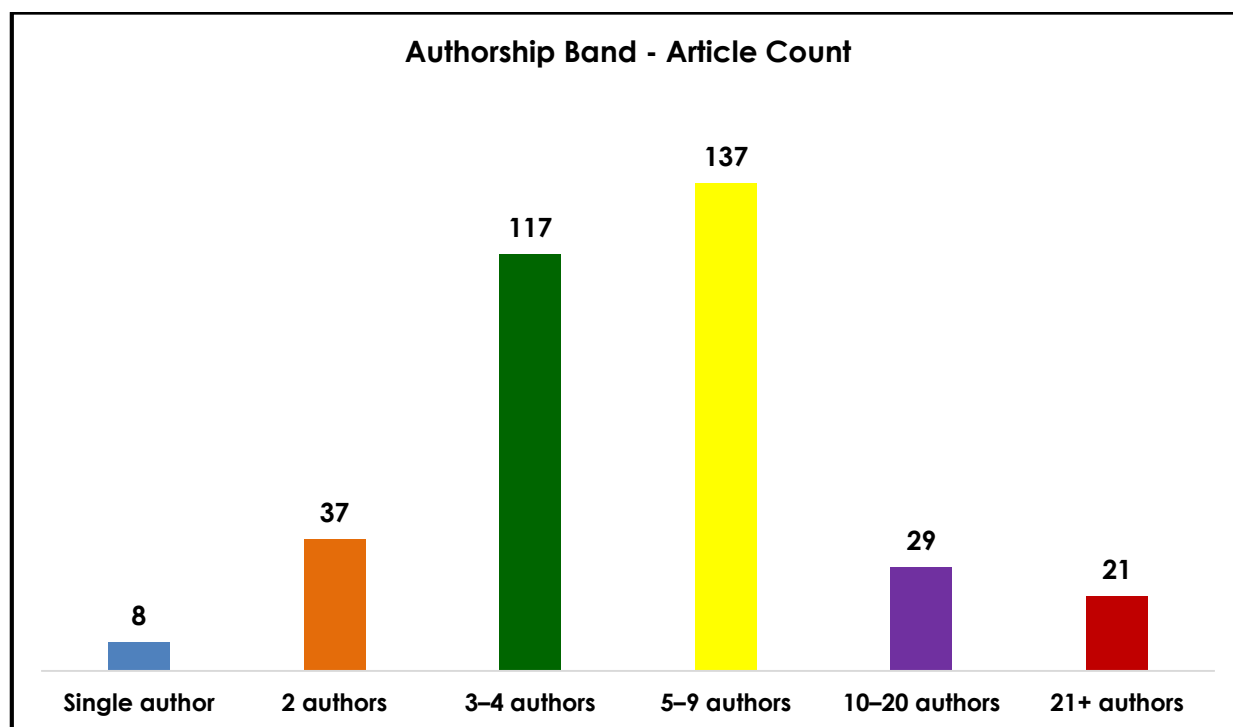


5. Author & Authorship Analysis - Distribution

Authorship	Articles	% of Total
Single author (1)	8	2.29
2 authors	37	10.60
3–4 authors	117	33.52
5–9 authors	137	39.26
10–20 authors	29	8.31
21+ authors	21	6.02
TOTAL	349	100.0%

The 349 articles carry a total of 5,455 author-name instances, yielding an average of 15.63 authors per article - sharply higher than Jan-Feb 2026, 6.96 average. This inflation is driven by 9 mega-consortium articles (50+ authors), including six articles with ≥ 100 co-authors and two with more than 1,300 co-authors from the ProtoDUNE-SP global physics collaboration. Excluding these 9 outlier articles, the effective average drops to approximately 6.2 authors per article. The dominant authorship band is 5–9 authors (137 articles, 39.26%), followed by 3–4

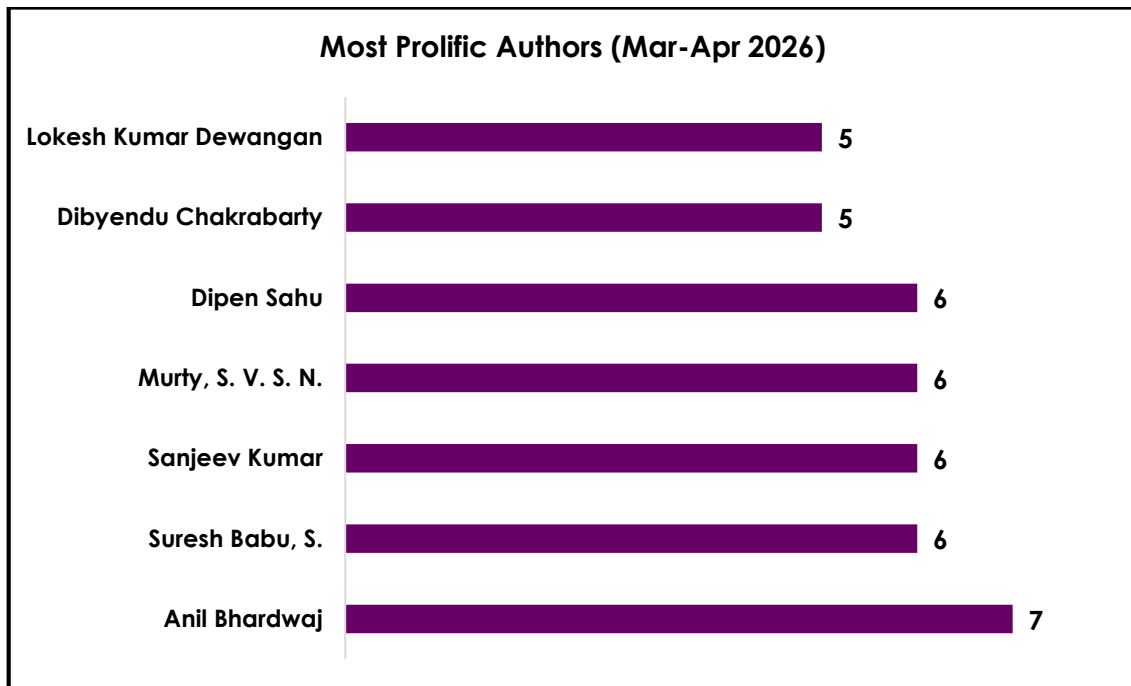
authors (117 articles, 33.52%). Single-author articles remain rare at 8 (2.29%). The 21+ band (21 articles, 6.02%) is led by physics and astrophysics consortium papers.



6. Author & Authorship Analysis – Most Articles

Author Name		No. of Articles
01	Anil Bhardwaj / Physical Research Laboratory	7
02	Suresh Babu, S. / Space Physics Laboratory, VSSC	6
03	Sanjeev Kumar / Physical Research Laboratory	6
04	Murty, S. V. S. N. / Liquid Propulsion Systems Centre	6
05	Dipen Sahu / Physical Research Laboratory	6
06	Dibyendu Chakrabarty / Physical Research Laboratory	5
07	Lokesh Kumar Dewangan / Physical Research Laboratory	5

Among 349 articles, seven authors each appear in 5 or more articles. Anil Bhardwaj (PRL) leads with 7 articles spanning X-ray polarimetry, planetary science, and solar wind research. Four authors are tied at 6 articles each: Suresh Babu, S. (VSSC/SPL); Sanjeev Kumar (PRL); Murty, S.V.S.N. (LPSC); and Dipen Sahu (PRL). Dibyendu Chakrabarty and Lokesh Kumar Dewangan each appear in 5 articles. The maximum of 7 articles is significantly lower than Jan-Feb 2026's top contributor (Chauhan, Prakash at 10 articles), suggesting more even distribution of output across ISRO's research community in this period.



7. Journal Landscape

209 Unique Journals	155 Journals with only 1 article	35 Journals with 2 articles	19 Journals with 3+ articles	44 Publishers
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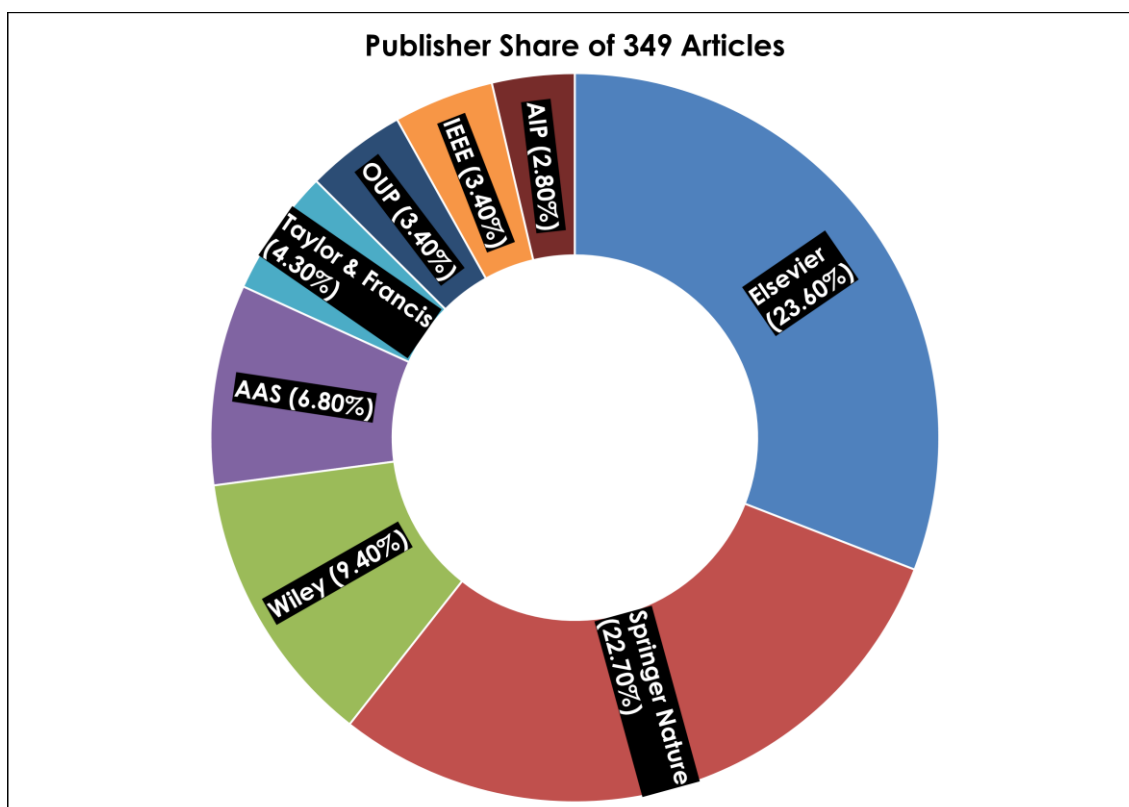
Journal Title	Publisher	Articles	% of Total
Astrophysical Journal	American Astronomical Society	23	6.6%
Journal of the Indian Society of Remote Sensing	Springer Nature	19	5.4%
Advances in Space Research	Elsevier	12	3.4%
Monthly Notices of the Royal Astronomical Society	Oxford University Press	11	3.2%
Journal of Geophysical Research: Space Physics	Wiley	9	2.6%
Journal of Earth System Science	Springer Nature	6	1.7%
Life Sciences In Space Research	Elsevier	6	1.7%

Of 209 unique journals, only 19 (9.1%) carry 3 or more articles - confirming high bibliographic diversity. The Astrophysical Journal leads at 23 articles (6.6% of 349), a rise driven by PRL's astrophysics program. Journal of the Indian Society of Remote Sensing ranks second at 19 articles (5.4%), reflecting NRSC and SAC output. Advances in Space Research (12 articles, 3.4%) and Monthly Notices of the Royal Astronomical Society (11 articles, 3.2%) rank third and fourth respectively. The top 10 journals account for approximately 102 articles (29.2%). Notably, 155 journals carry exactly 1 article (74.2% of all unique journals), confirming exceptionally broad interdisciplinary reach across ISRO's research output.

8. Publisher Analysis

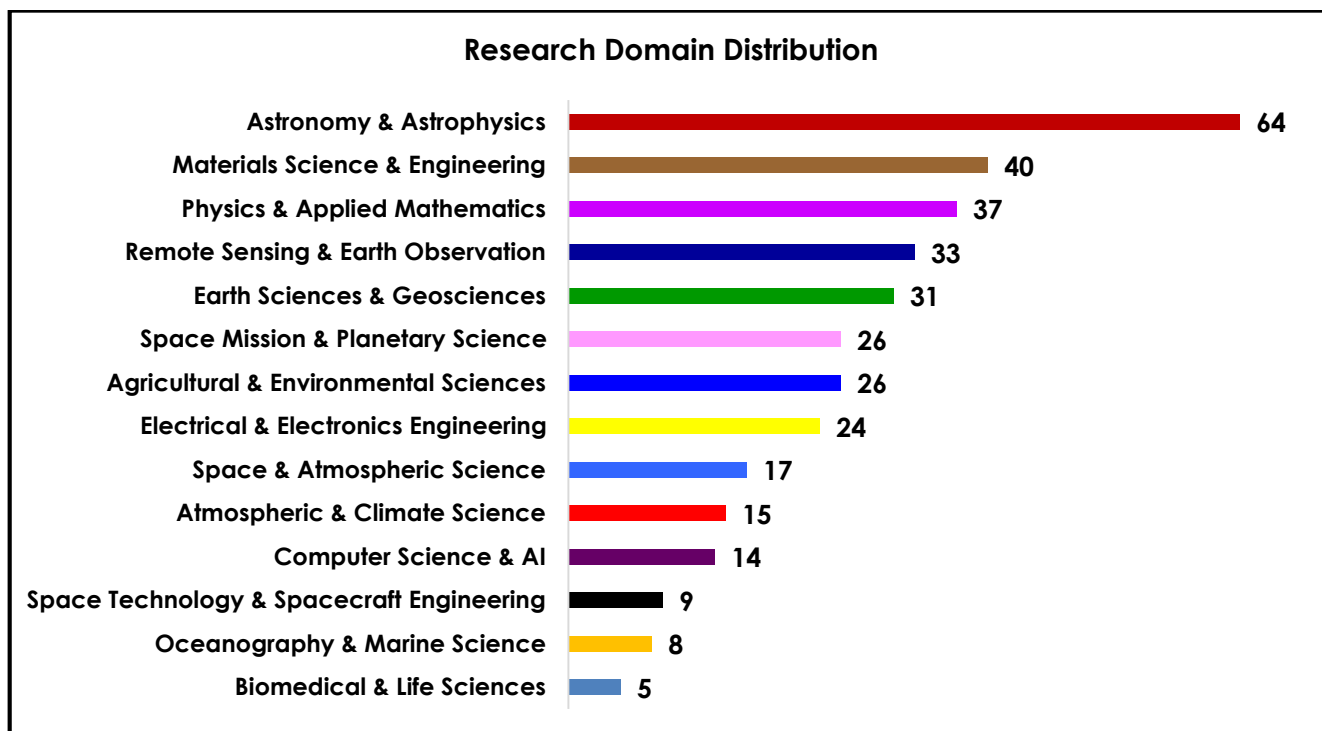
Publisher (All Imprints)	Articles	% of Total 349	Unique Journals
Elsevier	83	23.6%	53
Springer Nature	80	22.7%	41
Wiley	33	9.4%	23
American Astronomical Society	24	6.8%	4
Taylor & Francis	15	4.3%	13
IEEE	12	3.4%	9
Oxford University Press	12	3.4%	2
AIP Publishing	10	2.8%	7

44 unique publisher groups are represented across 349 articles. Elsevier (83 articles, 23.6%) and Springer Nature (80 articles, 22.7%) together hold 46.3% of the corpus. Wiley ranks third (33 articles, 9.4%), followed by the American Astronomical Society (24 articles, 6.8%) - a new top-tier entry driven by PRL's astrophysics output through the Astrophysical Journal family. Taylor & Francis (15 articles, 4.3%), IEEE (12 articles, 3.4%), and Oxford University Press (12 articles, 3.4%) round out the top-7. Publishers with 100% OA rates in this corpus include the American Astronomical Society, EDP Sciences, MDPI, Frontiers Media, and AAAS. Of the 44 publishers, 18 carry only 1 article each, confirming broad publisher diversity. Elsevier's OA rate in this corpus is approximately 19.3% (16/83 articles), the lowest among major publishers.



9. Research Domain Distribution

Articles are classified into 14 subject domains based on journal scope and keyword analysis; a single article may span multiple domains. Astronomy & Astrophysics leads at 64 articles (18.3%), a major shift from Jan-Feb 2026, where Atmospheric Science topped the list. Materials Science & Engineering ranks second (40 articles, 11.5%), driven by IIST, VSSC, and LPSC output in composites, polymers, and ceramics. Physics & Applied Mathematics (37 articles, 10.6%) and Remote Sensing & Earth Observation (33 articles, 9.5%) rank third and fourth. Space Mission & Planetary Science (26 articles, 7.4%) and Agricultural & Environmental Sciences (26 articles, 7.4%) are tied in fifth. Biomedical & Life Sciences (5 articles, 1.4%) appears as a new domain, reflecting ISRO's small but growing engagement in space life sciences.



Subject Domain	No. of Journals	Total Articles	Dominant Journal & No. of Articles
Astronomy & Astrophysics	18	64	Astrophysical Journal with 23 articles
Materials Science & Engineering	34	40	Ceramics International with 3 articles
Physics & Applied Mathematics	25	37	Scientific Reports with 4 articles
Remote Sensing & Earth Observation	10	33	Journal of the Indian Society of Remote Sensing with 19 articles
Earth Sciences & Geosciences	23	31	Journal of Earth System Science with 6 articles
Agricultural & Environmental Sciences	23	26	Environment, Development and Sustainability with 2 articles
Space Mission & Planetary Science	7	26	Advances in Space Research with 12 articles
Electrical & Electronics Engineering	18	24	IEEE Access with 3 articles
Space & Atmospheric Science	6	17	Journal of Geophysical Research: Space Physics with 9 articles
Atmospheric & Climate Science	12	15	Atmospheric Pollution Research with 2 articles
Computer Science & AI	14	14	Applied Numerical Mathematics with 1 article

Space Technology & Spacecraft Engineering	8	9	Combustion Science & Technology with 2 articles
Oceanography & Marine Science	6	8	Journal of Hydrology with 2 articles
Biomedical & Life Sciences	5	5	Frontiers in Public Health with 1 article
GRAND TOTAL	209	349	

10. Cross-Cutting Research Themes

Cross-cutting themes are identified by word-boundary pattern-matching across titles and abstracts of all 349 articles; a single article may satisfy multiple themes, so aggregate counts exceed 349. Experimental/Lab Work dominates at 130 articles (37.25%), spanning materials synthesis, electrochemical testing, antenna fabrication, and atmospheric measurements across IIST, VSSC, LPSC, NARL, and SPL. Indian Subcontinent Focus follows at 110 articles (31.52%), covering monsoon dynamics, glacial retreat, crop mapping, and coastal oceanography. Together they cover ~69% of the corpus. Validation/Ground Truth (66, 18.91%), Satellite/RS Data (62, 17.77%), and Operational/Application Focus (47, 13.47%) round out the top five. Modelling & Simulation fell sharply from 59.9% (Issue 1) to 12.32%, displaced by astrophysics and materials-lab output. AI/ML Methods (34, 9.74%) is the fastest-growing theme across seven domains. Mission-Linked articles are corrected to 25 (7.16%), led by Chandrayaan-2/3 (10), Oceansat/OCM (5), and Aditya-L1/ASPEX (3).

Theme	Articles	% of 349	Significance
Experimental / Lab Work	130	37.25	Materials characterisation, propulsion, sensor fabrication, lab & field measurements
Indian Subcontinent Focus	110	31.52	Research conducted over or specifically targeting India, Indian regions, or South Asia
Validation / Ground Truth	66	18.91	High emphasis on observational validation, in-situ, benchmark comparison
Satellite / Remote Sensing Data	62	17.77	Sentinel, MODIS, Landsat, IRS, ECOSTRESS, Chandrayaan, Oceansat used as input
Operational / Application Focus	47	13.47	Decision-support, real-time, early warning, operational systems, societal applications
Modelling & Simulation	43	12.32	Numerical models, CFD, climate/weather/hydrological simulations, radiative transfer
Novel / First-of-Kind Claims	37	10.60	Novelty language: 'novel', 'first time', 'new approach', 'first report'
AI / ML Methods Applied	34	9.74	Deep learning, neural networks, random forest, support vector machine prominent
Mission-Linked (ISRO)	25	7.16	Direct reference to INSAT, Cartosat, Chandrayaan, Aditya-L1, AstroSat, ISRO missions
Climate Change Focus	21	6.02	Explicit GHG framing, global warming, carbon footprint, net-zero, IPCC references
Interdisciplinary / Multi-sensor Fusion	18	5.16	Combining data from multiple sensors, disciplines, or methodologies

Space Mission / Experimental	16	4.58	In-orbit, onboard, spaceborne instrument, flight experiment context
International Datasets Used	12	3.44	ERA5, GRACE, CHIRPS, GPM, TRMM, Copernicus, CMIP6 global reanalysis datasets
Review / Meta-analysis	10	2.87	Systematic review, comprehensive review, multi-study synthesis, survey paper
<i>Note: Themes are not mutually exclusive - a single article may satisfy multiple themes simultaneously.</i>			

11. Novelty & First-of-Kind Claims

Pattern matching across titles and abstracts of 349 articles identifies 33 unique articles (9.45%) making explicit novelty or priority claims. The term 'novel' appears most frequently (12 occurrences), most commonly in materials science, deep learning, and antenna design articles. 'For the first time' (6 occurrences) represents the strongest temporal priority claims, primarily from observational astrophysics and experimental lab studies. 'Innovative' (4) and 'we propose' (4) are next in frequency. 'Unprecedented' (2) and 'first-ever' (1) signal the highest-impact novelty claims.

Novelty Term Used	Occurrences	Where it appears
'novel' (standalone adjective)	12	Most common; appears in materials, engineering, ML, and physics articles
'for the first time'	6	Explicit temporal priority claim; across observational & experimental studies
'innovative' (approach/method)	4	Applied/engineering context; sensor design, remote sensing, applications
'we propose' (explicit contribution)	4	Explicit authorial contribution framing; theoretical and applied studies
'unprecedented'	2	Strong novelty claim; used in observational and geophysical studies
'we introduce'	2	New concept/framework introduction; modelling and instrumentation
'we develop'	2	Development-oriented claim; algorithms, models, sensors
'state-of-the-art' (benchmarked)	2	Performance benchmarking claim; AI/ML and computational articles
'we present a novel/new'	2	Explicit authorial contribution statement; dataset, method & sensor papers
'newly' (new method / approach)	1	Less formal but implies priority; method/dataset development context
'first-ever'	1	Superlative priority claim; experimental & astrophysics articles
'new method'	1	Methodological novelty; algorithms, computational & signal processing
'new scheme'	1	Novel numerical / algorithmic scheme; computational science context
'breakthrough'	1	Highest-impact novelty claim; rare, used in materials science
TOTAL (unique articles)	33	9.45% of 349 articles

12. Open Access Status

Of 349 articles, 121 (34.67%) are openly accessible in some form - a notable improvement over Jan-Feb 2026's implied OA rate of approximately 25.8%. Gold OA leads at 95 articles (27.0%), indicating direct payment for immediate open availability in the journal of record. Hybrid OA accounts for 17 articles (4.8%), Green OA for 7 (2.0%), and Bronze OA for 2 (0.6%). The remaining 228 articles (65.33%) remain behind paywalls. Publishers with 100% OA rates in this corpus include the American Astronomical Society (24 articles), EDP Sciences (6 articles), and Frontiers Media (3 articles). Elsevier's OA rate in this corpus is low at approximately 19.3%, while Springer Nature achieves around 36.3% OA (29/80 articles). **An ISRO institutional OA mandate or APC fund would significantly improve discoverability of the 65.33% articles currently behind paywalls.**

12.1 Open Access Classification

OA Status	Articles	% of Total	What it means
Gold OA	95	27.0%	Immediately freely available on publication in a fully OA journal; APC paid by author or funder
Hybrid OA	17	4.8%	Published in a subscription journal; author paid APC to make this specific article open
Green OA	7	2.0%	Accepted manuscript self-archived in a repository (institutional/subject); journal version may be paywalled
Bronze OA	2	0.6%	Freely readable on publisher website but without a clear open licence (may be removed)
Closed / Paywalled	228	64.8%	No open access - readers need institutional subscription or pay-per-view
TOTAL	349	100%	Open articles (Gold+Hybrid+Green+Bronze) = 121 (34.67%) Closed (paywalled) = 228 (65.33%)

12.2 Publisher-Wise Classification of Open Access Articles

Publisher	Total Articles	Gold OA	Hybrid OA	Green OA	Bronze OA	Closed / Paywalled	Open Total	OA %
Elsevier Group	83	10	3	3		67	16	19.3%
Springer Nature Group	80	7	1			72	8	10.0%
Wiley	33	4	3		1	25	8	24.2%
American Astronomical Society	24	24					24	100.0%
AIP Publishing / IOP	16	6	5	1		4	12	75.0%
Taylor & Francis	15		1			14	1	6.7%
IEEE	12	3				9	3	25.0%
Oxford University Press	12	11	1				12	100.0%
SAGE Publications	7					7	0	0.0%
American Chemical Society	6	1				5	1	16.7%
American Physical Society	6		2	3		1	5	83.3%
EDP Sciences	6	5	1				6	100.0%
AGU	4	2			1	1	3	75.0%
Indian Academy of Sciences	4	3				1	3	75.0%
MDPI	4	4					4	100.0%
ASME	3					3	0	0.0%

AAAS	2	2					2	100.0%
AIAA	2					2	0	0.0%
Association of Agrometeorologists	2	2					2	100.0%
Frontiers Media	2	2					2	100.0%
Korean Spatial Information Society	2					2	0	0.0%
Optica Publishing Group	2					2	0	0.0%
Royal Society of Chemistry	2					2	0	0.0%
AGH University of Science and Technology Press	1	1					1	100.0%
ASCE	1					1	0	0.0%
Canadian Science Publishing	1					1	0	0.0%
China Agricultural University	1	1					1	100.0%
Copernicus / EGU	1	1					1	100.0%
Ecological Society of China	1					1	0	0.0%
Geological Society of India	1					1	0	0.0%
Global Science Press	1					1	0	0.0%
Horizon e-Publishing Group	1	1					1	100.0%
Inderscience Publishers	1					1	0	0.0%
India Meteorological Department	1	1					1	100.0%
Korean Fiber Society	1					1	0	0.0%
PLoS	1	1					1	100.0%
Politechnika Lubelska	1	1					1	100.0%
SPIE	1					1	0	0.0%
Schweizerbart Science Publishers	1					1	0	0.0%
Szechenyi Istvan University	1	1					1	100.0%
University of Arkansa	1					1	0	0.0%
University of California Press	1	1					1	100.0%
World Scientific	1					1	0	0.0%
TOTAL	349	95	17	7	2	228	121	34.7%

13. Author Keywords Analysis

291 Articles with Keywords	58 No Keywords	1,513 Total KW Instances	1,383 Unique Keywords	5.2 Avg. KWs per Article
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Of 349 articles, 291 (83.4%) carry author-assigned keywords, yielding 1,513 keyword instances across 1,383 unique terms - a uniqueness rate of 91.4%, confirming very low keyword reuse. The average is 5.2 keywords per keyworded article, consistent with Jan-Feb 2026. The most common distribution is 5 keywords per article (104 articles, 29.8%), followed by 6 keywords (81 articles, 23.2%), and 4 keywords (59 articles, 16.9%). The 58 keywordless articles (16.6%) arise primarily from American Astronomical Society publications (Astrophysical Journal family), which use the AAS Unified Astronomy Thesaurus subject classification rather than free-form

author keywords, and from a small number of IEEE and engineering journals. Keyword richness across the corpus enables effective bibliometric clustering and thematic discovery.

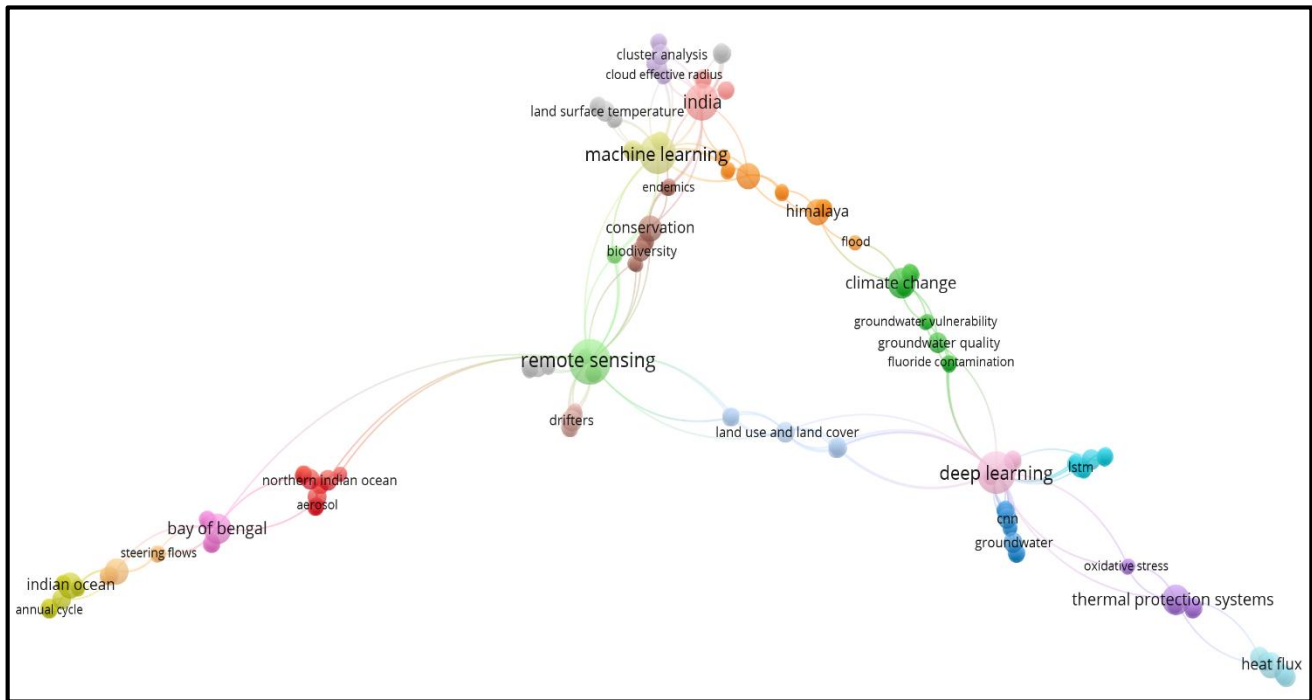
13.1 Keywords Per Article Distribution

No. of Keywords	No. of Articles	% of Articles
0	58	16.6%
1	1	0.3%
2	4	1.1%
3	19	5.4%
4	59	16.9%
5	104	29.8%
6	81	23.2%
7	15	4.3%
8	4	1.1%
10	2	0.6%
15	1	0.3%
17	1	0.3%
TOTAL	349	100.0%

13.2 Keyword Occurrences

Keyword	Occurrences	% of Total Mentions
Remote sensing	9	0.59%
Deep learning	8	0.53%
Machine learning	8	0.53%
India	6	0.40%
Moon	6	0.40%
Astrochemistry	5	0.33%
Bay of Bengal	4	0.26%
climate change	4	0.26%
Geomagnetic storm	4	0.26%
Thermal protection systems	4	0.26%

The top recurring author keywords across 291 keyworded articles are: Remote sensing (9 occurrences), Deep learning (8), Machine learning (8), India (6), Moon (6), Astrochemistry (5), Bay of Bengal (4), Climate change (4), Geomagnetic storm (4), and Thermal protection systems (4). The co-occurrence of Remote sensing, Deep learning, and Machine learning in the top-3 positions confirms AI-driven Earth Observation as the single most active emerging sub-theme in ISRO's research output. Astrochemistry (5 occurrences) signals PRL's growing radio-chemistry programme, particularly through IRAM and ALMA observatories. Geomagnetic storm and Thermal protection systems (4 each) highlight growing activity in space weather impact studies and hypersonic vehicle research respectively. Only 0.87% of the 1,383 unique terms appear more than 4 times, confirming the long-tail distribution typical of research keyword distributions.



VosViewer software (a visualization tool) is used to create the co-occurrence network of 1383 unique keywords from the 349 articles.

14. ISRO Missions & Platform Coverage

Mission / Instrument	Category	Articles Referencing
EO & Remote Sensing		
Oceansat / OCM	EO & Remote Sensing	5
Resourcesat / IRS / LISS	EO & Remote Sensing	3
EOS-04 / EOS-06 / EOS-08	EO & Remote Sensing	2
INSAT / GISAT / Kalpana	EO & Remote Sensing	2
TRISHNA	EO & Remote Sensing	1
Lunar & Planetary Missions		
Chandrayaan-2	Lunar & Planetary Missions	4
Chandrayaan-3	Lunar & Planetary Missions	4
Space Science & Astronomy		
Aditya-L1 (mission)	Space Science & Astronomy	3
ASPEX (Aditya-L1 instrument)	Space Science & Astronomy	2
AstroSat	Space Science & Astronomy	1
CAI-2 (Aditya-L1 instrument)	Space Science & Astronomy	1
MAG (Aditya-L1 magnetometer)	Space Science & Astronomy	1
PARAS-2 Spectrograph	Space Science & Astronomy	1
STEPS (Aditya-L1 instrument)	Space Science & Astronomy	1
SUIT / SoLEXS (Aditya-L1)	Space Science & Astronomy	1
SiC UV Dosimeter (EOS-08)	Space Science & Astronomy	1
Navigation & Communication		
NavIC / IRNSS	Navigation & Communication	1
TOTAL (unique articles citing any ISRO mission/instrument)		25

25 unique articles (7.16% of 349) directly reference an ISRO mission or instrument by name, identified using word-boundary pattern-matching (an article might mention more than one). Overall, EO & Remote Sensing and Space Science & Astronomy categories lead with 13 articles (3.72%) each. Under EO & Remote Sensing, Oceansat/OCM is mentioned in 5 articles (1.43%) and Resourcesat/IRS/LISS are mentioned in 3 articles. Whereas, under Space Science & Astronomy category, Aditya-L1 mission and its instruments are mentioned in 9 articles. Lunar and Planetary missions category has recorded 8 articles (2.30%) with Chandrayaan 2/3 is mentioned four times each. Nine distinct platforms across lunar, solar, ocean, atmospheric, and Earth observation domains confirm active published science across ISRO's full mission portfolio simultaneously.

15. Geographic Focus of Research

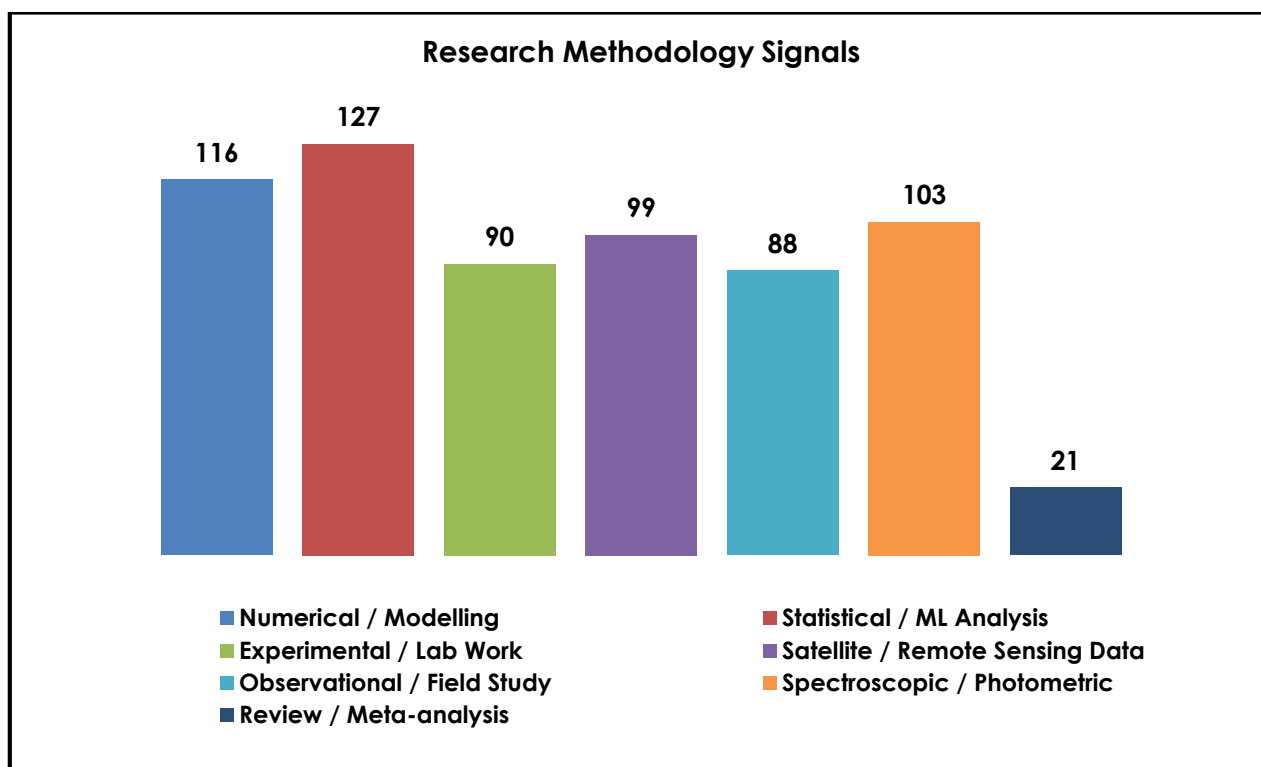
Region / Geography	Group	Articles Mentioning	% of Total
Asia-Pacific			
Japan	Asia-Pacific	2	0.6%
South Asia (broad)	Asia-Pacific	1	0.3%
Global / Other			
Tropics / Tropical	Global / Other	15	4.3%
Global scale	Global / Other	8	2.3%
Antarctica	Global / Other	2	0.6%
Europe	Global / Other	1	0.3%
United States	Global / Other	1	0.3%
India & Sub-regions			
India (general)	India & Sub-regions	60	17.2%
Himalaya / Hindu Kush	India & Sub-regions	21	6.0%
Indo-Gangetic Plain	India & Sub-regions	6	1.7%
Northeast India	India & Sub-regions	5	1.4%
Kerala	India & Sub-regions	4	1.1%
Uttarakhand / Kedarnath	India & Sub-regions	4	1.1%
Western Ghats	India & Sub-regions	2	0.6%
Deccan	India & Sub-regions	2	0.6%
Gujarat	India & Sub-regions	1	0.3%
Ladakh / Kashmir	India & Sub-regions	1	0.3%
Tamil Nadu	India & Sub-regions	1	0.3%
Indian Ocean Region			
Bay of Bengal	Indian Ocean Region	8	2.3%
Arabian Sea	Indian Ocean Region	5	1.4%
Indian Ocean	Indian Ocean Region	4	1.1%
Northern Indian Ocean	Indian Ocean Region	2	0.6%
Planetary Bodies			
Moon / Lunar	Planetary Bodies	14	4.0%
Mars / Martian	Planetary Bodies	7	2.0%
Articles mentioning at least one geographic region		117	33.52

117 articles (33.52%) mention at least one identifiable geographic region in title or abstract. India (general) is the most common at 60 articles (17.2%). The Himalayan/Hindu Kush region ranks second (21 articles, 6.0%), covering glacial melt, forest fire detection, snow cover mapping, landslide susceptibility, and mountain meteorology. Tropical/Tropics appears in 15 articles (4.3%), and Moon/Lunar studies in 14 articles (4.0%). The Bay of Bengal (8 articles, 2.3%), Mars/Martian studies (7 articles, 2.0%), and Global-scale studies (8 articles, 2.3%) are significant thematic clusters. Kerala (4 articles, 1.1%) and the Indo-Gangetic Plain (6 articles, 1.7%) appear frequently in the context of extreme rainfall, flood risk, and agricultural monitoring. One article mentions articulates counts may overlap - a single article can mention multiple regions.

16. Research Methodology Signals

Methodology signals are identified by pattern matching of titles, abstracts, and keywords; a single article may satisfy multiple categories. Statistical/ML Analysis is most prevalent at 127 articles (36.3%), encompassing regression, classification trees, CNNs, LSTMs, transformers, random forests, XGBoost, and time-series methods. Numerical/Modelling work spans 116 articles (33.1%), covering WRF, GCM/CMIP6, SWAT, FEM, CFD, and deep learning surrogate models. Spectroscopic/Photometric methods appear in 103 articles (29.4%), driven by the large astrophysics cluster using optical, X-ray, gamma-ray, and radio spectrometry. Satellite/Remote Sensing Data is identified in 99 articles (28.3%), leveraging MODIS, Sentinel-1/2, Landsat, ECOSTRESS, Swift-XRT, Fermi-LAT, GOSAT, CARTOSAT, and RESOURCESAT. Experimental/Lab Work (90 articles, 25.7%) includes materials synthesis, electrochemical cell testing, and RF antenna fabrication. Review/Meta-analysis (21 articles, 6.0%) indicates growing evidence synthesis activity within ISRO's research community.

Methodology Signal	Articles	% of 349	Interpretation
Numerical / Modelling	116	33.1%	WRF, GCM, SWAT, HEC-RAS, FEM, virtual element, CFD, deep learning models
Statistical / ML Analysis	127	36.3%	Regression, correlation, CNN/LSTM, random forest, XGBoost, time-series, PRISMA reviews
Experimental / Lab Work	90	25.7%	Materials synthesis, electrochemical testing, biosensor fabrication, antenna prototypes
Satellite / Remote Sensing Data	99	28.3%	MODIS, Sentinel, ECOSTRESS, Swift, Fermi, GOSAT, hyperspectral imagery
Observational / Field Study	88	25.1%	In-situ measurements, HFR radar, field campaigns, plot-based surveys, spacecraft in-situ
Spectroscopic / Photometric	103	29.4%	X-ray/UV/optical/radio spectroscopy; reflectance spectroscopy; AOD; broadband light curves
Review / Meta-analysis	21	6.0%	Systematic literature reviews; PRISMA/PROSPERO registered; comparative review papers



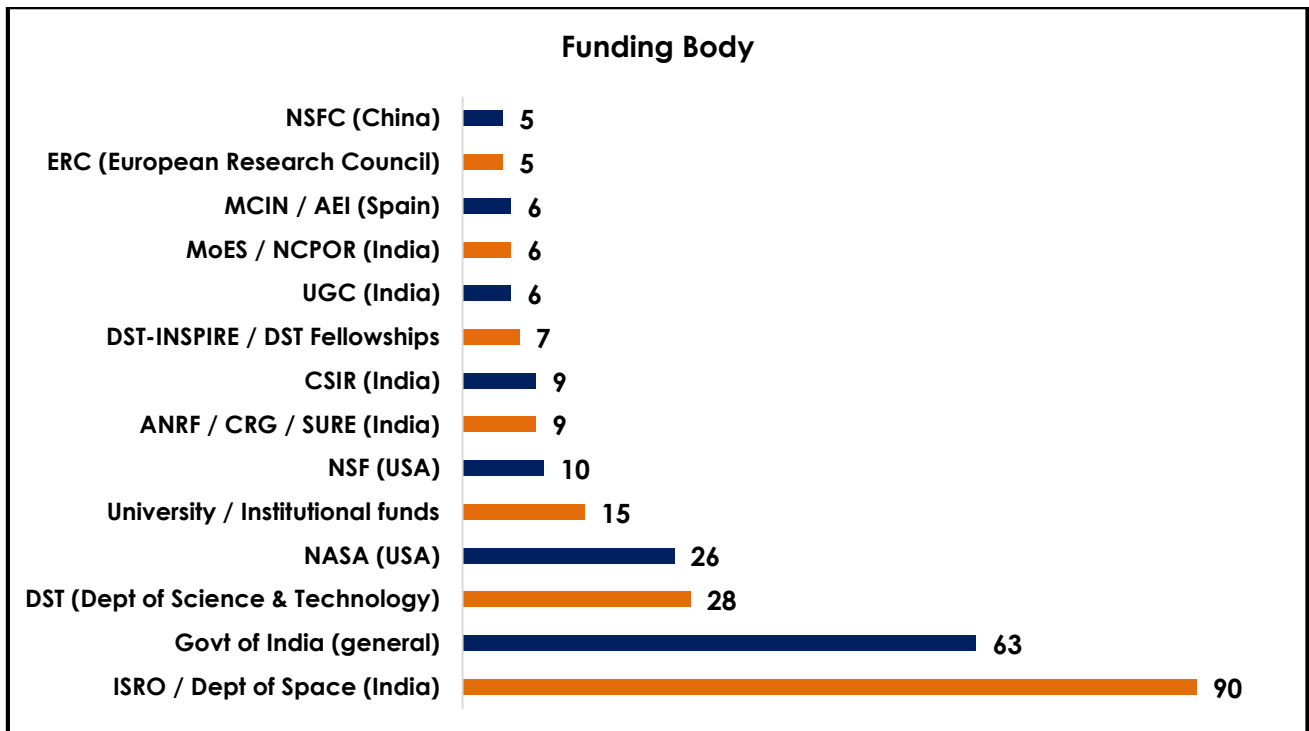
17. Funding Body Analysis

Of 349 articles in this corpus, 157 (45.0%) carry explicit funding acknowledgement text; the remaining 192 articles (55.0%) provide no funding information. Across the 157 funded articles, 310 funder attributions are recorded (average 1.97 funders per funded article), indicating strong co-funding across agencies.

ISRO/Department of Space leads with 90 articles (57.32% of funded articles, 25.8% of the full corpus), followed by Govt. of India - general grants (63 articles, 40.13%) and DST - Department of Science & Technology (28 articles, 17.83%). Together, Indian government bodies account for 219 of 310 attributions (70.6%), affirming that the overwhelming majority of ISRO-affiliated research is funded domestically. NASA (USA) is the leading international funder at 26 articles (16.56% of funded), followed by NSF/USA (10 articles, 6.37%), ANRF/CRG/SURE and CSIR - both at 9 articles (5.73% each). The European funding ecosystem contributes 24 attributions across six agencies - ERC, Horizon/EU, ESA, CNRS, CNES, and MCIN/AEI - reflecting ISRO's active participation in international collaborative science. NSFC (China, 5 articles) and JSPS/JAXA (Japan, 5 combined) complete the major international funder picture. Four funders - ICAR, JAXA, FCT, and World Bank - appear once each, confirming the long-tail structure typical of research funding portfolios.

	Funder / Agency	Category	Articles	% of 349 Articles	% of 157 Funded
1	ISRO / Dept. of Space (India)	Indian Govt.	90	25.8%	57.3%
2	Govt. of India (general)	Indian Govt.	63	18.1%	40.1%
3	DST (Dept. of Science & Technology)	Indian Govt.	28	8.0%	17.8%
4	NASA (USA)	International	26	7.4%	16.6%
5	University / Institutional funds	Institutional	15	4.3%	9.6%
6	NSF (USA)	International	10	2.9%	6.4%

7	ANRF / CRG / SURE (India)	Indian Govt.	9	2.6%	5.7%
8	CSIR (India)	Indian Govt.	9	2.6%	5.7%
9	DST-INSPIRE / DST Fellowships	Indian Govt.	7	2.0%	4.5%
10	UGC (India)	Indian Govt.	6	1.7%	3.8%
11	MoES / NCPOR (India)	Indian Govt.	6	1.7%	3.8%
12	MCIN / AEI (Spain)	International	6	1.7%	3.8%
13	ERC (European Research Council)	International	5	1.4%	3.2%
14	NSFC (China)	International	5	1.4%	3.2%
15	Horizon / EU Framework	International	4	1.1%	2.5%
16	JSPS (Japan)	International	4	1.1%	2.5%
17	ESA (European Space Agency)	International	3	0.9%	1.9%
18	CNRS (France)	International	3	0.9%	1.9%
19	NRF (Korea / South Africa)	International	3	0.9%	1.9%
20	CNES (France)	International	2	0.6%	1.3%
21	DOE (USA)	International	2	0.6%	1.3%
22	ICAR (India)	Indian Govt.	1	0.3%	0.6%
23	JAXA (Japan)	International	1	0.3%	0.6%
24	FCT (Portugal)	International	1	0.3%	0.6%
25	World Bank	International	1	0.3%	0.6%



18. DOI Coverage & Data Quality

All 349 articles (100.0%) carry a valid DOI - maintaining the same perfect coverage as Jan-Feb 2026 (328/329). No articles are missing publisher information, source title, abstract, or affiliation data. 58 articles (16.6%) are missing author-assigned keywords; this is a systematic artefact of American Astronomical Society journal practice (AAS Unified Astronomy Thesaurus subject

tags are not indexed as author keywords by Scopus/Web of Science) and a small number of IEEE and engineering journals. There are no duplicate records, no truncated abstracts, and no misattributed DOIs detected in this corpus.

19. Notable Article Spotlights

★ **LARGEST CONSORTIUM IN CORPUS** | 1,346 Co-Authors | *Physical Review D*

Identification of low-energy kaons in the ProtoDUNE-SP detector

Physical Review D (APS) | DOI: 10.1103/q21l-pl7s | Published: 9 March 2026

1,346 authors | 204-word abstract | Green OA (hybrid) | DUNE Collaboration | PRL Ahmedabad (ISRO)

The DUNE (Deep Underground Neutrino Experiment) Collaboration's paper from the ProtoDUNE-SP prototype at CERN is the single largest consortium article in the entire 349-article corpus, with 1,346 co-authors. The paper demonstrates kaon identification in liquid-argon time-projection chamber (LArTPC) data from the ProtoDUNE-SP detector, which ran at CERN from 2018-2020 using a mixed hadron beam at 6-7 GeV/c momentum. Using 522 selected kaon candidates with 92% sample purity, the study establishes the capability to discriminate kaons from protons and muons in liquid argon - a critical prerequisite for proton decay searches. The results directly pave the way for future searches in the full DUNE Far Detector (40 kt), targeting the baryon-number-violating decay channel $p \rightarrow K^+ + \bar{\nu}_\mu$. PRL Ahmedabad's participation positions ISRO researchers within one of the most consequential frontier experiments in particle physics. *Physical Review D* is the leading journal for particle, field, and nuclear physics (APS).

★ **SECOND LARGEST CONSORTIUM** | 1,321 Co-Authors | *Instruments (MDPI)* | **Gold OA** **Operation of a Modular 3D-Pixelated Liquid Argon Time-Projection Chamber in a Neutrino Beam**

Instruments (MDPI) | DOI: 10.3390/instruments10010018 | Gold Open Access

1,321 authors | Gold OA (100% free access) | DUNE Collaboration | PRL Ahmedabad (ISRO)

The second DUNE Collaboration paper in this corpus, with 1,321 co-authors, reports on the operation of a Modular 3D-Pixelated (LArPix-based) LArTPC in a neutrino beam - a key technology demonstrator for the DUNE Near Detector (ND-LAr). The 3D pixel-charge readout eliminates the ambiguity inherent in projective-wire-readout detectors, enabling precise 3D event reconstruction without reconstruction ambiguity. This is particularly significant for high-multiplicity neutrino interaction topologies at the Near Detector site. Published fully open access in *Instruments (MDPI)*, this article represents ISRO/PRL's continued participation in the DUNE global collaboration infrastructure, which spans more than 200 institutions across 36 countries.

★ **ADITYA-L1 FIRST SCIENCE** | ICME-ICME Interaction | *Astrophysical Journal Letters* | **Gold OA**

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

Astrophysical Journal Letters (AAS) | DOI: 10.3847/2041-8213/ae2ac9 | 29 Authors | PRL / VSSC

29 authors | 227-word abstract | 232 references | Gold OA | PRL Ahmedabad + VSSC Thiruvananthapuram

One of the first peer-reviewed science papers from Aditya-L1's ASPEX instrument, reporting an unprecedented observational result: a two-orthogonal-plane perspective of ICME-ICME

(interplanetary coronal mass ejection) interactions during the major solar storm of May 2024 - the largest solar event in a generation, which caused auroras visible at low latitudes worldwide. Using dual top-hat analyzers (THA-1 and THA-2) of the Solar Wind Ion Spectrometer (SWIS), the study reveals an interaction region spanning 13 hours that acts as a site for proton and alpha particle energization, directly confirmed by STEPS (SupraThermal and Energetic Particle Spectrometer) flux measurements. The authors explicitly report this as 'an unprecedented two-orthogonal-plane perspective of ICME-ICME interactions for the first time from the L1 point.' Published in *Astrophysical Journal Letters* - the high-impact letters journal of the American Astronomical Society - this is a landmark milestone for India's first solar observatory, and one of the most scientifically significant ISRO mission results in this corpus.

★ **CHANDRAYAAN-3 HOP EXPERIMENT** | **First Post-Hop Surface Science** | ***Astrophysical Journal*** | **Gold OA**

In Situ Temperatures, Regolith Properties, and Evidence of Erosion at Chandrayaan-3 Post-hop Location from ChaSTE Twilight Observations

Astrophysical Journal (AAS) | DOI: 10.3847/1538-4357/ae5228 | 7 Authors | SPL/VSSC + PRL + SAC

7 authors | 278-word abstract | 105 references | Gold OA | PRL / SAC collaboration

This paper reports the first-ever post-hop surface science from the Chandrayaan-3 Vikram lander. During the final phase of Chandrayaan-3 operations, Vikram performed a successful 'hop experiment' by reigniting its engines and relocating approximately 50 cm from its initial landing site. The ChaSTE instrument was then redeployed at the secondary location for twilight thermal profile measurements (16:25-17:30 local time). Lander Imager analysis confirms both the displacement and a slight in-plane rotation, while the ChaSTE thermal data characterises regolith thermophysical properties at the new location. Critically, the paper provides direct evidence of lunar surface erosion from engine plume impingement - estimating an erosion depth of approximately 6.7-8.9 mm - of direct relevance for future ISRO lunar lander designs and mission planning. Published in the *Astrophysical Journal* (AAS), fully open access, this work involves collaboration between SPL/VSSC Thiruvananthapuram (instrument development), PRL Ahmedabad, and SAC Ahmedabad.

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

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

Science Bulletin (Elsevier) | DOI: 10.1016/j.scib.2025.12.050 | 100 Authors

100 authors | 302-word abstract | Consortium article | *Science Bulletin* (IF ~18) | PRL Ahmedabad

Science Bulletin is one of the highest-impact multidisciplinary journals in China (Impact Factor ~18), comparable to *Nature* and *Science* sub-journals. This 100-author consortium article reports the detection of a rare astrophysical transient consistent with the tidal disruption of a white dwarf by an intermediate-mass black hole (IMBH) - a class of black hole (100-100,000 solar masses) for which very few confirmed examples exist. Unlike normal tidal disruption events involving sun-like stars (which produce flares lasting years), white dwarf disruption by an IMBH produces an ultra-bright, fast X-ray transient due to the enormous compactness contrast. The detection constrains IMBH demographics in globular clusters and dwarf galaxy nuclei, directly informing theories of black hole seed formation in the early universe. PRL's participation in this global X-ray astronomy consortium demonstrates ISRO's integration into the most frontier channels of observational high-energy astrophysics, and *Science Bulletin* publication represents one of the highest-IF publications in the entire Mar-Apr 2026 ISRO corpus.

Disclaimer:

“ISRO Research Highlights” compiles bibliometric data extracted from Scopus and Web of Science databases. For the present issue the data is extracted on 15th May 2026 for the journal articles indexed during 6th March 2026 to 15th May 2026. It may kindly be noted that indexing lags, non-standard affiliation strings, and database coverage gaps may result in undercounting of articles or authors. Centre-wise attribution reflects published affiliation records and may not capture all ISRO-affiliated contributions as some research might have been published in other journals which are not indexed in these two databases. All statistics - article counts, authorship figures, and thematic classifications - are descriptive only and must not be used as performance metrics or evaluation benchmarks. **“ISRO Research Highlights”** exists to celebrate, connect, and inform - not to rank or compete. The sole purpose of this compilation is to know “what, where and how much” of ISRO Research is published.

* * * * *

**LIST OF ARTICLES PUBLISHED BY DOS/ISRO CENTRES/UNITS INDEXED IN SCOPUS AND WEB OF SCIENCE DATABASES
DURING 6th MARCH 2026 – 15th MAY 2026**

Sl. No.	Title of the Article	Author(s) from ISRO Centre/Unit
1	A chemodynamical study of r-process-enhanced stars	PRL
2	A comparative analysis of Split Window Algorithms to retrieve Land Surface Temperature from ECOSTRESS data	SAC
3	A comparative study of occurrence rates and nature of Ultraluminous X-ray sources in spiral and elliptical galaxies	URSC
4	A Comprehensive review of global precipitation Products: Availability and application for flood inundation mapping	ISRO HQ
5	A Current Sheet Formation in a Turbulent ICME Sheath and Associated Particle Enhancement	VSSC
6	A diagnostics of observed surface currents in the Western Bay of Bengal using ground based high frequency radar, satellite and model data	NRSC
7	A generalized method for estimating solar wind speeds and densities using spectral broadening for a Kolmogorov turbulence spectrum	VSSC/ISTRAC
8	A multidimensional approach to manage rip current danger and enhancing safety at beaches	SAC
9	A new empirical approach for modal abundance estimation of olivine and pyroxene in ordinary chondrites using reflectance spectroscopy	PRL/IIST
10	A new remote sensing-derived high resolution eco-physiological land use land cover (HR Eco-P LULC) product in support of regional climate modeling over the Indian landscape	IIRS
11	A Novel High-Resolution TENO Scheme with Adaptive Artificial Anti-Diffusion	IIST
12	A novel hybrid deep learning model with feature fusion for remaining useful life prediction of ring laser gyros	IISU/VSSC/IIST
13	A Novel Physics-Informed Hybrid Deep Learning Framework for Fault Detection and Diagnosis in Cyber Physical Systems	IIST
14	A parameter-robust approach on generalized mesh to numerical solution and diffusive fluxes for 2D-system of singularly perturbed convection-diffusion elliptic PDEs	IIST
15	A Refined Regional Algorithm for Estimating Suspended Sediment Concentration in Coastal and Tropical Estuarine Waters Along the Central West Coast of India Using AWiFS Data	SAC

16	A satellite-based forest fire weather index for characterizing fire danger variability in the Himalaya	IIRS
17	A Single-Layer Tri-Band Reflectarray Antenna Enabling Independent Beam Steering in X-Band Using Coupling Reduction Method	IIST
18	A Stabilized Virtual Element Framework for the Steady State Boussinesq Equation with Temperature-Dependent Parameters	IIST
19	A turbulence index independent framework for deriving solar wind speed and coronal electron density from radio spectral broadening	VSSC
20	Accretion dynamics and coronal geometry in Mrk 530: Insights from 24 years of X-ray monitoring	PRL
21	Accretion Geometry of the New Galactic Black Hole Candidate AT2019wey in the Hard State	URSC
22	Active tectonics in the Himalayan foreland due to an advancing detachment plane	IIRS
23	Addressing sample imbalance in deep learning based multi-temporal crop classification: a study in Jhansi, India	IIRS
24	Aerosol retrievals from the GOSAT-2/CAI-2 imager with the 2nd version of the multi-wavelength and multi-pixel method	VSSC/NARL
25	Air Pollution to Atmospheric Warming: Effects of Increasing Anthropogenic Aerosols on South Asia's Climate	PRL
26	ALMASOP: Inner-envelope Structures of Protostars Driving Nascent Jets	PRL
27	Alpine flora of Kashmir Himalaya: floristic assessment, life history traits and threat status	IIRS
28	An assessment of regional variations in cloud characteristics using machine learning models: a case study over north-western and north-eastern regions of India	PRL
29	An insight into productivity, profitability, and sustainable energy use in maize under precision nitrogen management using a smartphone app	NRSC
30	An Integrated Electrochemical Biosensor Array Enabling Extracellular Vesicles Disruption and Multiplexed Lung Cancer Biomarker Detection	IIST
31	Analysis and Design of a Spectral-Shaper-Based RF Self-Interference Canceller for In-Band Full-Duplex Transceivers	URSC
32	Analysis of EnMAP Hyperspectral Data Fusion with Sentinel-2 and LISS-IV Multispectral Datasets for Crop Classification	NESAC
33	Analysis of temporal and spatial variations in extreme precipitation over Kerala	IIST

34	Anomalous PM2.5 spikes during short rain events in urban environment	NARL
35	Assessing flash flood hazard and buildings exposure in the Himalayan upland region: a case study of Gangotri Town, India	PRL
36	Automated identification of Martian dust storms using AI-based approaches: A preparatory study for India's Mars Lander Mission (MLM)	SAC
37	Biennial Signature in the Equatorial Upper Mesospheric DW1 Amplitudes During Boreal Fall Equinox and Its Relationship With Stratospheric Ozone	NARL
38	Bio-based chitosan-Al ³⁺ -microcrystalline cellulose aerogel with modified surface properties for flame retardancy, thermal insulation and sound absorption applications	URSC
39	Biochar as an adsorbent for microplastics present in aquatic environments: A comparative review between batch and column adsorption	PRL
40	Broadband Temporal and Spectral Study of TeV Blazar TXS 0518+211	PRL
41	Carbon composites derived from graphene and metal-organic frameworks for efficient energy storage performance	VSSC
42	Cataloging the nonlinear waves excited by moving a charged body in the dusty plasma medium	PRL
43	Challenges to detecting present-day volcanism on Venus	SAC
44	Characterization of Landscape Dynamics and Risk Assessment Using Geospatial Technology for Societal and Ecological Sustainability	NRSC/ISTRAC
45	Characterization of two different Coastally-Attached Lagrangian Coherent Structures and their applications for horizontal transport and mixing in the nearshore regions	NRSC
46	Climate change-driven hydroclimatic shifts and energy prospects: Insights from a snow-fed river basin in Western Himalaya	IIRS
47	Clinical benefits of manual therapies for cervical spondylosis	URSC/VSSC
48	CNT and CNT-TiO ₂ Coated Kapton® Sheet as Flexible Supercapacitor Electrode for Energy Storage Device	URSC
49	Combined approach of geometry-optimisation and surface shaping of sub-reflector of Gregorian antenna to recover gain degradation due to fabrication error in main-reflector surface	SAC
50	Comparative analysis using 16S rRNA metagenomics to explore the microbial diversity of plant based fermented foods	HSFC
51	Composition and radiative forcing of aerosols across the Indo-Gangetic Plain and Himalayas: A seasonal analysis	PRL

52	Comprehensive assessment of Th3+ properties for nuclear clock and fundamental physics applications	PRL
53	Condition monitoring and fault diagnosis of helical geared systems under progressive seeded faults using ICEEMDAN technique	IIST
54	Contrasting Olivine Alteration Scenario in the Deccan Continental Flood Basalt, India: Implications for Mars	PRL
55	Contrasting Weak and Intense Geomagnetic Storm Effects on the Low-Latitude and Equatorial Ionosphere Over Brazil: The 15–16 April 2025 Events	PRL
56	Cryogenics and purification systems of the ICARUS T600 detector installation at Fermilab	PRL
57	Decoding Seasonal C:N:P Ratios and Their Predictors in the Northern Indian Ocean: Implications for Nutrient Stoichiometry in a Changing Climate	PRL
58	Deep learning techniques for crop classification in complex agricultural landscapes	IIRS
59	Design and development of a deployable boom for the MAG payload onboard Aditya-L1 spacecraft	VSSC/URSC/LEOS
60	Design and development of Fabry–Pérot based wavelength calibration system for PARAS-2 spectrograph	PRL
61	Design of Centralized Scheduling Policies for Minimizing Average Age of Incorrect Information in Multi-Hop Wireless Networks With Interference	IIST
62	Detection of a Molecular Hydrogen Envelope around Nova GK Persei	PRL
63	DETECTION OF HUMANS IN DRONE IMAGES USING DEEP LEARNING TECHNIQUES; [WYKRYWANIE LUDZI NA OBRAZACH Z DRONÓW Z WYKORZYSTANIEM TECHNIK GŁĘBOKIEGO UCZENIA]	ADRIN
64	Detection of non-thermal radio emission components from the Orion Nebula: stellar jets, cloud collision, or feedback from stellar winds?	IIST
65	Determining and mapping the soil erodibility factor (K) in relation to pedological properties across land uses in the Umsarang micro-watershed, Meghalaya	NESAC
66	Development of a one-dimensional position sensitive detector for Compton X-ray polarimeters	PRL
67	Development of Technique for Mosaicking of Chandrayaan-2 TMC-2 DEM and IIRS Single Band Polar Area of Moon	SAC
68	Digital discovery of distorted-P1 molybdenum ditelluride and its significance in resistive switching	URSC
69	Discovery of a Rich Population of Compact Hub-filament Systems in a Single Star-forming Complex	PRL
70	Diurnal Temperature Variability at Latitudinally Distinct Sites on the Moon	PRL

71	Earth observation based landslide susceptibility mapping along the Kailash-Mansarovar route in Uttarakhand Himalaya using AHP-TOPSIS integrated approach	IIRS
72	Eco-Hydrological Connectivity in Soil–Vegetation–Atmosphere Continuum in a Tropical Biodiversity Hotspot	PRL
73	Effect of aging time on the corrosion behaviour of selective laser melted (SLM) 15–5 PH stainless steel	LPSCV
74	Effect of inclination of patterned heating surface in melting dynamics and heat transfer augmentation	IIST
75	Effect of laser powder bed fusion parameters on solidification, microstructure evolution and defects in IN718: experimental investigations and analytical formulations	VSSC
76	Effect of Thermal Emission in Isotropic Scattering Atmospheres: An Invariant-embedding Extension of Chandrasekhar's $H(\mu)$ Function	PRL
77	Efficient FPGA realization of neural network activation functions using adaptive piecewise polynomial approximations with Chebyshev nodes	URSC
78	Electrical discharge shape memory alloying of Ti-6Al-4V: Mechanisms and mechanical properties	URSC
79	Electrochemical Impedance Spectroscopy Analysis of High-Temperature Oxidation Resistance of Ni-Based Superalloys: Inconel-718, Haynes-230, and XH60BT for Space Applications	LPSCV
80	Electrodynamics and ionospheric irregularities during intense geomagnetic storm that occurred in March 2024 over American and Antarctic sectors	PRL
81	Endemic Tree Flora of India: Diversity, Distribution and Drivers	NRSC
82	ENHANCED 3D SHAPE ANALYSIS VIA INFORMATION GEOMETRY	IIST
83	Enhanced electrochemical detection of sulfamethoxazole by NaOH-mediated exfoliated boron nitride nanosheets	IIST
84	Estimating in-plane rotation through log-polar mapped binary joint transform correlator	IISU
85	Evaluating the errors of Oceansat-3 winds over the Indian Ocean	SAC
86	Evaluation of meteorological effects on air quality (AQ) across Delhi using geo-spatial datasets and deep learning	IIST
87	Evaluation of Seismo-Ionospheric and Seismological Parameters Within the Lithosphere–Atmosphere–Ionosphere Coupling Framework for the 2025 Mw 7.7 Myanmar Earthquake	NESAC
88	Evidence for In Situ Particle Energization during the 2024 May Event Based on the ASPEX Instrument on Board Aditya-L	PRL

89	Evidence for the gravity-driven and magnetically regularized gas flows feeding the massive protostellar cluster in Cepheus A	PRL
90	Evidence of stress-induced martensitic transformation (TRIP effect) in Co-35Ni-20Cr-10Mo alloy during room temperature deformation	VSSC
91	Experimental Investigation, Characterization, and Deep Learning-Driven Analysis of Polymer-Based Thermal Protection Systems for Space Rocket Launch Conditions	SDSC
92	Experimental studies on the effect of Al ₂ O ₃ + water nanofluid concentrations on dimensionless heat transfer parameters in a cleanroom air handling unit	SDSC
93	Explainable machine learning framework for the molecular classification of triple negative breast cancer	IIST
94	Exploring the Generalization Limits of UNet Variants in Road Extraction	IIST/SAC
95	Faster Convergence of Extrapolation Technique for System of Singularly Perturbed Time-Delay Parabolic PDEs	IIST
96	Feature-based image processing in remote sensing: future prospects and research directions	SAC
97	Finite element analysis and experimental validation of edge inserts in lightweight sandwich composite for satellite structure	URSC
98	First Quantitative Results on the Response of Green and Red Line Dayglow Emissions to Solar Flares of Different Magnitudes	PRL
99	Fixed-Wavelength Two-Dimensional Beam Steering in Silicon Optical Phased Arrays Using Carrier-Injection-Based Tunable Grating Antennas	IIST
100	Fluoride mapping and removal using rice husk ash in Bathinda groundwater	NRSC
101	Forward kinematics and dynamics modeling of a 2PRU-1PRS parallel manipulator	SAC
102	Fractional order chaotic systems for encrypting/decrypting satellite images in secure communication	IIST
103	Framework for Climate Services Using the Open Geospatial Consortium Standards	NRSC
104	Fredkin Gate-Based Feed-Forward Arbiter PUF for Secure Device Authentication	ISTRAC
105	From Farmland to Cityscape: Urban Growth Simulation in Surkhet Valley, Nepal Using Remote Sensing and CA-Markov Modeling	IIRS
106	Generation of state-of-the-art digital surface model over an urban Indian city, validation and usefulness for digital twin	SAC

107	Geochemical and isotopic characterisation of thermal springs in the West Coast Geothermal Province, India: Insights into their origin and reservoir dynamics	PRL
108	Geochemistry and U–Pb zircon geochronology of metapyroxenites from Coorg massif, India: constraints on Archaean geodynamics and regional tectonics	IIST
109	Geometric manifold statistics of turbulence-impacted beam propagation and compensation in optical communication	IIST
110	Geophysical-based assessment of hydrological sustenance in inhabited relict rock glaciers of the semi-arid Western Himalaya, India	IIRS
111	Global estimation of surface ocean particulate organic carbon using in-situ and satellite observations	NRSC
112	Goals and trends in space exploration: An overview of the panel on exploration sessions at the committee on space research general assembly 2024	IIRS/IIST
113	Heterogeneous domain generalization for multi-source person re-identification via Wasserstein barycenter	IIST
114	Historic Building Information Modelling Framework Using Terrestrial LiDAR for Heritage Documentation and Digital Twin Creation	IIRS
115	Hybrid quantum–classical convolutional neural network for multitemporal urban sprawl analysis using remote sensing data	NRSC
116	Hydroclimatic extremes during the past 1400 years in the monsoonal 'Top End', Australia	PRL
117	Hydrogeochemical assessment and groundwater fluoride prediction in Bathinda district using deep learning	NRSC
118	Identification of Suitable Machine Learning Classifier for In-Season Crop Mapping in the Absence of Concurrent Ground Truth Data	NRSC
119	Identifying the impact of urban development on abutting ecology in Chandigarh using remote sensing based ecological index	IIRS
120	Improving wear performance of Mg-4Zn alloy using Si ₃ N ₄ nanoparticle reinforcements: Mass loss analysis	IISU
121	In search of survival grounds—Habitat preference analysis and species distribution modelling of critically endangered Jerdon's Courser, <i>Rhinoptilus bitorquatus</i>	NRSC
122	In Situ Investigation of Microscale Deformation Mechanisms of Individual Phases in Silicon Stainless Steel with Varied Si Content	VSSC
123	In Situ Temperatures, Regolith Properties, and Evidence of Erosion at Chandrayaan-3 Post-hop Location from ChaSTE Twilight Observations	PRL/SAC

124	Influence of Diurnal Tide on the Low-Latitude UMLT Mean Zonal Wind: Evidence From Momentum Flux Estimation Using ICON/MIGHTI Winds	NARL/IIST
125	Influence of organizational features of heteroatom-doped carbon on sulfur cathode performance in lithium-sulfur batteries	IIST
126	Influence of thermo-mechanical processing on the microstructural evolution and mechanical properties of CoCuFeMnNi high-entropy alloy	VSSC
127	Initial verification of OCM-3 Derived Results and Expectations for Essential Climate Variables	SAC
128	InSAR evidence for interseismic creeping along the Churachandpur-Mao Fault in the Indo-Burmese Arc: Implications for strain partitioning and seismic hazard	SAC
129	Insights into regional black carbon sources from site-specific absorption properties	PRL
130	Integrating data-driven techniques and climate models to study ocean dynamics in the Bay of Bengal	NRSC
131	Intensification and spatial shifts of heatwave hotspot across India under climate and ENSO influences with health risk assessment	NRSC
132	Interaction between ilmenite-bearing cumulates and lunar mantle: implications for the origin of intermediate and high-titanium lunar basalts	PRL
133	Interference-aware frequency-agile onboard processor using fine-grained multilevel analysis–synthesis filter-bank channelization	SAC
134	Interplay of chemistry, meteorology, and transport in modulating Surface ozone over a tropical coastal semi-urban site in Southern India	VSSC
135	Investigating roles of triple excitations for high-precision determination of clock properties of alkaline-earth-metal singly charged ions	PRL
136	Investigating Spatial Heterogeneity in Aerosols Chemical Composition and Implications for Physico-Optical Properties over the North Eastern Region of India	VSSC
137	Investigating the propagation of small-scale flare energy in the lower and upper atmosphere of solar active region	PRL
138	Investigation of cloud characteristics over Northern and Southern Indian regions using satellite observations and machine learning	PRL
139	Investigation of Hypersonic Boundary-Layer Transition on a Typical Re-Entry Vehicle: Insights into Spot-like, Non-Modal Breakdown Mechanisms	VSSC
140	Investigation of wildfire risk and its mapping using GIS-integrated AHP method: a case study over Hoshangabad Forest Division in Central India	IIRS
141	Iron ore mapping in Eastern India using hyperspectral remote sensing and machine learning	IIRS

142	Isotopic Compositions and Elemental Abundances of Chromium in Presolar Silicon Carbide Grains from Asymptotic Giant Branch Stars	PRL
143	Landslide Inventory of Arunachal Pradesh using Space Technology	NESAC/NRSC
144	Lightning location systems in India: A comparative evaluation with a focus over North-Eastern Region of India	NESAC/NRSC
145	Lightweight all-oxide ceramic matrix composite tiles from preceramic polymers for hypersonic vehicle applications	VSSC/IIST
146	Lightweight reticulated mullite foams of zero strut porosity from preceramic polymer resins	VSSC/IIST
147	Limits on the axion-photon coupling from Chandrayaan-2 observations	PRL
148	Localization of stationary phase point through centroid shift in spectral interference	IIST
149	Long-term characteristics of the atmospheric boundary layer over the Himalayan Foothills using ground-based Lidar and reanalysis data	PRL/IIRS/SAC/NRSC
150	Long-term spatiotemporal assessment of wetland degradation and ecological resilience in Indian Ramsar sites spanning various agroecological zones	SAC
151	Low energy gamma rays from the Moon and hydrogen content of the lunar surface	PRL
152	Low-temperature densification and improved microwave dielectric properties of InVO ₄ ceramics by Bi ³⁺ substitution for LTCC applications	VSSC/IIST
153	LULC classification using deep convolution neural networks for change detection analysis	NRSC
154	Lunar subsurface charging: GCR and SEP effects	PRL
155	Machine Learning Based MODIS Day-Night Land Surface Temperature Downscaling Over India	SAC
156	Machine learning-based detection of fusarium wilt in tomato using ground-based and satellite hyperspectral imagery	IIST
157	Machine learning-based estimation and model transferability of soil organic carbon using ground, airborne and satellite hyperspectral remote sensing	IIST
158	Machine Learning-Based Prediction of Gross Primary Productivity in Moist Deciduous Sal Forests of Western Himalayan Foothills of India	IIRS
159	Magnetic Field Disturbances in the Martian Ionosphere: Competing Roles of Ionospheric Currents and Solar Wind Interaction	NARL

160	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
161	Magnetic-field Order in the Southwestern Rim of RCW 86 Constrained Using X-Ray Polarimetry	PRL
162	Magnetosphere–Ionosphere Coupling Driven by Solar Wind Density Pulse Under Northward IMF Bz: Role of IMF By	NARL/PRL
163	Manipulation of High-Harmonic Generation Using an Engineered Two-Color Laser Field	PRL
164	Mapping and Monitoring of Kharif Fodder crops using Temporal Polarimetric SAR Features and Random Forest	SAC
165	Measuring public health integrity in India: Kerala's COVID-19 undercount as a benchmark for excellence	IIST
166	Mechanical behaviour of dual-phase SS301 under cryogenic conditions	IPRC
167	Mechanically reconfigurable single-layer metasurface for continuously tunable polarization conversion and frequency filtering in C-Ka band for reflection and transmission	SAC
168	Mechanism on the epochal shift in translation speed of tropical cyclones formed over the Bay of Bengal region	NARL
169	Metal–Organic Framework-Based Composites for Wearable Electrochemical Sensing in Healthcare: A Review	IIST
170	Microstructural evolution, mechanical strengthening, and high-temperature performance of Y ₂ O ₃ -dispersed TiNbMoTaW refractory high entropy alloys	LPSCV
171	Modeling of Thermomechanical Properties of SiBOC Ceramics: A Molecular Dynamics Approach	VSSC
172	Modulation of buckling and vibro-acoustic characteristics in 3D graphene - foam core - MEE face sheet sandwich shells: An analytical approach	VSSC
173	Molecular Insights into the Impact of Anthropogenic Precursors on SOA Formation in Remote Pristine Environments	VSSC
174	Molybdenum-driven electronic restructuring of iron carbides unlocks faster volmer kinetics in alkaline hydrogen evolution	IIST
175	Monitoring, reporting, and verification of marine carbon dioxide removal: Exploring scientific consensus and divergences across continents	PRL
176	Moon Matters	URSC
177	Multi-Faceted Investigations of Crustal Deformation and Ionospheric Perturbations Associated With the 6 February 2023 Kahramanmaraş Earthquake Doublet in South-Eastern Türkiye	SAC

178	Multi-Instrument Study on the Generation, Evolution and Morphology of Night-Time Equatorial F- Region Irregularities	VSSC
179	Near-infrared spectroscopy of RS Ophiuchi in 2021: the calm, the storm, and the abatement	PRL
180	Near-net-shape forming of carbon foams from rotten plantain fruit for thermal insulation and EMI shielding	IIST
181	Net CO ₂ Emissions From Dry Inland Waters Persist in the Presence of Vegetation	PRL
182	Nocturnal evolution of physicochemical characteristics of water-soluble and insoluble organic aerosols in a polluted environment: New insights from a combined online and offline study	PRL
183	Non-methane hydrocarbon (NMHC) variability in rural Himalayan atmospheres: impacts on ozone, secondary organic aerosols, and human health	PRL
184	Numerical analysis of rip currents at RK Beach, Visakhapatnam, India using XBeach model	SAC
185	Numerical Exploration of a B-Class Flare Using the Synergy between XSM, GOES, AIA, and HMI	PRL
186	Nutrient cycling, biogeochemical pathways and eutrophication status of an urban Himalayan lake system	PRL
187	Object recognition under bad weather conditions with wavelet-modified logarithmic fringe-adjusted joint transform correlator	IISU
188	Observations of a Twin Pair of Atypical Solar Flares and a Magnetic Reconnection Scenario	PRL
189	Observations of DNC and DCO ⁺ toward the J-shaped Filament and Starless Cores in the Orion Molecular Clouds	PRL
190	On Improvement in Mechanical Properties by Aging Heat Treatment of Deformed Cu-Cr-Zr-Ti Component Fabricated through SPIF Process	VSSC
191	One Year of ASPEX-STEPS Operation: Characteristic Features, Observations and Science Potential	PRL
192	Operation of a Modular 3D-Pixelated Liquid Argon Time-Projection Chamber in a Neutrino Beam	PRL
193	Optimization of Hot Workability and Control of Microstructure in Monel K500: A Study Using Processing Maps, Constitutive Equations and FEM Analysis	IIST/LPSCV
194	Optimizing WEDM parameters for single crystal tungsten: a Bayesian network approach with numerical and experimental validation	SAC
195	Parameter-Free Deformation Variables of the Proxy-SU(3) Symmetry in Even–Even Atomic Nuclei with Z = 28–82, N = 28–126	PRL

196	Paraxial spin-induced vortex generation in epsilon-near-zero materials	PRL
197	Particle Acceleration and Depolarization in the Protostellar Jet Knots HH 80 and HH 81	IIST
198	Passive polarization-encoded BB84 protocol using a heralded single-photon source	PRL
199	Pattern discovery in early monsoon rainfall across Kerala using data mining techniques	SAC
200	Performance Evaluation of Metric and Parametric Models through Rainfall-Runoff Modelling of Sub-Himalayan Catchment	IIRS
201	Photosynthetic rate, Stomatal conductance and yield of soybean under optimized fertilizer management and varietal selection	SAC
202	Picophytoplankton abundance and their contribution to particulate organic carbon in the Bay of Bengal	PRL
203	Porous carbon nanofibers derived from electrospun polyvinylidene chloride for CO ₂ capture and electromagnetic interference shielding	IIST
204	Potential correlation between the 2015 Nepal seismic events and heat wave occurrence in southern India	IIRS
205	Predicting habitat suitability of <i>Barbilophozia lycopodioides</i> (Wallr.) Loeske, under current climatic condition in the global scale	SAC
206	Pre-monsoon aerosol intensification and enhanced atmospheric warming over the South-Eastern Arabian Sea	VSSC
207	Prestress-induced vibration, mode-shape evolution, and stability of circular cylindrical shells	IIST
208	PRISMA Imaging Spectroscopy Reveals Topographic Control Over Canopy Nitrogen Variability in Subtropical Himalayan Forests	IIRS
209	Probing burst–disc interaction and disc reflection in SAX J1808.4–3658 with NICER, XMM–Newton, and NuSTAR	PRL
210	Probing Low-Mid Latitude Traveling Ionospheric Disturbances vis-à-vis the 23–24 April 2023 Geomagnetic Storm	NARL
211	Process Simulation to Determine Ductility Dip in Thick XH67 Plates to Overcome Cracking during Hot Forming	LPSCV
212	Processing–Structure–Property Relationship in Solvent-Blended PLA-Graphite-PEG Filaments: Influence of Graphite Concentration	SAC
213	Proterozoic Nitrogen cycling in shallow marine basins: A quantitative assessment using shale $\delta^{15}\text{N}$ values	PRL

214	Protons Reflected by Lunar Magnetic Anomalies Persistently Alter the Solar Wind Flow	PRL
215	Q/W-band Observations toward Starless Cores in Orion (QWOSCO). I. Overview, Isotopologues, Isomers, and Complex Organics	PRL
216	Ranging beyond synthetic wavelengths with an undersampled spectral signal using tunable wavelength laser interferometry	IIST
217	Realizing enhanced superplasticity in an AZ91 Mg alloy featuring layered heterogeneous microstructure and texture	LPSCV
218	Remote Sensing-Based Phenological Classification of Ragi Crops Using Transformer-Based Deep Learning	IIRS
219	Revisiting wideband pulsar timing measurements	PRL
220	Satellite Attitude Anomaly Detection in Ground Data Processing	ADRIN
221	Satellite-Based Assessment and Model Intercomparison of Ocean Net Primary Productivity (NPP) in the Northern Indian Ocean	SAC
222	Seasonal collection of in situ optical and thermal images dataset and meteorological measurements over an Indian semi-arid rice crop	SAC
223	Seasonal coupling of vegetation, moisture, and thermal regimes in selected irrigated commands of India using landsat time-series	NRSC
224	Sensitivity and Performance Analysis of an AI Model for Virtual Prototyping of Brazed Ceramic–Metal Composite Materials	SAC
225	Severe geomagnetic storm driven by a slow ICME: Revisiting the August 2018 event	VSSC
226	Shape memory polymers: a new avenue to dry adhesives	VSSC
227	Shifting flow regimes and water quality regulate CH ₄ dynamics in anthropogenically perturbed tropical rivers and canals	PRL
228	Single Quantum Emitter Strong Coupling with Plasmonic Cavities: A Review	PRL
229	Single shot phase stepping common-path digital holographic microscopy with multiplexed grating	IIST
230	Smart Visual Fluorescence Sensing of Tetracycline Using N-Doped Nb ₂ C Quantum Dots and CNN-Based Regression Quantification	IIST
231	SN 2024aecx: A Fast-evolving Type IIb Supernova with a Prominent Shock-cooling Peak	PRL
232	Soil Aggregate Stability and Carbon Distribution for Sustainable Carbon Management	NRSC

233	Soil moisture and soil temperature trends across 21 sites over Northeast India and nearby areas using statistical tests	NESAC
234	Solar Activity During the Peak of Solar Cycle 25 Captured by SiC UV Dosimeter Onboard EOS-08	LEOS/NRSC
235	Source variability and atmospheric processing of NH _x using $\delta^{15}\text{N}$: Linkages with WSOC fluorescence indices	PRL
236	Spatial Trends and Anomalies in Aerosol Levels Over Indian Peninsular Region and Their Relationship with Regional Meteorological Parameters	NRSC
237	Spatio-temporal dynamics in Bhitarkanika mangroves amid climate change showcasing the resilience and vulnerability due to cyclonic events	NRSC
238	Spatio-temporal variability and canonical seasonal regimes of tropospheric NO ₂ across India's non-attainment cities: Insights from TROPOMI, ERA5 meteorology, and trend sensitivity analysis	NRSC
239	Spectral insights into carbonaceous chondrites origins: Correlating main-belt asteroids with CV chondrites	PRL/SAC
240	Spectro-Mineralogical and Chemometric Characterization of Banded Iron Formations from the Keonjhar–Sundargarh Iron Ore Belt, Odisha, India: Implications for Geochemical and Spectral Indicators of Ore Grade	NRSC
241	Spectroscopic and morphological characterization of particulate matter (PM _{2.5} and PM ₁₀) in Guwahati, North East India	NESAC
242	SQUID: SBHS Quick Update of Intermittent Data in Regenerative LEO Satellite Networks	IIST
243	Stable and interpretable jet physics with IRC-safe equivariant feature extraction	PRL
244	Steerable Harmonic Controlled Comparator-less Compact Architecture for Monopulse Pattern Synthesis using PWM Timed Arrays	IIST
245	Strain Energy Variation During the Rolling and Deployment of a Lenticular Composite Boom: A Computational Study	URSC
246	Strength of massive phase in $\alpha + \beta$ titanium alloy	VSSC
247	Study of Spatiotemporal Evolution in Sunspot Area and Solar Flares for Cycles 24 and 25	PRL
248	Study on the Thermo-Acoustic Instability Dynamics Using Empirical Mode Decomposition and Hilbert-Huang Transform	IIST
249	Superexpansion of interplanetary coronal mass ejection observed by Solar Orbiter and Wind spacecraft within 0.14 au radial separation	VSSC
250	Supersonic Combustion of Ethylene in a Pylon-Cavity Configuration with Curved Pylons	IIST

251	Synergistic Effect in an Edge-Functionalized Water-Processable Graphene With MoS ₂ Hollow Nanoflowers for a High-Performance Supercapacitor Electrodes	IIST
252	Synergistic effect of melamine and tricresyl phosphate on fire retardant properties of semi flexible polyurethane foam	VSSC
253	Synergistic Effect of Surface Area and Filler Loading of Graphene Nanoplatelets on High-Density Polyethylene for Advanced Gas Barrier Applications	VSSC
254	Synthesis, Characterization and Slow-release Behaviour of Bio-coated Zinc oxide Nanoparticles (ZnO Nps) in Typic Haplustepts and Typic Ustifluvents	NRSC
255	Tauktae and Yaas cyclones impact on ocean productivity and physical parameters in the Arabian Sea and Bay of Bengal regions	SAC
256	Temporal Variation in the CoronalRadiusParameter in a Jetted Tidal Disruption Event: Swift J1644+57	PRL
257	The [FeXIII] Infrared 10747 and 10798Å Lines in Novae	PRL
258	The ALMA-QUARKS Survey: Evidence of an Explosive Molecular Outflow in IRAS 15520-5234	PRL
259	The ALMA-QUARKS Survey: Hot Molecular Cores Are a Long-standing Phenomenon in the Evolution of Massive Protostars	IIST/PRL
260	The Delhi Penning-trap facility for interaction studies of astro-chemically relevant molecules with relativistic electrons	IIST
261	The Dharali Debris Flow Flood: Warning from the Himalaya	PRL
262	The indian pulsar timing array data release 2: II. Customised single-pulsar noise analysis and noise budget	PRL
263	The role of deformed craters in understanding fault geometries and kinematics	PRL
264	Thermal characterization of bendable water filled two-phase thermosyphons under variable fill ratios and bending angles	SAC
265	Thermophysical traits of hybrid nanofluids in cleanroom air handling unit: An experimental study	SDSC
266	Tracing the Impact of Irrigation Development on Aral Sea Desiccation and Land Use Dynamics Using Remote Sensing	IIRS
267	Tree Community-Level Phenological Monitoring Using MODIS, Sentinel-2 and PlanetScope in Himalayan Foothills, India	IIRS
268	Turbulent Properties of Interplanetary Coronal Mass Ejections Observed by Solar Orbiter in the Inner Heliosphere	IIST

269	Two-dimensional imaging of the tsunami caused by the 29 July 2025, M w 8.8 Kamchatka earthquake from SWOT	SAC
270	Ubiquity of Methanol and Its Related Chemical Segregation in Orion Starless Cores: The ALMASOP Sample	PRL
271	Unassisted cold start-up of polymer electrolyte membrane fuel cells: challenges and strategies	VSSC
272	Understanding the Liquid Metal Embrittlement Phenomenon in AISI 321 by Eutectic Cu-Ag Liquid Metal During Vacuum Brazing: An Approach Using Gleeble Based Process Simulation	LPSCV
273	Unlocking performance in aqueous and non-aqueous lithium-ion battery systems: a case study of manganese ferrite based anode systems	VSSC
274	Unlocking Thermal Flexibility in Ni-Based Fluorinated Square-Pillared MOFs: Insights into Pore Transitions and Node-Linker Dynamics	VSSC
275	Unusual Propagation of MSTIDs Observed on 31 January 2017: Evidence of Complex Electrodynamical Modulation Over Low-Latitude Ionosphere	NARL/NRSC
276	Unveiling an hourglass-shaped magnetic field toward IRDC G351.77–0.53	PRL
277	Using space technology approach to improve quality in emergency departments in India: a quality improvement program	ISRO HQ
278	Utilizing the Herrmann finite elements for assessing the deformation of viscoelastic solid rocket motor propellant grains	VSSC
279	Validation and Performance Evaluation of the OCM-3 Sensor for CDOM Detection in Coastal Waters of the Eastern Arabian Sea During the Winter Monsoon	SAC
280	Validation of JAGUAR-DAS Whole Neutral Atmosphere Reanalysis (JAWARA) zonal winds with independent sounding rocket observations over a tropical site	VSSC
281	Validation of OCM3 Operational Products Along the Coastal Waters of Southern Bay of Bengal Using In-Situ Measurements and Statistical Analysis	NRSC/SAC
282	Virtual Vector-Based DTC of Dual Inverter-Fed Asymmetrical Six-Phase Induction Motor Drive Supplied From a Single DC Source	IIST
283	Wave climate variability along the selected erosional hotspots of Kerala	SAC
284	Wavelet analysis of nighttime excess ionospheric TEC during a geomagnetic storm over Indian low latitudes	SAC
285	Wear behaviour of deep cryogenically treated coated tool during end milling of XH67MBTHO	LPSCV
286	Wide-field polarization imaging and numerical modeling of the coma and tail of comet C/2023 A3 (Tsuchinshan-ATLAS)	PRL

287	X-Ray Spectral and Temporal Evolution of Atoll Source 4U 1820-30 with AstroSat: Detection of High-frequency Quasi-periodic Oscillation	URSC
288	A comprehensive drought characterization of Bangladesh using integrated remote sensing observations and land surface model outputs	IIRS
289	A fast powerful X-ray transient from possible tidal disruption of a white dwarf	IIST
290	A fluid vacation model for renewable-powered electric vehicle charging systems: Performance evaluation and cost-optimal battery sizing	IIST
291	Accurate transition and hyperfine data in Ag I from the multiconfiguration Dirac-Hartree-Fock and relativistic coupled-cluster methods	PRL
292	An Enhanced LVDT Digitizer With Extended Range	IIST
293	Anomalous global and seasonal variations in the Equatorial Ionization Anomaly (EIA) observed during the May and October 2024 geomagnetic storms	PRL
294	Assessing earthquake-induced landslide susceptibility: a comparative study with and without landslide inventory data in the Indian Himalayan region	NRSC
295	Bunching of extreme events on complex network	PRL
296	Chromospheric Flashes in a Solar Pore: Insights from Multiline Spectropolarimetric Diagnostics	PRL
297	Classical spectral unmixing-based lunar mineralogical analysis using hyperspectral data from Chandrayaan-2	SAC
298	Climatology of Quasi-2-Day Wave-Induced Horizontal Momentum Flux and Heat Fluxes Over the Tropical MLT Region Using SVU Meteor Radar	NARL/VSSC
299	Comparison of Heat Flux Estimation Methods for Reentry Module Applications	VSSC
300	Contribution of electric self-forces to electromagnetic momentum in a moving system	PRL
301	Dawn-Side Anomaly in Sudden Geomagnetic Field Responses to Solar Wind Pressure Discontinuities During the 10 May and 10 October 2024 Geomagnetic Storms	PRL/VSSC
302	Decadal evolution of mass movements in a Himalayan catchment after the catastrophic 2013 Kedarnath disaster	NRSC
303	Deciphering chemical heritage: Isotopic study of methanol and other complex organic molecules in a solar-type protostar NGC 1333 IRAS 4A2	PRL
304	Discovery of Burst Oscillations in the Newly Discovered Millisecond X-Ray Pulsar SRGA J144459.2-604207	PRL

305	Diurnal and Seasonal Variability of Gas-Particle Partitioning of Secondary Organic Aerosols in the Tropical Atmosphere	VSSC
306	Effect of perchlorate on biocementation capable bacteria and Martian bricks	ISRO HQ
307	Enhancement of Radiation Efficiency of Plasma Antenna in Reconfigurable Central Plasma Antenna Array	SAC
308	Estimation of fire radiative power for crop residue burning regions in northern India using India's geostationary satellite INSAT-3DS	SAC
309	Evidence for the Merger Hypothesis in V4332 Sgr: A Low $^{12}\text{C}/^{13}\text{C}$ Ratio and Multiple Outbursts	PRL
310	Examining quality of DGNSS derived positioning in data in urban city: a case study of an urban city in India	SAC
311	Global shifts in rainfall drought relationship: weakening association in tropics	NESAC
312	Himalayan cloudbursts: a microphysical investigation	SAC
313	Identification of low-energy kaons in the ProtoDUNE-SP detector	PRL
314	Impacts of climate change on groundwater resources: a comprehensive review	IIRS
315	Infrared spectroscopy reveals ethylene glycol is an anti-crystallizer in water mixed astrochemical ices	PRL/VSSC
316	Integrating Analytical Hierarchy Process and Machine Learning for Enhancing Flood Hazard Mapping	NESAC/NRSC
317	Intrinsic and extrinsic orbital angular momentum of a self-healed optical vortex	IIST
318	Investigating particle acceleration in the Wolf-Rayet bubble NGC 2359	IIST
319	Investigation for water-ice within lunar polar PSR using Chandrayaan-2 DFSAR data	PRL
320	Investigation of Magnetic Topology and Triggering Mechanisms of a C-class Flare and Active Region Blowout Jet	PRL
321	Irradiation of condensed CO reveals a new pathway for the formation of aromatic molecules in astrochemical ices	PRL/VSSC
322	Isocyanate-Free Hybrid Polyhydroxyurethane-Siloxane-Epoxy Coatings: A Sustainable Route toward High-Performance Anticorrosion Protection	VSSC
323	Langmuir probe-based lunar near-surface plasma measurements associated with the unique hop test of Chandrayaan 3 lander: observations and model simulations	VSSC

324	Leveraging TROPOMI observations and WRF-GHG modeling towards improving methane emission assessments in India	VSSC/SAC
325	Near-surface geophysics: from measurements to reliable models	IIRS
326	On the variability of black carbon over coastal and highland tropical environments in Southern India	VSSC
327	Optimal control strategies for the Landau-Lifshitz-Gilbert equation through spatio-temporal control and fixed magnetic field coils	IIST
328	Polarization of reflected X-ray emission from the Sgr A molecular complex: Multiple flares, multiple sources?	PRL
329	Porosity Characterization and Associated Mechanical Degradation of Heat Treated Carbon Phenolic Ablative Composites	VSSC
330	Post-Midnight Enhancement in OI 630.0 nm Airglow Emission and Plausible Link to Wave Dynamics	PRL
331	Proximity-induced superconductivity and emerging topological phases in altermagnet-based heterostructures	PRL
332	Radiative transfer modeling of the low-mass proto-binary system, IRAS 4A1 and 4A2	PRL
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