

इसरो अनुसंधान के प्रमुख झलकियाँ ISRO RESEARCH HIGHLIGHTS

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

अंक | Issue-4
जुलाई-अगस्त | July-August 2026

पुस्तकालय एवं सूचना संसाधन प्रभाग
Library and Information Resource Division
इसरो मुख्यालय | ISRO Headquarters

1. Data Collection

287 Unique Articles	182 Unique Journals	17 Centres / Units	5 Avg. Unique Authors / Article	107 Gold & Hybrid OA Articles	281 Articles with DOI	60 Intl. Collab. countries
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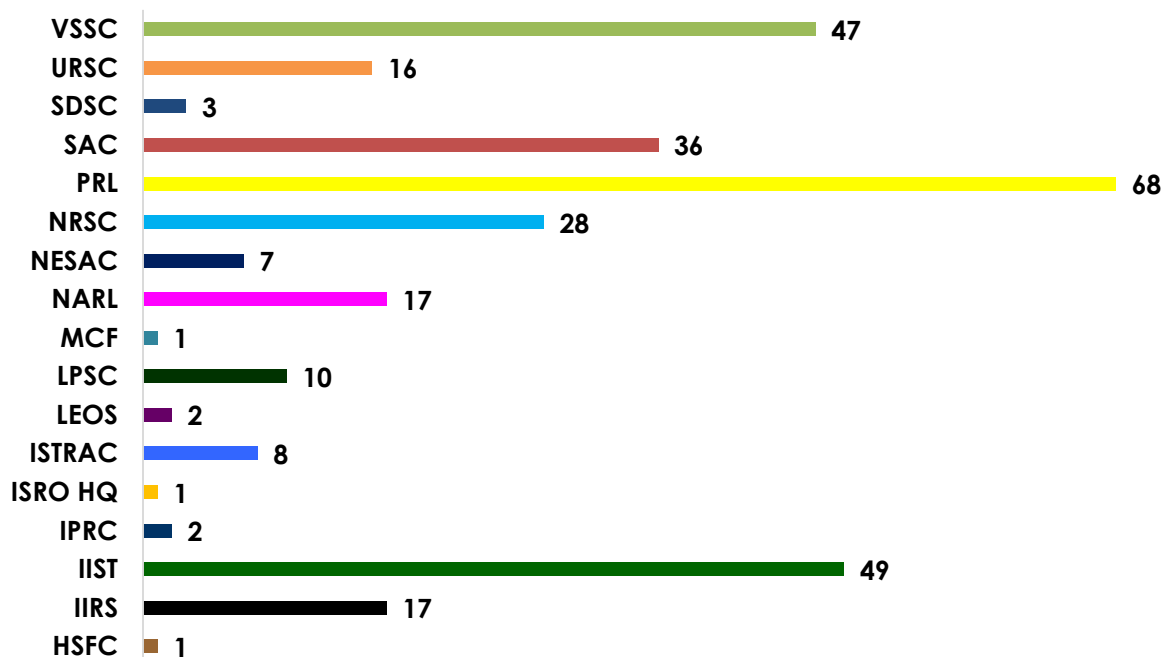
The dataset comprises 287 journal articles published in the form of article, letter, note and review by DOS/ISRO-affiliated researchers for **July–August 2026 issue**. The data is extracted from **Scopus and Web of Science databases** on 15th September 2026 for the journal articles indexed in these two databases during the period **18th July 2026 to 15th September 2026**.

2. ISRO Affiliation Analysis

	Centre / Unit	Articles Jan-Feb 329	Articles Mar-Apr 349	Articles May-Jun 303	Articles Jul-Aug 318	% of 318
1	ADRIIN	-	2	-	-	-
2	HSFC	1	1	-	1	0.31
3	IIRS	32	27	16	17	5.35
4	IIST	68	63	49	50	15.72
5	IPRC	5	1	1	2	0.63
6	ISRO HQ	5	3	2	1	0.31
7	ISTRAC	3	3	4	10	3.14
8	LEOS	-	2	1	2	0.63
9	LPSC	11	8	17	10	3.14
10	MCF	1	-	-	1	0.31
11	NARL	17	10	16	18	5.66
12	NESAC	10	9	7	7	2.20
13	NRSC (including RRSCs)	30	32	21	29	9.12
14	PRL	88	105	78	68	21.38
15	SAC	45	45	34	36	11.32
16	SDSC	-	3	5	3	0.94
17	URSC	9	17	17	16	5.03
18	VSSC/SPL/IISU	43	52	35	47	14.78
	TOTAL ATTRIBUTIONS	367	383	303	318	

A total of 318 attributions are recorded across 17 DOS/ISRO Centres/Units for 287 articles, giving an average of 1.11 attributions per article, with 28 articles having authorship from more than two Centres. PRL contributed 68 articles (21.38%), followed by IIST (50, 15.72%), VSSC/SPL/IISU (47, 15.02%), SAC (36, 11.50%), and NRSC (29, 9.12%). Together these five Centres account for 72.33% of all attributions.

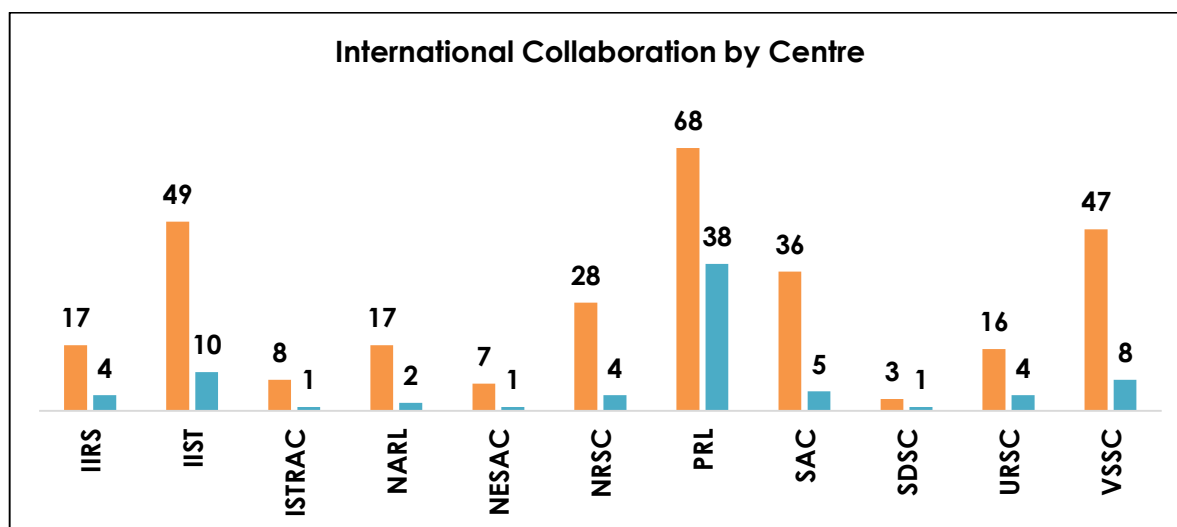
Centre-Wise Article Attribution



3. International Collaboration – Articles Count

	Centre / Unit	Total Articles	Intl. Collab.	% of Total Articles
1	HSFC	1	-	-
2	IIRS	17	4	4.94
3	IIST	50	11	13.58
4	IPRC	2	-	-
5	ISRO HQ	1	-	-
6	ISTRAC	10	3	3.70
7	LEOS	2	-	-
8	LPSC	10	-	-
9	MCF	1	-	-
10	NARL	18	2	2.47
11	NESAC	7	1	1.23
12	NRSC (including RRSCs)	29	4	4.94
13	PRL	68	38	46.91
14	SAC	36	5	6.17
15	SDSC	3	1	1.23
16	URSC	16	4	4.94
17	VSSC/SPL/IISU	47	8	9.88
	TOTAL ATTRIBUTIONS	318	81	

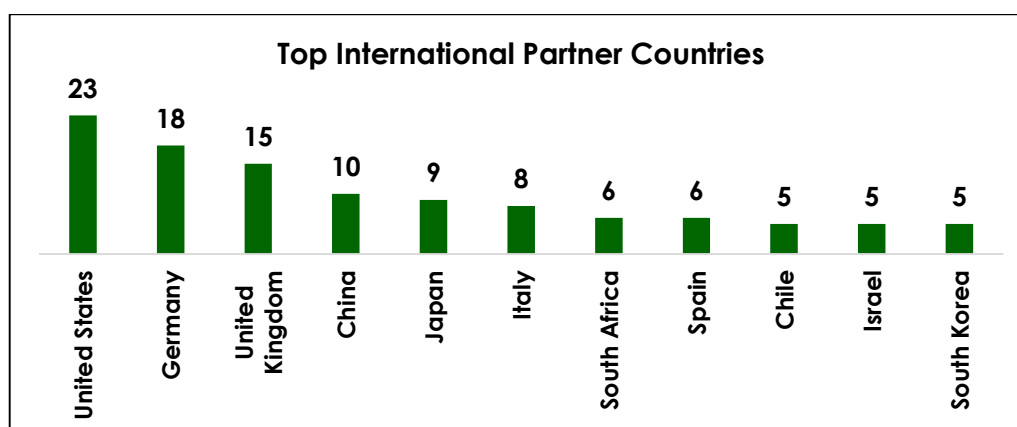
Of the 287 articles, 71 unique articles (24.74%) involve at least one internationally co-affiliated author(s), identified via non-Indian country strings in the Affiliations. Ten articles have authorship from more than one ISRO Centre/Unit along with internationally co-affiliated author(s). Among the ISRO Centres/Units with international co-authorship, PRL shows the highest international-collaboration rate, reflecting its role in large multi-national astrophysics consortia.



4. International Collaboration – Partner Countries

Of the 71 unique articles (81 country attributions), international collaboration is identified with 60 countries. The United States leads at 23 co-occurring articles, followed by Germany with 18 articles, United Kingdom with 15 articles and China with 10 articles. The other prominent countries contributing include Japan, Italy, South Africa, Spain, Chile, Israel and South Korea.

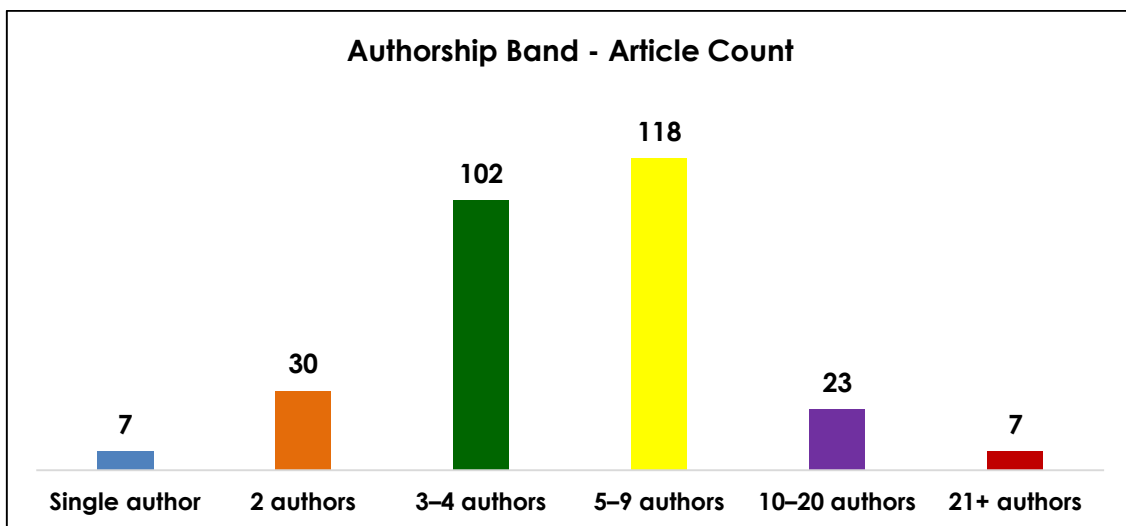
Country	No. of Articles
United States	23
Germany	18
United Kingdom	15
China	10
Japan	9
Italy	8
South Africa	6
Spain	6
Chile	5
Israel	5
South Korea	5



5. Author & Authorship Analysis - Distribution

Authorship	Articles	% of Total
Single author (1)	7	2.44
2 authors	30	10.45
3–4 authors	102	35.54
5–9 authors	118	41.11
10–20 authors	23	8.01
21+ authors	7	2.44
TOTAL	287	100.0%

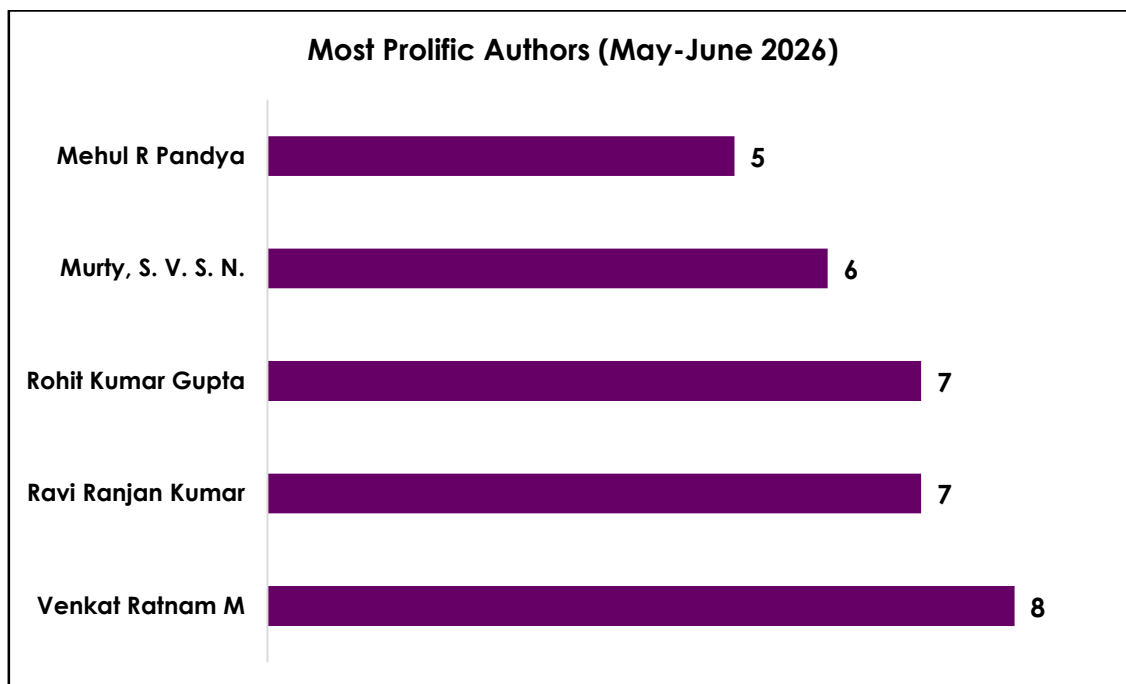
The 287 articles are contributed by a total of 1,410 unique authors with 1,670 author-instances. Of 287 articles, the vast majority (97.6%) involve multiple authors, with only 2.44% single-authored. Authorship is concentrated in mid-to-large teams – 3-4 authors account for 35.54% and 5-9 authors for 41.11%, together covering over three-quarters of articles. Larger collaborations (10+ authors) make up 10.45%, while very large teams (21+) mirror single authorship at just 2.44%.



6. Author & Authorship Analysis – Most Articles

	Author Name	No. of Articles
01	Rohit Kumar Gupta / Liquid Propulsion Systems Centre	8
02	T Narayana Rao / National Atmospheric Research Laboratory	5
03	Rashmi Sharma / Space Applications Centre	5
04	Dibyendu Chakrabarty / Physical Research Laboratory	4
05	Raj Kumar Choudhary / Space Physics Laboratory	4
06	Amit Kesarkar / National Atmospheric Research Laboratory	4
07	Prashant Kumar / Space Applications Centre	4
08	Niraj Nayan / Vikram Sarabhai Space Centre	4
09	Alok Taori / National Remote Sensing Centre	4

In all, 1410 unique authors contributed 287 articles with approximately five unique authors each article. Among 287 articles, ten authors have contributed four or more articles. Rohit Kumar Gupta (LPSC) leads with 8 articles. Two authors are tied at 5 articles each: T Narayana Rao (NARL) and Rashmi Sharma (SAC). Six authors have contributed four articles each.



7. Journal Landscape

182 Unique Journals	143 Journals with only 1 article	23 Journals with 2 articles	16 Journals with 3+ articles	37 Publishers
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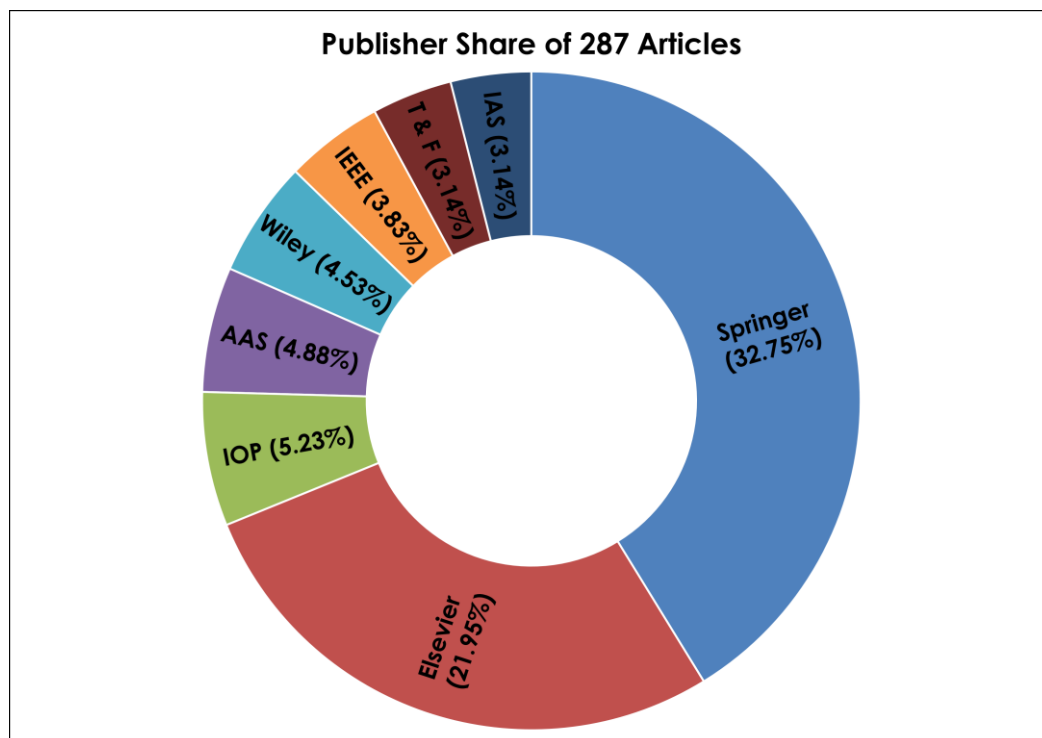
Journal Title	Publisher	Articles	% of Total
Astrophysical Journal	Institute of Physics	14	7.69
Journal of the Indian Society of Remote Sensing	Springer	13	7.14
Advances in Space Research	Elsevier	11	6.04
Current Science	Indian Academy of Sciences	9	4.95
Monthly Notices of the Royal Astronomical Society	Oxford University Press	7	3.85
Discover Geoscience	Springer	6	3.30
Journal of Materials Engineering and Performance	Springer	6	3.30
Scientific Reports	Nature Research/Springer	5	2.75

Of 182 unique journals, only 16 (5.57%) carry 3 or more articles - confirming high bibliographic diversity. The Astrophysical Journal leads at 14 articles (7.69%), followed by Journal of the Indian Society Remote Sensing (13 articles). Nine articles appear in an Indian journal “Current Science” published by Indian Academy of Sciences. 143 journals carry exactly one article confirming exceptionally broad interdisciplinary reach across ISRO's research output, and the corpus draws on 37 distinct publishers.

8. Publisher Analysis

Publisher (All Imprints)	Articles	% of Total 287	Unique Journals
Springer Nature	94	32.75%	52
Elsevier	63	21.95%	42
Institute of Physics	15	5.23%	10
American Astronomical Society	14	4.88%	5
John Wiley & Sons	13	4.53%	9
IEEE	11	3.83%	10
Indian Academy of Sciences	9	3.14%	1
Taylor and Francis	9	3.14%	6

37 unique publisher groups are represented across 287 articles. Springer Nature (94 articles, 32.75%) and Elsevier (63 articles, 21.95%) together hold 54.70% of the corpus. Institute of Physics ranks third (15 articles, 5.23%) a new top-tier entry driven by PRL's astrophysics output through the Astrophysical Journal family, followed by the American Astronomical Society (14 articles, 4.88%).



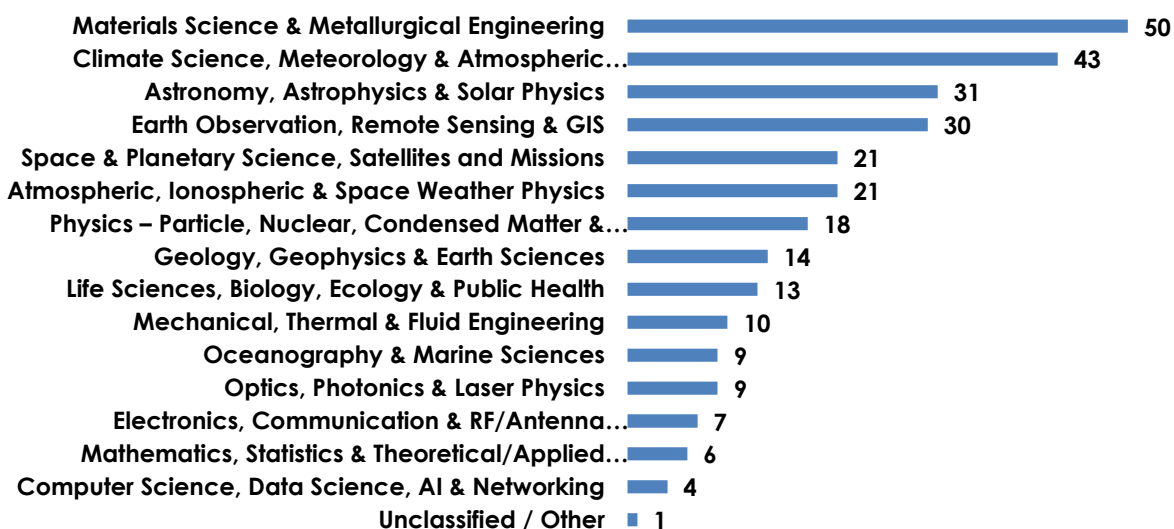
9. Research Domain Distribution

Articles are classified into 15 subject domains using rule-based keyword matching against journal title, article title and abstract; each article is assigned to a single dominant domain. Materials Science & Metallurgical Engineering and Climate Science, Meteorology & Atmospheric Composition leads with 50 and 43 articles each respectively. Astronomy, Astrophysics & Solar Physics (31 articles) is closely followed by Earth Observation, Remote Sensing & GIS (30 articles). The subject domain of Space & Planetary Science, Satellites and

Missions and Atmospheric, Ionospheric & Space Weather Physics have recorded 21 articles each.

Subject Domain	No. of Journals	Total Articles
Materials Science & Metallurgical Engineering	50	17.42
Climate Science, Meteorology & Atmospheric Composition	43	14.98
Astronomy, Astrophysics & Solar Physics	31	10.80
Earth Observation, Remote Sensing & GIS	30	10.45
Space & Planetary Science, Satellites and Missions	21	7.32
Atmospheric, Ionospheric & Space Weather Physics	21	7.32
Physics – Particle, Nuclear, Condensed Matter & Quantum Physics	18	6.27
Geology, Geophysics & Earth Sciences	14	4.88
Life Sciences, Biology, Ecology & Public Health	13	4.53
Mechanical, Thermal & Fluid Engineering	10	3.48
Oceanography & Marine Sciences	9	3.14
Optics, Photonics & Laser Physics	9	3.14
Electronics, Communication & RF/Antenna Engineering	7	2.44
Mathematics, Statistics & Theoretical/Applied Sciences	6	2.09
Computer Science, Data Science, AI & Networking	4	1.39
Unclassified / Other	1	0.35

Research Domain Distribution



10. Cross-Cutting Research Themes

Cross-cutting themes are identified by word-boundary pattern-matching across the Abstract and Author Keywords fields of all 287 articles; a single article may satisfy multiple themes, so counts do not sum to 287. Modelling & Simulation is the most prevalent theme, present in 129 articles (44.9%), followed by Indian Subcontinent Focus (98 articles, 34.1%). The spread of themes reflects the multi-disciplinary character of the corpus, spanning Earth observation, space weather, astrophysics, planetary science, and applied modelling/AI work - consistent with ISRO's dual role as a mission operator and a broad multi-disciplinary research sponsor.

Theme	Articles	% of 287
Modelling & Simulation	129	44.9%
Indian Subcontinent Focus	98	34.1%
Atmospheric & Climate Science	94	32.8%
Instrumentation & Sensor Design	46	16%
Space Weather & Solar-Terrestrial Physics	43	15%
Remote Sensing & Earth Observation	39	13.6%
Machine Learning & AI	35	12.2%
Astrophysics & Astronomy	33	11.5%
Data Analytics & Big Data	32	11.1%
Planetary & Lunar Science	24	8.4%
Ocean & Marine Studies	23	8%
Geospatial & GIS Analysis	15	5.2%

11. Novelty & First-of-Kind Claims

Pattern matching across titles and abstracts of 287 articles identifies 64 unique articles (22.3%) making explicit novelty or priority claims. The term 'we present' is most common, appearing 30 times, followed by 'novel' (adjective) (22). These are lexical signals of claimed novelty as written by the authors, not an independent editorial assessment of actual scientific originality.

Novelty Term Used	Occurrences
'we present'	30
'novel' (adjective)	22
'we propose'	10
'first time'	6
'for the first time'	6
'state-of-the-art'	5
'unprecedented'	1
'new approach' / 'new method'	1

12. Open Access Status

Of 287 articles, 107 (37.28%) carry an Open Access tag. Gold OA leads at 86 articles, followed by Green (40), Hybrid (11), and Bronze (4) - note that a single article can carry more than one OA-type tag simultaneously, so these do not sum to 107. 180 articles (62.72%) remain closed, paywalled, or lack OA metadata in this export. **An ISRO institutional OA mandate or APC fund would significantly improve discoverability of the 62.72% articles currently behind paywalls.**

12.1 Open Access Classification

OA Status	Articles	% of Total	What it means
Gold OA	86	30.0%	Immediately freely available on publication in a fully OA journal; APC paid by author or funder
Hybrid OA	11	3.8%	Published in a subscription journal; author paid APC to make this specific article open
Green OA	40	13.9%	Accepted manuscript self-archived in a repository (institutional/subject); journal version may be paywalled
Bronze OA	4	1.4%	Freely readable on publisher website but without a clear open licence (may be removed)
Closed / Paywalled	180	62.72%	No open access - readers need institutional subscription or pay-per-view
			Open articles (Gold+Hybrid+Green+Bronze) = 107 (37.28%) Closed (paywalled) = 180 (62.72%)

12.2 Publisher-Wise Classification of Open Access Articles

Publisher	Count	% of total
Springer Nature (combined)	31	29.0%
American Astronomical Society	14	13.1%
Institute of Physics	12	11.2%
Elsevier B.V.	8	7.5%
Oxford University Press	7	6.5%
American Physical Society	4	3.7%
EDP Sciences	4	3.7%
Institute of Electrical and Electronics Engineers Inc.	4	3.7%
Indian Academy of Sciences	3	2.8%
John Wiley and Sons Inc.	3	2.8%
Multidisciplinary Digital Publishing Institute (MDPI)	2	1.9%
15 Publishers with one article each	15	14.02%
Total	107	100%

13. Author Keywords Analysis

257 Articles with Keywords	30 No Keywords	1,366 Total KW Instances	1,237 Unique Keywords	5.3 Avg. KWs per Article
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Of 287 articles, 257 (89.5%) carry author-assigned keywords, yielding 1,366 keyword instances across 1,237 unique terms - a uniqueness rate of 90.6%. The 30 keyword-less articles are concentrated among journals that use controlled subject taxonomies instead of free-text author keywords (e.g., astrophysics journals using the AAS Unified Astronomy Thesaurus). Keyword richness across the corpus supports effective bibliometric clustering and thematic discovery.

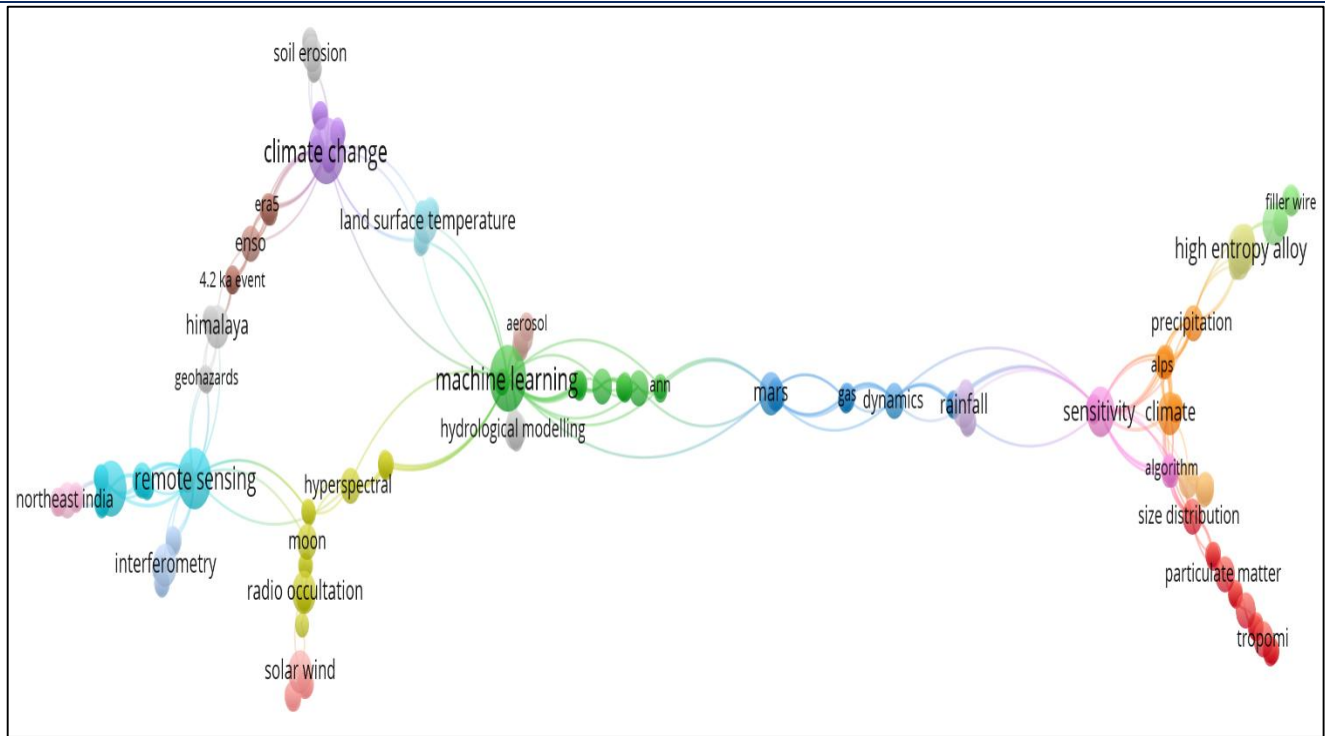
13.1 Keywords Per Article Distribution

No. of Keywords	No. of Articles	% of Articles
0	30	10.5%
1	4	1.4%
2	7	2.4%
3	14	4.9%
4	42	14.6%
5	89	31.0%
6	65	22.6%
7	15	5.2%
8	4	1.4%
9	4	1.4%
10	13	4.5%
11	0	0.0%
TOTAL	287	100.0%

13.2 Keyword Occurrences

Keyword	Occurrences
Machine learning	7
Climate change	7
Remote sensing	6
Deep Learning	5
Sensitivity	4
High entropy alloy	4

The top recurring author keywords across 257 keyworded articles are: Machine learning (7), Climate change (7), Remote sensing (6), Deep learning (5), Sensitivity (4) and High entropy alloy (4).



VosViewer software (a visualization tool) is used to create the co-occurrence network of 1237 unique keywords from the 287 articles.

14. ISRO Missions & Platform Coverage

ISRO Mission / Platform / Instrument	Articles Referencing It
Chandrayaan (lunar)	6
Oceansat / OCM	4
EOS series	4
Aditya-L1 (solar)	3
Cartosat	3
AstroSat	3
IRNSS / NavIC	2
Resourcesat	2
Mangalyaan / Mars Orbiter Mission (MOM)	1
RISAT	1
INSAT	1
XPoSat	1

29 unique articles (10.1% of 287) directly reference an ISRO mission, satellite, or instrument by name in the title or abstract, identified using word-boundary pattern-matching (an article may reference more than one mission). Chandrayaan (lunar) and Oceansat / OCM are among the most frequently cited platforms in this corpus, reflecting active lunar/planetary exploration alongside Earth-observation and solar-physics programmes.

15. Geographic Focus of Research

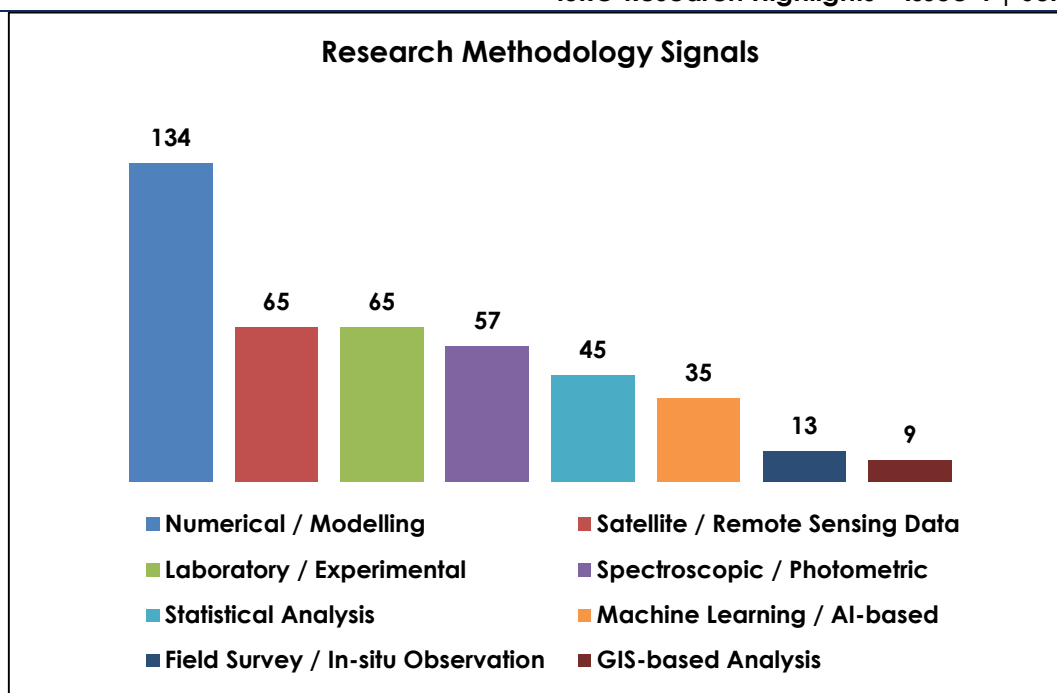
Geographic Region	Articles
India (general)	103
Himalaya / Hindu Kush region	23
Arabian Sea	11
Moon / Lunar surface	9
Mars / Martian surface	6
Gangetic Plain / Indo-Gangetic	5
Bay of Bengal	4
Antarctica / Polar	3
Africa	2
Bangladesh	2
Indian Ocean / Western Ghats / Southeast Asia / China	4 (one each)

131 articles (45.64%) mention at least one identifiable geographic region in title or abstract. India (general) is the most common at 103 articles, followed by Himalaya / Hindu Kush region (23) and Arabian Sea (11). Lunar and Martian references reflect the planetary-science slice of the corpus, while Himalaya and Bay-of-Bengal mentions track the Earth-observation and climate clusters.

16. Research Methodology Signals

Methodology signals are identified by pattern matching of titles and abstracts; a single article may satisfy multiple categories, so counts do not sum to 287. Numerical / Modelling is most prevalent at 134 articles (46.7%), followed by Satellite / Remote Sensing Data (65 articles, 22.6%). Spectroscopic/photometric methods reflect the sizeable astrophysics cluster in the corpus, while satellite/remote-sensing signals track the Earth-observation cluster.

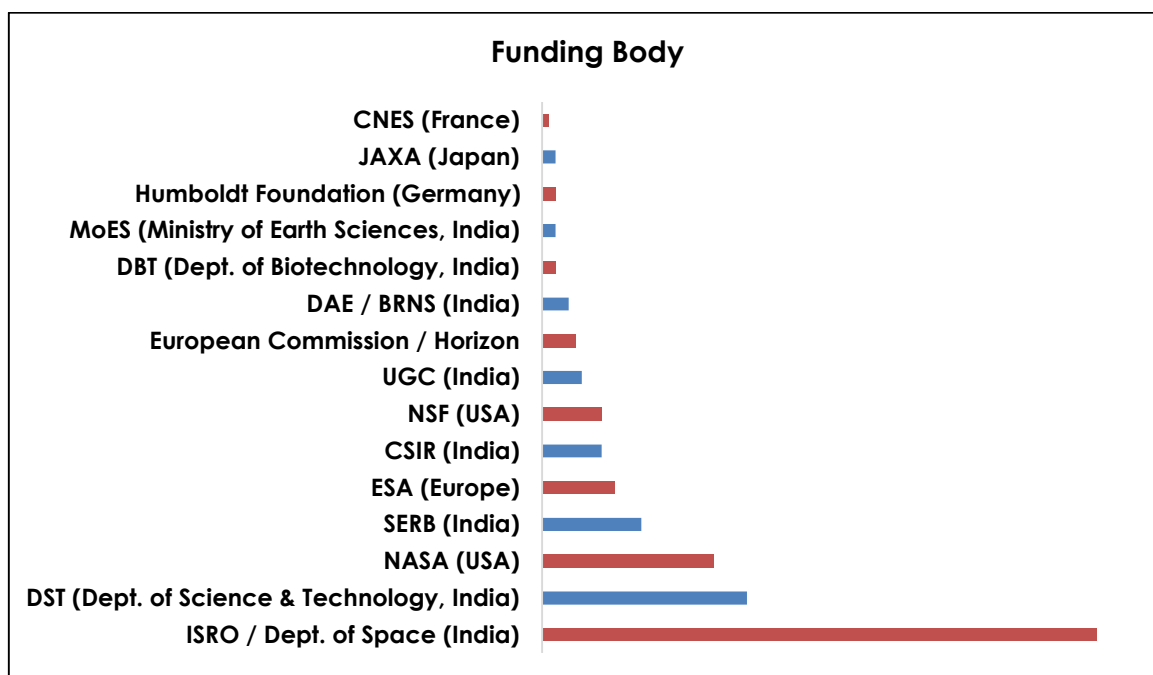
Methodology Signal	Articles	% of Corpus (287)
Numerical / Modelling	134	46.7%
Satellite / Remote Sensing Data	65	22.6%
Laboratory / Experimental	65	22.6%
Spectroscopic / Photometric	57	19.9%
Statistical Analysis	45	15.7%
Machine Learning / AI-based	35	12.2%
Field Survey / In-situ Observation	13	4.5%
GIS-based Analysis	9	3.1%



17. Funding Body Analysis

Of 287 articles in this corpus, 154 (53.7%) carry explicit funding-acknowledgement text; the remaining 133 articles (46.3%) provide no funding information. ISRO / Dept. of Space (India) leads with 84 articles (54.5% of funded articles, 29.3% of the full corpus), followed by DST (Dept. of Science & Technology, India) (31 articles) and NASA (USA) (26 articles). Funding bodies are identified by pattern-matching of known acronyms and full names in the funding text; a single article may acknowledge more than one funder.

Funding Body	Articles	% of Funded Articles (154)
ISRO / Dept. of Space (India)	84	54.5%
DST (Dept. of Science & Technology, India)	31	20.1%
NASA (USA)	26	16.9%
SERB (India)	15	9.7%
ESA (Europe)	11	7.1%
CSIR (India)	9	5.8%
NSF (USA)	9	5.8%
UGC (India)	6	3.9%
European Commission / Horizon	5	3.2%
DAE / BRNS (India)	4	2.6%
DBT (Dept. of Biotechnology, India)	2	1.3%
MoES (Ministry of Earth Sciences, India)	2	1.3%
Humboldt Foundation (Germany)	2	1.3%
JAXA (Japan)	2	1.3%
CNES (France)	1	0.6%



18. DOI Coverage & Data Quality

281 of 287 articles (97.9%) carry a valid DOI. 30 articles (10.5%) are missing author-assigned keywords - this is a systematic artefact of journal practice in some disciplines (e.g., AAS Unified Astronomy Thesaurus subject tags are not indexed as author keywords by Scopus for astrophysics journals) rather than a data-entry gap.

19. Notable Article Spotlights

The following articles are highlighted as representative or noteworthy examples from the corpus, selected on citation impact, ISRO-mission linkage, explicit novelty claims, collaboration scale, and planetary-science relevance.

★ MOST CITED ARTICLE

Multifunctional Polyimide/Carbon Nanofiber Composite Aerogels for Electromagnetic Interference Shielding, Thermal Insulation, and Joule Heating

Chellan, Sasila; Rajeev, Rajvihar Sivaraman Nair; Joseph, Kuruvilla

ACS APPLIED NANO MATERIALS, 2026 | Cited by: 6 | DOI: 10.1021/acsanm.6c03424

The rapid development of electronic devices has increased demand for lightweight, multifunctional shielding materials. In this work, a polyimide-based composite aerogel incorporating oxygen-functionalized/acidified carbon nanofibers (CNFs) was successfully fabricated via freeze-drying followed by thermal imidization. The obtained composite aerogels exhibited effective EMI shielding effectiveness o...

★ TOP ISRO MISSION-LINKED ARTICLE

AstroSat: a decade of frontline astronomy

Singh, Kulinder Pal; Seetha, S. | CURRENT SCIENCE, 2026 | Cited by: 1 | DOI: 10.18520/cs/v131/i4/334-338

India's first dedicated multi-wavelength space observatory, AstroSat, completed a decade in orbit on 28 September 2025. Over the past ten years, it has demonstrated the country's capability to design, build, and operate an advanced space astronomy observatory. Observations carried out by the astronomy community in India and abroad have established AstroSat as a powerful platform for frontier resea...

★ TOP NOVELTY-CLAIM ARTICLE

Scalable landslide detection in complex Himalayan topography via a novel object-based residual graph attention network

Gui B.; Bhardwaj A.; Sam L.; Sam B.C.; Ahmed R.; Ali S.N.; Pandey P.; Vatsal S.; Martin-Torres J.
| Geoscience Frontiers, 2026 | Cited by: 1 | DOI: 10.1016/j.gsf.2026.102401

High-mountain environments are some of the most fragile and difficult environments to manage. The local communities are always under stress due to lack of sufficient land resources for their sustenance and frequent occurrences of landslides further complicate the situation. Landslide detection in high-mountains is increasingly critical as climate-induced deglaciation, permafrost thaw, and shifting...

★ NOTABLE PLANETARY/LUNAR SCIENCE ARTICLE

A Comparative Study on the Predictive Ability of Machine Learning Techniques for Spatial Mapping of Soil Properties in Indian Himalayan Region

Das P.; Kumar S.; Kalambukattu J.G.; Ahmad T.
Journal of Agricultural, Biological, and Environmental Statistics, 2026 | Cited by: 2 | DOI: 10.1007/s13253-025-00685-7

Digital soil mapping (DSM) has emerged as a powerful tool for predicting soil properties and classes across large geographical areas, aiding in sustainable land management and environmental planning. In this study, we explore the application of various machine learning (ML) models and compared their predictive ability for digital mapping of soil properties in a hilly watershed located in the India...

Disclaimer:

“ISRO Research Highlights” compiles bibliometric data extracted from Scopus and Web of Science databases. For the present issue the data is extracted on 17th July 2026 for the journal articles indexed during 16th May 2026 to 17th July 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

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**LIST OF ARTICLES PUBLISHED BY DOS/ISRO CENTRES/UNITS INDEXED IN SCOPUS AND WEB OF SCIENCE DATABASES
DURING 18th JULY 2026 - 15th SEPTEMBER 2026**

Sl. No.	Title of the Article	Author(s) from ISRO Centre/Unit
1	A Comparative Study on the Predictive Ability of Machine Learning Techniques for Spatial Mapping of Soil Properties in Indian Himalayan Region	IIRS
2	A complex network approach to characterize clustering of events in irregular time series	NARL
3	A Contrasting TEC Behavior Over the Low-Latitude Post-Midnight Sector During Recovery Phases of May and October 2024 Storms: Possible Role of PPEF, DDEF, and O/N2	PRL
4	A coupled vortex-thermal ballistic model for real-time trajectory simulation in VR-based soldier training	IIST
5	A dataset and deep learning framework for building object segmentation from high resolution Cartosat-2S satellite images	NRSC
6	A deep learning-enabled, scalable, model-agnostic two-stage framework for joint integrity assessment using lamb waves in bolted lap joints	IIST
7	A geo-spatial assessment of desert locust risk over India during summer 2020 using GEO-LEO satellite observations and weather forecast	SAC
8	A model of random walks on complex networks for earthquakes and aftershocks	PRL
9	A multiscale thermo-viscoelastic-viscoplastic damage framework for unidirectional fibre-reinforced composites	VSSC
10	A multi-wavelength study of nearby starburst galaxy M 82	PRL
11	A national-scale sandy beach dataset for India derived from high-resolution satellite imagery and deep learning	NRSC
12	A New Approach to Estimate Ocean Surface Velocity from High-Resolution Surface Water and Ocean Topography (SWOT) Data	SAC
13	A Novel Pseudo-Self-Complementary Structure for Broadband Reflectarray Antenna in X-Band	IIST
14	A Partial Lyman Limit Absorber in the Halo of a Galaxy Pair: A Possible Signature of Gas Inflow	IIST
15	A quiet host in an active planet-forming disk: Optical spectroscopy of WISPIT 2	PRL
16	A review of chronology and processes in the evolution of the Thar Dune field in India: Implications for land-sea correlations	PRL

17	A Split-Window Algorithm for Retrieving Land Surface Temperature from INSAT-3DS Imager Observations	SAC
18	A study on the contribution of the interplanetary medium in radio occultation experiments	VSSC; ISTRAC
19	A Terrain-Corrected Dynamic NDSI Framework Integrating C-Correction and Adaptive Thresholding for Improved Snow Cover Mapping in the Himalayas	SAC
20	A theoretical evaluation of cyclostrophic balance in the Venusian atmosphere using the Venus Planetary Climate Model	VSSC; IIST
21	A multi-wavelength study of nearby starburst galaxy M 82	PRL
22	Accuracy Improvement in GPS 3-D Localization of a Reference Object as Calibrator on Dynamic Platform	ISTRAC
23	Aerosol vertical variability and regional classification over India's agroclimatic zones from space-based LiDAR satellite	SAC
24	Ag I model atom and the 3D non-LTE solar silver abundance	PRL
25	Alpine plant diversity and functional adaptations across elevational and microclimatic gradients in the Kumaun Himalaya	SAC
26	An analysis of the flow pattern of EICC during the positive Indian Ocean dipole events	SAC
27	AN ANALYSIS OF YOLO VARIANTS FOR EFFECTIVE CLASSIFICATION AND DETECTION OF INDIVIDUAL PALM TREES IN UAV IMAGERY	IIRS
28	An investigation of the global responses of the thermal field of the MLT region to the 'Severe' geomagnetic storm of 10–11 October 2024	NRSC
29	An optimized deep learning based segmentation framework for land-use mapping from Cartosat-2S satellite images	NRSC
30	Analysis of landslide process in parts of basaltic terrain in Western Ghats, India using remote sensing, electrical resistivity tomography and flow modeling	NRSC
31	Anisotropic Proton Heating by Kinetic Instabilities in Corotating Interaction Regions	VSSC
32	Anomalous Dawn-Side O plus Density Enhancement in the Martian Ionosphere: MAVEN Observations and Photochemical Modeling	NARL
33	Anopheles maculatus s.l as potential malaria vectors with opportunistic feeding in Meghalaya, Northeast India	NESAC
34	Application of soil moisture probe in optimizing the parameters of a land surface model	NRSC
35	Appraisal of Soil Hydraulic Properties and Models Derived Using Pedotransfer Functions Over the Gadanki Region, India	NARL; IIST

36	Assessing Urban Water Balance Dynamics: A Hydrological Modelling Approach Incorporating Vegetation-Impervious Surface-Soil (V-I-S) Fractions	IIRS
37	Assessment of atmospheric black carbon measurement techniques and their influence on radiative forcing estimates	PRL
38	Assessment of current and projected runoff in the Sabarmati river basin using CMIP6 climate projections and hydrological modelling	SAC
39	Assessment of DSDs obtained from Micro Rain Radar with UHF/VHF profilers	NARL
40	Assessment of responsiveness of water balance components to soil parameters characterized in variable infiltration capacity model	NRSC
41	Assessment of <i>Saccharomyces cerevisiae</i> Survival Upon Exposure to Transient High Pressure and Temperature in a High-Intensity Shock Tube for Astrobiology (HISTA)	PRL
42	Assessment of unsupervised and supervised classification methods for crop mapping across agro-climatic gradients using AVIRIS-NG hyperspectral data	SAC
43	Astrometric Calibration of the 4 m International Liquid Mirror Telescope Observations	PRL; ISTRAC
44	AstroSat: a decade of frontline astronomy	URSC
45	Atmospheric oscillations drive winter aerosol variability over the Indo-Gangetic Plain	VSSC
46	Attitude Control of Small Satellites using Hybrid Actuator Systems	VSSC
47	Automated Natural Disaster Monitoring from Online News & Social Media Posts Using Sentiment Analysis & GIS	NRSC
48	Autonomous Small Satellite Trajectory Correction under Third Body Perturbation using Pseudo-Spectral Method	IIST
49	Boron nitride -molybdenum disulfide nanocomposite as electrochemical sensor for the nanomolar level detection of synthetic dye–sunset yellow in soft drinks	IIST
50	Can CO ₂ outgassing and carbonate precipitation explain the Lomagundi Excursion?	PRL
51	Capturing the invisible: hyperlocal variability of size-resolved particulate matter in a smart city	NARL; PRL
52	Carbon Aerogel Derived from Waste Biomass as a High-Performance Counter Electrode in Natural Dye-Sensitized Solar Cells	NARL
53	Catalyst-assisted CVD-grown monoclinic β -Ga ₂ O ₃ nanowires on c-plane sapphire for symmetrically balanced solar-blind deep-UV photodetectors	LEOS
54	Catchment–Wetland Associations Based on Multiscale Landscape Structure and Hydro-Ecological Indicators at Bakhira Ramsar Site, India	SAC

55	Charge readout electronics for the DUNE horizontal drift far detector: design and performance in ProtoDUNE-HD	PRL
56	Climate change drivers of harmful algal blooms in marine and coastal ecosystems	SAC
57	Climatic drivers of the 2024 malaria outbreak in two neighbouring districts in northeastern India and its corridor: The indirect role of El Niño	NESAC
58	Coastal line-of-sight deformation and relative sea level rise in Kochi, South India: Insights from PS-InSAR, tide gauge, and satellite altimetry analyses	IIST
59	Co-existence of two distinct cloud regimes over the East Arabian Sea and adjoining west coast of India during the summer monsoon season	VSSC
60	Comparative Analysis of Ellerman and Quiet Sun Ellerman Bombs in the Solar Atmosphere	PRL
61	Comparison of ERA5 reanalysis and NCEP GDAS analysis simulated brightness temperature against CrIS hyperspectral infrared sounder observation: A case study for tropical cyclone remal	SAC
62	Complexly zoned clinopyroxenes and amphiboles from the end-Cretaceous alkaline lamprophyres of the Nir-Wandh igneous complex, Northwestern Deccan Traps, India: Insights into trans-lithospheric magmatic plumbing system processes	PRL
63	Composition-dependent anisotropic electrical transport and thermoelectric characteristics of $\text{Cu}_x\text{Sn}_{1-x}\text{Se}$ alloy crystals	SDSC
64	Comprehensive evaluation of Aeolus wind measurements against in situ observations and reanalysis datasets over the Indian monsoon region	NARL
65	Controllability of a class of nonlinear networked systems	IIST
66	Controlling Ceramic Composition Using Precursor Chemistry: A Study on Borosiloxane Derived SiBOC Ceramics	VSSC
67	Convolution neural network-based estimation of high-resolution urban canopy parameters for urban climate modelling	IIRS
68	Cost-effective two-step synthesis of 2D MoS ₂ nanosheets for high-performance hydrogen sensing	IIST
69	Coupling of N ₂ Fixation and Denitrification and Their Spatial Extent in the Arabian Sea Over the Last Glacial-Interglacial Period	PRL
70	Critical dynamics of the superfluid phase transition in model F	PRL
71	Crosstalk reduction and improved sensitivity in a holographic modal wavefront sensor	IIST
72	Debris variability and velocity estimation using Electrical Resistivity Tomography and DInSAR techniques of Durung Drung glacier, northwestern Himalaya	IIRS; SAC

73	Decoupling the Aging Response in Precipitation-Hardenable XH55MBtO Superalloy: An Insight into the Microstructural Evolution and Mechanical Response (77 K to 900 K)	LPSC
74	Deep Learning Based Solar Power Plants Extraction Using IRS Data	SAC
75	Defect-Engineered Interleaved In ₂ O ₃ -CuO Heterojunctions for Light-Assisted Selective Methane Detection: Impact of Vacancy Density and LED Wavelength	IIST; SAC
76	Depth-stratified microplastic pollution in the Arabian Sea: Abundance, composition, and transport mechanisms	SAC
77	Descriptive epidemiology and spatial dynamics of scrub typhus across targeted districts in Madhya Pradesh, India: a pilot study	MCF; SAC
78	Design and Implementation of a Tri-band NavIC Antenna with a Novel Tri-Band Choke Ring Ground-Plane for Multipath Mitigation Application in the NavIC Ground Segment	ISTRAC
79	Development and experimental study of a flexible heat pipe with aluminium–stainless steel transition joint for spacecraft thermal management	URSC
80	Development and validation of a pneumatic metrology mount for spaceborne mirrors	LEOS
81	Development, qualification, and computational modelling of nano-silica-reinforced woven glass/epoxy composite repairs for damaged pipelines	VSSC
82	DHARA: Data handling and automated reduction pipeline for AIMPOL	PRL
83	Direct Optical Evidence of Late-stage Infall in AB Aurigae: A Stagnant [OI] Reservoir and a Crushed Magnetosphere	PRL
84	Discovery of a Candidate 2 keV Cyclotron Resonance Scattering Feature in the HLX NGC 3583 X-1	URSC
85	Discovery of Weak O VI Absorption in Underdense Regions of the Low-redshift Intergalactic Medium	IIST
86	Distinct altitude-dependent responses of the ionospheric F-region during quiet-time TEC deviations over the EIA crest	PRL
87	Diurnal variation of the tropical tropopause and its impact on dehydration of air entering into the stratosphere	NARL
88	Diurnal, seasonal, annual variability and transport pathways in black carbon concentration over Himadri station, Arctic, using multiyear in-situ measurements and MERRA-2 data	NARL; NRSC
89	Dual electrolyte plasma electrolytic oxidation coatings on Ti6Al4V for enhanced flat absorber properties in astronomical and scientific space missions	URSC; LPSC
90	Dust Aerosol Detection Over Ocean From EOS-06/OCM-3 Multispectral Measurements	VSSC
91	Effect of NCO index on the physico-mechanical properties of Poly(urethane-urea) foams using amine based polyol and non-amine based polyol	VSSC

92	Effects of Filler Wire Composition on Weld Integrity: A Study on 18Ni Maraging Steel Weldments for Rocket Motor Casing	VSSC
93	Effects of nozzle configuration and scaling on hysteresis and unsteadiness in confined supersonic jets	IIST; VSSC
94	Electrical resistivity tomography reveals groundwater potential around Lonar Crater, India, in semi-arid basalt terrain	NRSC
95	Electromagnetic momentum in the Aharonov–Bohm quantum interference experiment from a physical perspective	PRL
96	Electron transport properties of A β -42/HOPG junctions investigated by tunneling spectroscopy	IIST
97	Enhanced summer monsoon rainfall over the Godavari Basin during the recent global warming era	NRSC
98	Ensemble Empirical Mode Decomposition for Detecting Inter-Annual Vegetation Variability and Trends from Remote Sensing Data	NRSC
99	Environmental and edaphic drivers of taxonomic and phylogenetic beta-diversity in Kashmir Himalayan alpine vegetation	IIRS
100	Environmentally sustainable extraction and recovery of rare earth elements from alkali-activated carbonatite using dual water and acid leaching and clay adsorption	PRL
101	Equatorial Plasma Bubble Irregularity Layer Reconstruction Using L-Band Intensity Scintillation Data	NARL
102	Estimation of Eddy Dissipation Rate in a Common Volume of X-Band Dual-Polarization DWR and MST Radar in Different Types of Precipitation	NARL
103	Evaluating SWOT Capabilities for Spatiotemporal River Discharge Estimation over the Ganga River in Northern India	SAC
104	Evaluation of toxic metal contamination and source allocation in agricultural soils of Chhattisgarh, India: multivariate and artificial network approaches	PRL
105	Even Denominator Fractional Quantum Hall States in the Zeroth Landau Level of ABA Trilayer Graphene	PRL
106	Evidence for Solar Cycle Modulation of the Alpha-to-Proton Temperature Ratio in Solar Wind	PRL
107	Evolution of Starless Cores in Massive Clumps Seen by the ALMA ASHES and QUARKS Surveys	PRL
108	Expanded mixed virtual element methods for the sobolev equation with a convection term	IIST
109	Exploring Low-Energy Density Regimes in Laser Powder Bed Fusion of CuCrZr Alloy: Effects on Densification, Heat Treatment, and Mechanical Properties	IIST; LPSC
110	Findings over 3 years of life test on Rubidium bulbs of the indigenous Rubidium Atomic Frequency Standard (iRAFS)	SAC

111	Fine-Scale Urban Heat Island Assessment with EOS-8 Thermal Imagery: Insights from Delhi and Pune	NRSC
112	First Detailed Temporal Characterization of Equatorial Plasma Irregularities Using MultiBaseline Spaced Receiver Scintillation Measurements From Geostationary Satellites	VSSC; SAC
113	Flavour hierarchies from radiative corrections in latticised theory space	PRL
114	Formation and Eruption of Filament Channel in Solar Active Region 12975: Insights from Observations and Simulations of Magnetic Field Evolution	PRL
115	From filaments to the hub: Gas kinematics and massive star formation in G329.34+0.14	PRL
116	Fundamental Investigation of Gaseous Film Cooling Through a Slot Injection in Supersonic Crossflow	IPRC
117	GENERALIZED NUMERICAL RADIUS INEQUALITIES FOR CERTAIN OPERATOR MATRICES	PRL
118	Geospatial assessment of soil erosion in the Kamlang River watershed using the RUSLE framework	NESAC
119	GIS-based multi-criteria landslide susceptibility assessment in the Northwestern Himalaya, Jammu and Kashmir, India	NRSC
120	Green Synthesis of Reduced Graphene Oxide Using Neem (<i>Azadirachta indica</i>) Leaf Extract for Efficient Removal of Heavy Metals and Dyes from Industrial Wastewater	IIST
121	Harnessing the potential of Sentinel-1 SAR data for flood inundation mapping	IIRS
122	Heat transfer characteristics of a confined convection system in presence of a cylindrical heat source	IIST
123	High harmonic generation driven by complex two-color laser fields with variable relative polarization	PRL
124	High temperature oxidation behaviour of XH67 superalloy in different environments	VSSC
125	Identification and mitigation of antioxidant induced rheological and ballistic anomalies in composite solid propellant processing and performance	SDSC
126	Impact of easterly waves during an exceptional heavy rainfall event over the southeast peninsular India region: A numerical case study of December 2023	NARL
127	Impact of infrared heating/cooling-induced perturbation on vertical velocity within stratiform clouds: Southwest monsoon Vs Northeast monsoon	NARL; IIST
128	Impact of ROMEX Radio Occultation bending angle assimilation on mesoscale weather prediction over the Indian Region	SAC
129	Impact of urbanization on precipitating systems and rain microphysics across the Hyderabad Urban Sprawl, India	NARL

130	Impact of X-Rays (0.5Å–90Å) During GDS 2018 on the Production Rates of H ₂ O ⁺ , HDO ⁺ and Electron Density in the D Region Ionosphere of Mars: First Ionospheric Modeling Based on ACS/MIR-NIR Observations From ExoMars/TGO	PRL
131	Implications of a portal vectorlike lepton on associated Higgs boson production at a multi-TeV muon collider	PRL
132	Impurity localization, and collision properties of symbiotic dark–bright solitons in superfluid-impurity system	IIST
133	Inclusive hadroproduction of χ_{c1} (3872), X _b and pentaquarks	PRL
134	Influence of tides and gravity waves on the E-valley-F region irregularities	NARL
135	In-Orbit Reprogramming for Small Satellites: A Flight Demonstration Using a Single Board Computer	IIST
136	Integrating geomorphic indices with patterns of tectonic influence in the Mandakini river basin	SAC
137	Integrating SWAT and machine learning for streamflow simulation and runoff sensitivity in the Tawi watershed	IIRS
138	Investigating the meteorological and aerosol influences on microphysical properties of warm and mixed-phase clouds: A machine learning framework	NARL
139	Investigations on SS304-Cu Bimetallic Joint Realized through Cold Metal Transfer-Based Wire Arc Additive Manufacturing	VSSC; IIST
140	Isotopic investigations on identification of atmospheric moisture origins and evaluation of runoff source contributions to the Upper Beas River Basin in the western Himalayas	IIRS
141	Label-Free Electrochemical Detection of Mucin in Urinary Extracellular Vesicles to Monitor High-Altitude Hypoxia Adaptation	IIST; HSFC
142	Lagrangian reconstruction of fine-grid sea surface salinity from SMAP and altimetry in the Bay of Bengal	SAC
143	Learning feature-wise temporal-spatial gating with Kolmogorov-Arnold networks for EEG seizure detection	IIST
144	Lightning detection over the Indo-Gangetic Plain using machine learning	NRSC
145	Linking Derivative Absorption Spectra and HPLC Pigments to Satellite Observations for Phytoplankton Typing in Coastal India	SAC
146	Long Range Transport of the Hayli Gubbi Volcanic Plume Over the Indian Subcontinent	IIRS
147	Long-term CERES-Maize simulations for optimising maize sowing, irrigation, phenology and yield in southern Telangana	NRSC
148	Long-term seasonal variations of atmospheric CO ₂ against meteorology and fossil fuel emissions at suburban site of India (Shadnagar)	NRSC

149	Lunar subsurface charging: GCR and SEP effects	PRL
150	Machine Learning-based Identification of the Solar Disk and Plages in Kodaikanal Solar Observatory Historical Suncharts	IIST
151	Magneto-transport characteristics of $\text{La}_{0.5}\text{Ca}_x\text{Sr}_{0.4-x}\text{Ag}_{0.1}\text{MnO}_3$ ($x = 0.1-0.4$) manganite nanoarchitectonics	SDSC
152	Mapping bamboo land cover in Mizoram, India using integrated high-resolution satellite data and deep learning	NRSC
153	Mapping the Spectral Diversity of Lunar Swirls Using Chandrayaan-1 M3 Hyperspectral Images	PRL
154	Mechanical characterization of 18% Ni maraging steel welds produced by cold wire and hot wire gas tungsten arc welding	VSSC
155	Metallurgical analysis on failed dissimilar braze joint of liquid rocket engine; [Metallurgische Untersuchung einer defekten Lötverschweißung an einem Flüssigkeitsraketenantriebwerk]	LPSC
156	Metallurgical Investigation of Failure in a TIG-Welded AISI 304L Plumbing Tube Used in a LOX Tank Pressurization Module	LPSC
157	Meteor Radar Observations of Quasi-16-Day Waves in the Mesosphere Lower Thermosphere Over the Low and Equatorial Latitudes	VSSC
158	Metric Type II Radio Emission Associated with Coronal Mass Ejections of Large Angular Widths: Some New Insights	PRL
159	Micro damage measurement of active ring resonator optics using digital holographic microscopy	VSSC; IIST
160	Microstructural characterization and mechanical properties of electron beam and tungsten inert gas welded AA2219 forgings with large grain size	VSSC
161	Microstructural engineering of swaged FeMnCoCr high entropy alloy for optimum strength-fracture toughness combination	VSSC
162	Microstructural, Micromechanical and Corrosion Studies of Anodic Coating on AA2014 and AA6351 Aluminum Alloy for Spacecraft Applications	URSC
163	MIGHTI Observations of Thermospheric O(1D) Dayglow Emission and Its Comparison With the GLOW and WINDII Empirical Models	PRL
164	Minimum-redundancy linear optical phased arrays for fixed-wavelength 2D beam steering with enhanced grating-lobe suppression	IIST
165	Modeling and Analysis of Energy-Harvesting Devices with Temporal Inactivity: A Markov Fluid Queue Approach for Cost-Optimal Battery Sizing	IIST
166	Modelling Climate Driven Potential Distributional Changes in <i>Tidestromia oblongifolia</i> : Implications for the World's Most Heat-Tolerant Species	NRSC

167	Morphological characteristics of inter-hemispheric field aligned currents from the Indian sector – based on observations from ground magnetometers and Swarm mission	VSSC
168	Multifractal analysis of combustion dynamics and blowout precursors in a turbulent combustor	IPRC
169	Multifunctional Polyimide/CarbonNanofiber CompositeAerogels for Electromagnetic Interference Shielding, Thermal Insulation,and Joule Heating	IIST; VSSC
170	Multiscale mechanistic insights into martensitic transformation and fracture behaviour in a metastable FeMnCoCr high entropy alloy	VSSC
171	Multistage sedimentary-metamorphic-hydrothermal evolution of the Shivrajpur manganese deposits, Champaner Group, Aravalli Supergroup, western India	PRL
172	Multi-thermal dynamics and transverse oscillations of solar spicules revealed by coordinated SST, IRIS, and SDO observations	PRL
173	Multiwavelength diagnostics of pre-flare evolution with Aditya-L1: from the solar chromosphere to the corona	PRL; URSC; IIST
174	Nickel manganese hydroxysulfide nanosheet-based advanced electrodes for all-solid-state asymmetric supercapacitors	VSSC
175	Nondetection of HC(S)SH: Estimating Upper Limits and Constraining Chemistry	PRL
176	North Atlantic linkage to hydroclimatic weakening in the NW Himalaya during the 4.2 ka event	PRL
177	Numerical and experimental investigation on the flow-rate stabilization features of a novel flow control valve design for variable-thrust spacecraft engine	LPSC
178	Observations on phytoplankton bloom dynamics during winter monsoon in Arabian Sea: a comparative analysis using Oceansat-3 OCM and MODIS Aqua Satellite data	SAC
179	Observing Ocean Conditions: Prior and Post Cyclone 'Tauktae' Using Satellite and In-situ Data	SAC
180	On the Arrival of the Space Weather Event of May 2024 at Mars and its Impact on the Martian Ionosphere	VSSC
181	On the deformation and fracture behavior of a FeMnCrNiSi high entropy alloy in the presence and absence of sigma phase	VSSC
182	One year of ASPEX-SWIS operation: characteristic features, observations and science potential	PRL
183	Onsite electrochemical sensor: An amine functionalized dual-metal MOF enabling ultrasensitive epinephrine detection	IIST
184	Opening up new parameter space for sterile neutrino dark matter	PRL
185	Optimal Control of Non-instantaneous Impulsive Stochastic Benjamin–Bona–Mahony Equation	IIST

186	Optimization of Groove Geometry for Repair of Inconel 625 Components by Laser Directed Energy Deposition	VSSC
187	Optimization of Hot Workability, Microstructure Control, and Tensile Performance in XH55 (55Ni-17Cr-12Fe-9Mo-2Nb-1.5Al) Superalloy: An Approach Using Processing Map and Constitutive Equation	LPSC
188	Optimizing chemical polishing for fused silica optics	VSSC
189	Phase evolution and kinetics of MoAlB phase alloy in pressure-less sintering	LPSC; URSC
190	Photometric and late-time spectropolarimetric observations of GRB 250129A afterglow	IIST; URSC
191	Physics-guided machine learning framework for smartphone GNSS multipath detection under real-world class imbalance conditions	SAC
192	Pixel-resolved thermography for simultaneous temperature and heat-flux mapping in single and parallel microchannel heat sinks	URSC
193	Planetary surface located ground station antenna look angles computation for tracking of spacecraft, Sun, Moon, planet, and star objects	ISTRAC
194	Plasma Turbulence in the Lunar Environment Across Solar Wind and Magnetotail Conditions: Observations From Chandrayaan-2 Radio Science Experiment	VSSC; ISTRAC
195	Plastic Waste-Upcycled Nanoporous Carbon-MoS ₂ Composite for High-Performance Supercapacitor Electrode-Enriched Pseudocapacitive Behavior via Interfacial Bonds	IIST
196	Plunger to bobbin sliding clearance mediated frictional forces and its attenuation using PTFE made anti-friction rings in a plunger type solenoid valve for aerospace application	LPSC
197	Polarization-Independent Dichroic Beam Splitter Using All-Dielectric Metasurface at Near-Infrared Wavelength	SAC
198	Precise Prediction of Optimized Process Parameters of Electroless Nickel Plating on Metallic Components of Satellite Launch Vehicles by Energy-Dispersive X-ray Fluorescence Method	VSSC
199	Predictive modelling of soil organic carbon, carbon stocks, and fractions across elevation gradients in the dry-temperate region of North-West Himalaya	IIRS
200	Preliminary Investigation of Deformation caused by 2025 Mw 7.1 Tibet earthquake using InSAR measurements	NESAC
201	Priority-Index Based Policies for Minimizing Average Aol in Multi-Hop Network Convergecast with Complete Interference and Link Losses	IIST
202	Probing eigenstate thermalization in the weakly interacting Holstein polaron model	IIST
203	Probing the Magnetic Activity of GJ 398 through TESS Flare Detection and uGMRT Radio Observations	IIST
204	Prolonged suppression and rapid shrinking of equatorial plasma bubbles during the 19–20 January 2026 geomagnetic storm: evidences from Indian sector	NRSC

205	Propagation characteristics of the April 21, 2023 CME	PRL
206	Provenance-landscape-climatic constraints on the clay mineral record of the Great Rann of Kachchh Basin, Western India	PRL
207	PSRDISP: A novel approach to modeling dispersive processes in single-pulsar noise analysis using epoch-wise dispersion measures	PRL
208	Quantitative validation of ICESat-2 ATL24 in shallow marine environments using reference-grade bathymetric data	NRSC
209	Quantum random number generation using spatial quantum noise of light	IIST
210	Radial Evolution of Effective Polytropic Index in Stream Interaction Regions from PSP to MAVEN	VSSC
211	Rainfall and Its Stable Isotopic Composition Variability over Nagpur, India: Possible Controlling Processes During Southwest Monsoon 2022	PRL
212	Reactivation dynamics of the Kuwari landslide (Uttarakhand, India) and assessment of LLOF hazard using optical imagery, MT-InSAR and hydrodynamic modelling	NRSC
213	Realising the standard quantum limit uniformly through intensity measurements on spin coherent light	IIST
214	Real-Time Detection of Anomalies in NavIC On-Board Clock Using Carrier Phase Measurement	URSC
215	Recent developments and current status of keyhole TIG welding: A comprehensive review	VSSC
216	Reconstruction of atmospheric neutrinos in DUNE's horizontal-drift far-detector module	PRL
217	Regional bio-mobility of bovines during the Harappan period: Evidence from stable C–O–Sr isotopes of faunal bioapatite at Kanmer and Tigrana	PRL
218	Repeatability and Reproducibility in Microstructural and Mechanical Properties of Laser Powder Fusion Processed Inconel 718	IIST; LPSC
219	Response of the Brewer-Dobson Circulation to abrupt CO ₂ quadrupling in MRI ESM 2.0: signatures of greenhouse gas increase in Aura-MLS measurements and ERA5 reanalysis	VSSC
220	Retrieval of crop biophysical and biochemical traits using airborne hyperspectral observations and inversion of radiative transfer models over diverse cropping regions	SAC
221	RISAT-2 spacecraft re-entry prediction using high-fidelity orbit propagation	ISTRAC
222	Role of conducting filler on electromagnetic shielding performance of CaCu ₃ Ti ₄ O ₁₂ /CoFe ₂ O ₄ /Al/silicone composites over wide frequency range	SAC
223	Role of Heat Transfer on Diffusion Flame Spreading Over Solid Cylinders	SAC

224	S-Band Antenna Angles Data Calibration Using Spacecraft Tracking	ISTRAC
225	Scalable landslide detection in complex Himalayan topography via a novel object-based residual graph attention network	IIRS
226	Seasonal variability of TROPOMI-derived methane over India: Contrasting fingerprints of anthropogenic sources and land-use controls	NRSC
227	Seasonality of isoprene emission from sixteen dominant tropical tree species in Central India	PRL
228	Sectoral impacts of anthropogenic emissions on particulate matter over western India: Inferences based on regional modelling	PRL
229	Seeing Through Darkness: Fusion of Optical and Thermal Features for Improved Space Object Classification	URSC
230	Self-supervised spectral unmixing using scene-aware deep priors	IIRS
231	Sensitivity of cumulus parameterisation schemes on simulation of tropical cyclone Fani: an evaluation with ground-based radar products	NARL
232	Shaping SHAPE – a spectro-polarimeter onboard Chandrayaan-3 to observe Earth as an Exoplanet	URSC; ISTRAC; ISRO HQ
233	Simulation and experimental study of self-reversal effects in Al laser-produced plasma	PRL
234	Slope Filtering Improves GEDI LiDAR Canopy Height Predictions in Himalayan Tropical Forests	IIRS
235	SN 2024dy: Dust Formation in a Long-lived Type II _n Supernova and Constraints on the Dust Mass	PRL
236	Snowline-driven glacier dynamics across the Indian Himalayas	SAC
237	Soil erosion rates, driving factors and climate change impacts across different land uses in the Himalayas: Insights from Caesium-137 (¹³⁷ Cs) tracing and the revised universal soil loss equation (RUSLE) model	IIRS
238	Solute-defect interaction and oxidation govern high-temperature low-cycle fatigue in Mo-added CoCrNi-based multi-principal element alloy	VSSC
239	Source Surface Height Optimization for Improved Solar Wind Velocity Forecasting across Solar Cycles 23, 24, and 25	PRL
240	Spark plasma sintered alumina-based ceramics: Processing-structure-property correlation with DFT insights	URSC
241	Spark Plasma Sintering of Inconel 718 Superalloy Powder Synthesized by Mechanical Alloying of Elemental Powders	VSSC

242	Spatio-temporal variability of aquatic productivity and carbon dynamics in a tropical estuary: Potential influence of heavy metal contamination	NRSC
243	Spatiotemporal Variations in Fossil vs Non-Fossil Source Contributions to Carbonaceous Aerosols across Diverse Indian Environments: An Assessment via Radiocarbon	PRL
244	Speckle-illumination averaged wide-field reflection phase microscopy	IIST
245	Spectral bifurcation and anomalous supercurrent in dissipative topological insulator-based Josephson junctions	PRL
246	Star Formation at the Periphery of a Molecular Superbubble: The Case of G12.79+0.43	IIST
247	Statistical insights on the decorrelation lengths of solar wind parameters at L1 point under varying conditions	PRL
248	Strontium isotopic evidence for heterogeneous sediment-water interactions in inland groundwater of the western Bengal Basin	PRL
249	Studies on multiple weld repairs of M250 maraging steel for solid motor casing used in satellite launch vehicle application; [Studio degli effetti di cicli di riparazione mediante saldatura di casse motore in acciaio maraging M250 di veicoli di lancio satellitare a propellente solido]	VSSC
250	Study of the Role of Geometry on the Residual Stresses Development in Laser-Based Powder Bed Fusion As-Built Ti-6Al-4V Components Using Finite Element Simulations	VSSC
251	Study of type-I X-ray bursts in 4U 1636–536 using XSPECT/XPoSat	URSC
252	Study on the Venusian atmospheric thermal structure: A comparative analysis between VEX/Akatsuki and Venus-GRAM/VCD	VSSC; PRL
253	Substrate attachment voids and their impact on VSWR/Insertion loss performance for low-power passive circuits	SAC
254	Subsurface marine heatwaves in the Lakshadweep Sea: characteristics, vertical structure, and drivers	NRSC
255	Superconducting order parameter in aperiodic binary systems	PRL
256	SuperMIGHTEE: Spectral Ages of Remnant Radio Galaxy Candidates in the XMM–LSS Field	PRL
257	Surface Urban Heat Island Dynamics and Land Use Change in the Shillong Planning Area, India: A Geospatial and Machine Learning Approach	NESAC
258	Synergistic Use of Multi-Sensor Data and Decision Matrix-Based Approach for Assessing Agricultural Damage due to Cyclone Remal	IIRS; NRSC
259	SYNTHESIS OF HIGH-PERFORMANCE NANOCOMPOSITES USING INNOVATIVE CARBON NANOTUBE INFUSION TECHNIQUES	SAC

260	Telemetry-driven fault diagnosis and degradation assessment of Klüber-lubricated spacecraft reaction wheel bearings using machine learning and entropy-based health indicators	VSSC
261	Temperature dependent impact fracture toughness of FeMnCoCrSi high entropy alloy	VSSC
262	Temperature-controlled solvothermal engineering of 2H-WSe ₂ nanopetals for enhanced charge storage: linking structure, morphology and electrochemical kinetics	IIRS
263	Terrestrial linkages between carbon and water cycle interactions in India	NRSC
264	Testing predictions of discrete flavour and modular symmetries at DUNE and Hyper-K with JUNO constraints	PRL
265	The sensitivity of vertical velocity to microphysics parameterisation	NARL
266	THE SPRAY PROPERTIES OF A SWIRL CO-AXIAL AERATED INJECTOR: AN EXPERIMENTAL INVESTIGATION	IIST
267	The two-stream instability generation around Moon: effect of interplanetary magnetic field during solar wind - lunar plasma interaction	VSSC
268	Thermal and structural studies of black anodic coating on additively manufactured Al-10Si-Mg alloy for effective spacecraft thermal control applications	URSC
269	Thermal Performance Characterization of a Miniature Loop Heat Pipe in Vacuum: Fixed and Variable Conductance Modes of Operation	SAC
270	Thermodynamic Controls on Convective Instability and Lightning Activity Over India: A CAPE-CIN Composite Framework	NRSC
271	Tropical clouds near and overshooting the cold point tropopause: effect of the Hadley and Walker circulations observed using CloudSat and CALIPSO	VSSC
272	Two-color high harmonic generation apparatus: effects of pressure, power, and delay on the high-harmonic yield	PRL
273	Understanding eccentric temperate giants: an in-depth study of the architecture and stellar obliquity of the TOI-2134 system	PRL
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