SRINIVASA RAMANUJAN LIBRARY

Indian Institute of Science Education and Research Pune

Monthly Bulletin of Publications: Faculty, Scientists and Students of IISER Pune. October 2026



Notify us of your new publications at

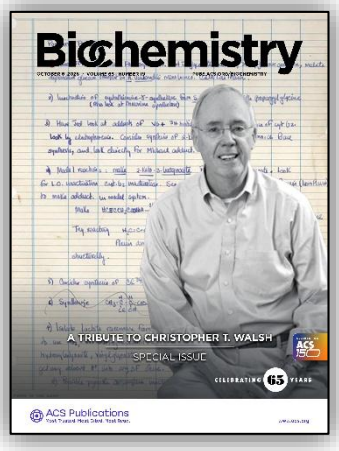
libraryservices@iiserpune.ac.in

CONTENTS

Department	Page No.
Biology	1
Chemistry	4
Earth and Climate Science	11
Mathematics	13
Physics	16

BIOLOGY

Journal Articles



Author(s): CHANDRAMOULI, AAKASH; KAMAT, SIDDHESH S.

Title: The Hunt for Cholesteryl Ester Hydrolases: Identification of Lipoprotein Lipase as a Cholesterylesterase

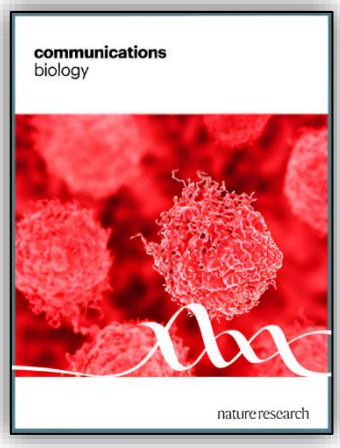
Citation: Biochemistry

Publisher: American Chemical Society

URI: https://doi.org/10.1021/acs.biochem.6c00530

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11506

Publication Date: 2026-10



Author(s): Das, Susweta; Rakshe, Makrand; Sarkar, Soumyajit; Paul, Ria; MARATHE, SHRUTI D.; ABRAHAM, NIXON M.; Gandhi, Prasanna S.; Varma, Hari M.

Title: Vascular tree structure-based perfusion phantom fabrication using modified Hele-Shaw cell method

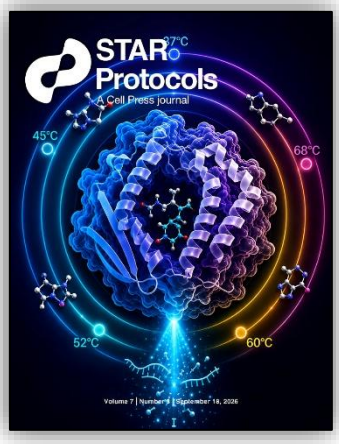
Citation: Communications Biology

Publisher: Springer Nature

URI: https://doi.org/10.1038/s42003-026-11131-w

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11540

Publication Date: 2026-10



Author(s): Dey, Pampa; THUKRAL, SAMEER; Nandi, Amitabha; Mitra, Mithun; RIKHY, RICHA

Title: Protocol for imaging and quantitative analysis of yolk vesicle distribution and movement in syncytial Drosophila embryos

Citation: STAR Protocols, 7(04), 104879.

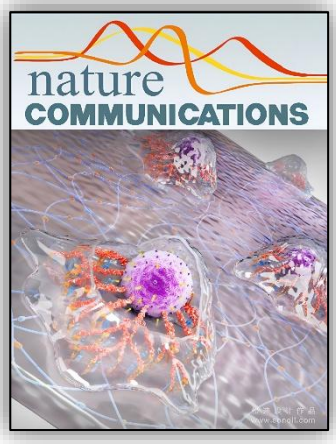
Publisher: Elsevier B.V.

URI: https://doi.org/10.1016/j.xpro.2026.104879

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11531

Publication Date: 2026-12

Back to content



Author(s): Ferro, Riccardo; KANITKAR, TEJASHREE RAJARAM; MADHUSUDHAN, MALLUR SRIVATSAN et al.

Title: The anion channel GPR89 is a tumor-specific dependency in breast cancer

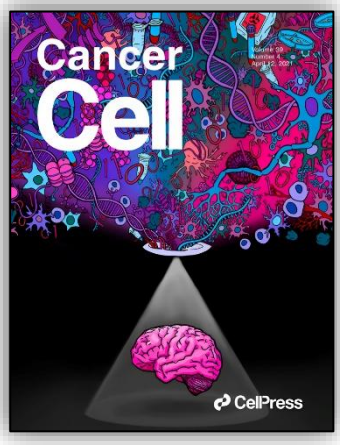
Citation: Nature Communications, 17, 10091.

Publisher: Springer Nature

URI: https://doi.org/10.1038/s41467-026-76250-8

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11505

Publication Date: 2026-09



Author(s): Hamilton, David A.; KARUNAKARAN, MOHINDAR M.; Coffelt, Seth B.

Title: γδ T cells BiTE back at small cell lung cancer

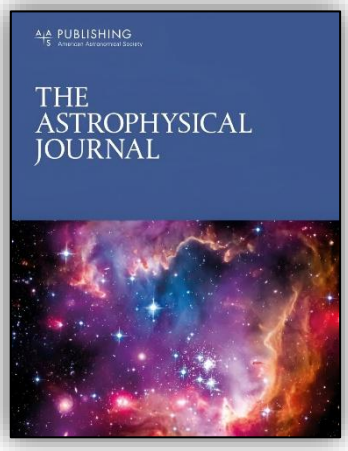
Citation: Cancer Cell, 44(10), 1913-1915.

Publisher: Elsevier B.V.

URI: https://doi.org/10.1016/j.ccell.2026.08.016

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11522

Publication Date: 2026-10



Author(s): KHADEKAR, PAVAN VIJAY; Lal, Dharam Vir; ATHREYA, RAMANA

Title: J023721.13-010528.5: A Giant S-shaped Radio Galaxy Showing our Episodes of Jet Activity

Citation: Astrophysical Journal, 1011(01).

Publisher: IOP Publishing

URI: https://doi.org/10.3847/1538-4357/aea20c

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11569

Publication Date: 2026-10

Back to content



Author(s): Lu, Hao; YADAV, GOVIND; Roy, Sudipto

Title: Specification of Ciliated Cells

Citation: Annual Review of Cell and Developmental Biology, 42(01), 427-451.

Publisher: Annual Review

URI: https://doi.org/10.1146/annurev-cellbio-111524-094101

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11536

Publication Date: 2026-10

Author(s): M. K., Praveen Kumar; Jacob, Sapna; Mini, P.V.; Vijesh, A.M; UNNIKRISHNAN, M.P.

Title: First COI barcode record and phylogenetic assessment of Pramadea lunalis (Guenée, 1854) from Kerala, Western Ghats, India

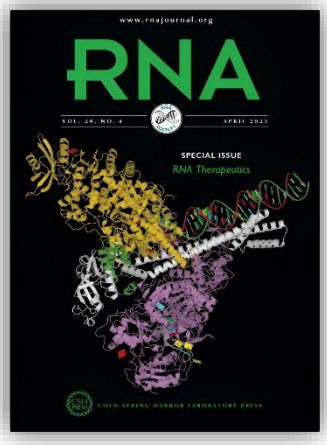
Citation: Journal of Applied and Natural Science, 18(03), 1610 – 1618.

Publisher: Applied and Natural Science Foundation

URI: https://doi.org/10.31018/jans.v18i3.7932

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11509

Publication Date: 2026-09



Author(s): MALHOTRA, RASHIM; PANDIT, KUSHANKUR; Malhotra, Pawan; KARMODIYA, KRISHANPAL

Title: Sense–antisense RNA duplexes mediate stress-responsive translational control in Plasmodium falciparum

Citation: RNA, 32(11), 1765-1786.

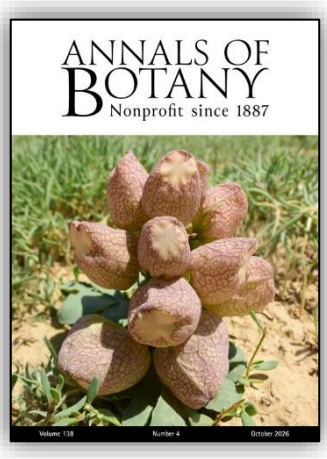
Publisher: Cold Spring Harbor Laboratory Press

URI: https://doi.org/10.1261/rna.081149.126

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11538

Publication Date: 2026-11

Back to content



Author(s): Nissar, Showkat; PANDIT, SAGAR; Reshi, Zafar A.; KUMAR, MANISH; KANKAL, SHRADDHA

Title: Identification of anthecotuloide reveals a chemical mechanism underlying Anthemis cotula L. invasiveness

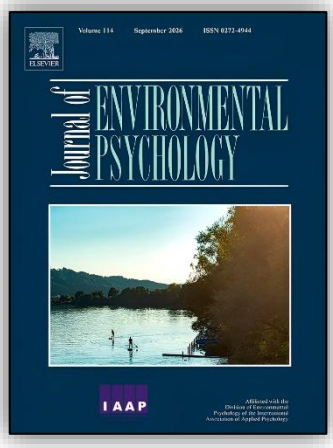
Citation: Annals of Botany.

Publisher: Oxford University Press

URI: https://doi.org/10.1093/aob/mcag289

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11518

Publication Date: 2026-09



Author(s): Reichert, Aleksandra; ABRAHAM NIXON M.; ABRAHAM, JANCY N.; RAWAT, DEVESH et al.

Title: Odors count globally: an exploratory study on the number of conscious odor perceptions across 19 locations on five continents

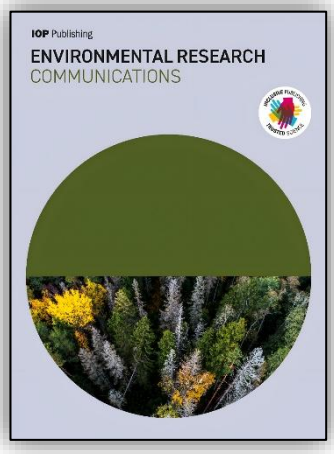
Citation: Journal of Environmental Psychology

Publisher: Elsevier B.V.

URI: https://doi.org/10.1016/j.jenvp.2026.103238

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11539

Publication Date: 2026-12



Author(s): SEN, DEVOSMITA; BARUA, DEEPAK; MONTEIRO, JOY MERWIN

Title: Quantile-based sensitivity and risk thresholds reveal asymmetric responses of tropical forest productivity to individual and compound hot–dry extremes

Citation: Environmental Research Communications, 8(10).

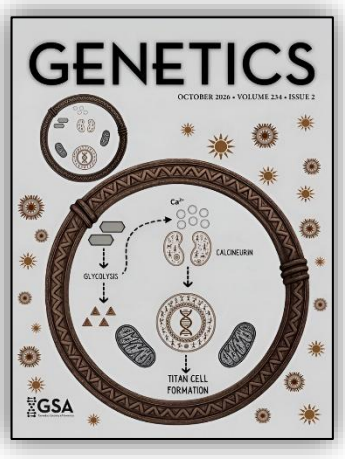
Publisher: IOP Publishing

URI: https://doi.org/10.1088/2515-7620/aea1e9

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11552

Publication Date: 2026-10

Back to content



Author(s): VINCHHI, RHEA; MATANGE, NISHAD

Title: Meeting gene expression demand during evolution of antibiotic resistance

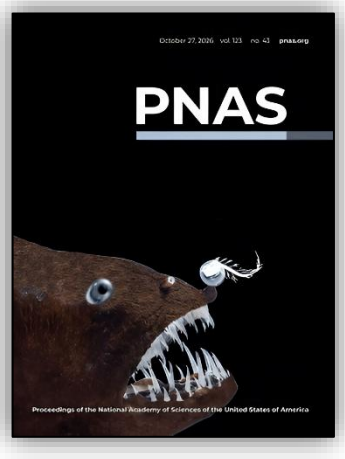
Citation: Genetics

Publisher: Oxford University Press

URI: https://doi.org/10.1093/genetics/iyag278

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11568

Publication Date: 2026-10



Author(s): Yadav, Mohit; CHANDRAMOULI, AAKASH; KAMAT, SIDDHESH S.; GOKHALE, RAJESH S. et al.

Title: A voltage-gated porin PPE1 regulates secretion and drug resistance in Mycobacterium tuberculosis

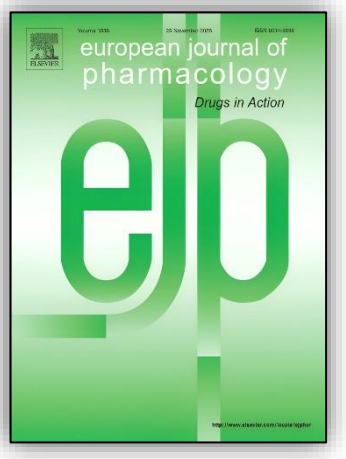
Citation: Proceedings of the National Academy of Sciences, 123 (44).

Publisher: National Academy of Sciences

URI: https://doi.org/10.1073/pnas.2602335123

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11571

Publication Date: 2026-10



Author(s): Waghade, Akash M.; Kokare, Dadasaheb M.; Sahare, Dipak K.; Patil, Ashwini A.; Sabale, Vaibhav A.; Giri, Amol P.; Awathale, Sanjay N.; SUBHEDAR, NISHIKANT K.

Title: Role of superficial grey layer of superior colliculus in reversal learning: importance of nitric oxide synthase

Citation: European Journal of Pharmacology, 1035, 179319.

Publisher: Elsevier B.V.

URI: https://doi.org/10.1016/j.ejphar.2026.179319

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11521

Publication Date: 2026-11

Back to content

CHEMISTRY

Journal Articles



Author(s): DEY, SANJIT; ROY, SOUVIK; TORASKAR, SANDIP U.; GOPI, HOSAHUDYA N.

Title: The Structural Distinction of α- and α, γ-Hybrid Peptides Influences Their Zn(II)-Coordinated Supramolecular Organization

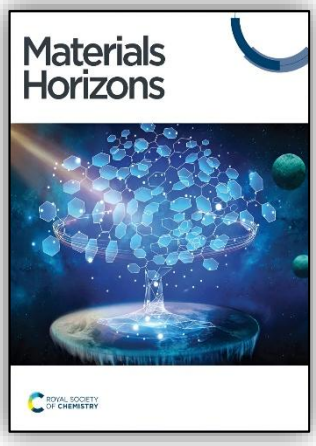
Citation: Chemistry – An Asian Journal, 21(19).

Publisher: Wiley

URI: https://doi.org/10.1002/asia.71000

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11530

Publication Date: 2026-10



Author(s): GOURAB K. DAM; LET, SUMANTA; JAISWAL, VARTIKA; RASAILY, SAGARMANI; MAITY, SUDIP; BISWAS, KISHALAY; GHOSH, SUJIT K. et al.

Title: Charge separation enhanced tunable D–A integrated ionic porous organic polymers for the efficient photosynthesis of H2O2 from air and (Sea)water

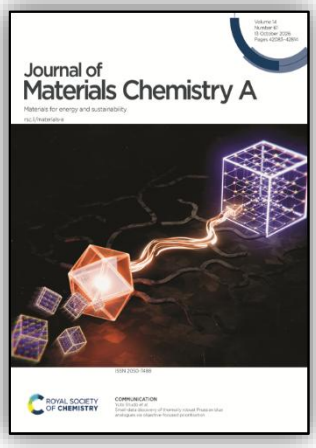
Citation: Materials Horizons

Publisher: Royal Society of Chemistry

URI: https://doi.org/10.1039/d6mh01282e

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11517

Publication Date: 2026-09



Author(s): JAYAN, SRADHA; TANWAR, RITEEKA; RAJPUT, PARIKSHIT KUMAR; MANDAL, PANKAJ; Swain, Diptikanta; NAG, ANGSHUMAN

Title: Enantiomorphic chiral structure in a 2D hybrid halide double perovskite: (R- and S-IdPA)$_4$AgBiI$_8$

Citation: Journal of Materials Chemistry A, 14(61), 42387–42396.

Publisher: Royal Society of Chemistry

URI: https://doi.org/10.1039/d6ta03762c

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11543

Publication Date: 2026-10

Back to content



Author(s): Kumar, Pawan; Gill, Mamta; DEKA, NILOTPAL; SAHOO, SUPRIYA; BOOMISHANKAR, RAMAMOORTHY; Chandrasekhar, Vadapalli

Title: Assembly of a non-centrosymmetric molecular ferroelectric Cu(ii) complex from a chiral pybox ligand: applications in energy harvesting

Citation: Dalton Transactions, 55 (38), 13911–13921.

Publisher: Royal Society of Chemistry

URI: https://doi.org/10.1039/d6dt01657j

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11514

Publication Date: 2026-09



Author(s): Mohanty, Kalyani; Prabhu, Amritha; P. Ashwath Subrahmanya; Ray, Subhasmita; Dutta, Saikat; BALLAV, NIRMALYA; Tarafder, Kartick

Title: Critical role of quantum and electrical double layer capacitance in 2D electrode/ionic-liquid electrolyte based supercapacitors

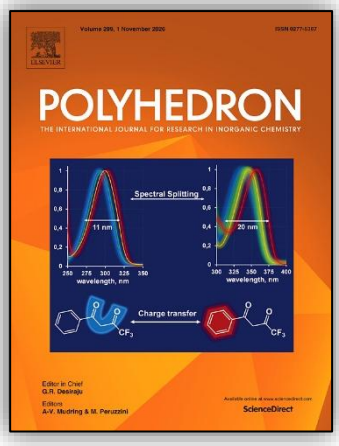
Citation: Journal of Physics: Condensed Matter, 38(38).

Publisher: IOP Publishing

URI: https://doi.org/10.1088/1361-648X/aea50e

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11513

Publication Date: 2026-09



Author(s): Narale, Ashwini M.; Bhosale, Dnyandev G.; SAWASE, LAXMAN R.; Raut, Dattatraya G.; Barache, Umesh B.; Walekar, Laxman S.; Gaikwad, Shashikant H.; Lawand, Anjana S.

Title: Thiazole derived Schiff base ligand as a naked-eye colorimetric chemosensor for selective and sensitive detection of bismuth (III)

Citation: Polyhedron, 300, 118432.

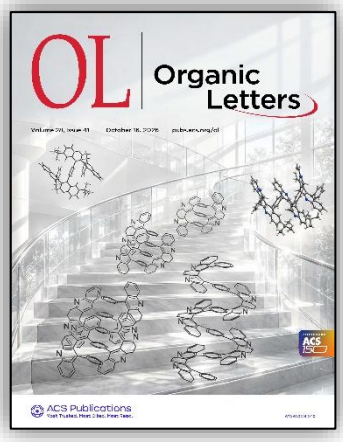
Publisher: Elsevier B.V.

URI: https://doi.org/10.1016/j.poly.2026.118432

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11541

Publication Date: 2026-12

Back to content



Author(s): PANCHMUKHI, NIKITA; UDAYA, HOSAHALLI S.; DESWAL, SWATI; SHUKLA, PRAGATI; ANAND, V. G. et al.

Title: Reversible Oxidation of a Nonathia[42]Nonaphyrin(1.1.0.1.1.0.1.1.0) to a 40π Dication Diradicaloid

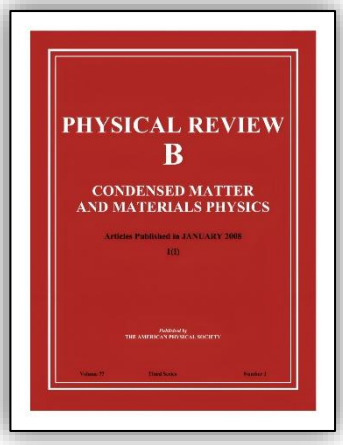
Citation: Organic Letters, 28 (41), 12849-12853.

Publisher: American Chemical Society

URI: https://doi.org/10.1021/acs.orglett.6c02255

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11576

Publication Date: 2026-10



Author(s): Poonia, Ajay K.; Aggarwal, Naresh; Deshpande, Swapnil S.; MONDAL, BARNALI; NAG, ANGSHUMAN; Chakraborty, Sudip; Adarsh, K. V.

Title: Hot carrier localization in continuum states of a quantum dot solid

Citation: Physical Review B, 114, L171406.

Publisher: American Physical Society

URI: https://doi.org/10.1103/1wgb-mhgc

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11520

Publication Date: 2026-09



Author(s): PRASAD, KAMESHWAR; HOTHA, SRINIVAS

Title: Convergent gold-catalyzed synthesis of a partially protected MTX-capped octasaccharide motif of Mycobacterium tuberculosis lipoarabinomannan

Citation: Carbohydrate Research, 570, 110117.

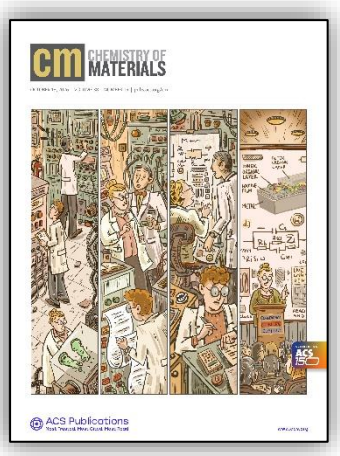
Publisher: Elsevier B.V.

URI: https://doi.org/10.1016/j.carres.2026.110117

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11549

Publication Date: 2026-12

Back to content



Author(s): RASAILY, SAGARMANI; SARKAR, NAYAN; CHATTERJEE, SUKALYAN; Parmar, Saurabh Vinod; MAITY, SUDIP; MAJUMDER, DIPANJAN; ROY, ANIRBAN; Avasare, Vidya; GHOSH, SUJIT K.

Title: Microwave-Assisted Facile Synthesis and Microenvironment Engineering of Enaminone COFs for Efficient Photocatalytic H2O2 Production

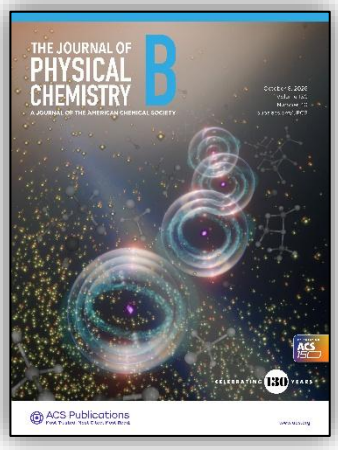
Citation: Chemistry of Materials, 38(19), 10062–10074.

Publisher: American Chemical Society

URI: https://doi.org/10.1021/acs.chemmater.6c01601

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11516

Publication Date: 2026-09



Author(s): ROY, BIKIRNA; MUKHERJEE, ARNAB

Title: Protein Breathing Induces Non-Markovian Buried Ring-Flip Dynamics in Cytochrome C

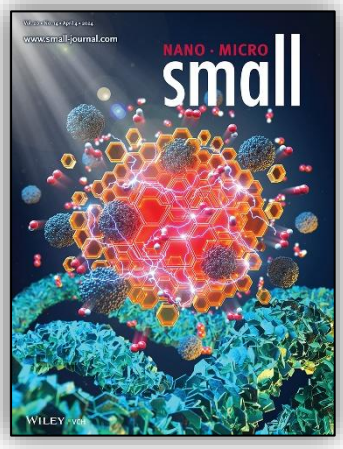
Citation: Journal of Physical Chemistry B, 130(40), 10418–10426.

Publisher: American Chemical Society

URI: https://doi.org/10.1021/acs.jpcb.6c04066

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11523

Publication Date: 2026-10



Author(s): SADHUKHAN, DEBARATI; CHATTOPADHAYAY, SANDIP; TALUKDAR, PINAKI

Title: Supramolecular Barrel-Stave Anion Channel With Hydroxyl-Rich Selectivity Filter

Citation: Small

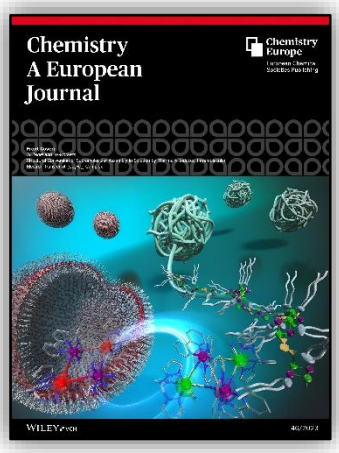
Publisher: Wiley

URI: https://doi.org/10.1002/smll.76247

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11572

Publication Date: 2026-10

Back to content



Author(s): SHAH, BRIJ KUMAR; KUNDU, SOMSUBHRA; SIL, DEBANGSU; KHAN, SHABANA

Title: Lithium Amide: A Catalyst for Depolymerization

Citation: Chemistry – A European Journal

Publisher: Wiley

URI: https://doi.org/10.1002/chem.71823

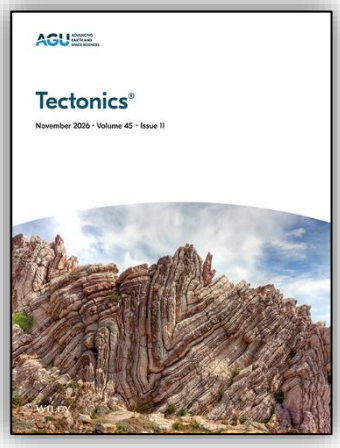
DR URI: https://dr.iiserpune.ac.in/handle/123456789/11573

Publication Date: 2026-10

Back to content

EARTH AND CLIMATE SCIENCE

Journal Articles



Author(s): Rohilla, Saksham; SARKAR, SUDIPTA et al.

Title: Marine Geophysical Investigation of a Fault Ruptured During the 2012 Mw 8.6 Wharton Basin Earthquake

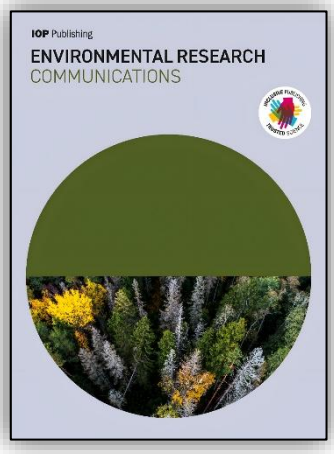
Citation: Tectonics, 45(10).

Publisher: Wiley

URI: https://doi.org/10.1029/2026TC009493

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11567

Publication Date: 2026-10



Author(s): SEN, DEVOSMITA; BARUA, DEEPAK; MONTEIRO, JOY MERWIN

Title: Quantile-based sensitivity and risk thresholds reveal asymmetric responses of tropical forest productivity to individual and compound hot–dry extremes

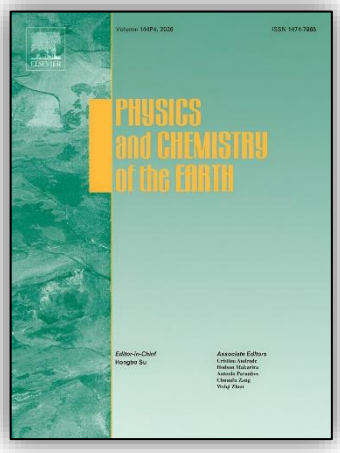
Citation: Environmental Research Communications, 8(10).

Publisher: IOP Publishing

URI: https://doi.org/10.1088/2515-7620/aea1e9

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11552

Publication Date: 2026-10



Author(s): Verma, Sarvesh Kumar; Vijay, Saurabh; BANERJEE, ARGHA

Title: Integrating satellite remote sensing and deep learning for mapping glacier boundary and its changes in the Himalaya

Citation: Physics and Chemistry of the Earth, Parts A/B/C, 145, Part 2, 104890.

Publisher: Elsevier B.V.

URI: https://doi.org/10.1016/j.pce.2026.104890

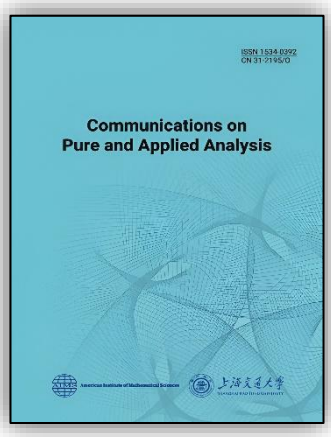
DR URI: https://dr.iiserpune.ac.in/handle/123456789/11574

Publication Date: 2027-01

Back to content

MATHEMATICS

Journal Articles



Author(s): BISWAS, NIRJAN; Chakraborty, Souptik; DAS, PARAMANANDA

Title: Mixed local nonlocal equations with critical nonlinearity on: Non-existence, existence, and multiplicity of positive solutions

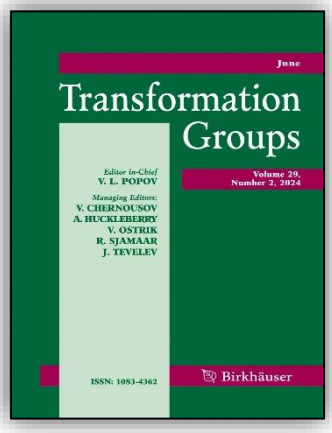
Citation: Communications on Pure and Applied Analysis, 40, 102931.

Publisher: American Institute of Mathematical Sciences

URI: https://doi.org/10.3934/cpaa.2026.102931

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11544

Publication Date: 2027-04



Author(s): GHOSH, PARNASHREE; Gupta, Neena; Pal, Ananya

Title: On Embedding of Linear Hypersurfaces

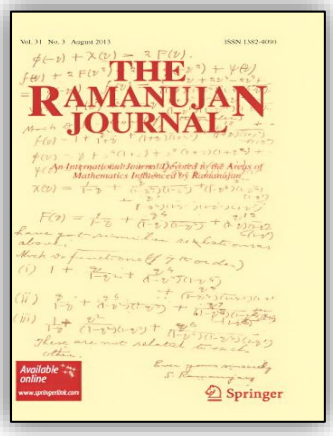
Citation: Transformation Groups.

Publisher: Springer Nature

URI: https://doi.org/10.1007/s00031-026-09998-4

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11515

Publication Date: 2026-09



Author(s): NARAYANAN, P.; Raghuram, A.

Title: Congruences for the ratios of Rankin-Selberg L-functions

Citation: Ramanujan Journal, 71, 34.

Publisher: Springer Nature

URI: https://doi.org/10.1007/s11139-026-01491-6

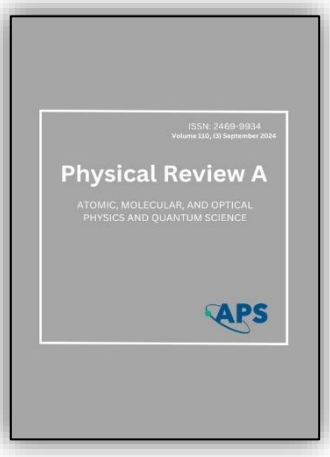
DR URI: https://dr.iiserpune.ac.in/handle/123456789/11575

Publication Date: 2026-10

Back to content

PHYSICS

Journal Articles



Author(s): ADITHYA, L. J.; Hegde, Suraj S.; MEENA, CHANDRAKALA

Title: Postselection-induced localization and coherence in quantum walks on heterogeneous networks

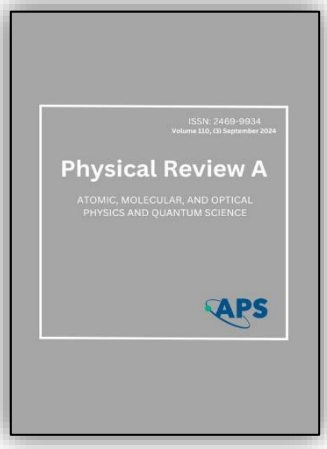
Citation: Physical Review A,114, 042206.

Publisher: American Physical Society

URI: https://doi.org/10.1103/zc8p-2p7f

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11564

Publication Date: 2026-10



Author(s): BAGUI, PITAMBAR; CHATTERJEE, ARIJIT; AGARWALLA, BIJAY KUMAR

Title: Accelerated relaxation and Mpemba-like effect for operators in open quantum systems

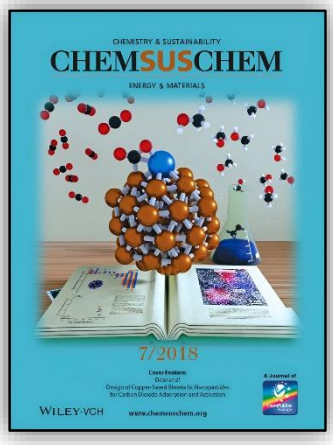
Citation: Physical Review A, 114, L010601

Publisher: American Physical Society

URI: https://doi.org/10.1103/mz66-3ty7

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11534

Publication Date: 2026-07



Author(s): Ballav, Niladri; AMBALKAR, ANURADHA; Karthik, Esakki; OGALE, SATISHCHANDRA

Title: A Fully Green Process Based on Recycled Primary Zn–C Battery and Natural Lemon Extract for Highly Efficient, Salt Tolerant, and Multi-Use Desalination

Citation: ChemSusChem, 19(19).

Publisher: Wiley

URI: https://doi.org/10.1002/cssc.71084

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11507

Publication Date: 2026-10

Back to content



Author(s): BHANDARI, LALIT SINGH; Rentala, Vikram; THALAPILLIL, ARUN M.; Verma, Himanshu

Title: Probing extended dark objects through astrometric microlensing from Gaia

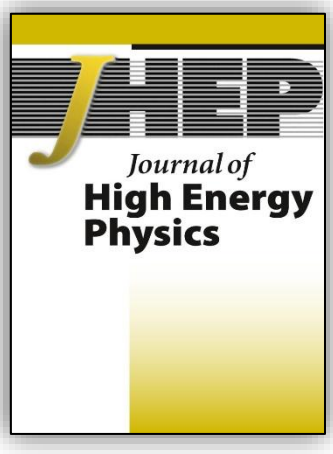
Citation: Journal of Cosmology and Astroparticle Physics, 2026(09).

Publisher: IOP Publishing

URI: https://doi.org/10.1088/1475-7516/2026/09/072

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11525

Publication Date: 2026-09



Author(s): CMS Collaboration; Hayrapetyan, A.; ALPANA, A.; DUBE, SOURABH; HAZARIKA, P.; KANSAL, B.; LAHA, A.; SHARMA, R.; SHARMA, SEEMA; VAISH, K.Y. et al.

Title: Search for a Higgs boson produced in association with a charm quark and decaying to a W boson pair in proton-proton collisions at $\sqrt{s}$ =13 Tev

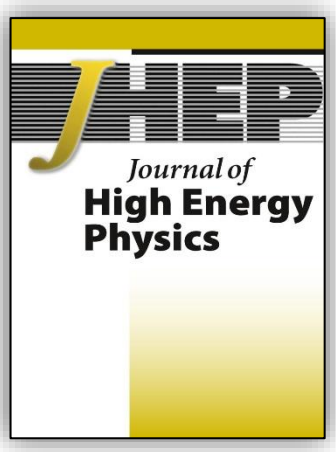
Citation: Journal of High Energy Physics, 2026(10), 51.

Publisher: Springer Nature

URI: https://doi.org/10.1007/JHEP08(2026)051

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11532

Publication Date: 2026-10



Author(s): CMS Collaboration; Hayrapetyan, A.; ALPANA, A.; DUBE, SOURABH; HAZARIKA, P.; KANSAL, B.; LAHA, A.; SHARMA, R.; SHARMA, SEEMA; VAISH, K.Y. et al.

Title: Search for heavy scalar resonances decaying to Lorentz-boosted Higgs and Higgs-like bosons in the bb-4q final state at $\sqrt{s}$ =13 Tev

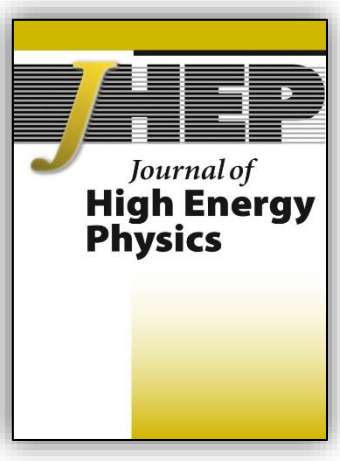
Citation: Journal of High Energy Physics, 2026(10), 50.

Publisher: Springer Nature

URI: https://doi.org/10.1007/JHEP08(2026)050

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11533

Publication Date: 2026-10



Author(s): CMS Collaboration; Chekhovsky, V.; ACHARYA, S.; ALPANA, A.; DUBE, SOURABH; GOMBER, B. ; HAZARIKA, P.; KANSAL, B.; LAHA, A.; SAHU, B.; SHARMA, SEEMA; VAISH, K.Y. et al.

Title: Study of same-sign W boson scattering and anomalous couplings in events with one tau lepton from pp collisions at $\sqrt{s}$=13 TeV

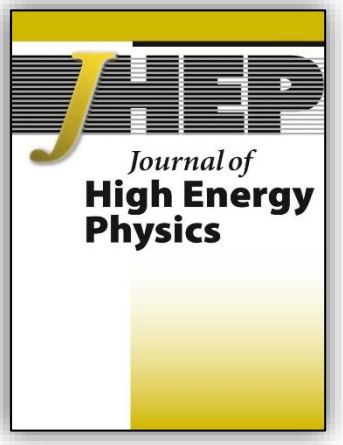
Citation: Journal of High Energy Physics, 2026(10),219.

Publisher: Springer Nature

URI: https://doi.org/10.1007/JHEP10(2025)219

DR URI: https://dr.iiserpune.ac.in/handle/123456789/10830

Publication Date: 2026-10



Author(s): CMS Collaboration; Hayrapetyan, A.; DUBE, SOURABH; HAZARIKA, P.; KANSAL, B.; LAHA, A.; SHARMA, R.; SHARMA, SEEMA; VAISH, K.Y. et al.

Title: Measurement of the t-channel single top quark cross section in proton-proton collisions $\sqrt{s}$ =5.02 Tev

Citation: Journal of High Energy Physics, 2026(08), 223.

Publisher: Springer Nature

URI: https://doi.org/10.1007/JHEP08(2026)223

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11511

Publication Date: 2026-08



Author(s): CMS Collaboration; Hayrapetyan, A.; DUBE, SOURABH; HAZARIKA, P.; KANSAL, B.; LAHA, A.; SHARMA, R.; SHARMA, SEEMA; VAISH, K.Y. et al.

Title: Search for a new heavy resonance decaying to a top quark and a neutral scalar boson in proton-proton collisions at $\sqrt{s}$ =13 TeV

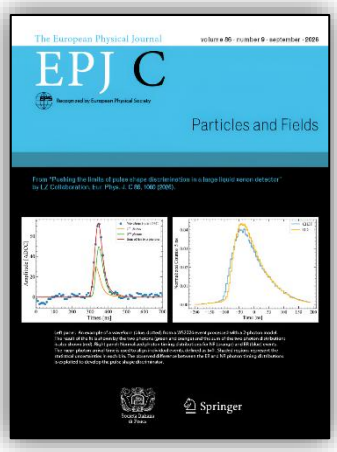
Citation: Physics Letters B, 880, 140812.

Publisher: Elsevier B.V.

URI: https://doi.org/10.1016/j.physletb.2026.140812

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11510

Publication Date: 2026-09



Author(s): CMS Collaboration; Hayrapetyan, A.; DUBE, SOURABH; HAZARIKA, P.; KANSAL, B.; LAHA, A.; SHARMA, R.; SHARMA, SEEMA; VAISH, K.Y. et al.

Title: Full event interpretation with machine-learning-based particle-flow reconstruction in the CMS detector

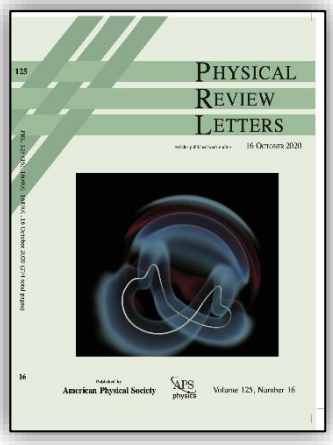
Citation: European Physical Journal C, 86, 1025.

Publisher: Springer Nature

URI: https://doi.org/10.1140/epjc/s10052-026-15754-5

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11542

Publication Date: 2026-10



Author(s): CMS Collaboration; Aad, G.; DUBE, SOURABH; HAZARIKA, P.; KANSAL, B.; LAHA, A.; SHARMA, R.; SHARMA, SEEMA; VAISH, K.Y. et al.

Title: Combination of ATLAS and CMS Searches for Higgs Boson Pair Production at $\sqrt{s}$=13 TeV

Citation: Physical Review Letters, 137, 131803.

Publisher: American Physical Society

URI: https://doi.org/10.1103/27s7-2frt

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11554

Publication Date: 2026-10



Author(s): CMS HCAL collaboration; Gevorgyan, A.; HEGDE, V.; KOTHEKAAR, K.; PANDEY, S.; SHARMA, SEEMA et al.

Title: Continual learning via ensemble-based depth-wise masked autoencoders for data quality monitoring in high-energy physics

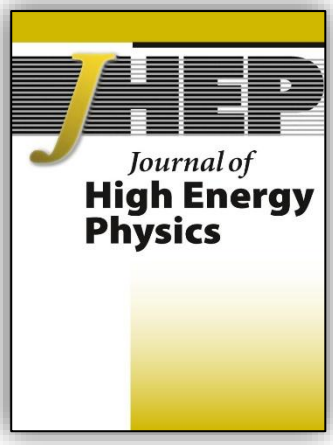
Citation: Journal of Instrumentation, 21.

Publisher: IOP Publishing

URI: https://doi.org/10.1088/1748-0221/21/10/P10004

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11553

Publication Date: 2026-10



Author(s): DESAI, JAY; GHOSH, DIPTIMOY; Pant, Saurabh

Title: Positivity in massive spin-3/2 EFTs and the Planck-suppressed neighbourhood of supergravity

Citation: Journal of High Energy Physics, 2026(08), 265.

Publisher: Springer Nature

URI: https://doi.org/10.1007/JHEP09(2026)265

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11524

Publication Date: 2026-09



Author(s): Hecht, Linos; MANDAL, SUDDHASATTWA et al.

Title: Model-free pattern separation of two-color ultrafast X-ray diffraction

Citation: Nature Communications, 17, 10465.

Publisher: Springer Nature

URI: https://doi.org/10.1038/s41467-026-77085-z

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11535

Publication Date: 2026-10



Author(s): PRASAL, VAIDIK; Wadadekar, Yogesh; Biswas, Pralay; Jain, Rashi

Title: Morphological and Star Formation Properties of Cosmic Noon Massive Quiescent Galaxies

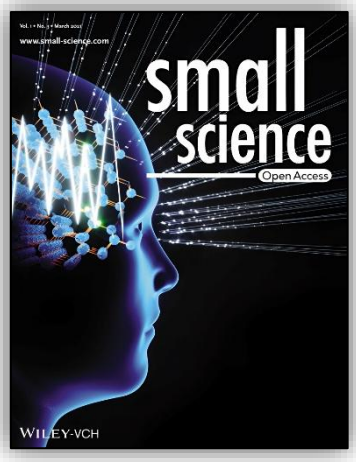
Citation: Astrophysical Journal, 1009(02).

Publisher: IOP Publishing

URI: https://doi.org/10.3847/1538-4357/ae9a85

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11519

Publication Date: 2026-10



Author(s): Sheng, Shaoxiang; PATRA, SAYANTAN; CHAUHAN, BHUMIKA; ARORA, ASHISH et al.

Title: Phonon-Modulated Kerr Nonlinearity in Ultrathin 2H-$MoTe_2$

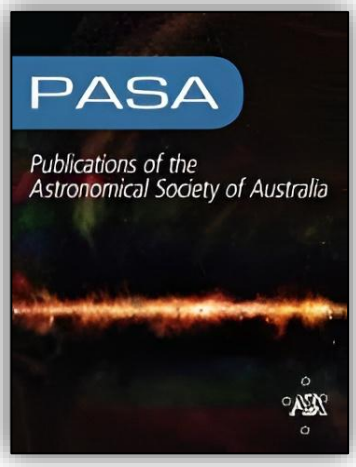
Citation: Small Science, 6(10).

Publisher: Wiley

URI: https://doi.org/10.1002/smsc.70424

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11565

Publication Date: 2026-10



Author(s): SHINDE, RAJAT; Maan, Yogesh; Bera, Apurba

Title: Implementing Bell causality in quantum sequential growth

Citation: Publications of the Astronomical Society of Australia, 43.

Publisher: Cambridge University Press

URI: https://doi.org/10.1017/pasa.2026.10246

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11550

Publication Date: 2026-12



Author(s): SRIVASTAVA, RITESH; Surya, Sumati

Title: From NVSS to RACS: Identifying truly compact galactic and extragalactic sources with steep spectra

Citation: Physical Review D,114, 086007.

Publisher: American Physical Society

URI: https://doi.org/10.1103/thx5-dknv

DR URI: https://dr.iiserpune.ac.in/handle/123456789/11550

Publication Date: 2026-10

Back to content

***

Acknowledgment: The images used in this document are intended solely for educational purposes. All efforts have been made to ensure compliance with fair use standards. No copyright infringement is intended.