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November 2025**



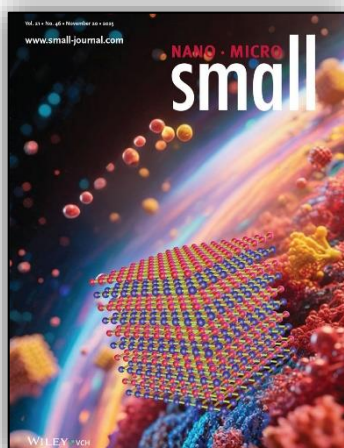
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BIOLOGY

Journal Articles



Author(s): CHANDRAN, ANANDITA; Bhardwaj, Aadvik; Kansara, Krupa; Bhatia, Dhiraj

Title: From Science to Solutions: Translating DNA-Based Nanodevices into Clinical Applications

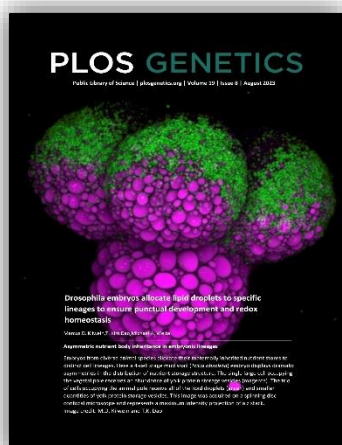
Citation: Small.

Publisher: Wiley

URI: <https://doi.org/10.1002/sml.202508155>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10545>

Publication Date: 2025-11



Author(s): Corneloup, Thibault; CHAVAN, ARSH et al.

Title: High-throughput conjugation reveals strain specific recombination patterns enabling precise trait mapping in Escherichia coli

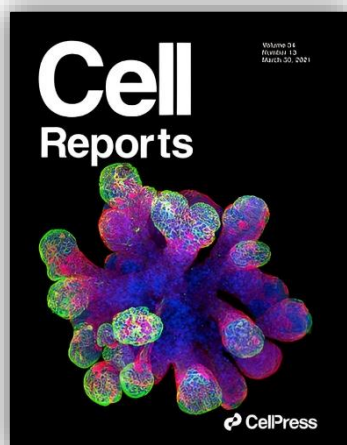
Citation: PLOS Genetics, 21(10), e1011636

Publisher: PLOS

URI: <https://doi.org/10.1371/journal.pgen.1011636>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10543>

Publication Date: 2025-10



Author(s): SAHA, SANTAM; BALAJI, A.K.; Meel, Sweet; Notani, Dimple; SENGUPTA, KUNDAN

Title: Fibrillarin regulates epithelial integrity via EZH2-mediated modulation of scribble expression

Citation: Cell Reports, 44(12).

Publisher: Elsevier B.V.

URI: <https://10.1016/j.celrep.2025.116608>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10556>

Publication Date: 2025-12

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Author(s): SINGH, SHIKHA; MANTRI, MOHIT P.; KHAN, MOHD ISHFAQ; BANERJEE, ANJAN K.

Title: A comprehensive analysis to speculate the role of trithorax genes in photoperiod-mediated tuberization in potato and comparison with storage root crops

Citation: BMC Plant Biology, 25, 1603.

Publisher: Springer Nature

URI: <https://doi.org/10.1186/s12870-025-07548-w>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10557>

Publication Date: 2025-11



Author(s): SURBHI; SHAU, ARNAB KUMAR; CHACKO, FEBY MARIAM; RADHAKRISHNAN, SUNISH KUMAR

Title: A starvation-triggered AAA+ ATPase halts chromosome replication progression by disassembling the bacterial DNA sliding clamp

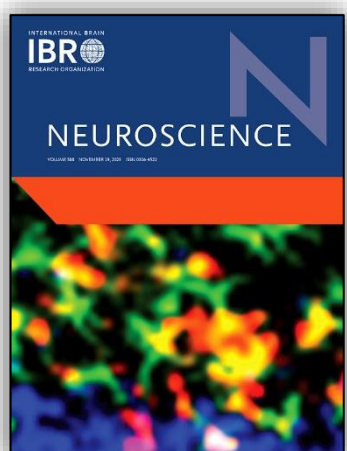
Citation: Current Biology, 35(21).

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.cub.2025.09.042>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10514>

Publication Date: 2025-11



Author(s): Waghade, Akash M.; Kokare, Dadasaheb M.; Awathale, Sanjay N.; Mitra, Saptarsi; Singru, Praful S.; SUBHEDAR, NISHIKANT K.

Title: Superficial grey layer of superior colliculus integrates visual cue-evoked learning and memory in rats: importance of TRPV3 ion channels

Citation: Neuroscience, 592, 27-35.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.neuroscience.2025.11.022>

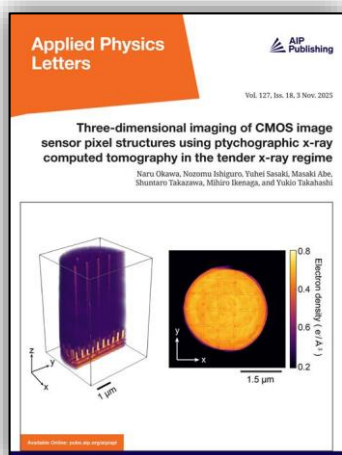
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10549>

Publication Date: 2026-01

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CHEMISTRY

Journal Articles



Author(s): Bhakar, Monika; Bhardwaj, Pooja; ANILKUMAR, GOKUL M.; RAHMAN, ATIKUR; Sheet, Goutam

Title: Topological polar textures on CsPbBr₃ nanoplatelets

Citation: Applied Physics Letters, 127(18).

Publisher: AIP Publishing

URI: <https://doi.org/10.1063/5.0301259>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10539>

Publication Date: 2025-11



Author(s): CHANDRA, ANKITA; Maccarana, Marco; VISHWESHWARA, SHARATH S.; MARDHEKAR, SANDHYA; ANAND, SAURABH; BHOGE, PREETI RAVINDRA; Li, Jin-Ping; KIKKERI, RAGHAVENDRA

Title: Structure-Function Relationships of Heparan Sulfate-Based Neoproteoglycans as Selective Immunostimulatory Scaffolds

Citation: Chemistry - A European Journal.

Publisher: Wiley

URI: <https://doi.org/10.1002/chem.202502735>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10528>

Publication Date: 2025-10



Author(s): FAJAL, SAHEL; GHOSH, SUJIT K.

Title: Bromine sequestration by advanced functional porous materials

Citation: Chemical Communications, 61(89), 17290-17301.

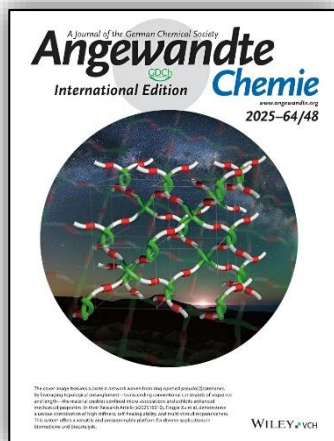
Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D5CC03718B>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10538>

Publication Date: 2025-11

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Author(s): GHOSH, ANIMESH; SAIKIA, SAJID; Mukherjee, Soham; Johannesson, Evelyn; Rensmo, Hakan; NAG, ANGSHUMAN

Title: Intra-Configurational Spin-Flip $d \rightarrow d$ Transition of Mo (III) Doped Perovskite for Ultra-Narrow Near Infrared-II Emission in Ambient Conditions

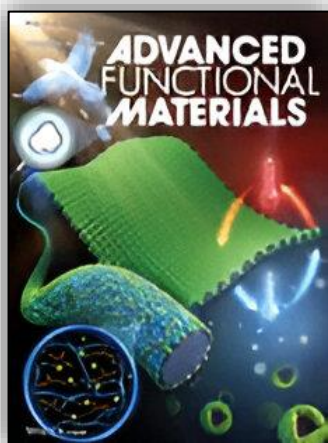
Citation: Angewandte Chemie International Edition.

Publisher: Wiley

URI: <https://doi.org/10.1002/anie.202519144>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10534>

Publication Date: 2025-11



Author(s): GHOSH, DIPAYAN; MAITY, SUDIP; RASAILY, SAGARMANI; ROY, ANIRBAN; BISWAS, KISHALAY; DAM, GOURAB K.; GHOSH, SUJIT K.

Title: Enhancing Photocatalytic Activity of Porous Organic Frameworks via Facile Post-Synthetic Modification for Ultrafast Uranium Extraction

Citation: Advanced Functional Materials.

Publisher: Wiley

URI: <https://doi.org/10.1002/adfm.202519249>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10532>

Publication Date: 2025-10



Author(s): GHOSH, SOMNATH; MOHANTA, NIRMALA; SWAMINATHAN, MALLIKA; MISHRA, NILIMA PRIYADARSINI; GNANAPRAKASAM, BOOPATHY

Title: In-Catalyzed Regioselective [3+2] Cycloaddition of Alkenes with α,β -Unsaturated Keto-Carboxylic Acid Derivatives for the Synthesis of γ -Butyrolactones

Citation: Journal of Organic Chemistry, 90(44), 15461-15480.

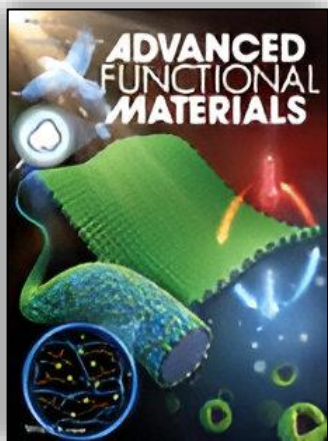
Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.joc.5c01060>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10511>

Publication Date: 2025-10

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Author(s): KUMAR, HITESH; DEWAN, ANWESHI; DARGILY, NEETHU CHRISTUDAS; NAYAK, BHOJKUMAR; MENDHE, RAHUL MAHADEO; THOTIYL, MUSTHAFA OTTAKAM et al.

Title: Atom-Scale Charge Reorganization for MOF-Driven Electrocatalytic Switching

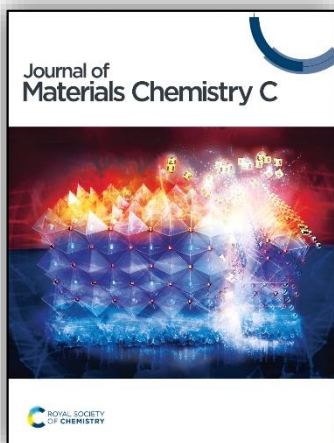
Citation: Advanced Functional Materials

Publisher: Wiley

URI: <https://doi.org/10.1002/adfm.202515131>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10515>

Publication Date: 2025-10



Author(s): MAKHIJA, URMILA; KUSHWAHA, VIKASH; PRAJESH, NEETU; NAG, ANGSHUMAN; BOOMISHANKAR, RAMAMOORTHY

Title: Piezoelectricity in a mixture of chiral 1D hybrid lead bromide and iodide systems

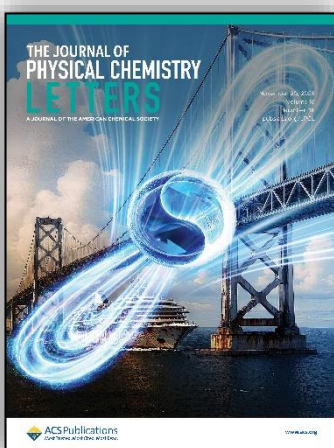
Citation: Journal of Materials Chemistry C

Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D5TC02798E>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10553>

Publication Date: 2025-09



Author(s): MANDAL, SOURAV; KUMAR, SATISH; ROY, SOUVIK; MAHAPATRA, SOUVIK PANDA; DAS, ALOKE

Title: Interplay between Intrinsic Propensities of Amino Acids, Backbone Hydrogen Bonding, and Solvent Effects Governs the Secondary Structures of Peptides

Citation: Journal of Physical Chemistry Letters, 16(46), 12026-12035.

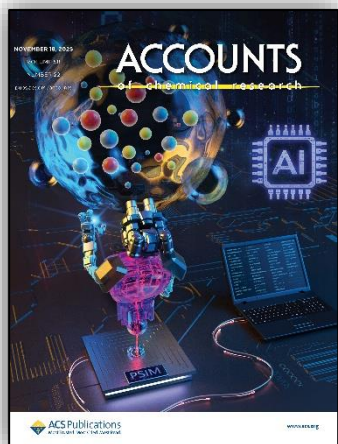
Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.jpclett.5c03157>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10563>

Publication Date: 2025-11

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Author(s): MONDAL, RITWIK; YUVARAJ, SHYAAM SRIRANGADHAMU; NAYAK, BHOJKUMAR; THOTIYL, MUSTHAFA OTTAKAM

Title: Water-Formation-Energy-Driven Electrochemical Process Modulation

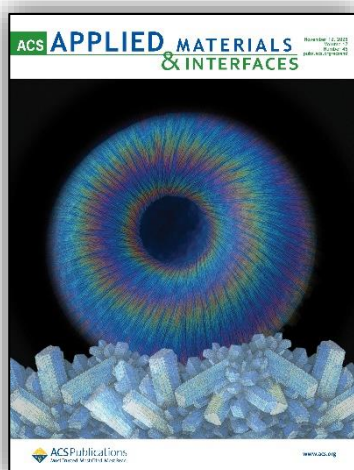
Citation: Accounts of Chemical Research

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.accounts.5c00565>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10516>

Publication Date: 2025-10



Author(s): Patra, Kankan; Mollick, Samraj; Pal, Haridas; Sengupta, Arijit; Saha, Rajat; DEY, SANJIT; Selvakumar, Jayaprakasam

Title: Highlighting the Advancement of Nuclear Waste Water Treatment with Modular Porous Scaffolds

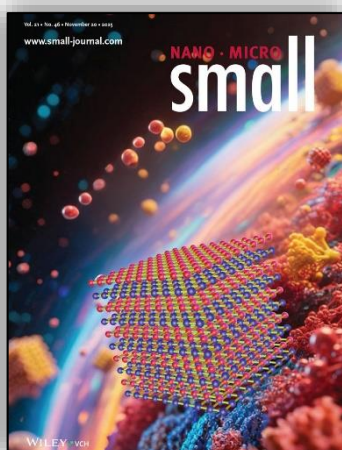
Citation: ACS Applied Materials & Interfaces, 17(45), 61571-61603.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acsami.5c11540>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10558>

Publication Date: 2025-11



Author(s): TANWAR, RITEEKA; BANERJEE, SRIJITA; UDAY, NANDANA, V.; MANDAL, PANKAJ

Title: Dopant-Engineered Enhancement of Third-Harmonic Generation in 2D Hybrid Perovskites

Citation: Small

Publisher: Wiley

URI: <https://doi.org/10.1002/smll.202508068>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10512>

Publication Date: 2025-10

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EARTH AND CLIMATE SCIENCE

Journal Articles



Author(s): Joshi, Jahnavi; CHATTOPADHYAY, DEVAPRIYA et al.

Title: Linking eras and data: natural history collections as the foundation of India's biodiversity science

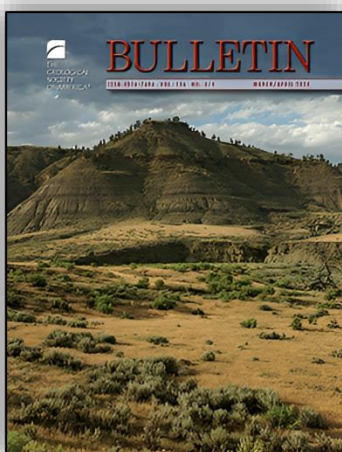
Citation: Biological Journal of the Linnean Society, 146(03).

Publisher: Oxford University Press

URI: <https://doi.org/10.1093/biolinnean/blaf100>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10541>

Publication Date: 2025-11



Author(s): Kale, Vivek S.; Upasani, Devdutt; Rajput, Madhu; Dole, Gauri; PATIL PILLAI, SHILPA

Title: Spatio-temporal volume recalibration shows Deccan volcanism caused Terminal Cretaceous Mass Extinction

Citation: GSA Bulletin

Publisher: Geological Society of America

URI: <https://doi.org/10.1130/B38412.1>

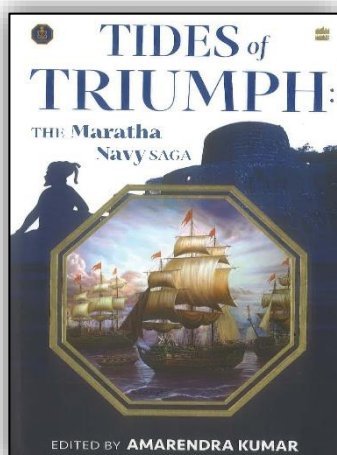
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10510>

Publication Date: 2025-11

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HUMANITIES AND SOCIAL SCIENCES

Book chapter



Author(s): SOHONI, PUSHKAR

Title: Maritime Fortifications: Defending Land and Sea.

Citation: Tides of Triumph: The Maratha Navy Saga, 97-116

Publisher: HarperVantage

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10523>

Publication Date: 2025

Journal Articles



Author(s): LAKRAS, TEJASHREE; SOHONI, PUSHKAR

Title: A Critical Analysis of an Architectural Heritage Site as a Filming Location Through Heritage Impact Assessments: The Case of Amber Palace, Rajasthan, India

Citation: Journal of Heritage Management, 10(02).

Publisher: Sage

URI: <https://doi.org/10.1177/24559296251379688>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10555>

Publication Date: 2025-12



Author(s): Nerlekar, Ashish N.; PATIL, DIGVIJAY

Title: Utilizing traditional literature to triangulate the ecological history of a tropical savanna

Citation: People and Nature.

Publisher: Wiley

URI: <https://doi.org/10.1002/pan3.70201>

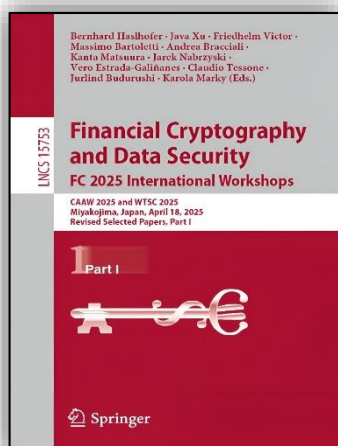
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Publication Date: 2025-11

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MATHEMATICS

Conference Paper



Author(s): PRIYADARSHINI, EMILY; Bartoletti, Massimo

Title: A Quantitative Notion of Economic Security for Smart Contract Compositions

Citation: Financial Cryptography and Data Security. FC 2025 International Workshops, 147-163.

Publisher: Springer Nature

URI: https://doi.org/10.1007/978-3-032-00492-5_11

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10546>

Publication Date: 2025-11

Journal Articles



Author(s): Biswas, Imran H.; KHAN, SAIBAL; Vallet, Guy

Title: Stochastic conservation laws with Poisson noise: Well-posedness of càdlàg entropy solutions and stability of sample paths

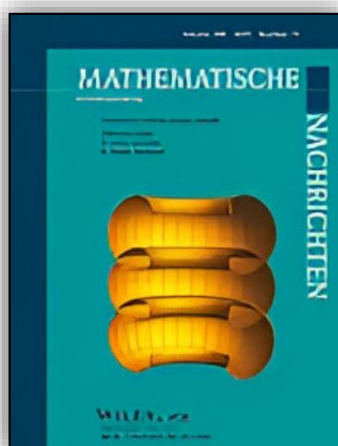
Citation: Journal of Differential Equations, 453, Part 3, 113838.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.jde.2025.113838>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10529>

Publication Date: 2026-02



Author(s): JOSEPH, KAYYUNNAPARA DIVYA

Title: Vanishing viscosity solution to a 2×2 system of conservation laws with linear damping

Citation: Mathematische Nachrichten.

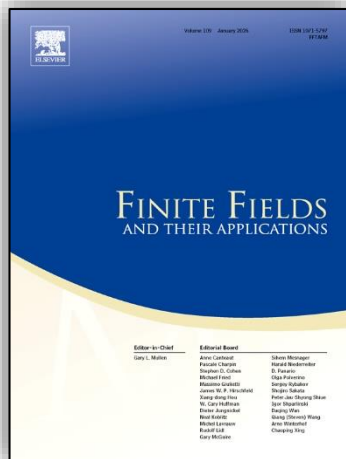
Publisher: Wiley

URI: <https://doi.org/10.1002/mana.70078>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10564>

Publication Date: 2025-11

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Author(s): KAIPA, KRISHNA; Pradhan, Puspendu

Title: On the $\text{PGL}_2(q)$ -orbits of lines of $\text{PG}(3,q)$ and binary quartic forms in characteristic three

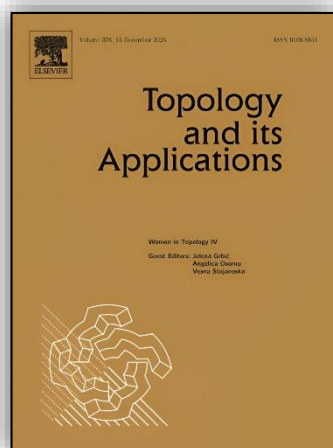
Citation: Finite Fields and Their Applications, 111, 102763.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.ffa.2025.102763>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10566>

Publication Date: 2026-03



Author(s): Kauffman, Louis H.; MISHRA, RAMA; Narayanan, Visakh

Title: Knots in $\mathbb{RP}^3$

Citation: Topology and its Applications, 377, 109656.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.topol.2025.109656>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10537>

Publication Date: 2026-01



Author(s): Krithika, R.; Kutty Malu, V.K.; TALE, PRAFULLKUMAR

Title: Revisiting path contraction and cycle contraction

Citation: Journal of Computer and System Sciences, 156, 103724.

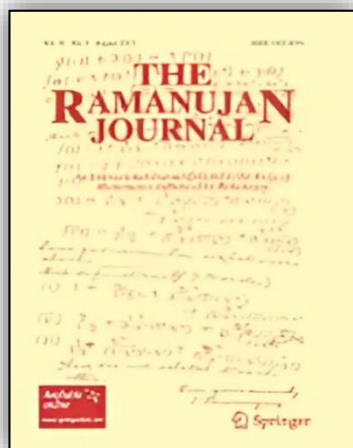
Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.jcss.2025.103724>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10525>

Publication Date: 2026-03

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Author(s): NASIT, DARSHAN

Title: On the dimensions of certain spaces of vector-valued cusp forms

Citation: Ramanujan Journal, 68, 89.

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s11139-025-01239-8>

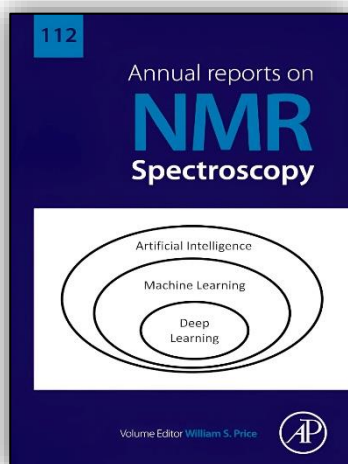
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10540>

Publication Date: 2025-11

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PHYSICS

Book Chapter



Author(s): MISHRA, SANDEEP KUMAR; Suryaprakash N.

Title: NMR investigations of weak molecular interactions, with special focus on hydrogen bonding involving organic fluorine

Citation: Annual Reports on NMR Spectroscopy, 116, 1-99.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/bs.arnmr.2025.10.002>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10547>

Publication Date: 2025

Journal Articles



Author(s): ANANTH, SUDARSHAN; BHAVE, NIPUN

Title: An 'exceptional' form for symmetries in maximal supergravity

Citation: Physics Letters B, 871, 140031.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.physletb.2025.140031>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10550>

Publication Date: 2025-12



Author(s): Ashanujjaman, Saiyad; Crivellin, Andreas; MAHARATHY, SIDDHARTH P.; Thapa, Anil

Title: LHC signatures of a generalized Georgi-Machacek model

Citation: Physical Review D, 112, 035040.

Publisher: American Physical Society

URI: <https://doi.org/10.1103/wzjg-3fqg>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10544>

Publication Date: 2025-08

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Author(s): BALA, ASWINI; DHARVA, K. S.

Title: An Ode to the Penrose and Witten transforms in twistor space for 3D CFT

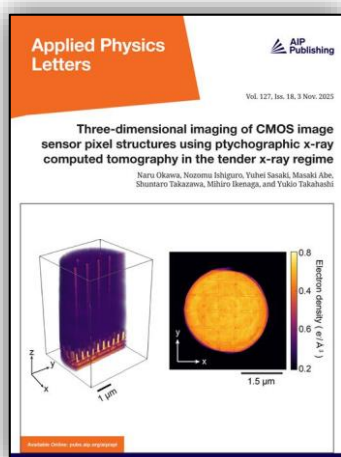
Citation: Journal of High Energy Physics, 2025(11), 56.

Publisher: Springer Nature

URI: [https://doi.org/10.1007/JHEP11\(2025\)056](https://doi.org/10.1007/JHEP11(2025)056)

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10560>

Publication Date: 2025-11



Author(s): Bhakar, Monika; Bhardwaj, Pooja; ANILKUMAR, GOKUL M.; RAHMAN, ATIKUR; Sheet, Goutam

Title: Topological polar textures on CsPbBr₃ nanoplatelets

Citation: Applied Physics Letters, 127(18).

Publisher: AIP Publishing

URI: <https://doi.org/10.1063/5.0301259>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10539>

Publication Date: 2025-11



Author(s): Bhattacharjee, Debesh; Majumder, Saikat; SUBRAMANIAN, PRASAD

Title: Characterizing proton polytropic indices inside near-Earth magnetic clouds and ICME sheaths

Citation: Journal of Astrophysics and Astronomy, 46, 82.

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s12036-025-10103-6>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10530>

Publication Date: 2025-10

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

Title: Measurement of the W boson decay branching fraction ratio $B(W \rightarrow cq)/B(W \rightarrow q(q)\text{over-bar})$ in proton-proton collisions at $\sqrt{s}=13$ TeV

Citation: Physics Letters B, 868, 139754.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.physletb.2025.139754>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10535>

Publication Date: 2025-09



Author(s): Guha, Subhasish; Bar, Ipsita; AGARWALLA, BIJAY KUMAR; Venkatesh, B. Prasanna

Title: Collective dissipation of oscillator dipoles strongly coupled to one-dimensional electromagnetic reservoirs

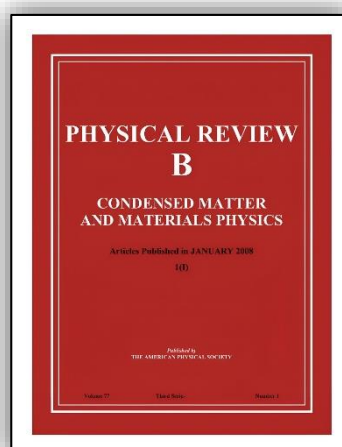
Citation: Physical Review A, 112, 043709.

Publisher: American Physical Society

URI: <https://doi.org/10.1103/dnnn-5b5p>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10526>

Publication Date: 2025-10



Author(s): Härtl, Patrick; SANKESHWAR, VIJAYALAXMI; Bode Matthias

Title: Magnetic domain structure of holmium films at low temperatures

Citation: Physical Review B, 112, 174402.

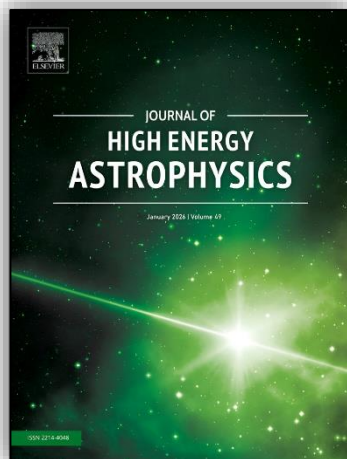
Publisher: American Physical Society

URI: <https://doi.org/10.1103/ktw1-kxyh>

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Publication Date: 2025-11

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Title: Measuring accretion disc properties in the transitional millisecond pulsar PSR J1023+0038 using XMM-Newton, NuSTAR, NICER and Chandra

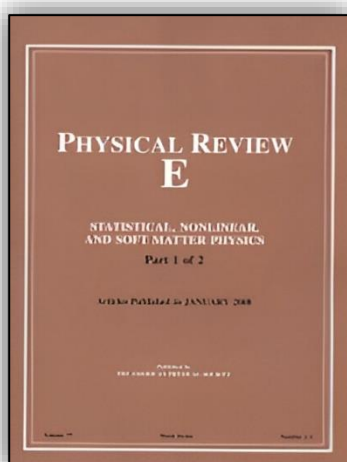
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Author(s): Mathew, Thomas Arun; KHADSE, ANUJA BANDU

Title: Constraining antibaryonic dark matter through correlated nucleon decay signatures

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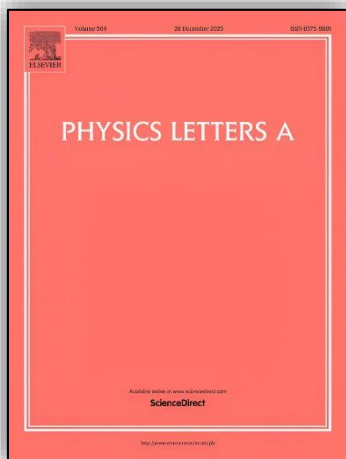
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Citation: Physics Letters A, 562, 131003.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.physleta.2025.131003>

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Publication Date: 2025-12



Author(s): REDDY, ANURAAG; Steinle, Nathan; Safi-Harb, Samar; Brown, Jo-Anne

Title: Multimessenger window into galactic magnetic fields and black-hole mergers with LISA

Citation: Physical Review D, 112, 043036.

Publisher: American Physical Society

URI: <https://doi.org/10.1103/7dng-y1cx>

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