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April 2025



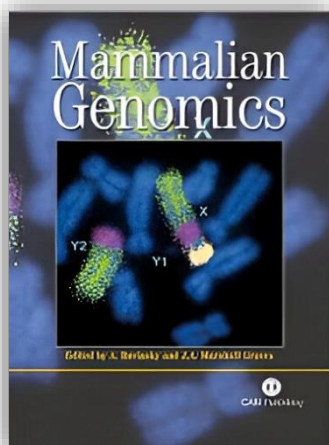
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BIOLOGY

Journal Articles



Author(s): ABRAHAM, JANCY NIXON; RAWAT, DEVESH; SRIKANTH, PRIYADHARSHINI;SUNNY, LISNI P.; ABRAHAM, NIXON M.

Title: Alpha-synuclein pathology and Parkinson's disease-related olfactory dysfunctions: an update on preclinical models and therapeutic approaches

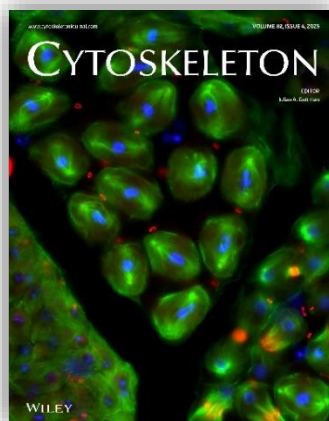
Citation: Mammalian Genome.

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s00335-025-10128-w>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9779>

Publication Date: 2025-04



Author(s): BASU, JASHASWI

Title: Author Profile: Jashaswi Basu

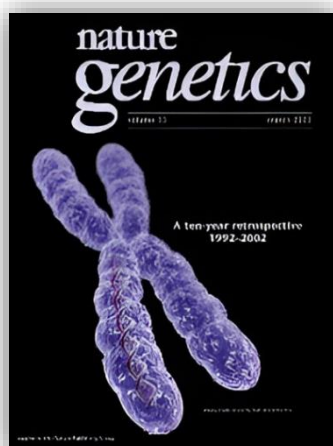
Citation: Cytoskeleton, 82(04), 274 - 275.

Publisher: Wiley

URI: <https://doi.org/10.1002/cm.22010>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9771>

Publication Date: 2025-04



Author(s): Bhattacharyya, Chandrika; LAHIRI, MAYURIKA; DIXIT, SANTOSH; SHASHIDHARA, L. S.; MALIK, AJAY; GAIKWAD, KAJAL; GAHLAUT, SIDDHARTH et al.

Title: Mapping genetic diversity with the GenomeIndia project

Citation: Nature Genetics, 57, 767-773.

Publisher: Springer Nature

URI: <https://doi.org/10.1038/s41588-025-02153-x>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9774>

Publication Date: 2025-04

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Author(s): Chopra, Umesh; SABU, MARIA KONDOOPARAMBIL; Rajmani, Raju S.; Chaudhary, Ayushi Devendrasingh; Gupta, Shashi Kumar; Chakravortty, Dipshikha

Title: Salmonella Effector SseL Induces Programmed Death Ligand 1 Upregulation and T-Cell Inactivation via the B-Catenin Signaling Axis

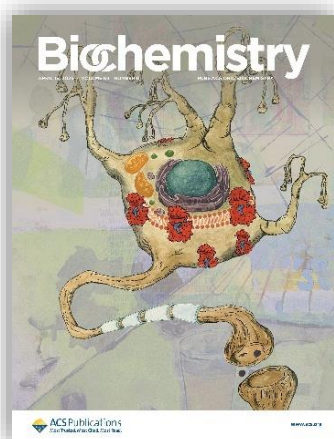
Citation: Journal of Infectious Diseases

Publisher: Oxford University Press

URI: <https://doi.org/10.1093/infdis/jiaf131>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9796>

Publication Date: 2025-03



Author(s): DUTTA, SOUMYAJIT; Poddar, Sakshi; CHAKRABORTY, JOYEETA; Srinivasan, Ramanujam; GAYATHRI, PANANGHAT

Title: Membrane Binding and Cholesterol Sensing Motif in Mycoplasma genitalium FtsZ: A Novel Mode of Membrane Recruitment for Bacterial FtsZ

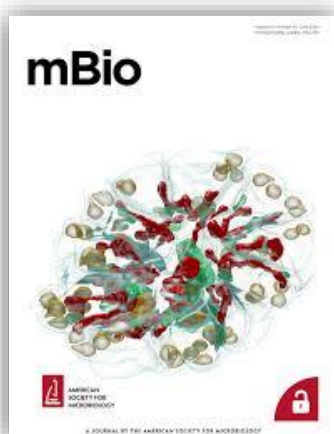
Citation: Biochemistry, 64(08), 1647-1894.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.biochem.4c00543>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9764>

Publication Date: 2025-04



Author(s): JAZLEENA, P. J.; DAS, APURBA; SHARMA, JAYA; YAIKHOMBA, MUTUM; GAYATHRI, PANANGHAT et al.

Title: Di-HAMP domains of a cytoplasmic chemoreceptor modulate nucleoid array formation and downstream signaling

Citation: mBio.

Publisher: American Society for Microbiology

URI: <https://doi.org/10.1128/mbio.00057-25>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9763>

Publication Date: 2025-04

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Author(s): MANNA, SUMAN; GUPTA, SIMRAN M.; BORA, PRERONA; CHAKRABORTY, ARNAB; KUMAR, T. ANAND; KAMAT, SIDDHESH S.; CHAKRAPANI, HARINATH

Title: Tandem Biocatalysis to Generate Hydrogen Sulfide and Promote Endogenous Antioxidant Response

Citation: Angewandte Chemie International Edition

Publisher: Wiley

URI: <https://doi.org/10.1002/anie.202502917>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9782>

Publication Date: 2025-04



Author(s): Mckee, Brendan; Abolghasemzade, Samere; Wang, Ting-Ching; Harsh, Kajol; Kaur, Simran; Blanchard, Ryan; MENON, KRISHNA BELRAJ; Mohajeri, Mohammad; Dickinson, Richard B.; Lele, Tanmay P.

Title: Excess surface area of the nuclear lamina enables unhindered cell migration through constrictions

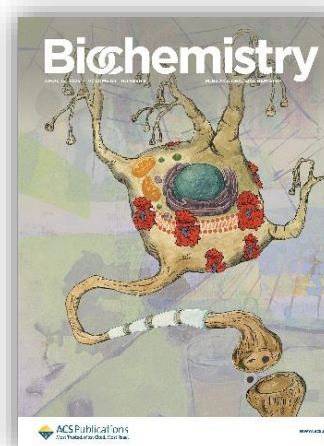
Citation: Science Advances, 11(13).

Publisher: American Association for the Advancement of Science

URI: <https://doi.org/10.1126/sciadv.ads6573>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9795>

Publication Date: 2025-03



Author(s): Mondal, Atanu; Nandi, Sandhik; Singh, Vipin; CHAKRABORTY, ARNAB; Banerjee, Indrakshi; Sen, Sabyasachi; Gadad, Shrikanth S.; Roy, Siddhartha; KAMAT, SIDDHESH S.; Das, Chandrima

Title: TCF7L2 Regulates Fatty Acid Chain Elongase HACD3 during Lipid-Induced Stress

Citation: Biochemistry, 64(8), 1828-1840.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.biochem.4c00491>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9781>

Publication Date: 2025-04

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Author(s): Pemberton, Joshua G.; ROY, KRISHNENDU; Kim, Yeun Ju; Fischer, Tara D.; Joshi, Vijay; Ferrer, Elizabeth; Youle, Richard J.; PUCADYIL, THOMAS J.; Balla, Tamas

Title: Acute diacylglycerol production activates critical membrane-shaping proteins leading to mitochondrial tubulation and fission

Citation: Nature Communications, 16, 2685.

Publisher: Springer Nature

URI: <https://doi.org/10.1038/s41467-025-57439-9>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9790>

Publication Date: 2025-03

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CHEMISTRY

Journal Articles



Author(s): Anand, Aman; Regina, Anitta; Jalwal, Sachibn; PRODHAN, SOUMOJYATI; SIL, DEBANGSU; Paranjothy, Manikandan; Chakraborty, Subrata

Title: Chromium catalyzed acceptorless dehydrogenative (cross)coupling of primary amines to secondary imines

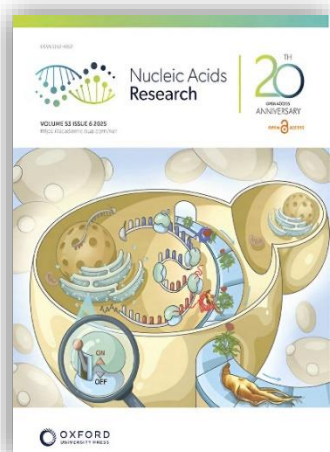
Citation: Dalton Transactions, 54(16), 6432-6442

Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D4DT03460K>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9777>

Publication Date: 2025-04



Author(s): GHOSH, PULAK; PHADTE, APEKSHA A.; Bhojappa, Bindu; Palani, Saravanan; SRIVATSAN, SEERGAZHI G.

Title: Template-independent enzymatic functionalization of DNA oligonucleotides with environment-sensitive nucleotide probes using terminal deoxynucleotidyl transferase

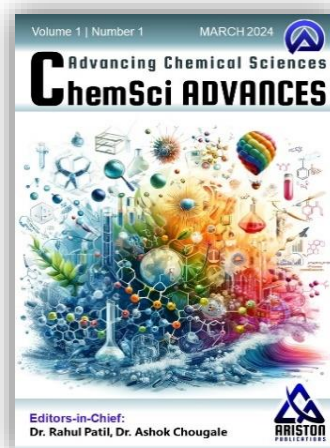
Citation: Nucleic Acids Research, 53(06).

Publisher: Oxford University Press

URI: <https://doi.org/10.1093/nar/gkaf108>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9797>

Publication Date: 2025-04



Author(s): Kore, Kiran B.; KANADE, SANDEEP P.; MENDHE, RAHUL MAHADEO; Jadkar, Sandesh R.; THOTIYL, MUSTHAFA OTTAKAM; Funde, Adinath M.

Title: Cost-Effective Synthesis and Electrochemical Evaluation of Triphylite NaFePO₄ as a High-Performance Cathode Material for Sodium-Ion Batteries

Citation: ChemSci Advances, 2(02), 157-164.

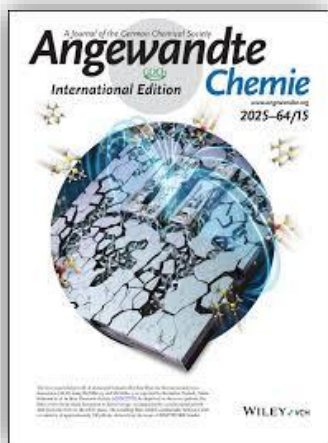
Publisher: Ariston Publications

URI: <https://doi.org/10.69626/csa.2025.0157>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9665>

Publication Date: 2025-06

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Author(s): MANNA, SUMAN; GUPTA, SIMRAN M.; BORA, PRERONA; CHAKRABORTY, ARNAB; KUMAR, T. ANAND; KAMAT, SIDDHESH S.; CHAKRAPANI, HARINATH

Title: Tandem Biocatalysis to Generate Hydrogen Sulfide and Promote Endogenous Antioxidant Response

Citation: Angewandte Chemie International Edition

Publisher: Wiley

URI: <https://doi.org/10.1002/anie.202502917>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9782>

Publication Date: 2025-04



Author(s): Mishra, Neeraj Kumar; PANDAY, RISHUKUMAR; Supriya, Sabbani

Title: Inorganic-organic hybrids of the phosphotungstate Keggin anion and a Schiff base cation

Citation: Dalton Transactions, 54(17), 7062-7070.

Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D4DT03480E>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9775>

Publication Date: 2025-03



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

Title: A non-isothermal water formation cell for electrochemical heat recovery

Citation: Chemical Science.

Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D5SC00892A>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9661>

Publication Date: 2025-04

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Author(s): MUKHERJEE, UTTAMA

Title: Citrate-Based Ionic Liquids for CO₂ Capture—A Computational Approach Toward Environmentally Benign Ionic Liquid Anions

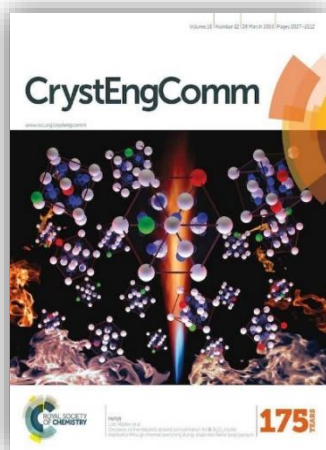
Citation: Journal of Physical Organic Chemistry, 38(04).

Publisher: Wiley

URI: <https://doi.org/10.1002/poc.70009>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9765>

Publication Date: 2025-04



Author(s): PARTHIBAN, PAVITHRA; MAKHIJA, URMILA; PRATHAM, RACHIT; Swain, Diptikanta; NAG, ANGSHUMAN

Title: Covalent organic-inorganic layered 2D CdCl₂(n-hexylamine)₂ and not Cd₂S₂(n-hexylamine)

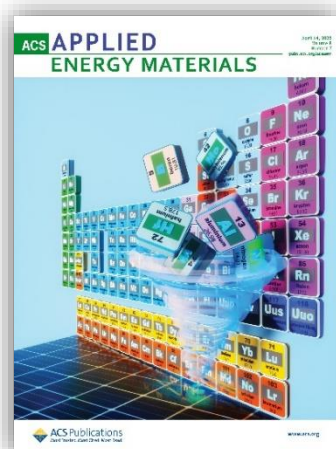
Citation: CrystEngComm, 27(13), 2004-2011.

Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D5CE00011D>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9785>

Publication Date: 2025-04



Author(s): PRAJESH, NEETU; KUSHWAHA, VIKASH; Naphade, Dipti R.; Praveenkumar, Balu; Zareba, Jan K.; Anthopoulos, Thomas D.; BOOMISHANKAR, RAMAMOORTHY

Title: Flexible Piezoelectric Nanogenerator with a Ferroelectric Metal-Ligand Cage for Self-Powered Sensor Applications

Citation: ACS Applied Energy Materials.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acsaem.5c00269>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9788>

Publication Date: 2025-03

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Author(s): SAHA, SAUVIK; JOSE, THERESE MARIYA; KALYANI, MINI; HASSAN, NAHID; BHOI, UMASHIS; UGALE, AJAY; BALLAV, NIRMALYA

Title: Thin films of azobenzene dicarboxylate-based Cu-MOF: Generating electronic heterostructure by molecular doping

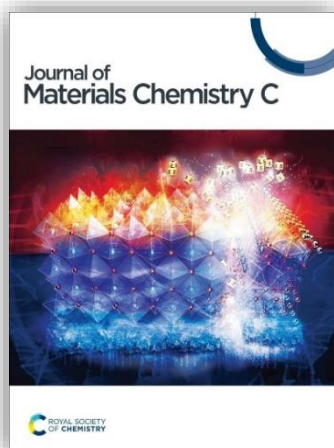
Citation: Journal of chemical Sciences, 137, 26.

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s12039-025-02365-y>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9794>

Publication Date: 2025-03



Author(s): SAHOO, SUPRIYA; DEKA, NILOTPAL; KUSHWAHA, VIKASH; GADAGIN, VINAYAK B.; Zareba, Jan K.; BOOMISHANKAR, RAMAMOORTHY

Title: A boronic acid-based neutral two-component ferroelectric for piezoelectric energy harvesting and charge-storage applications

Citation: Journal of Materials Chemistry C

Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D5TC00458F>

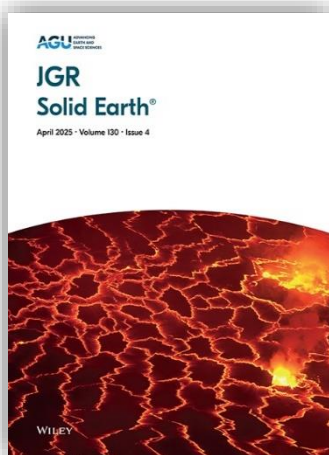
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9662>

Publication Date: 2025-04

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EARTH AND CLIMATE SCIENCE

Journal Articles



Author(s): Ali, M. Y.; ISMAIEL, M.; Abdelmaksoud, A.; Pilia, S.; Watts, A. B.; Searle, M. P.

Title: Geophysical Investigations of the Fujairah Basin, East Coast of United Arab Emirates: Insights Into Tectonic Evolution

Citation: Journal of Geophysical Research: Solid Earth, 230(04).

Publisher: Wiley

URI: <https://doi.org/10.1029/2024JB030345>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9660>

Publication Date: 2025-04



Author(s): TRIVEDI, AKASH; SARKAR, SUDIPTA; Ker, Stephan; Minshull, Timothy A.; Haflidason, Haflidi

Title: New insights into marine-based paleo-ice sheet dynamics and glaciomarine depositional environment in an interfan area between ice stream-derived trough mouth fans, off west Svalbard

Citation: Quaternary Science Reviews, 356, 109281.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.quascirev.2025.109281>

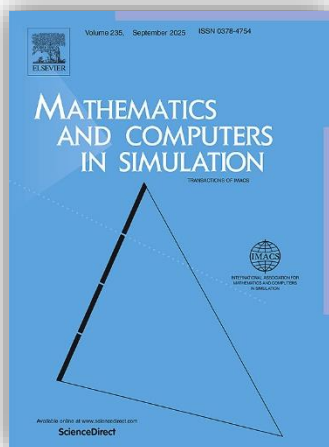
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9787>

Publication Date: 2025-05

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MATHEMATICS

Journal Articles



Author(s): GOSWAMI, ANINDYA; Patel, Kuldip Singh

Title: Domain truncation error analysis for a multidimensional system of PDEs of option prices

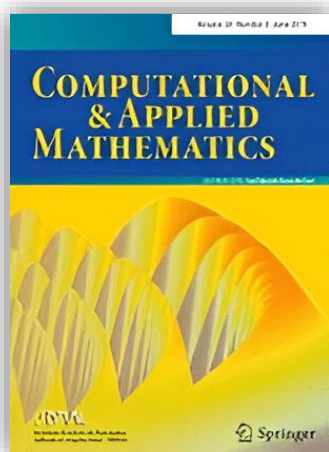
Citation: Mathematics and Computers in Simulation, 236,354-378.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.matcom.2025.04.002>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9766>

Publication Date: 2025-10



Author(s): GOSWAMI, ANINDYA; Patel, Kuldip Singh; Sahu, Pradeep Kumar

Title: A novel difference equation approach for the stability and robustness of compact schemes for variable coefficient PDEs

Citation: Computational and Applied Mathematics.

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s40314-025-03142-w>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9793>

Publication Date: 2025-04



Author(s): Malik, Neha; SPALLONE, STEVEN

Title: Stiefel-Whitney Classes for finite special linear groups of even rank

Citation: Journal of Algebra, 673, 455-473.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.jalgebra.2025.03.009>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9789>

Publication Date: 2025-07

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PHYSICS

Journal Articles



Author(s): ADHIKARI, SUSMITA; BANERJEE, ARKA; Jain, Bhuvnesh; Shin, Tae-hyeon; Zhong, Yi-Ming

Title: Constraints on Dark Matter Self-interactions from Weak Lensing of Galaxies from the Dark Energy Survey around Clusters from the Atacama Cosmology Telescope Survey

Citation: Astrophysical Journal, 983(01).

Publisher: IOP Publishing

URI: <https://doi.org/10.3847/1538-4357/adb0c4>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9770>

Publication Date: 2025-04



Author(s): Arora, Vikas; Muthu, D V S; Sinha, Arijit; HARNAGEA, LUMINITA; Waghmare, U. V.; Sood, A. K.

Title: Pressure dependence of ultrafast carrier dynamics in excitonic insulator Ta_2NiSe_5

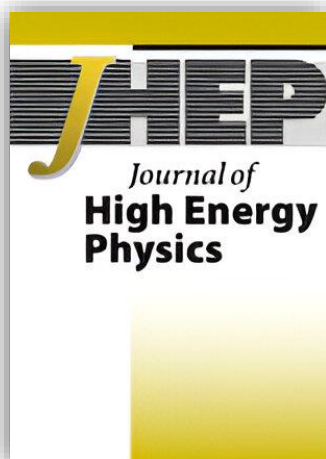
Citation: Journal of Physics: Condensed Matter, 37(18).

Publisher: IOP Publishing

URI: <https://doi.org/10.1088/1361-648X/adc64b>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9780>

Publication Date: 2025-05



Author(s): Ashanujjaman, Saiyad; Banik, Sumit; Coloretti, Guglielmo; Crivellin, Andreas; MAHARATHY, SIDDHARTH P.; Mellado, Bruce

Title: Anatomy of the real Higgs triplet model

Citation: Journal of High Energy Physics, 2025(04).

Publisher: Springer Nature

URI: [https://doi.org/10.1007/JHEP04\(2025\)003](https://doi.org/10.1007/JHEP04(2025)003)

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9664>

Publication Date: 2025-04

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Author(s): BANERJEE, ARKA; BHANDARI, LALIT SINGH; Jain, Ashwat; THALAPILLIL, ARUN M.

Title: Exploring Faraday rotation signatures and population bounds for primordial magnetic black holes

Citation: Journal of Cosmology and Astroparticle Physics, 2025(04).

Publisher: IOP Publishing

URI: <https://doi.org/10.1088/1475-7516/2025/04/011>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9772>

Publication Date: 2025-04



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: Search for rare decays of the Z and Higgs bosons to a J/ψ or $\psi(2S)$ meson and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV

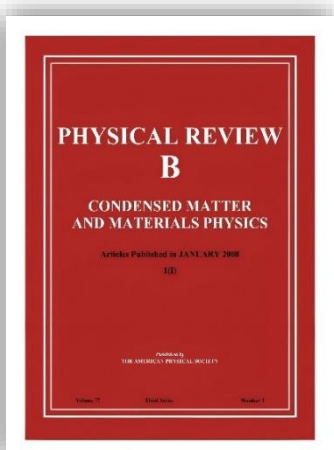
Citation: Physics Letters B, 865, 139462.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.physletb.2025.139462>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9768>

Publication Date: 2025-06



Author(s): DE, AVIRUP; Prabhakaran, Dharmalingam; NAIR, SUNIL

Title: Observation of an interfacial magnon-electron drag in a pyrochlore ferromagnet-heavy metal heterostructure

Citation: Physical Review B, 111, 054435

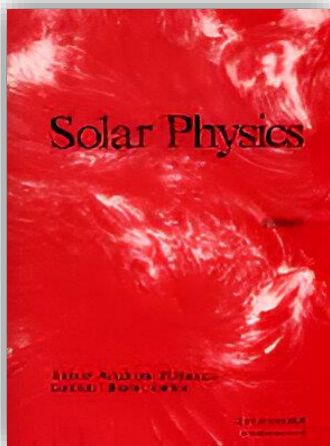
Publisher: Elsevier B.V.

URI: <https://doi.org/10.1103/PhysRevB.111.054435>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9783>

Publication Date: 2025-02

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Author(s): GHUGE, DEEP; Bhattacharjee, Debesh; SUBRAMANIAN, PRASAD

Title: Turbulent Power: A Discriminator Between Sheaths and CMEs

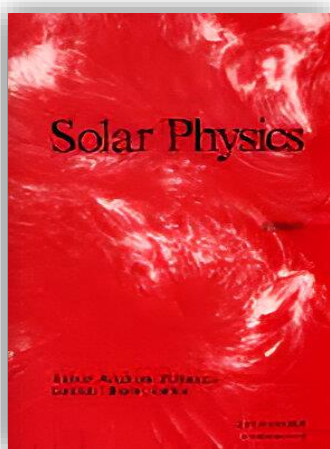
Citation: Solar Physics, 300, 47.

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s11207-025-02457-5>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9792>

Publication Date: 2025-04



Author(s): Kumar, Prashant; BAPAT, BHAS et al.

Title: Aditya Solar Wind Particle Experiment (ASPEX) on Board Aditya-L1: The Solar Wind Ion Spectrometer (SWIS)

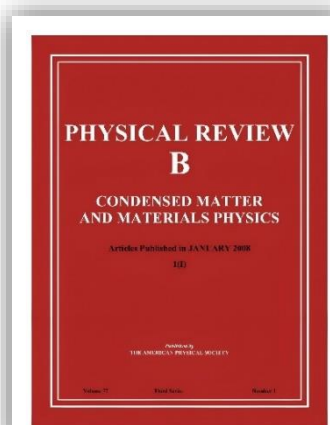
Citation: Solar Physics, 300, 37.

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s11207-025-02443-x>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9786>

Publication Date: 2025-03



Author(s): MANNA, SANDIPAN; Roy, Sthitadhi; SREEJITH, G. J.

Title: Projected ensemble in a system with locally supported conserved charges

Citation: Physical Review B, 111, 144302.

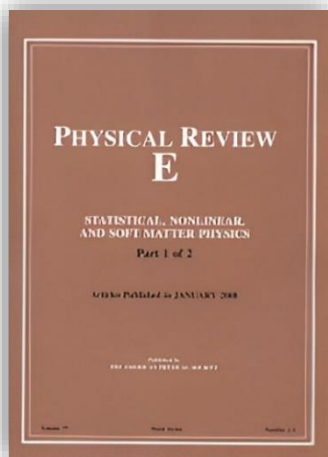
Publisher: American Physical Society

URI: <https://doi.org/10.1103/PhysRevB.111.144302>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9791>

Publication Date: 2025-04

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Author(s): MANNA, SANDIPAN; SREEJITH, G. J.

Title: Full distribution and large deviations of local observables in an exactly solvable current-carrying steady state of a strongly driven XXZ chain

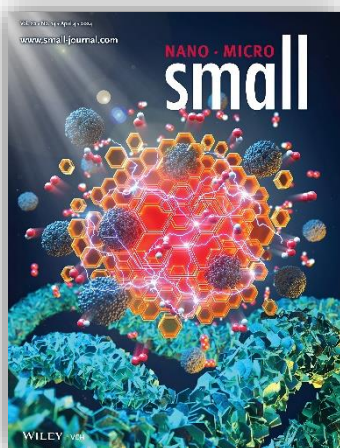
Citation: Physical Review E, 111, 044139.

Publisher: American Physical Society

URI: <https://doi.org/10.1103/PhysRevE.111.044139>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9778>

Publication Date: 2025-04



Author(s): Miglani, Aayushi; OGALE, SATISHCHANDRA B.; Game, Onkar S.

Title: Architectural Innovations in Perovskite Solar Cells

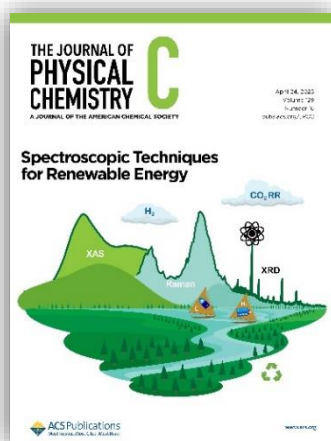
Citation: Small, 21(15).

Publisher: Wiley

URI: <https://doi.org/10.1002/sml.202411355>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9769>

Publication Date: 2025-04



Author(s): RAJPUT, UMASHANKAR; Akhtar, Md Faiz; VYAS, GIRIRAJ; Bhowmick, Somnath; Kumar, Prashant; DESHPANDE, APARNA

Title: Evolution of Atomistic Boron Clusters on Borophene Monolayers on Au(111)

Citation: Journal of Physical Chemistry C, 129(15), 7485-7492.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.jpcc.5c00397>

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Publication Date: 2025-04

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Author(s): Salazar, Edgar M.; Rozo, Eduardo; Garcia, Rafael; Kokron, Nickolas; ADHIKARI, SUSMITA; Diemer, Benedikt; Osinga, Calvin

Title: Dynamics-based halo model for large scale structure

Citation: Physical Review D, 111, 043527.

Publisher: American Physical Society

URI: <https://doi.org/10.1103/PhysRevD.111.043527>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9784>

Publication Date: 2025-02



Author(s): SEETHARAMAN, SIDDHARTH; SINGH, CHETANYA; NATH, REJISH

Title: Properties of Krylov state complexity in qubit dynamics

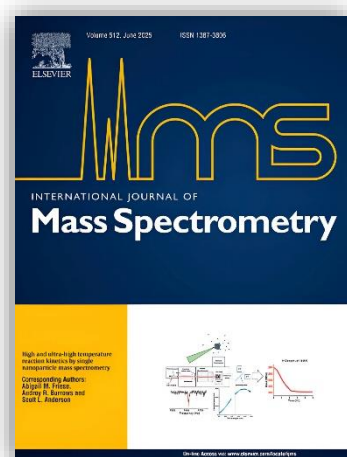
Citation: Physical Review D, 111, 076014.

Publisher: American Physical Society

URI: <https://doi.org/10.1103/PhysRevD.111.076014>

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Publication Date: 2025-04



Author(s): SRIVASTAV, AKASH; VISHNU, P.; BAPAT, BHAS

Title: Rectification of kinematic parameters of dissociative ionization derived from ion momentum spectra

Citation: International Journal of Mass Spectrometry, 508, 117392.

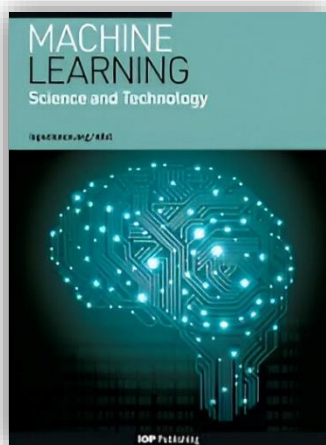
Publisher: Elsevier B.V.

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Author(s): SURESH, ABHINAV; Schlömer, Henning; Hashemi, Baran; Bohrdt, Annabelle

Title: Interpretable correlator Transformer for image-like quantum matter data

Citation: Machine Learning: Science and Technology, 6(02).

Publisher: IOP Publishing

URI: <https://doi.org/10.1088/2632-2153/adc071>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9767>

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