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July 2025**



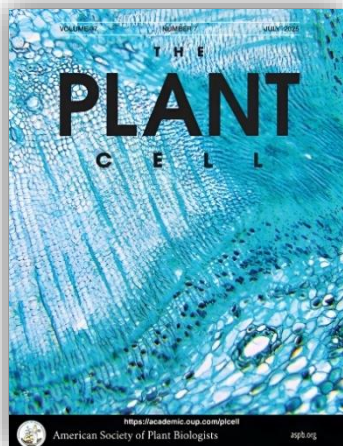
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BIOLOGY

Journal Articles



Author(s): Bennett, Malcolm; PRASAD, KALIKA et al.

Title: Developmental Pathways in Plants: Lessons from Arabidopsis for Crop Innovation

Citation: The Plant Cell, 37(07).

Publisher: Oxford University Press

URI: <https://doi.org/10.1093/plcell/koaf136>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10322>

Publication Date: 2025-07



Author(s): Bhattacharjee, Rupam; UDGAONKAR, JAYANT B.

Title: Protein Structural Characterization Using Electron Transfer Dissociation and Hydrogen Exchange-Mass Spectrometry

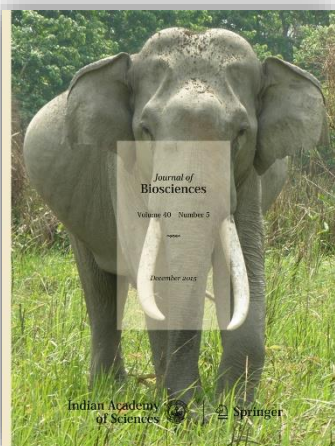
Citation: Bio-protocol, 15(12).

Publisher: Bio-protocol, LLC

URI: <https://doi.org/10.21769/BioProtoc.5350>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10245>

Publication Date: 2025-06



Author(s): BHIDE, AMEY J.; BANERJEE, ANJAN K.

Title: Redefining the nitroplast: Recent insights into the endosymbiont-to-organelle transition

Citation: Journal of Biosciences, 50(02).

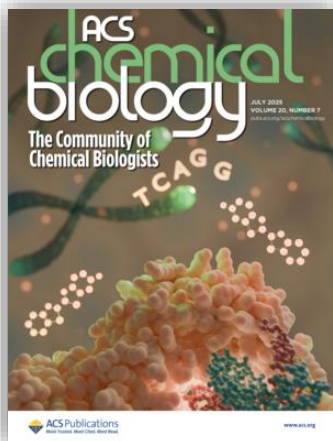
Publisher: Indian Academy of Sciences

URI: <https://doi.org/10.1007/s12038-025-00550-2>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10285>

Publication Date: 2025-06

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Author(s): Bhosale, Rashmi S.; CHAKRABORTY, ARNAB; KAMAT, SIDDHESH S.; GOKHALE, RAJESH S. et al.

Title: Enzymatic Pathway for Kupyaphore Degradation in Mycobacterium tuberculosis: Mechanism of Metal Homeostasis and Turnover

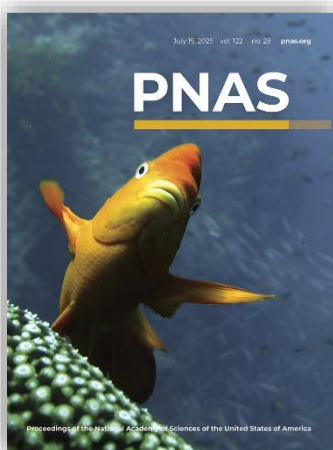
Citation: ACS Chemical Biology 20(07), 1492-1504.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acscchembio.5c00078>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10249>

Publication Date: 2025-07



Author(s): Garde, Shambhavi; Selvaraj, Harikrishnan; CHANDRAMOULI, AAKASH; Reddy, Gundlapally S.; Bahety, Devesh; Chodiseti, Pavan Kumar; KAMAT, SIDDHESH S.; Reddy, Manjula

Title: A conserved editing mechanism for the fidelity of bacterial cell wall biosynthesis

Citation: Proceedings of the National Academy of Sciences, 122(28), e2505676122.

Publisher: National Academy of Sciences

URI: <https://doi.org/10.1073/pnas.2505676122>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10301>

Publication Date: 2025-07



Author(s): Jani, Jaykumar; Mochi, Jigneshkumar; Shah, Smit; DAS, APURBA; Patel, Dhaval; PANANGHAT, GAYATHRI

Title: Unravelling the plasticity of substrate recognition by Staphylococcus aureus lysyl-tRNA synthetase and its implications for misacylation

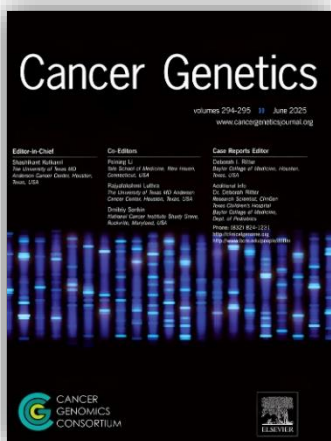
Citation: FEBS Journal.

Publisher: Wiley

URI: <https://doi.org/10.1111/febs.70185>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10291>

Publication Date: 2025-07



Author(s): JOHN, JISHA; BAPAT, ASHWINI; GAHLAUT, SIDDHARTH; THAKUR, YASHASWI; MATHEW, CHRISTINA; KONNUR, AISHWARYA; NAMEWAR, NAMRATA; REDDY, RUHI; NAGARKAR, SANKET; NARE, SMEETA; BUSHERI, LALEH; KELKAR, DEVAKI; DIXIT, SANTOSH; MISHRA, RUPA; KOPPIKER, CHAITANYANAND B. et al.

Title: Assessing germline mutational profile and its clinicopathological associations in Triple Negative Breast Cancer

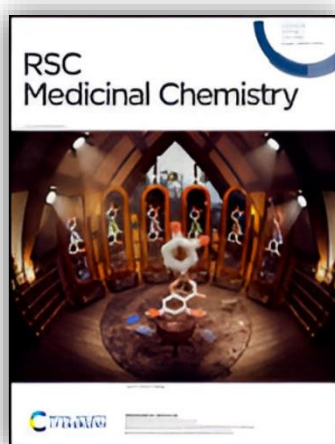
Citation: Cancer Genetics, 296-297, 65-75.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.cancergen.2025.06.004>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10244>

Publication Date: 2025-09



Author(s): KULSHRESHTHA, NISHANT NITINIDHI; Barthélémy, Philippe

Title: Lock and key: locked G quadruplexes could be the key to new modalities in nucleic acid therapeutics

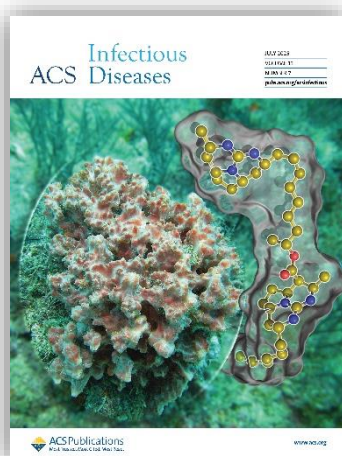
Citation: RSC Medicinal Chemistry.

Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D5MD00142K>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10286>

Publication Date: 2025-04



Author(s): KURPAD, SRIVATHSA SHANKAR; Dhar, Neeraj

Title: Playing Telephone: How Secondary Messengers Influence Host-Pathogen Interactions in Tuberculosis

Citation: ACS Infectious Diseases, 11(07), 1765-1779.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acsinfecdis.5c00077>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10248>

Publication Date: 2025-07

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Author(s): MATHEW, MABEL MARIA; DAS, SRIJAN; RAJAGOPALAN, KREEDIKA; PRASAD, KALIKA et al.

Title: Wound repair in plants guided by cell geometry

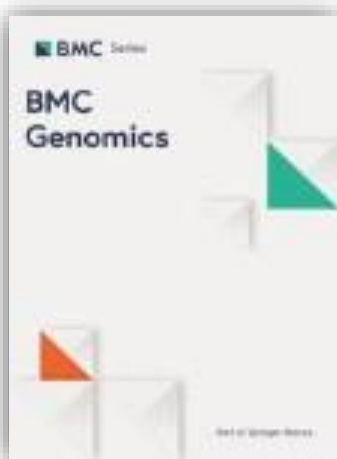
Citation: Current Biology.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.cub.2025.06.072>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10339>

Publication Date: 2025-07



Author(s): Mohanty, Ajeet Kumar; DESHPANDE, DIPTI; SHAH, DISHA; Nina, Praveen Balabaskaran; KARMODIYA, KRISHANPAL

Title: Increased heterozygosity and balancing selection in isofemale generations of *Anopheles stephensi* under laboratory conditions

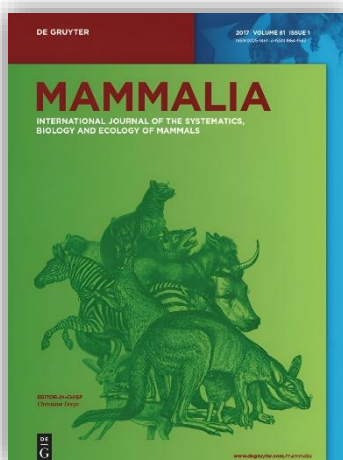
Citation: BMC Genomics, 26, 658.

Publisher: BioMed Central Ltd

URI: <https://doi.org/10.1186/s12864-025-11530-z>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10309>

Publication Date: 2025-07



Author(s): Mukherjee, Shomita; Choudhary, Prafull; ATHREYA, RAMANA

Title: Diet of Mainland Leopard Cat *Prionailurus bengalensis* within and outside a Protected Area in Arunachal Pradesh, India

Citation: Mammalia.

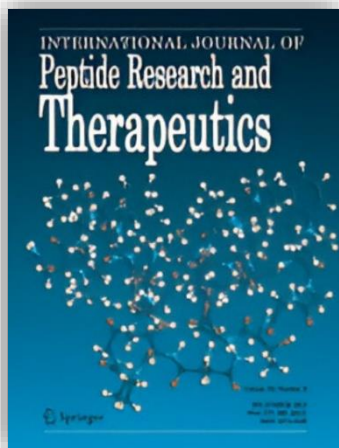
Publisher: De Gruyter

URI: <https://doi.org/10.1515/mammalia-2024-0112>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10292>

Publication Date: 2025-07

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Author(s): Pramod, G. N.; GAYATHRI, PANANGHAT et al.

Title: Peptide Epitope-Based Avian IgY Antibodies against SARS-CoV-2 Spike: A Cost Effective Approach for Viral Detection and Neutralization

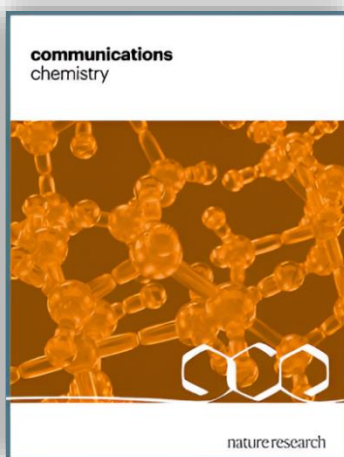
Citation: International Journal of Peptide Research and Therapeutics, 31(05).

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s10989-025-10739-6>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10337>

Publication Date: 2025-09



Author(s): SHANBHAG, KARTHIK; MHETRE, AMOL B.; SAHARAN, OJAL; DEVARAJAN, ARCHIT; RAI, ANISHA; MADHUSUDHAN, M. S.; CHAKRAPANI, HARINATH; KAMAT, SIDDHESH S.

Title: Chemoproteomics identifies protein ligands for monoacylglycerol lipids

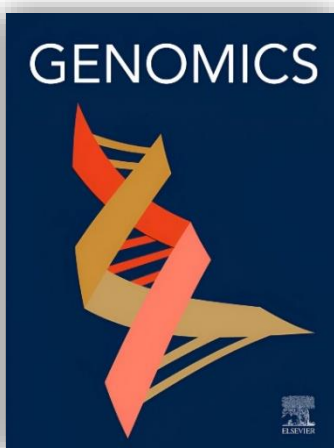
Citation: Communications Chemistry, 8, 197.

Publisher: Springer Nature

URI: <https://doi.org/10.1038/s42004-025-01589-w>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10284>

Publication Date: 2025-07



Author(s): Talukdar, Daizee; BAL, VINEETA et al.

Title: Genomic insights into the potency and functional roles of Lactobacillus species in term and preterm births

Citation: Genomics, 117(04), 111063.

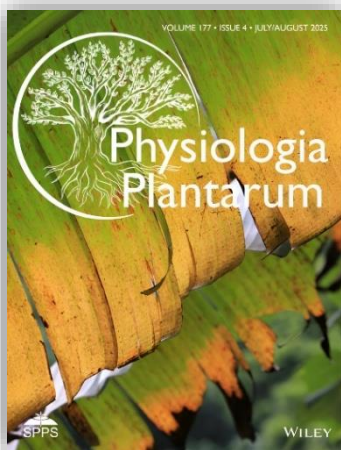
Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.ygeno.2025.111063>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10297>

Publication Date: 2025-07

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Author(s): Tiwari, Rakesh; BANDARU, PEDDIRAJU; BARUA, DEEPAK et al.

Title: Contrasting Seasonal Variation of Photosynthesis in Evergreen and Deciduous Tree Species from a Tropical Forest

Citation: Physiologia Plantarum, 177(04).

Publisher: Wiley

URI: <https://doi.org/10.1111/ppl.70410>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10330>

Publication Date: 2025-07



Author(s): TRIPATHI, SNEHA; GUPTA, EKTA; NAIK, RUTIKA; Khare, Satyajeet; MIR, RAFEEQ; KAMAT, SIDDHESH; Galande, Sanjeev

Title: Statins exhibit anti-tumor potential by modulating Wnt/ β -catenin signaling in colorectal cancer

Citation: Oncotarget, 16, 562-581.

Publisher: Rapamycin Press

URI: <https://doi.org/10.18632/oncotarget.28755>

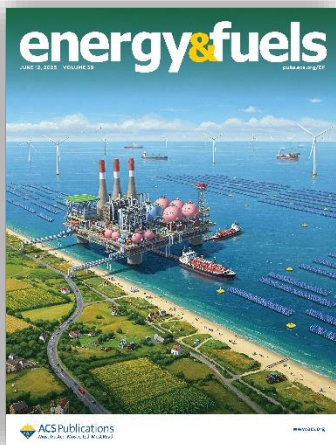
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10328>

Publication Date: 2025-07

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CHEMISTRY

Journal Articles



Author(s): BANERJEE, SRIJITA; NAG, ANGSHUMAN

Title: High-Temperature Synthesis of Colloidal $\text{CH}_3\text{NH}_3\text{PbBr}_3$ Perovskite Nanoplatelets and Nanocubes

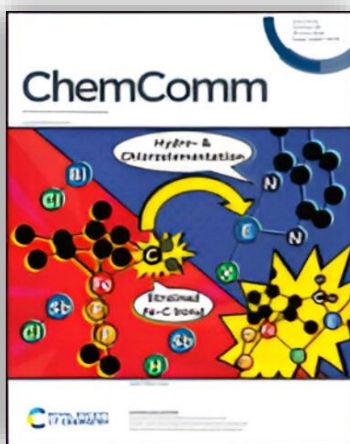
Citation: Energy & Fuels, 39(23), 11339-11345.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.energyfuels.5c00722>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10294>

Publication Date: 2025-06



Author(s): CHOUDHARY, BHARAT S.; Vashistha, Akshi; Ghosh, Ankan; Agarwal, Rachit; CHAKRAPANI, HARINATH

Title: An esterase-sensitive persulfide/hydrogen sulfide generating fluorogenic probe enhances antioxidant response

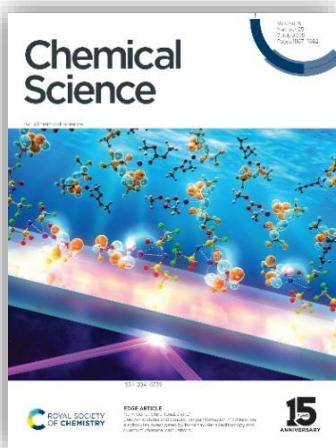
Citation: Chemical Communications.

Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D5CC01523E>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10306>

Publication Date: 2025-06



Author(s): GHOSH, MOUSHAKHI; GAURAV, KUMAR; PANWARIA, PRAKASH; PANDAY, RISHUKUMAR; Tothadi, Srinu; KHAN, SHABANA

Title: Driving diverse bond functionalisation with N-heterocyclic silylene-coinage metal-aryl complexes

Citation: Chemical Science

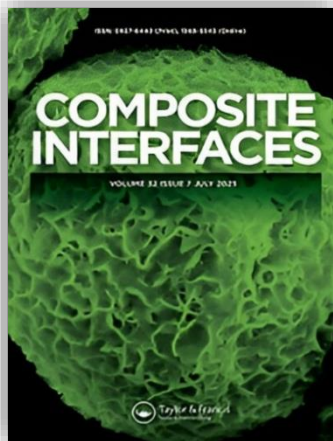
Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D5SC00879D>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10320>

Publication Date: 2025-06

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Author(s): Kamau, Mwangi; Al-Najm, Samir; NANDESHWAR, MEERA

Title: Recent advances in carbon-based nanocomposites for environmental remediation of industrial dyes

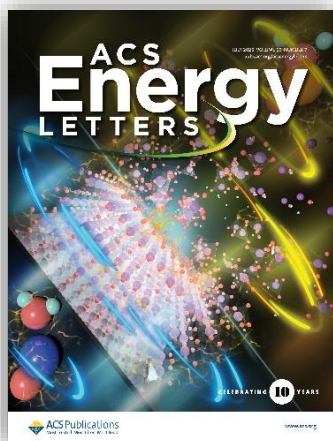
Citation: Composite Interfaces

Publisher: Taylor & Francis

URI: <https://doi.org/10.1080/09276440.2025.2534741>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10324>

Publication Date: 2025-07



Author(s): SARMA, MANMAYURI; MONDAL, BARNALI; Teotia, Yashvini; Adarsh, K. V.; NAG, ANGSHUMAN

Title: Defect-Mediated Exciton Storage in Ag-In-Ga-S Nanocrystals

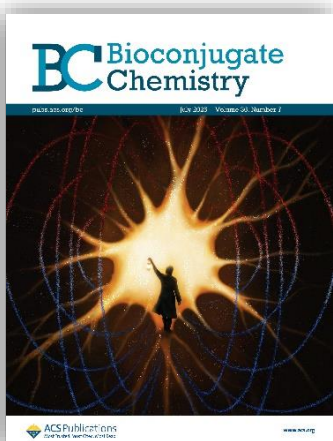
Citation: ACS Energy Letters, 10, 3892-3899.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acsenerylett.5c01727>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10336>

Publication Date: 2025-07



Author(s): ROY, SARUPA; SRIVATSAN, SEERGAZHI G.

Title: Probing SARS-CoV-2 G-Quadruplexes in the Nsp3 Gene Segment by Fluorescence and ^{19}F NMR Using a Functionalized Nucleoside Analog

Citation: Bioconjugate Chemistry

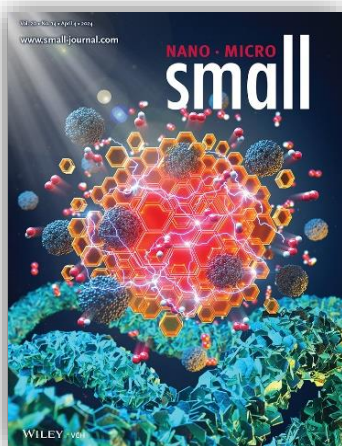
Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.bioconjchem.5c00157>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10323>

Publication Date: 2025-07

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Author(s): Prasad, Pragati Kishore; RAIGAWALI, RAKESH; ANAND, SAURABH; VISHWESHWARA, SHARATH S.; SHANTHAMURTHY, CHETHAN D.; KIKKERI, RAGHAVENDRA et al.

Title: Low-Background His-Tag-Targeting Probes for Turn-On Fluorescence Detection of Cell Surface Proteins and Their Binding Interactions

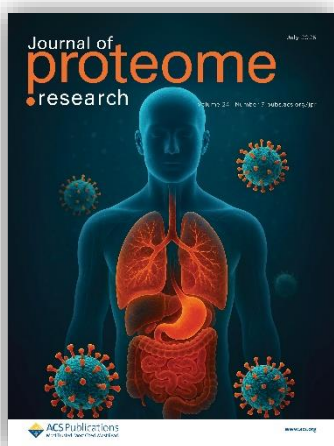
Citation: Small.

Publisher: Wiley

URI: <https://doi.org/10.1002/sml.202411730>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10302>

Publication Date: 2025-07



Author(s): SAHOO, SOUMYA SWASTIK; Save, Shreyada N.; Madiwale, Shantanu; Sharma, Shilpy; CHUGH, JEETENDER

Title: Visualization of Early and Late Molecular Events Associated with the Development of Type 1 Diabetes Using NMR Spectroscopy

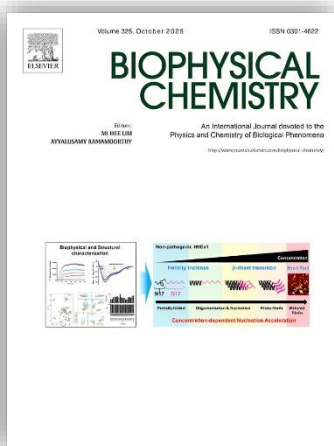
Citation: Journal of Proteome Research.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.jproteome.5c00301>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10314>

Publication Date: 2025-07



Author(s): Save, Shreyada N.; SAHOO, SOUMYA S.; Ananthamohan, Kalyani; YOUSF, SALEEM; Singh, Pratishtha; Aazmi, Osama; CHUGH, JEETENDER; Sharma, Shilpy

Title: Mapping the metabolic perturbations associated with palmitate-induced oxidative stress and development of insulin resistance in skeletal muscle cells

Citation: Biophysical Chemistry, 326, 107490.

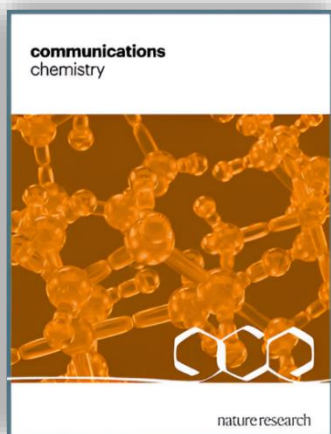
Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.bpc.2025.107490>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10325>

Publication Date: 2025-11

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Author(s): SHANBHAG, KARTHIK; MHETRE, AMOL B.; SAHARAN, OJAL; DEVARAJAN, ARCHIT; RAI, ANISHA; MADHUSUDHAN, M. S.; CHAKRAPANI, HARINATH; KAMAT, SIDDHESH S.

Title: Chemoproteomics identifies protein ligands for monoacylglycerol lipids

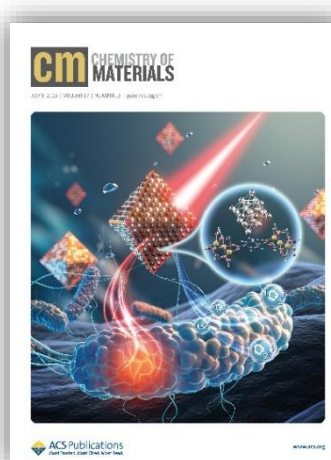
Citation: Communications Chemistry, 8, 197.

Publisher: Springer Nature

URI: <https://doi.org/10.1038/s42004-025-01589-w>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10284>

Publication Date: 2025-07



Author(s): SINGH, PIYUSH; SINGH, HIMAN DEV; Vysyaraju, Raviraju; Liske, Gwyneth; SHEKHAR, PRAGALBH; SINGH, YASHRAJ KUMAR; Rajendran, Arvind; VAIDHYANATHAN, RAMANATHAN

Title: Potential of a Water-Stable Ultramicroporous Aluminum Gallate Metal Organic Framework as Sorbent for Upgradation of Natural Gas

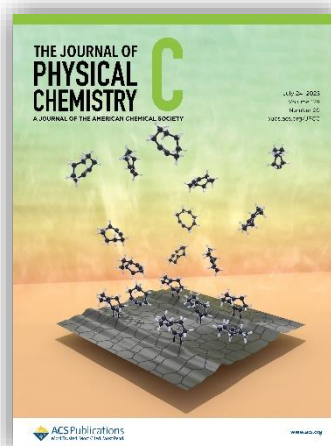
Citation: Chemistry of Materials

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.chemmater.4c03489>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10319>

Publication Date: 2025-07



Author(s): Suneetha, N.; Ananthram, K. S.; BALLAV, NIRMALYA; Tarafder, Kartick

Title: Coexistence of Spin-Polarized Dirac and Weyl Nodes in 2D Electride Ferromagnet Yttrium Iodide

Citation: Journal of Physical Chemistry C, 129(29), 13359-13365.

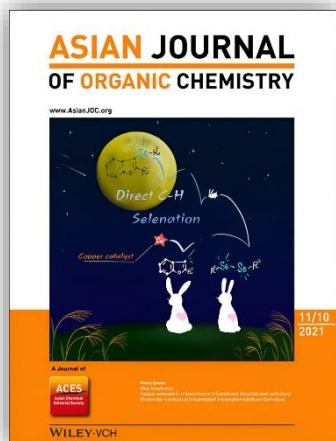
Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.jpcc.5c01270>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10321>

Publication Date: 2025-07

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Author(s): THORAT, SACHIN M.; BHOWMICK, ANINDITA; Sambasivan, Sunderraman; BHAT, RAMAKRISHNA G.

Title: Visible-Light Photoredox Catalyzed Facile Synthesis of 2-Amino-1,3,4-Thiadiazoles from Aldehydes and Thiosemicarbazides

Citation: Asian Journal of Organic Chemistry

Publisher: Wiley

URI: <https://doi.org/10.1002/ajoc.202500386>

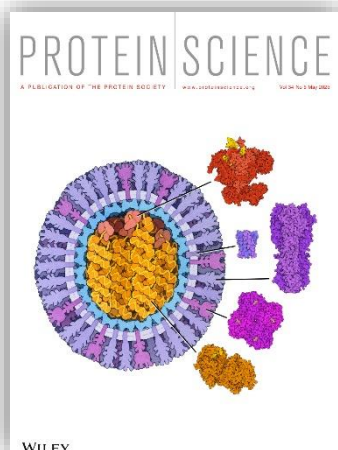
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10307>

Publication Date: 2025-07

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DATA SCIENCE

Journal Articles



Author(s): SAHNI, RUCHIR; Kumar, Nishant; Raghava, Gajendra P. S.

Title: HAIRpred: Prediction of human antibody interacting residues in an antigen from its primary structure

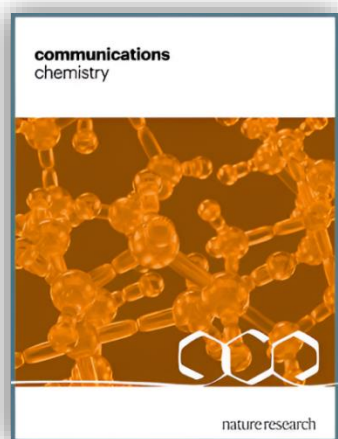
Citation: Protein Science, 34(08).

Publisher: Wiley

URI: <https://doi.org/10.1002/pro.70212>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10318>

Publication Date: 2025-08



Author(s): SHANBHAG, KARTHIK; MHETRE, AMOL B.; SAHARAN, OJAL; DEVARAJAN, ARCHIT; RAI, ANISHA; MADHUSUDHAN, M. S.; CHAKRAPANI, HARINATH; KAMAT, SIDDHESH S.

Title: Chemoproteomics identifies protein ligands for monoacylglycerol lipids

Citation: Communications Chemistry, 8, 197.

Publisher: Springer Nature

URI: <https://doi.org/10.1038/s42004-025-01589-w>

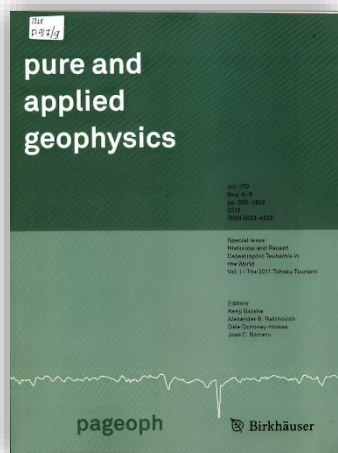
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10284>

Publication Date: 2025-07

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EARTH AND CLIMATE SCIENCE

Journal Article



Author(s): Mandal, Prantik; Prathigada, Raju; SAHA, GOKUL; Kumar, Sudesh

Title: Study of the Indian Shield's Crustal and Lithospheric Structure Based on Joint Inversion of P-Receiver Functions and Rayleigh Wave Fundamental Mode Group Velocity Dispersion Data

Citation: Pure and Applied Geophysics.

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s00024-025-03779-y>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10331>

Publication Date: 2025-07

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HUMANITIES AND SOCIAL SCIENCES

Journal Articles



Author(s): MULAY, RADHIKA; Gokhale, Pallavee

Title: The Peshwa Nahar System: Sustainable Water Management in the Past and for the Future

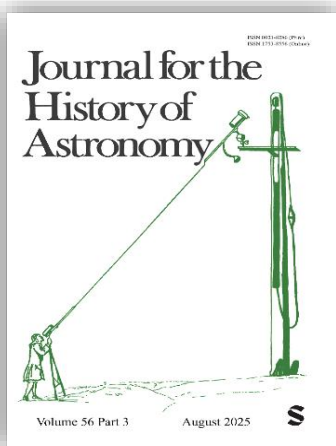
Citation: Blue Papers, 4(01).

Publisher: Stichting OpenAccess

URI: <https://doi.org/10.58981/bluepapers.2025.1.08>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9442>

Publication Date: 2025-07



Author(s): Nambrath, Priyamvada; PAI, VENKETESWARA R.

Title: Parahitakaraṇam: A medieval formulary manual in the Kerala vernacular for calculating planetary mean longitudes

Citation: Journal for the History of Astronomy, 56(03), 332-349.

Publisher: Sage Publications

URI: <https://doi.org/10.1177/00218286251346592>

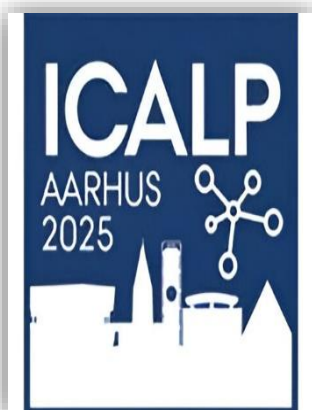
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10332>

Publication Date: 2025-08

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MATHEMATICS

Conference Paper



Author(s): Bandyapadhyay, Sayan; Lochet, William; Lokshtanov, Daniel; Marx, Dániel; Misra, Pranabendu; Neuen, Daniel; Saurabh, Saket; TALE, PRAFULLKUMAR; Xue, Jie

Title: Robust Contraction Decomposition for Minor-Free Graphs and Its Applications

Citation: International Colloquium on Automata, Languages, and Programming (ICALP)

Publisher: Schloss Dagstuhl- Leibniz-Zentrum für Informatik GmbH, Dagstuhl Publishing

URI: <https://doi.org/10.4230/LIPIcs.ICALP.2025.17>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10304>

Publication Date: 2025-06

Journal Articles



Author(s): Abdullah, Ansari; MAHALANOBIS, AYAN

Title: A Zero Minor Solves the Elliptic Curve Discrete Logarithm Problem

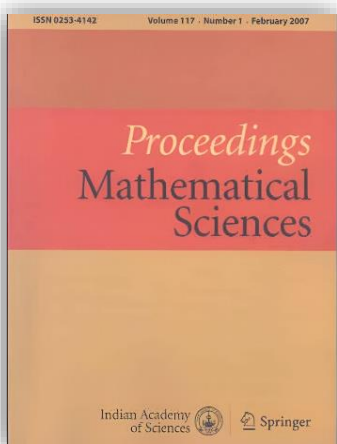
Citation: Experimental Mathematics.

Publisher: Taylor & Francis

URI: <https://doi.org/10.1080/10586458.2025.2525844>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10334>

Publication Date: 2025-07



Author(s): BHAGWAT, CHANDRASHEEL; JAISWAL, SHUBHAM

Title: Cluster magnification, root capacity, unique chains, base change and ascending index

Citation: Proceedings - Mathematical Sciences, 135, 19.

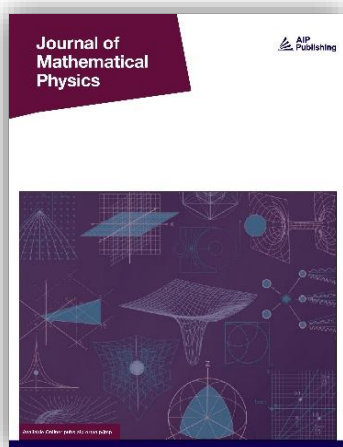
Publisher: Springer Nature

URI: <https://doi.org/10.1007/s12044-025-00823-8>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10310>

Publication Date: 2025-07

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Author(s): JOSEPH, KAYYUNNAPARA DIVYA

Title: Initial boundary value problem for a system derived from Eulerian droplet model for air particle flow

Citation: Journal of Mathematical Physics, 66(07).

Publisher: AIP Publishing

URI: <https://doi.org/10.1063/5.0250263>

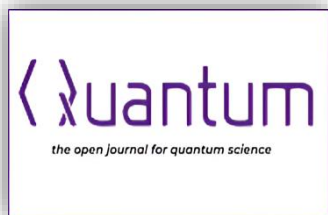
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10312>

Publication Date: 2025-07

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PHYSICS

Journal Articles



Author(s): AGRAWAL, GAURANG; Halder, Pritam; Sen De, Aditi

Title: Indefinite Time Directed Quantum Metrology

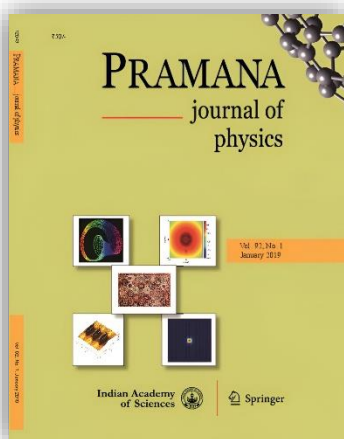
Citation: Quantum, 9, 1785.

Publisher: Verein Forderung Open Access Publizierens

URI: <https://doi.org/10.22331/q-2025-07-03-1785>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10316>

Publication Date: 2025-07



Author(s): Arora, Vikas; Pal, Sukanya; HARNAGEA, LUMINITA; Muthu, D V S; Sood, A. K.

Title: Ultrafast dynamics of coherent phonon modes in the excitonic insulator Ta_2NiSe_5

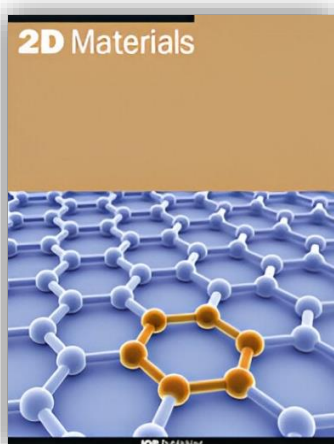
Citation: Pramana, 99, 95.

Publisher: Indian Academy of Sciences

URI: <https://doi.org/10.1007/s12043-025-02941-4>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10311>

Publication Date: 2025-07



Author(s): CHATTERJEE, SAGNIK; CHOWDHURY, TAMAGHNA; RAJPUT, MANISHA; RAHMAN, ATIKUR et al.

Title: Twists and turns: stacking and structure-dependent optical response in MoS_2 nanoscrolls

Citation: 2D Materials, 12(04).

Publisher: IOP Publishing

URI: <https://doi.org/10.1088/2053-1583/ade9d8>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10326>

Publication Date: 2025-07

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

Title: Determination of the strong coupling and its running from measurements of inclusive jet production

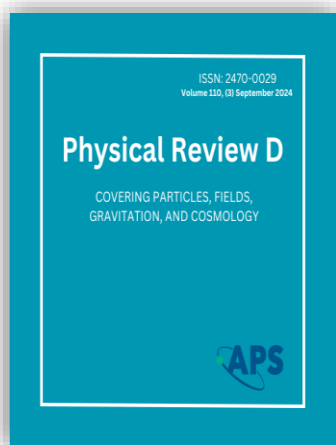
Citation: Physics Letters B, 868, 139651.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.physletb.2025.139651>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10298>

Publication Date: 2025-09



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

Title: Search for heavy neutral resonances decaying to tau lepton pairs in proton-proton collisions at $\sqrt{s}=13$ TeV

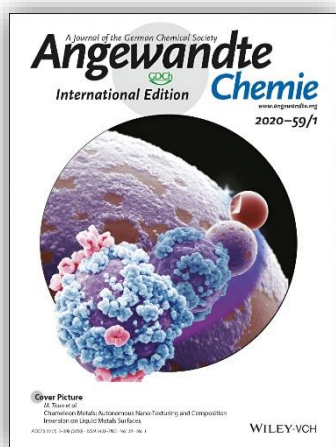
Citation: Physical Review D, 111, 112004.

Publisher: American Physical Society

URI: <https://doi.org/10.1103/PhysRevD.111.112004>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10295>

Publication Date: 2025-06



Author(s): Halder, Indrajit; KEDIA, DINESH KUMAR; SINGH, SURJEET et al.

Title: Conduction Band Convergence and Modular Nanostructures: Driving High Thermoelectric Performance in n-Type PbSe

Citation: Angewandte Chemie International Edition

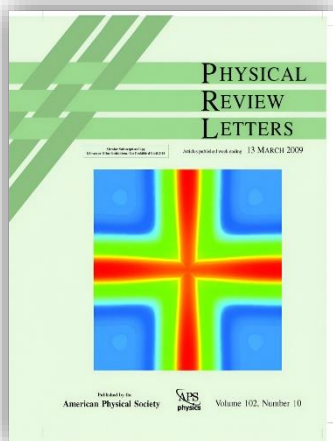
Publisher: Wiley

URI: <https://doi.org/10.1002/anie.202510305>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10335>

Publication Date: 2025-07

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Author(s): JAIN, SOURABH; Glazov, Mikhail; ARORA, ASHISH

Title: Excited-State Trions in a Quantum Well

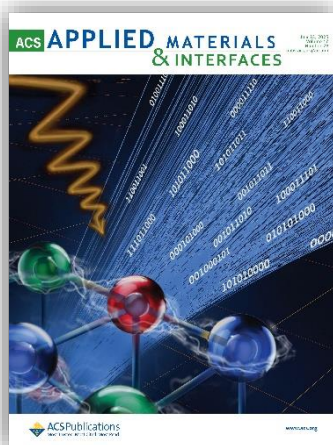
Citation: Physical Review Letters, 134, 246902.

Publisher: American Physical Society

URI: <https://doi.org/10.1103/8181-jzj5>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10333>

Publication Date: 2025-06



Author(s): Mehra, Brijesh Singh; Kumar, Sanjeev; Dubey, Gaurav; Sharma, Karan Datt; Sharma, Deepali; Sreeja, Devu S. S. Surendrakurup; Singh, Ravi Shankar; NAIR, SUNIL; Rana, Dhanvir Singh

Title: Colossal Intrinsic Phase-Shift in Broad sub-Terahertz Band Enabled by Magnetoelastic Coupling for 6G Communication Technology

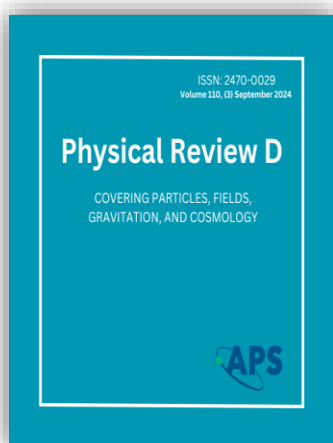
Citation: ACS Applied Materials & Interfaces, 17(30).

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acsami.5c06679>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10329>

Publication Date: 2025-07



Author(s): MOHD, ALI; VARDARAJAN, SUNEETA

Title: Causal structure of higher curvature gravity

Citation: Physical Review D, 112, 024063.

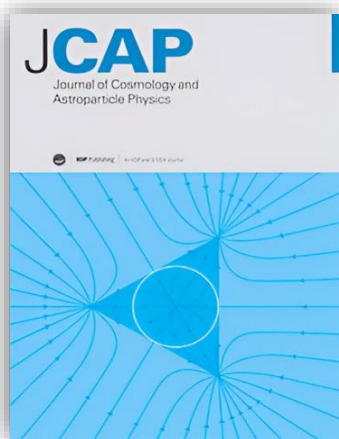
Publisher: American Physical Society

URI: <https://doi.org/10.1103/pzdl-crjb>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10338>

Publication Date: 2025-07

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Author(s): PUNDIR, GAURAV; Paranjape, Aseem; Choudhury, Tirthankar Roy

Title: Accelerating HI density predictions during the Epoch of Reionization using a GPR-based emulator on N-body simulations

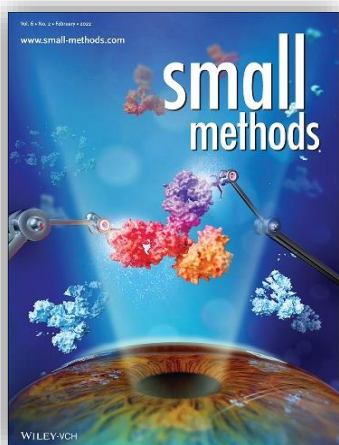
Citation: Journal of Cosmology and Astroparticle Physics, 2025.

Publisher: IOP Publishing

URI: <https://doi.org/10.1088/1475-7516/2025/06/045>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10242>

Publication Date: 2025-06



Author(s): RAHMAN, AYESHA; Ganguly, Vijit; MAJUMDER, SUDIPTA; CHATTERJEE, SAGNIK; MAHAPATRA, AVINASH; BAJPAI, ASHNA; Sain, Anirban; RAHMAN, ATIKUR

Title: Thermodynamic Control of Nanoparticle Fabrication via Confined Dewetting

Citation: Small Methods

Publisher: Wiley

URI: <https://doi.org/10.1002/smtd.202500245>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10308>

Publication Date: 2025-07



Author(s): RAJ, HARSHIT; Dhurandhar, Sanjeev; Tinto, Massimo

Title: A Novel Search Technique for Low-Frequency Periodic Gravitational Waves

Citation: Universe, 11(6), 168.

Publisher: MDPI

URI: <https://doi.org/10.3390/universe11060168>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10296>

Publication Date: 2025-06

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Author(s): RANJAN, RAJEEV

Title: Entropy-stabilized ZrHfCoNiSnSb half-Heusler alloy for thermoelectric applications: a theoretical prediction

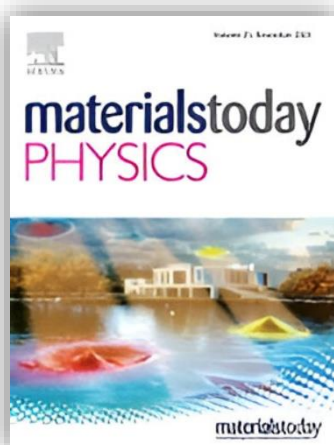
Citation: Physical Chemistry Chemical Physics, 27(29), 15622-15634.

Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D5CP01601K>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10313>

Publication Date: 2025-07



Author(s): Sarkar, Pritam; GUPTA, PANKAJ; Shenoy, U. Sandhya; SINGH, SURJEET; Kundu, Sayandeep; Kumawat, Nitin; KEDIA, DINESH KUMAR; Bhat, D. Krishna; Bhattacharya, Shovit; Singh, Ajay

Title: High figure-of-merit in Zn, Sb co-doped $\text{Mg}_2\text{Si}_{0.3}\text{Sn}_{0.7}$ alloy through simultaneous optimization of electrical and thermal transports

Citation: Materials Today Physics, 57, 101776.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.mtphys.2025.101776>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10300>

Publication Date: 2025-09

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