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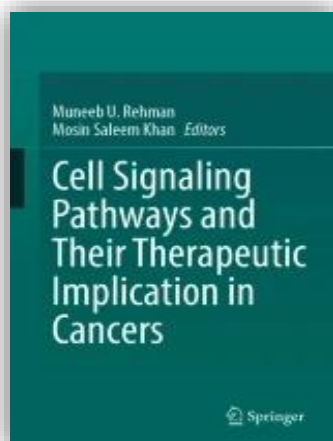
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BIOLOGY

Book Chapter



Author(s): Rehman, Andleeb; Khan, Nihad Ashraf; Rashid, Gowhar; Tamanna, Sonia; Jindal, Riya; SETH, NAMRATA; Bashir, Baiza; Mushtaq, Gulshan; Salman, Mohd; Parveen, Sadma

Title: Cell Signaling Pathways and Their Therapeutic Implication in Cancers

Citation: Cell Signaling Pathways and Their Therapeutic Implication in Cancers, 235-264.

Publisher: Springer Nature

URI: https://doi.org/10.1007/978-981-96-2763-9_8

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10103>

Publication Date: 2025-03

Conference Paper



Author(s): Sengupta, Rakesh; Shukla, Anuj; Janapati, Ravichander; VERMA, BHAVESH

Title: Temporal Dynamics of Human Perceptual Averaging Using a Neural Network Model

Citation: Proceedings of the 15th International Conference on Soft Computing and Pattern Recognition (SoCPaR 2023)

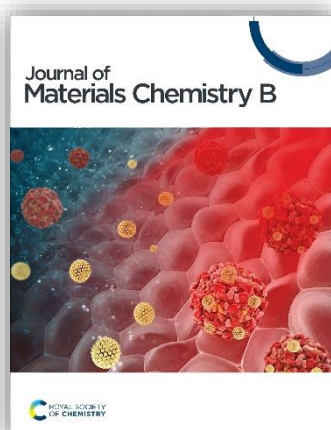
Publisher: Springer Nature

URI: https://doi.org/10.1007/978-3-031-81083-1_9

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10100>

Publication Date: 2025-04

Journal Articles



Author(s): AHMAD, MANZOOR; ROY, NAVEEN J.; MONDAL, DEBASHIS; Vijayakanth, Thangavel; LAHIRI, MAYURIKA; TALUKDAR, PINAKI

Title: Illuminating apoptosis: a visible light-activated chloride carrier for chloride transport and cell death

Citation: Journal of Materials Chemistry B, 13(20), 5957-5966.

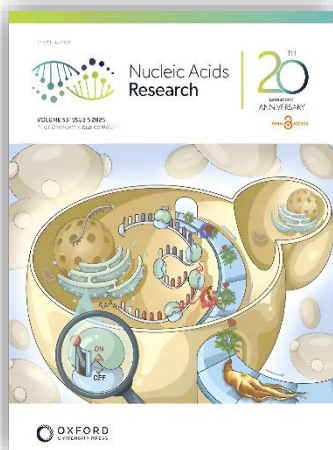
Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D4TB02436B>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9921>

Publication Date: 2025-05

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Author(s): CHAKRABORTY, ATREYI; SRIMALI, SAKSHAM; TOPNO, ROHAN; RANSHUR, AJINKYA; MADHUSUDHAN, M. S.

Title: MAGNETIC: a web server to fetch gene network based on motif distribution in promoters

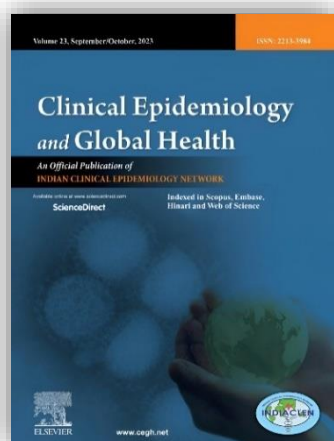
Citation: Nucleic Acids Research.

Publisher: Oxford University Press

URI: <https://doi.org/10.1093/nar/gkaf420>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10079>

Publication Date: 2025-04



Author(s): JOHN, JISHA; JOSHI, ANJALI; LULLA, VISHESHA; SCARIMBOLO, JUSTIN; ROTITHOR, PRADNYA; Joshi, Shalaka; MISHRA, RUPA; KOPPIKER, C.B.; JOSHI, SNEHA

Title: Adapting global tools for local realities: Linguistic validation of the BREAST-Q BCT module in Hindi and Marathi for breast cancer surgical management in India

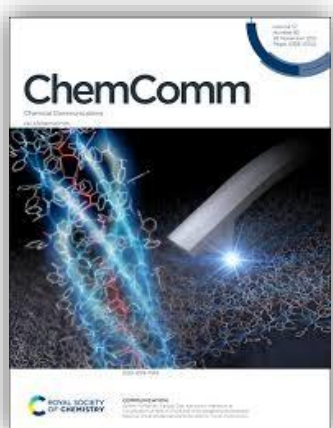
Citation: Clinical Epidemiology and Global Health, 34,102021.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.cegh.2025.102021>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10110>

Publication Date: 2025-07



Author(s): RAIGAWALI, RAKESH; ANAND, SAURABH; CHANDRA, ANKITA; MAHIDA, VIRENDRASINH; BHOGE, PREETI RAVINDRA; ABRAHAM, JANCY NIXON; KIKKERI, RAGHAVENDRA

Title: Comparative analysis of sulfated l-idose and l-iduronic acid in neoproteoglycan cell surface engineering

Citation: Chemical Communications.

Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D5CC00527B>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10080>

Publication Date: 2025-05

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Author(s): Rawat, Akanksha; Antil, Neelam; Meenakshi; DESHMUKH, BHAGYASHREE; Rai, Akhila Balakrishna; Nagar, Annu; Kumar, Narendra; Prasad, T. S. Keshava; KARMODIYA, KRISHANPAL; Sharma, Pushkar

Title: PfPPM2 signalling regulates asexual division and sexual conversion of human malaria parasite *Plasmodium falciparum*

Citation: Nature Communications, 16, 4790.

Publisher: Springer Nature

URI: <https://doi.org/10.1038/s41467-025-59476-w>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10106>

Publication Date: 2025-05



Author(s): Sharma, Perna; SHAH, NIKITA; RAJESHWARI, B. R.; BALASUBRAMANIAN, NAGARAJ et al.

Title: Golgi Localized Arl15 Regulates Cargo Transport and Cell Adhesion

Citation: Traffic, 26(4-6).

Publisher: Wiley

URI: <https://doi.org/10.1111/tra.70004>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9812>

Publication Date: 2025-04



Author(s): Tiwari, Mahak; DINGANKAR, MIHIR; Das, Jyoti; Sreelekshmi, S. R.; Solanki, Apurv; Subramanyam, Deepa

Title: CLCa mediates a novel cross-talk between Wnt secretion and actin organization

Citation: Life Science Alliance, 8(07).

Publisher: Life Science Alliance LLC

URI: <https://doi.org/10.26508/lsa.202402962>

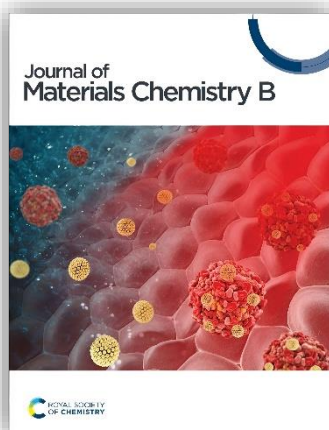
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Publication Date: 2025-07

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CHEMISTRY

Journal Articles



Author(s): AHMAD, MANZOOR; ROY, NAVEEN J.; MONDAL, DEBASHIS; Vijayakanth, Thangavel; LAHIRI, MAYURIKA; TALUKDAR, PINAKI

Title: Illuminating apoptosis: a visible light-activated chloride carrier for chloride transport and cell death

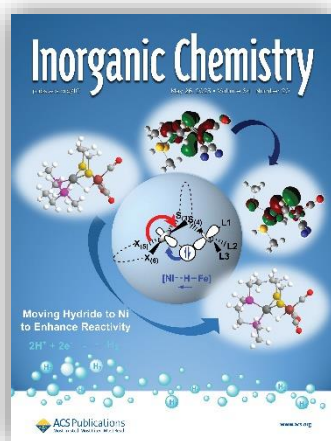
Citation: Journal of Materials Chemistry B, 13(20), 5957-5966.

Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D4TB02436B>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9921>

Publication Date: 2025-05



Author(s): JOSE, CAVYA; SARKAR, ABHRADEEP; Khopade, Kishor V.; BOOMISHANKAR, RAMAMOORTHY

Title: Portal Substituent Modulations in Chiral Imido-Pd(II) Cages for the Enhanced Separation of Styrene Oxide Enantiomers

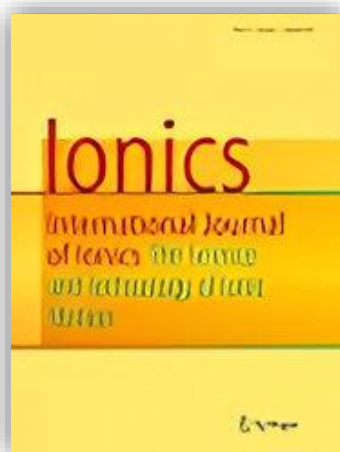
Citation: Inorganic Chemistry, 62(20), 10313-10319.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.inorgchem.5c01469>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10109>

Publication Date: 2025-05



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

Title: Phase pure SnSb nanocrystals for reversible sodium storage in sodium-ion batteries

Citation: Ionics.

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s11581-025-06375-1>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10112>

Publication Date: 2025-05

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Author(s): Kumar, Amritesh; Arora, Nidhi; Rawat, Shivam; Mishra, Rakesh K.; DESHPANDE, APARNA; HOTH, SRINIVAS; Bhaskar, Thallada

Title: Biomass-based carbon material for next-generation sodium-ion batteries: insights and SWOT evaluation

Citation: Environmental Research, 279, Part 2, 121854.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.envres.2025.121854>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10105>

Publication Date: 2025-08



Author(s): MONDAL, BARNALI; Mehta, Sakshi; Mondal, Abhishake; NAG, ANGSUMAN

Title: W-Doped Cs_2SnCl_6 for Near-Infrared Emission

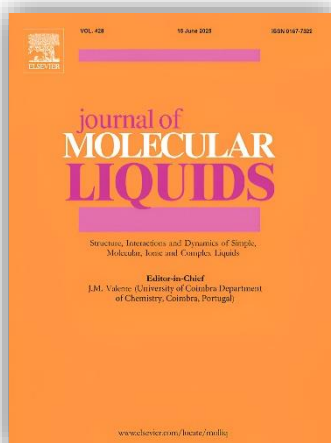
Citation: Journal of Physical Chemistry Letters, 16(20), 4937–4943.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.jpcllett.5c00822>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10077>

Publication Date: 2025-05



Author(s): MUKHERJEE, UTTAMA; PRAKASH, PRABHAT; VENKATNATHAN, ARUN

Title: Structure and dynamics of CO_2 absorption in aqueous potassium lysinate solutions

Citation: Journal of Molecular Liquids, 432, 127749.

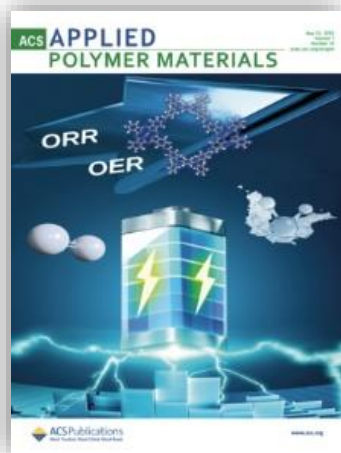
Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.molliq.2025.127749>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9923>

Publication Date: 2025-08

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Author(s): Roy, Subhadip; Pan, Swagata; SIVARAM, SWAMINATHAN; De, Priyadarsi

Title: Flavylum-Containing Polymeric Probe as Encryption Ink for Reversible Sensing of Bisulfite Ions and Formaldehyde

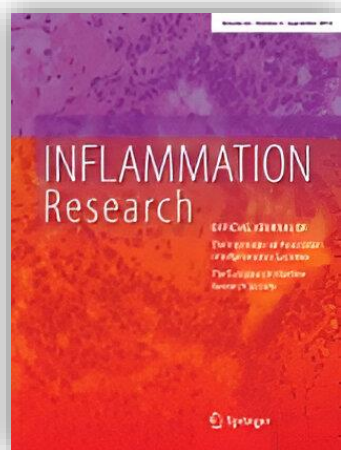
Citation: ACS Applied Polymer Materials.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acsapm.5c01099>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10116>

Publication Date: 2025-05



Author(s): Nair, Aswathy S.; MAKHAL, ARNAB; CHAKRAPANI, HARINATH et al.

Title: Influence of homocysteine on regulating immunothrombosis: mechanisms and therapeutic potential in management of infections

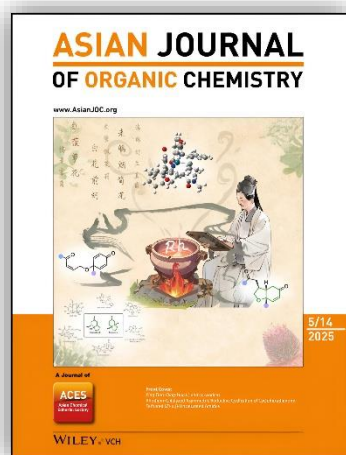
Citation: Inflammation Research, 74, 86.

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s00011-025-02045-0>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10120>

Publication Date: 2025-05



Author(s): SABALE, ABHIJEET S.; BHOWMICK, ANINDITA; PATTANAIK, SASWATA; BANKAR, ONKAR S.; BHAT, RAMAKRISHNA G.

Title: Direct Access to 3,4-Fused Spirooxindoles Through Visible-Light-Driven Diastereoselective [4+2] Cyclization of 3-Methylene Oxindoles

Citation: Asian Journal of Organic Chemistry.

Publisher: Wiley

URI: <https://doi.org/10.1002/ajoc.202500424>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10073>

Publication Date: 2025-04

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Author(s): Thompson, Ally; Sankaranarayanan, Nehru Viji; Chittum, John E.; MAHIDA, VIRENDRASINH; VISHWESHWARA, SHARATH S.; RAIGAWALI, RAKESH; ANAND, SAURABH; KIKKERI, RAGHAVENDRA; Desai, Umesh R.

Title: Identification of an Unnatural Sulfated Monosaccharide as a High-Affinity Ligand for Pan-Variant Targeting of SARS-CoV-2 Spike Glycoprotein

Citation: ACS Chemical Biology.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acscchembio.5c00206>

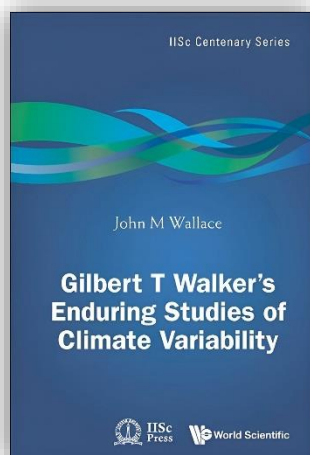
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10076>

Publication Date: 2025-05

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EARTH AND CLIMATE SCIENCE

Book chapter



Author(s): MONTEIRO, JOY MERWIN

Title: Gilbert Thomas Walker in India: A Historical Overview

Book Title: Gilbert T Walker's Enduring Studies of Climate Variability

Citation: Gilbert T Walker's Enduring Studies of Climate Variability, 11-21.

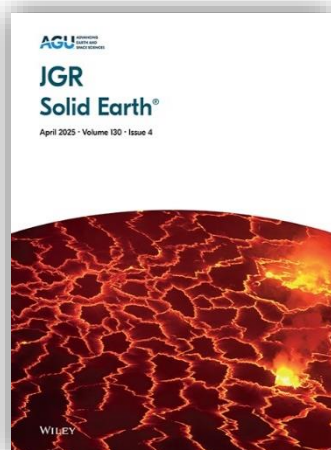
Publisher: World Scientific Publishing

URI: https://doi.org/10.1142/9789811294808_0002

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9892>

Publication Date: 2025-01

Journal Articles



Author(s): BARUAH, PRATIKSHA P.; MANI, NEENA JOSEPH; ETTAMMAL, SUHAS

Title: The Role of Tropical Synoptic-Scale Disturbances in Modulating the Strength of East Pacific Hadley Circulation

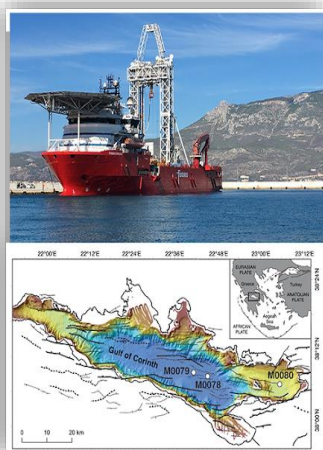
Citation: Journal of Geophysical Research: Atmospheres, 130(09).

Publisher: Wiley

URI: <https://doi.org/10.1029/2024JD042980>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9809>

Publication Date: 2025-05



Author(s): Pechlivanidou, S.; ISMAIEL, M. et al.

Title: Data report: age-depth model of the Corinth synrift sequence, Site M0079, IODP Expedition 381

Citation: Proceedings of the International Ocean Discovery Program, 381.

Publisher: International Ocean Discovery Program

URI: <https://doi.org/10.14379/iodp.proc.381.201.2025>

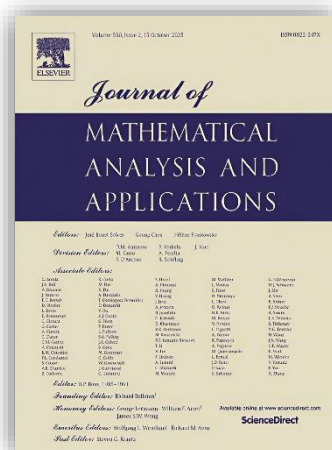
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10119>

Publication Date: 2025-04

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MATHEMATICS

Journal Articles



Author(s): BHATNAGAR, ANJALI

Title: On the geodesics of the Szegő metric

Citation: Journal of Mathematical Analysis and Applications, 550(02), 129642.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.jmaa.2025.129642>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10108>

Publication Date: 2025-10



Author(s): BISWAS, ANUP; Quaas, Alexander; Topp, Erwin

Title: Nonlocal Liouville theorems with gradient nonlinearity

Citation: Journal of Functional Analysis, 289(08), 111008.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.jfa.2025.111008>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9919>

Publication Date: 2025-10



Author(s): Das, B. Krishna; Kumar, Poornendu; SAU, HARIPADA

Title: Distinguished varieties and the Nevanlinna-Pick problem on the symmetrized bidisk

Citation: Mathematische Zeitschrift, 310(03).

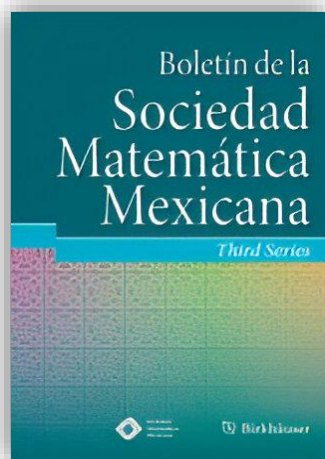
Publisher: Springer Nature

URI: <https://doi.org/10.1007/s00209-025-03740-8>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9918>

Publication Date: 2025-07

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Author(s): DAUNDKAR, NAVNATH; Deshpande, Priyavrat

Title: Real Bott manifold structure of n -dimensional Klein bottle and its rational Betti numbers

Citation: Boletín de la Sociedad Matemática Mexicana, 31(66).

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s40590-025-00747-3>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9811>

Publication Date: 2025-04

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PHYSICS

Journal Articles



Author(s): Kumar, Amritesh; Arora, Nidhi; Rawat, Shivam; Mishra, Rakesh K.; DESHPANDE, APARNA; HOTH, SRINIVAS; Bhaskar, Thallada

Title: Biomass-based carbon material for next-generation sodium-ion batteries: insights and SWOT evaluation

Citation: Environmental Research, 279, Part 2, 121854.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.envres.2025.121854>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10105>

Publication Date: 2025-08



Author(s): Bagaria, Tanu; Borgohain, Taranga; JADHAV, SWATI; Das, Tisita; Debnath, Bharati

Title: Tunable Charge Distribution in Self-Supported NiCoP Through V and Mo Incorporation for Efficient Hydrogen Evolution in all pH Ranges and Alkaline Seawater

Citation: Small

Publisher: Wiley

URI: <https://doi.org/10.1002/sml.202503368>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9917>

Publication Date: 2025-04



Author(s): Bendre, Ankita; Lad, Rohini; Dole, Sharwani; VAISHNAV, SAURABH; Sudame, Onkar; Nadkarni, Sunil; Mulherkar, Rita

Title: Ex vivo expansion of human disc chondrocytes from surgically removed disc tissue: Post-operative tissue stability

Citation: Journal of Biosciences, 50, 36.

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s12038-025-00528-0>

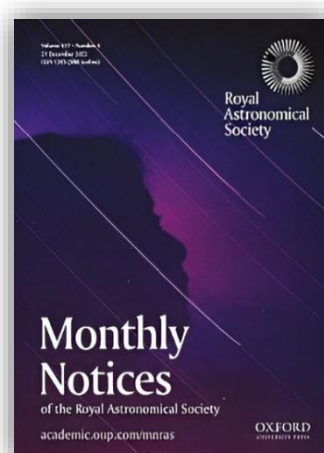
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Publication Date: 2025-05

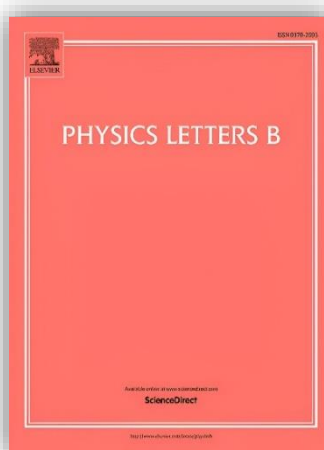
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Author(s): CHAND, RAHUL; SHUKLA, ASHUTOSH; BOBY, SNEHA; KUMAR, G. V. PAVAN
 Title: Optothermally Induced Active and Chiral Motion of Colloidal Structures
 Citation: Soft Matter
 Publisher: Royal Society of Chemistry
 URI: <https://doi.org/10.1039/D4SM01348D>
 DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9813>
 Publication Date: 2025-05



Author(s): CHAND, EISHICA; BANERJEE, ARKA; Foreman, Simon; Villaescusa-Navarro, Francisco
 Title: Boosting H i-galaxy cross-clustering signal through higher order cross-correlations
 Citation: Monthly Notices of the Royal Astronomical Society, 538(03), 2204-2218.
 Publisher: Oxford University Press
 URI: <https://doi.org/10.1093/mnras/staf433>
 DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10075>
 Publication Date: 2025-04



Author(s): CMS Collaboration; Hayrapetyan, A.; ACHARYA, S.; ALPANA, K.; DUBE, SOURABH; GOMBER, B.; HAZARIKA, P.; KANSAL, B.; LAHA, A.; SAHU, S.; SHARMA, SEEMA; VAISH, K.Y. et al.
 Title: Measurement of the Drell-Yan forward-backward asymmetry and of the effective leptonic weak mixing angle in proton-proton collisions at $\sqrt{s} = 13$ TeV
 Citation: Physics Letters B, 866, 139526.
 Publisher: Elsevier B.V.
 URI: <https://doi.org/10.1016/j.physletb.2025.139526>
 DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10113>
 Publication Date: 2025-07

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

Title: Search for heavy neutral Higgs bosons A and H in the $t\bar{t}Z$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV

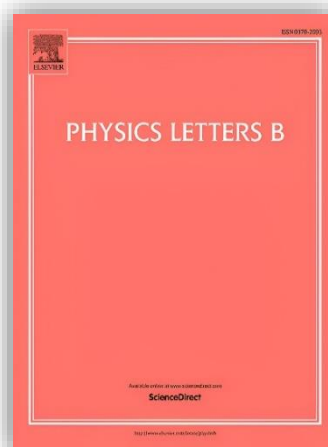
Citation: Physics Letters, 866, 139568.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.physletb.2025.139568>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10114>

Publication Date: 2025-07



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

Title: Observation of nuclear modification of energy-energy correlators inside jets in heavy ion collisions

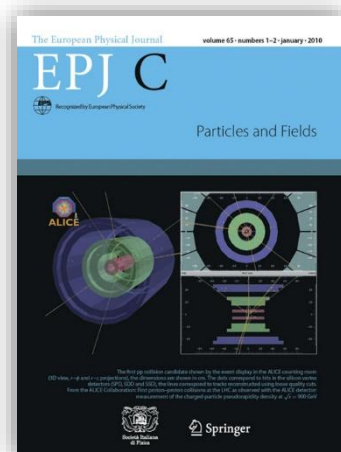
Citation: Physics Letters B, 866, 139556.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.physletb.2025.139556>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10115>

Publication Date: 2025-07



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

Title: Search for pair production of heavy particles decaying to a top quark and a gluon in the lepton plus jets final state in proton-proton collisions at $\sqrt{s}=13$ TeV

Citation: European Physical Journal C, 85(03), 342.

Publisher: Springer Nature

URI: <https://doi.org/10.1140/epjc/s10052-024-13729-y>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10121>

Publication Date: 2025-03

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Author(s): KHAN, SAKIL; RATHOD, HARSH

Title: Bootstrapping non-Hermitian quantum systems

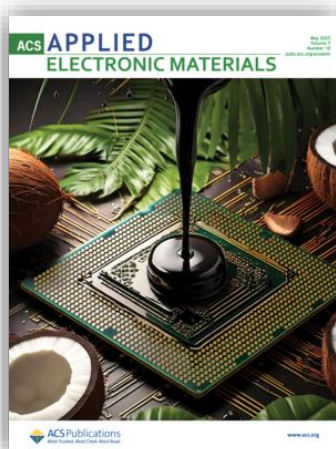
Citation: Physical Review D, 111, 105005.

Publisher: American Physical Society

URI: <https://doi.org/10.1103/PhysRevD.111.105005>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10117>

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Author(s): LAKHCHAURA, SURAJ; ANILKUMAR, GOKUL M.; RAHMAN, ATIKUR

Title: Carrier Density Induced Metal-Insulator Transition in Bi₂O₂Se Nanosheets

Citation: ACS Applied Electronic Materials, 7(10), 4450-4456.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acsaelm.5c00264>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9922>

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Author(s): MAHAPATRA, SAGAR; Behera, Soumya Shephalika; Rawat, Rajeev; SINGH, SURJEET

Title: Crystal growth of pyrochlore pr₂zr₂o₇ and its la and nd analogs using flux method

Citation: Journal of Crystal Growth, 667, 128234.

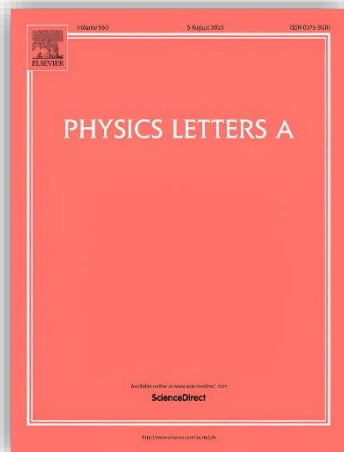
Publisher: Elsevier B.V.

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DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10111>

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Author(s): SREERAM, P. G.; SANTHANAM, M. S.

Title: Periodicity of dynamical signatures of chaos in quantum kicked top

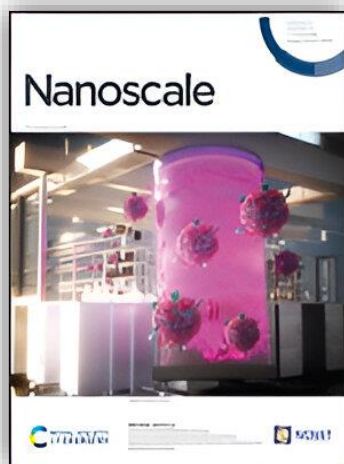
Citation: Physics Letters A, 550, 130596.

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Author(s): Parveen, Sumaiya; Pal, Pratap Kumar; Mukhopadhyay, Suchetana; MAJUMDER, SUDIPTA; BISOI, SWAPNESWAR; RAHMAN, ATIKUR; Barman, Anjan

Title: Hot carrier dynamics in the $\text{BA}_2\text{PbBr}_4/\text{MoS}_2$ heterostructure

Citation: Nanoscale, 17(05), 2800-2809.

Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D4NR03866E>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9916>

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