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June 2025**



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BIOLOGY

Journal Articles



Author(s): KALE, TANVI; PEDNEKAR, RUDVI; Cazaux, Severine Marianne; Letelier, Valentina Ferrando; Vigar, Justin R. J.; Federici, Fernan; Pardee, Keith; ATHALE, CHAITANYA A

Title: Translational Enhancer Based Amplification of Toehold Sensors (TacToe) for Improved Sensitivity and Speed of Viral RNA Detection

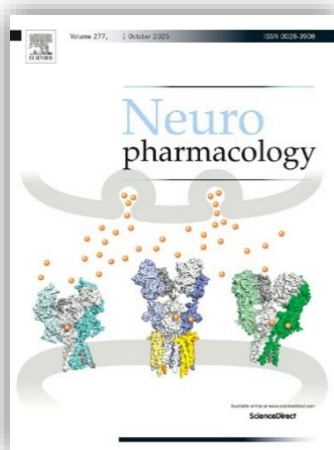
Citation: ACS Synthetic Biology, 14(06), 1920-1930.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acssynbio.4c00861>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10240>

Publication Date: 2025-05



Author(s): Kawade, Harish M.; Patil, Utkarsh P.; Pandhare, Deepali M.; SUBHEDAR, NISHIKANT K.; Kokare, Dadasaheb M.

Title: Neuropeptide S system mediates nicotine-induced reward-facilitatory behavior

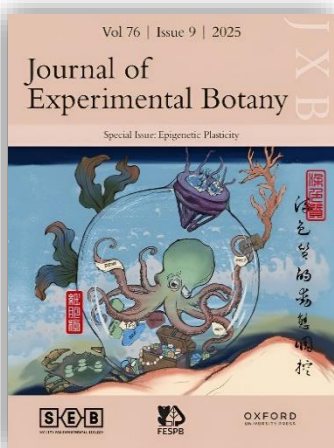
Citation: Neuropharmacology, 278, 110543.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.neuropharm.2025.110543>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10217>

Publication Date: 2025-11



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

Title: Mobile RNAs and proteins: Impact on plant growth and productivity

Citation: Journal of Experimental Botany.

Publisher: Oxford University Press

URI: <https://doi.org/10.1093/jxb/erf185>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10193>

Publication Date: 2025-05

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Author(s): MATANGE, NISHAD

Title: From the microscopic gladiator pit: Antibiotics vs resistance

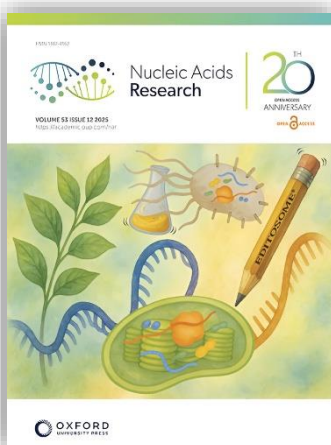
Citation: Journal of Biosciences, 50, 53.

Publisher: Indian Academy of Sciences

URI: <https://doi.org/10.1007/s12038-025-00541-3>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10232>

Publication Date: 2025-06



Author(s): Mitra, Nivedita; Mishra, Dipika; Mudaliyar, Manasi; YADAV, RINKU; ZINJURTE, SUYOG; Puthethu, Irene Aniyam; GAYATHRI, PANANGHAT; Ghosal, Debnath; Srinivasan, Ramanujam

Title: Mutational analysis of the F plasmid partitioning protein ParA reveals residues required for oligomerization and plasmid maintenance

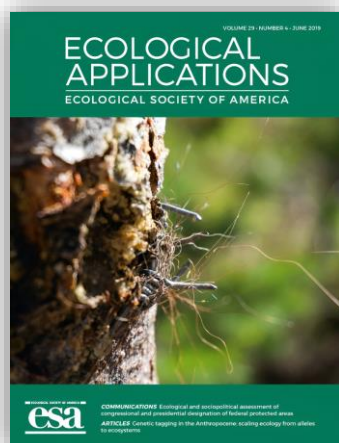
Citation: Nucleic Acids Research, 53(12).

Publisher: Oxford University Press

URI: <https://doi.org/10.1093/nar/gkaf537>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10230>

Publication Date: 2025-07



Author(s): OJHA, MEGHA; Shigwan, Bhushan K.; Nerlekar, Ashish N.; Datar, Mandar N.; CHAVAN, BHANUDAS P.; BARUA, DEEPAK

Title: Differential impacts of invasion on plant communities of two types of savannas in India

Citation: Ecological Applications, 35(03).

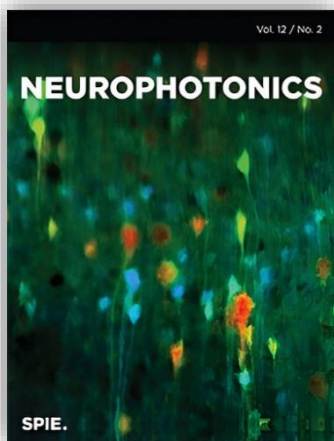
Publisher: Wiley

URI: <https://doi.org/10.1002/eap.70035>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10179>

Publication Date: 2025-04

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Author(s): Paul, Ria; Sarkar, Soumyajit; Das, Susweta; MARATHE, SHRUTI D.; Krishnamoorthy, Murali; ABRAHAM, NIXON M.; Varma, Hari M.

Title: Optimized laser speckle-based imaging system and methods for deep tissue cerebral blood flow imaging in small rodents

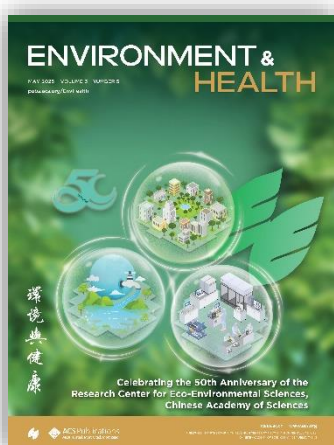
Citation: Neurophotonics, 12(02), 025017.

Publisher: SPIE

URI: <https://doi.org/10.1117/1.NPh.12.2.025017>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10223>

Publication Date: 2025-06



Author(s): Pramanik, Rinka; KARMODIYA, KRISHANPAL et al.

Title: Long-Term Genomic Surveillance of SARS-CoV-2 in Campus Wastewater Depicts Lineage Trends and Public Health Implications during and after Omicron Waves

Citation: Environment & Health.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/envhealth.5c00048>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10166>

Publication Date: 2025-06

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CHEMISTRY

Journal Articles



Author(s): BEHERA, MOUSUMI; SHUKLA, SHUBHAM Y.; DHARPURE, PANKAJ D.; BHAT, RAMAKRISHNA G.

Title: Aryl Thiocyanate as an Organic 'CN' Source: Access to Thiocyano-Thioesters from Cyclic Thioacetals

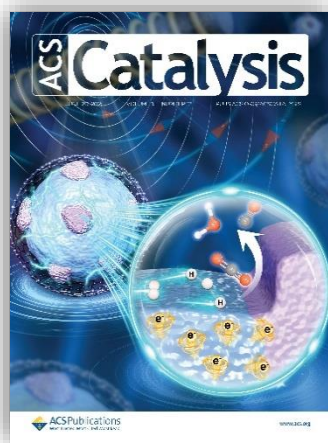
Citation: Chemistry—An Asian Journal.

Publisher: Wiley

URI: <https://doi.org/10.1002/asia.202500423>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10224>

Publication Date: 2025-06



Author(s): Chatterjee, Debasmita; Gangopadhyay, Anish; Padhy, Abinash; Pooja; Ghosh, Anwasha; Bhadury, Punyasloke; SIVARAM, SWAMINATHAN; Sen Gupta, Sayam

Title: One-Step Solvent-Free Fe-Complex Catalyzed Bioinspired Oxidation of Lignocellulosic Biomass to Cellulose Nanospheres

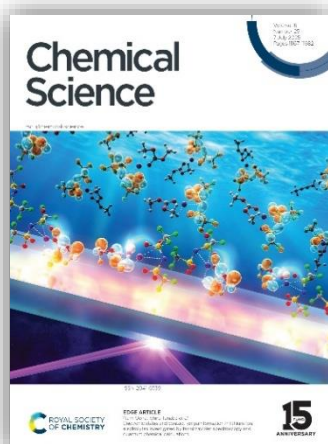
Citation: ACS Catalysis, 15(12), 10722-10735.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acscatal.5c01496>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10168>

Publication Date: 2025-06



Author(s): DUTTA, MADHUSUDAN; CHATTERJEE, ABHIJIT; DEKA, NILOTPAL; TANWAR, RITEEKA; MISHRA, VISHNU; Saha, Arindam; MANDAL, PANKAJ; BOOMISHANKAR, RAMAMOORTHY; HAZRA, PARTHA

Title: Steric hindrance modulated efficient thermally activated delayed fluorescence with non-linear optical, ferroelectric and piezoelectric properties

Citation: Chemical Science.

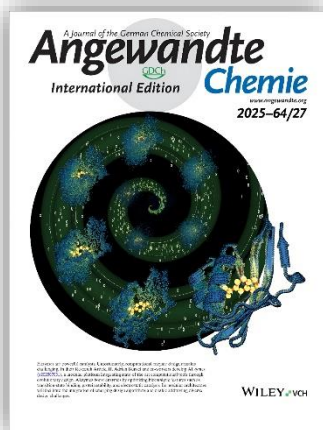
Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D5SC02107C>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10173>

Publication Date: 2025-05

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Author(s): JOSHI, POOJA; SRINIDHI, V.; HOTH, SRINIVAS

Title: Synthesis of Glycolipid Library Reminiscent of Mycobacterial Cell Wall Motif A and Its Significance by Microscopy

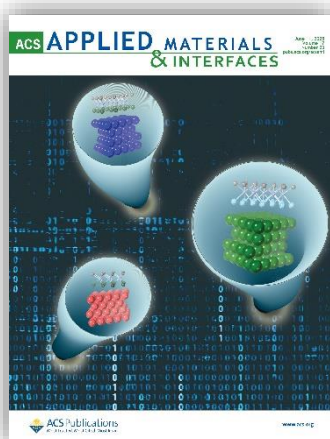
Citation: Angewandte Chemie International Edition, 64(19).

Publisher: Wiley

URI: <https://doi.org/10.1002/anie.202502837>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10153>

Publication Date: 2025-05



Author(s): Kuchey, Mohammad Yaseen; Hassan, Nadia; Wani, Adil Amin; Munjal, Sagar; Bhat, Aamir Yaseen; Ingole, Pravin P.; THOTIYL, MUSTHAFA OTTAKAM; Bhat, Mohsin Ahmad

Title: Stacking-Free Three-Dimensional Graphene Electrode Architecture for Ultrahigh Interfacial Charge Storage

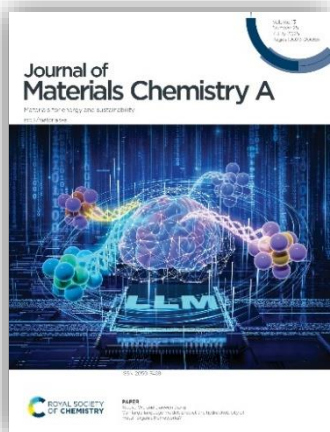
Citation: ACS Applied Materials & Interfaces, 17(23), 33810-33823.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acsami.5c01297>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10172>

Publication Date: 2025-05



Author(s): KUSHWAHA, VIKASH; PRAJESH, NEETU; Gopal, Animesh; SAHOO, SUPRIYA; DESWAL, SWATI; KIRANA, ANTONYSYLVESTER; Shanmuganathan, Kadiravan; Zareba, Jan K.; BOOMISHANKAR, RAMAMOORTHY

Title: A highly moisture-stable ferroelectric ammonium phosphate salt showing piezoelectric energy harvesting and rotation sensing applications

Citation: Journal of Materials Chemistry A.

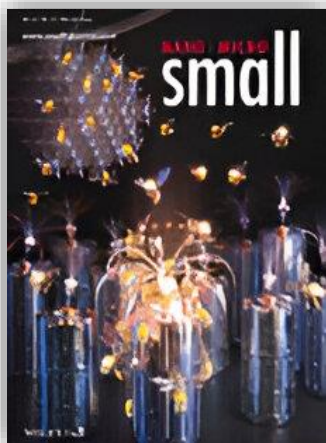
Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D5TA01846C>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10220>

Publication Date: 2025-05

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Author(s): PATHAN, SHAHIDKHAN; JAYAKANNAN, MANICKAM

Title: Tweaking Unimolecular Micellar Nanoarchitecture for Drug Delivery in Tumor Xenograft Mice Models

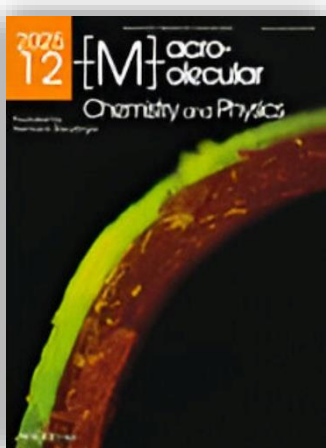
Citation: Small.

Publisher: Wiley

URI: <https://doi.org/10.1002/sml.202503155>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10169>

Publication Date: 2025-06



Author(s): MENON, ABHIJITH HARI; Joseph, Seena; Shaikh, Maulali H.; Chikkali, Samir H.

Title: Renewable and Degradable Polyoxalates Derived from Castor Oil

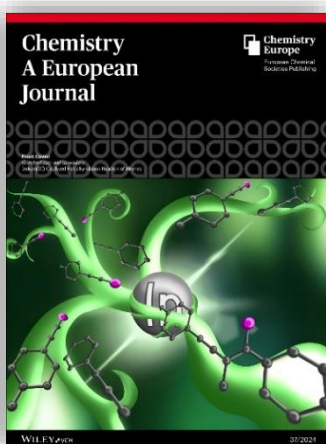
Citation: Macromolecular Chemistry and Physics

Publisher: Wiley

URI: <https://doi.org/10.1002/macp.202500113>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10234>

Publication Date: 2025-06



Author(s): Shitrit, Ariel; Alshanski, Israel; Mor, Karin; Rademann, Joerg; KIKKERI, RAGHAVENDRA; Hurevich, Mattan; Yitzchaik, Shlomo

Title: Metal-Mediated IL-8 Binding to Heparan Sulfate Evaluated by Electrochemical Impedance Spectroscopy

Citation: Chemistry - A European Journal.

Publisher: Wiley

URI: <https://doi.org/10.1002/chem.202501011>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10221>

Publication Date: 2025-06

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Author(s): VISHWESHWARA, SHARATH S.; ANAND, SAURABH; BHOGI, PREETI RAVINDRA; MAHIDA, VIRENDRASINH; CHANDRA, ANKITA; Vinod Saladi, Srinivas; KIKKERI, RAGHAVENDRA

Title: Heparan Sulfate-Based Neoproteoglycan for Targeted Lysosomal Degradation of Amyloid- β

Citation: Journal of Medicinal Chemistry, 68(11), 11979-11989.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.jmedchem.5c00845>

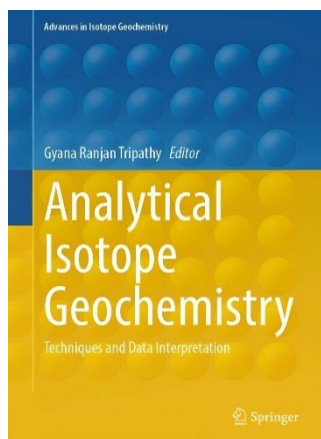
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10178>

Publication Date: 2025-06

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EARTH AND CLIMATE SCIENCE

Book



Author(s): TRIPATHY, GYANA RANJAN_Ed.

Book Title: Analytical Isotope Geochemistry: Techniques and Data Interpretation

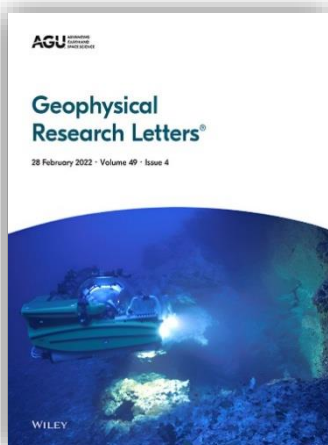
Publisher: Springer Nature

URI: <https://doi.org/10.1007/978-3-031-88388-0>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10184>

Publication Date: 2025-06

Journal Articles



Author(s): BANERJEE, ARGHA; Scherler, Dirk

Title: Steady-State Surface-Elevation Distribution of Idealized Glaciers and Rivers

Citation: Geophysical Research Letters, 52(11).

Publisher: Wiley

URI: <https://doi.org/10.1029/2024GL113948>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10174>

Publication Date: 2025-06



Author(s): Pilia, Simone; Iaffaldano Giampiero; Davies, D. Rhodri; ISMAIEL, MOHAMMAD; Sossi, Paolo A.; Whattam, Scott; Zhao, Dapeng; Hu, Hao

Title: Ghost plumes hidden beneath Earth's continents

Citation: Earth and Planetary Science Letters, 666, 119467.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.epsl.2025.119467>

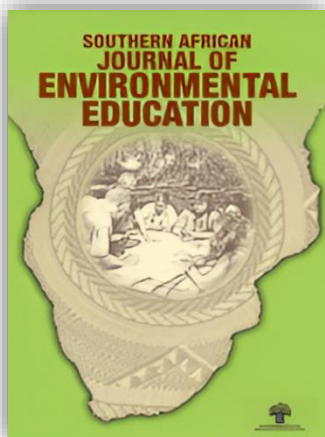
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9809>

Publication Date: 2025-09

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HUMANITIES AND SOCIAL SCIENCES

Journal Articles



Author(s): MATHUR, CHHAVI; MONTEIRO, JOY MERWIN

Title: A Place-Based and Systems Approach to Curriculum Design for Water Education: A case study from Pune, India

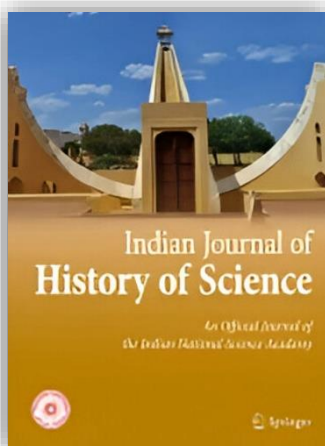
Citation: Southern African Journal of Environmental Education, 42.

Publisher: Environmental Education Association of Southern Africa

URI: <https://doi.org/10.4314/sajee.v42SI1.04>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10227>

Publication Date: 2025-06



Author(s): Ramanathan, V.; PAI, VENKETESWARA R.; Srinivas, M. D.

Title: An Uyirêluttu or svara-based system of numeration used in Tamil astronomy texts

Citation: Indian Journal of History of Science.

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s43539-025-00157-4>

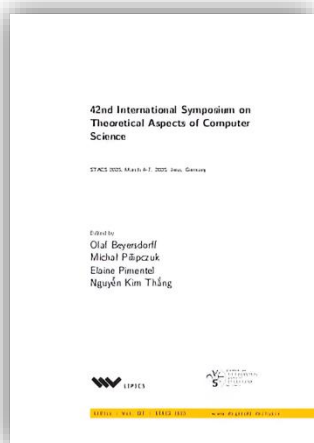
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10233>

Publication Date: 2025-06

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MATHEMATICS

Book Chapter



Author(s): GAIKWAD, AJINKYA; KUMAR, HITENDRA; MAITY, SOUMEN; Saurabh, Saket; Sharma, Roohani

Title: MaxMin Separation Problems: FPT Algorithms for st-Separator and Odd Cycle Transversal

Citation: 42nd International Symposium on Theoretical Aspects of Computer Science (STACS 2025)

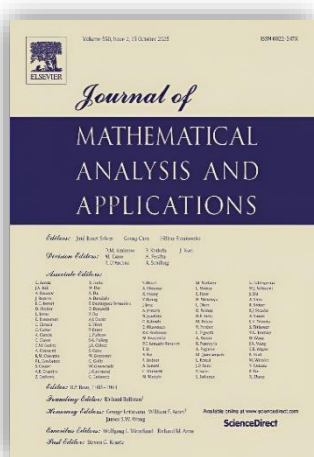
Publisher: Dagstuhl Publ

URI: <https://doi.org/10.4230/LIPIcs.STACS.2025.36>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10181>

Publication Date: 2025-02

Journal Articles



Author(s): BISWAS, NIRJAN; Kumar, Rohit

Title: On semipositone problems over RN for the fractional p-Laplace operator

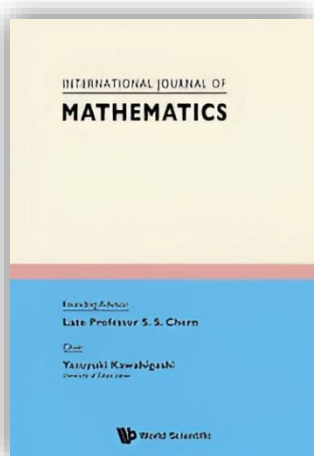
Citation: Journal of Mathematical Analysis and Applications, 551(02), Part 2.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.jmaa.2025.129703>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10181>

Publication Date: 2025-09



Author(s): BORAH, DIGANTA; Mahajan, Prachi; Mammen, Jiju

Title: Limits of an increasing sequence of Riemann surfaces

Citation: International Journal of Mathematics

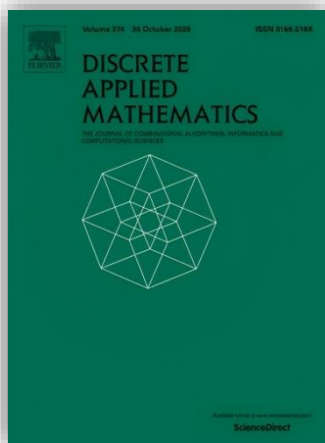
Publisher: World Scientific Publishing

URI: <https://doi.org/10.1142/S0129167X25500326>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10218>

Publication Date: 2025-06

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Author(s): GAIKWAD, AJINKYA; MAITY, SOUMEN; TRIPATHI, SHUVAM KANT

Title: Parameterized complexity of locally minimal defensive alliances

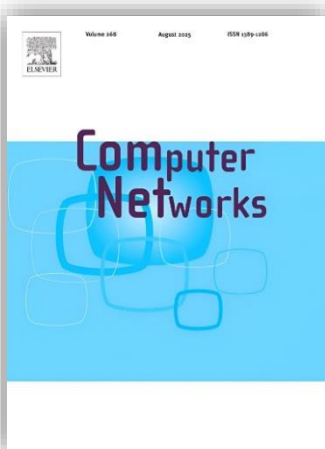
Citation: Discrete Applied Mathematics, 372, 324-340.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.dam.2025.05.001>

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

Publication Date: 2025-09



Author(s): Goswami, Chandan; Basak, Aniket; GHOSH, RAJEET; Adhikari, Avishek; Sarkar, Pinaki

Title: Lightweight authenticated key agreement scheme for IoMT network using generalized Chinese Remainder Theorem

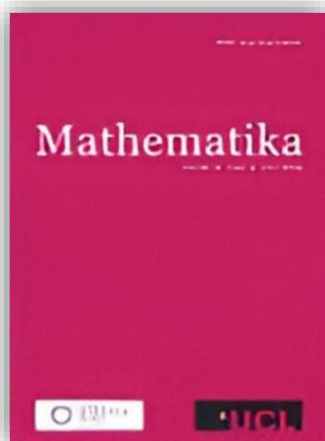
Citation: Computer Networks, 263, 111212.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.comnet.2025.111212>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10180>

Publication Date: 2025-05



Author(s): Panja, Saikat; SAINI, PRACHI; SINGH, ANUPAM

Title: Images of polynomial maps with constants

Citation: Mathematika, 71(03).

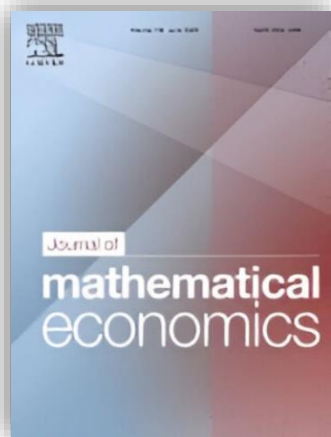
Publisher: Wiley

URI: <https://doi.org/10.1112/mtk.70031>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10222>

Publication Date: 2025-07

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Author(s): PATHAK, SHRADDHA; Kulkarni, Ankur A.

Title: A scalable Bayesian persuasion framework for epidemic containment on heterogeneous networks

Citation: Journal of Mathematical Economics, 119, 103134.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.jmateco.2025.103134>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10188>

Publication Date: 2025-08

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PHYSICS

Journal Articles



Author(s): ANAND, AAKASH; BHATTACHARYAY, ARIJIT

Title: Flow cross-overs under surface fluctuations in cylindrical nano-channel

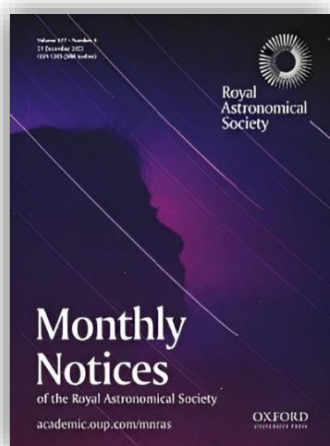
Citation: Physics Letters A, 553, 130676.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.physleta.2025.130676>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10187>

Publication Date: 2025-09



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

Title: Proton heating estimates from near-Earth observations of coronal mass ejections in solar cycle 24

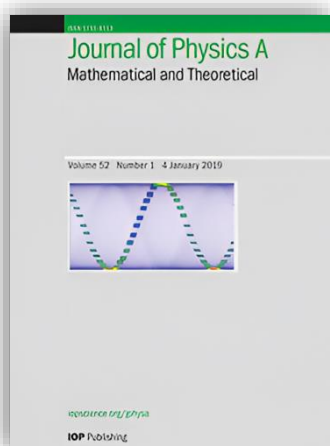
Citation: Monthly Notices of the Royal Astronomical Society, 540(03), 2810-2819.

Publisher: Oxford University Press

URI: <https://doi.org/10.1093/mnras/staf860>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10190>

Publication Date: 2025-09



Author(s): BHATTACHARYAY, ARIJIT

Title: Brownian motion near a wall: the dilemma of Itô or Stratonovich

Citation: Journal of Physics A: Mathematical and Theoretical, 52(21).

Publisher: IOP Publishing

URI: <https://doi.org/10.1088/1751-8121/add8cf>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10237>

Publication Date: 2025-05

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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: Energy-scaling behavior of intrinsic transverse-momentum parameters in Drell-Yan simulation

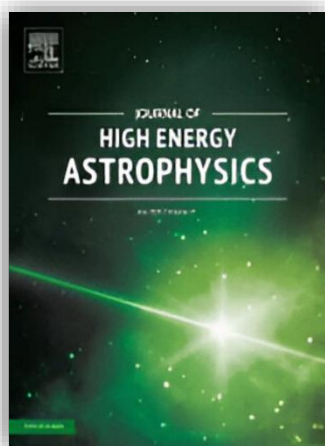
Citation: Physical Review D, 111, 072003.

Publisher: American Physical Society

URI: <https://doi.org/10.1103/PhysRevD.111.072003>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10235>

Publication Date: 2025-04



Author(s): Dainotti, M. G.; MONDAL, A. et al.

Title: A New Master Supernovae Ia sample and the investigation of the Hubble tension

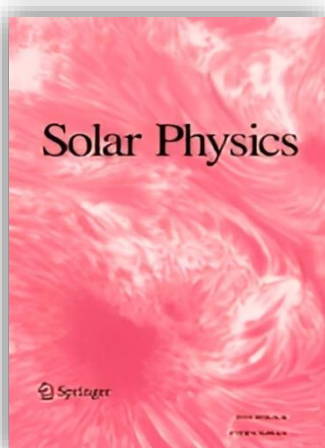
Citation: Journal of High Energy Astrophysics, 48, 100405.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.jheap.2025.100405>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10225>

Publication Date: 2025-08



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Citation: Solar Physics, 300(03), 35.

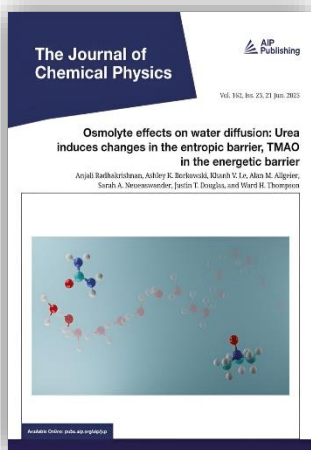
Publisher: Springer Nature

URI: <https://doi.org/10.1007/s11207-025-02441-z>

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Title: Quantum alternating operator ansatz for the preparation and detection of long-lived singlet states in NMR

Citation: Journal of Chemical Physics, 162(23).

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Author(s): JAIN, SACHIN; DHURVA, K. S.; Skvortsov, Evgeny

Title: Hidden sectors of Chern-Simons matter theories and exact holography

Citation: Physical Review D, 111, 106017.

Publisher: American Physical Society

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Author(s): KUMAR, ARUN; NAIR, SUNIL

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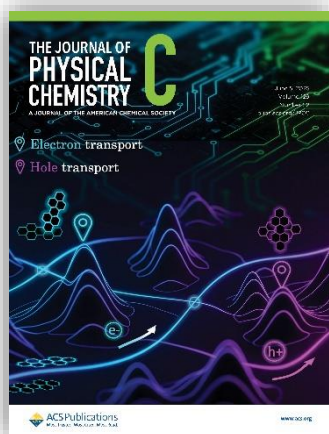
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Publication Date: 2025-07

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Author(s): PANWAR, PRANJAL; WALVE, VAIBHAV; SINGH, NIKHIL; HARNAGEA, LUMINITA; DESHPANDE, APARNA

Title: Oxidation Behavior of ZrTe₂: Insights into Stability for Applications in Sensors

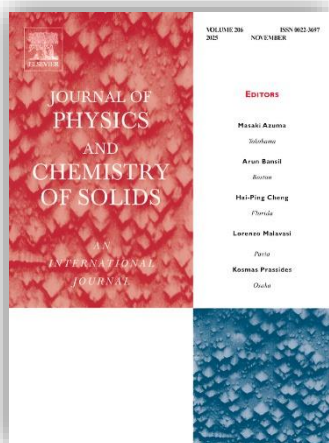
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Publication Date: 2025-05



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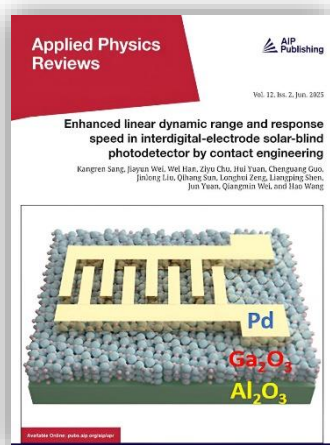
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Author(s): Shyam, Ayyappan; GARG, CHARU; NAIR, SUNIL; Rana, Dhanvir Singh et al.

Title: Giant terahertz magnetoelastic phase-shift modulator

Citation: Applied Physics Reviews, 12(02), 021420.

Publisher: AIP Publishing

URI: <https://doi.org/10.1063/5.0251176>

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Author(s): SREERAM, P. G.; Sahu, Abinash; Varikuti, Naga Dileep; Das, Bishal Kumar; Manna, Sourav; Madhok, Vaibhav

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Citation: Journal of the Indian Institute of Science.

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

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Citation: Physics Letters A, 550, 130596.

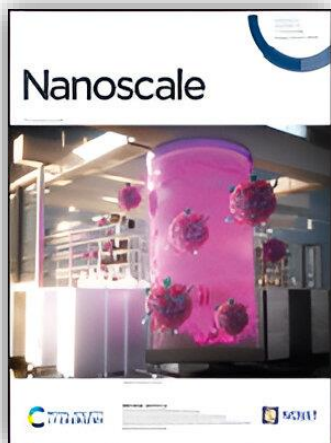
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Author(s): Parveen, Sumaiya; Pal, Pratap Kumar; Mukhopadhyay, Suchetana; MAJUMDER, SUDIPTA; BISOI, SWAPNESWAR; RAHMAN, ATIKUR; Barman, Anjan

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

Publisher: Royal Society of Chemistry

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Publication Date: 2025-02

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