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January 2026



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BIOLOGY

Journal Articles



Author(s): AAZMI, OSAMA; ASWALE, AKSHIT RAJENDRA; CHUGH, JEETENDER

Title: H^+ Ions and ATP Reshape the Conformational Landscape of an RNA Recognition Motif and Regulate Its Fibrillation

Citation: Journal of the American Chemical Society, 148(02), 2295-2306.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/jacs.5c15374>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10649>

Publication Date: 2026-01



Author(s): BHAT, ANANDA SHIKHARA; NAG, SURYADEEPTO; DEY, SUTIRTH

Title: Cooperation destabilizes communities, but competition pays the price

Citation: Journal of Biosciences, 51(02).

Publisher: Indian Academy of Sciences

URI: <https://doi.org/10.1007/s12038-025-00574-8>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10669>

Publication Date: 2026-01



Author(s): DESHPANDE, GIRISH; Kim, Ji Hoon; Hanlon, Caitlin D.; Schedl, Paul; Andrew, Deborah J.

Title: THedgehog and Drosophila germ cell migration

Citation: Development, 152(24).

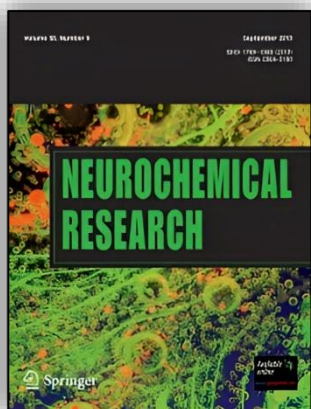
Publisher: The Company of Biologists

URI: <https://doi.org/10.1242/dev.205291>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10668>

Publication Date: 2025-12

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Author(s): Kanhere, Hemant S.; Kokare, Dadasaheb M.; Jogdand, Yogesh R.; Dudhabhate, Biru B.; SUBHEDAR, NISHIKANT K.

Title: Deep Brain Stimulation of Lateral Habenula Ameliorates Depression-like Symptoms in Rats: Involvement of Mesolimbic Circuit

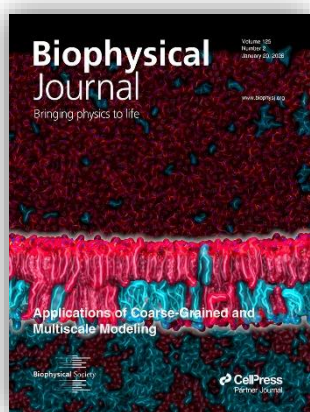
Citation: Neurochemical Research, 51(36).

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s11064-025-04655-w>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10666>

Publication Date: 2026-01



Author(s): MAZUMDAR, DEBASMITA; KATARIA, SUJAL; Panda, Gyanendra Prasad; KULKARNI, ATHARVA; PATIL, SHIVPRASAD; Dash, Mamoni; BALASUBRAMANIAN, NAGARAJ

Title: Caveolin-1-dependent regulation of cell-matrix interphase in 3D collagen gels

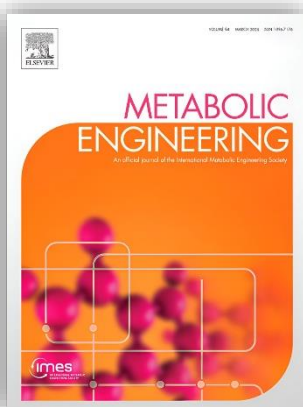
Citation: Biophysical Journal, 125, (01), 134-151.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.bpj.2025.11.015>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10661>

Publication Date: 2026-01



Author(s): Srivastava, Sonali; CHANDRAMOULI, AAKASH; KAMAT, SIDDHESH S.; GOKHALE, RAJESH S. et al.

Title: Novel routes for bioproduction of delta lactone aroma compounds

Citation: Metabolic Engineering, 94, 295-304.

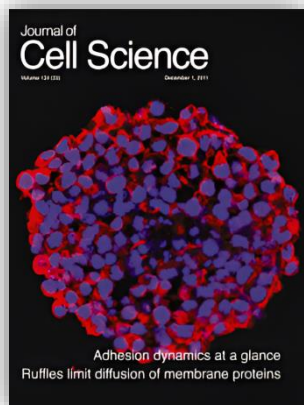
Publisher: American Society for Microbiology

URI: <https://doi.org/10.1016/j.ymben.2026.01.005>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10673>

Publication Date: 2026-03

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Author(s): VERMA, RAHUL KUMAR; MADAN, SOMYA; RIKHY, RICHA

Title: Mitochondrial dynamics and signaling in stem cell differentiation

Citation: Journal of Cell Science, 139(01).

Publisher: The Company of Biologists

URI: <https://doi.org/10.1242/jcs.263847>

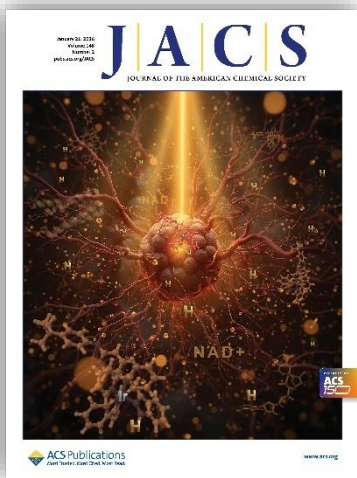
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10662>

Publication Date: 2026-01

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CHEMISTRY

Journal Articles



Author(s): AAZMI, OSAMA; ASWALE, AKSHIT RAJENDRA; CHUGH, JEETENDER

Title: H^+ Ions and ATP Reshape the Conformational Landscape of an RNA Recognition Motif and Regulate Its Fibrillation

Citation: Journal of the American Chemical Society, 148(02), 2295-2306.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/jacs.5c15374>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10649>

Publication Date: 2026-01



Author(s): CHANDRA, ANKITA; Gimeno, Ana; Payá-García, María; BHOGE, PREETI RAVINDRA; MAHIDA, VIRENDRASINH; Jiménez-Barbero, Jesús; KIKKERI, RAGHAVENDRA

Title: Rational design of heparin antagonist: Guanidine-based mimetics unveil key carbohydrate-carbohydrate interactions

Citation: European Journal of Medicinal Chemistry, 305, 118551.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.ejmech.2025.118551>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10654>

Publication Date: 2026-03



Author(s): DAS, JAIRI; Hoque, Md Emdadul; Hassan, Mirja Md Mahamudul; GURIA, SAIKAT; DEY, SAYAN; Ma, Jiawei; Deng, Zhangming; Liang, Yong; CHATTOPADHYAY, BUDDHADEB

Title: Iridium catalyzed regiodivergent functionalization of all three C-H bonds of arenes by a single ligand

Citation: Nature Communications, 17, 451.

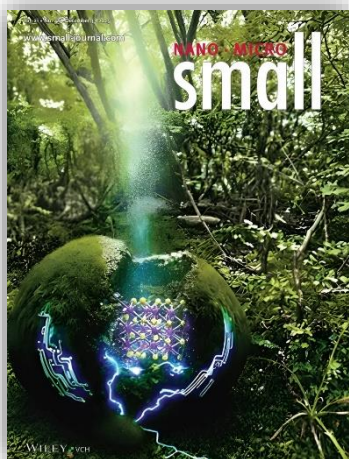
Publisher: Springer Nature

URI: <https://doi.org/10.1038/s41467-025-67138-0>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10651>

Publication Date: 2026-01

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Author(s): DEY, NAYAN; VENKATNATHAN, ARUN; OGALE, SATISHCHANDRA; Bano, Amreen

Title: Strategic Screening of Dopants for $\text{Na}_{0.67}\text{Ni}_{0.33}\text{Mn}_{0.67}\text{O}_2$ Cathodes: A Computational Roadmap for Sodium-Ion Battery Innovation

Citation: Small.

Publisher: Wiley

URI: <https://doi.org/10.1002/sml.202513165>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10667>

Publication Date: 2026-01



Author(s): GHOSH, DIPAYAN; FAJAL, SAHEL; BISWAS, KISHALAY; ROY, ANIRBAN; MAJUMDER, DIPANJAN; GHOSH, SUJIT K.

Title: Covalently grafted MOP-on-MOF hybrid ionic-porous composite for efficient adsorption and catalysis

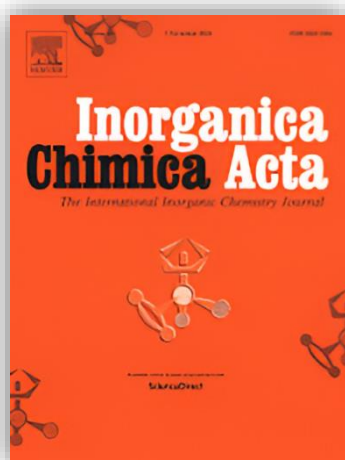
Citation: Chemical Science, 17(02), 927-936.

Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D5SC06370A>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10658>

Publication Date: 2026-02



Author(s): Khatavkar, Medhavi D.; PANDAY, RISHUKUMAR; Singh, Mayank U.; Kurungot, Sreekumar; Kumbhar, Avinash S.

Title: Proton conductivity in a copper(II) bipyridine glycoluril complex: The synergistic role of coordinated water and hydrogen-bonded networks.

Citation: Inorganica Chimica Acta, 594, 123063.

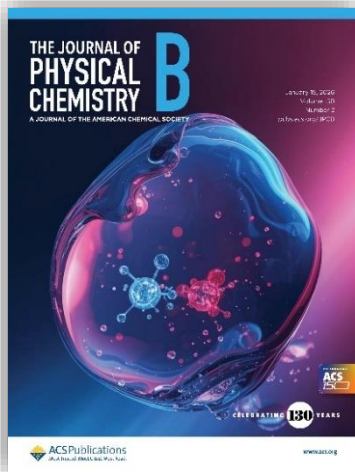
Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.ica.2026.123063>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10652>

Publication Date: 2026-05

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Author(s): KUMAR, ASHISH; JAYACHANDRAN, SARATHCHANDRAN; MUKHERJEE, ARNAB

Title: Spatially Resolved Single-Water Entropy around Amino Acids and Its Link to Hydropathy

Citation: Journal of Physical Chemistry B, 130(02), 702-713.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.jpcb.5c07015>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10657>

Publication Date: 2026-01



Author(s): NAYAK, BHOJKUMAR; THODIKA, ABDUL RAAFIK ARATTU; PANDEY, VINAY; DEVENDRACHARI, MRUTHYUNJAYACHARI CHATTANAHALLI; DARGILY, NEETHU CHRISTUDAS; Srivastava, Rohit; Umar, Ahmad; THOTIYL, MUSTHAFA OTTAKAM

Title: A bio-inspired sustainable sugar battery integrated with a reversible coordination complex

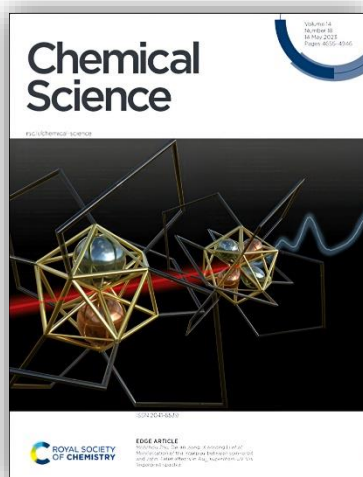
Citation: Chemical Communications, 62(08), 2700-2703.

Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D5CC07267K>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10664>

Publication Date: 2026-01



Author(s): NAYAK, BHOJKUMAR; Thodika, Abdul Raafik Arattu; PRADHAN, HEMANGA; MENDHE, RAHUL MAHADEO; THOTIYL, MUSTHAFA OTTAKAM

Title: Electrostatic Decatalysis through Coulombic Screening

Citation: Chemical Science.

Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D5SC08236F>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10671>

Publication Date: 2026-01

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Author(s): PAL, ARINDAM; PHADTE, APEKSHA A.; KHAMARI, ROSHNI R.; Rai,Vishal; SRIVATSAN, SEERGAZHI G.

Title: Chemoenzymatic Site-Specific Labeling of DNA and RNA Oligonucleotides by Leveraging the Exclusive Reactivity of Glycine-Modified Nucleotide Analogs

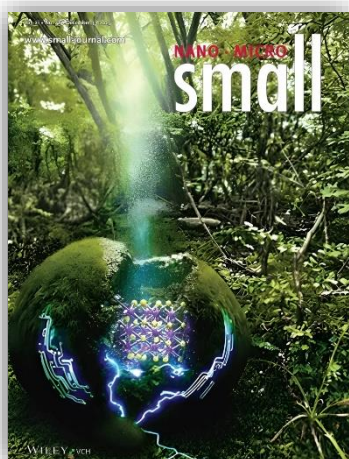
Citation: Bioconjugate Chemistry, 37(01), 52-62.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.bioconjchem.5c00473>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10675>

Publication Date: 2026-01



Author(s): Pattanayak, Pradip; Ray, Bishes; CHATTERJEE,ABHIJIT; Purkayastha, Pradipta

Title: Unlocking Color-Tunable Pyrene Emissions: Polymorph Engineering and Two-Photon Excited Charge-Transfer Cocystals

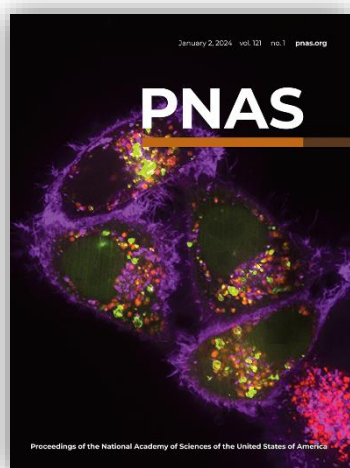
Citation: Small

Publisher: Wiley

URI: <https://doi.org/10.1002/sml.202505248>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10678>

Publication Date: 2025-12



Author(s): Perera, J. Dinithi R.; HRIDYA, V. M.; MUKHERJEE, ARNAB et al.

Title: A pothole-filling strategy for selective targeting of rCUG-repeats associated with myotonic dystrophy type 1

Citation: Proceedings of the National Academy of Sciences, 123(2), e2507065123.

Publisher: National Academy of Sciences

URI: <https://doi.org/10.1073/pnas.2507065123>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10679>

Publication Date: 2026-03

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Author(s): Ramamoorthy, Moulidharan; Bhattacharjee, Koushiki; SINGH, HIMAN DEV; Bisht, Pravesh Singh; CHAKRABORTY, DEBANJAN; Nandi, Shyamapada

Title: Hydroxyl and pyrrole functionalized polymeric frameworks for efficient aqueous and gaseous iodine sequestration

Citation: Chemical Engineering Journal Advances, 25, 101023.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.ceja.2025.101023>

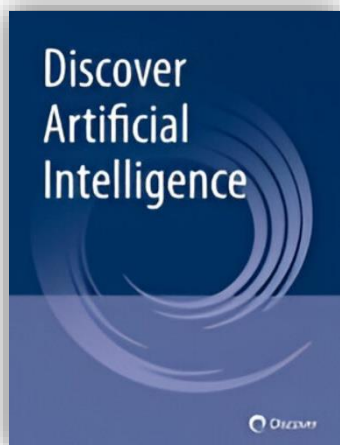
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Publication Date: 2026-03

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DATA SCIENCE

Journal Articles



Author(s): Biju, Nisha; Sinha, Alisha; SAINI, SARTHAK; Beniwal, Ganesh; Das, Syaamantak

Title: Evaluating AI toolchains for systematic literature reviews using a rubric-based workflow approach

Citation: Discover Artificial Intelligence, 5, 400.

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s44163-025-00628-8>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10680>

Publication Date: 2025-12

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EARTH AND CLIMATE SCIENCE

Journal Articles



Author(s): ISMAIEL, MOHAMMAD; Krishna, Kolluru Sree

Title: Evidence for a new age constraint of the oceanic lithosphere of the Bay of Bengal

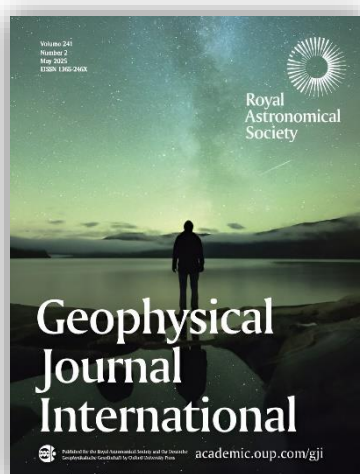
Citation: Journal of Earth System Science, 135, 24.

Publisher: Indian Academy of Sciences

URI: <https://doi.org/10.1007/s12040-026-02739-x>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10689>

Publication Date: 2026-02



Author(s): ISMAIEL, MOHAMMAD; RISHAL, MUHAMMED; PATEL, RAJAT

Title: Moho topography and Flexural response of Semail ophiolite in the Southern Oman Mountains: New constraints from teleseismic receiver functions and gravity anomalies

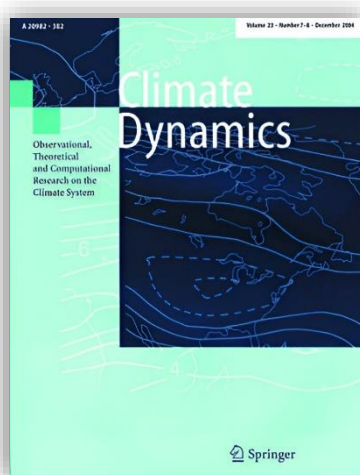
Citation: Geophysical Journal International.

Publisher: Oxford University Press

URI: <https://doi.org/10.1093/gji/ggag025>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10672>

Publication Date: 2026-01



Author(s): Sandhyavijayan, K.; Sooraj, K. P.; ETTAMMAL, SUHAS; Terray, Pascal

Title: Dynamics of the inland penetrating Indian monsoon depressions

Citation: Climate Dynamics, 64(57).

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s00382-025-08014-x>

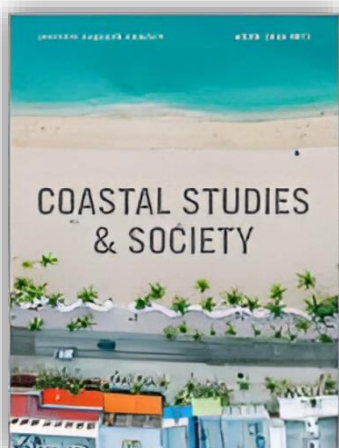
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Publication Date: 2026-01

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HUMANITIES AND SOCIAL SCIENCES

Journal Articles



Author(s): Choudry, Anuradha; Mishra, Agrima; Mukherjee, Jenia; SEN, SUKRIT

Title: "Witnessing" Like Mangroves: Everyday Encounters from a Fluidscape

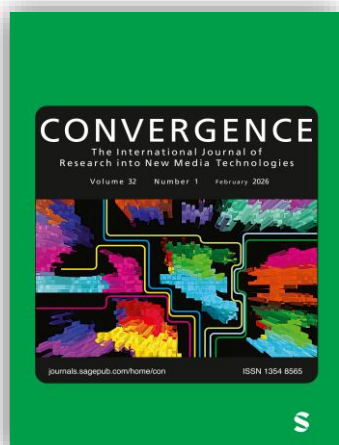
Citation: Coastal Studies & Society

Publisher: Sage

URI: <https://doi.org/10.1177/26349817251400526>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10681>

Publication Date: 2025-12



Author(s): Weitkamp, Emma; Ridgway, Andy; Massarani, Luisa; |Neves, Luiz; SHARMA, SHALINI; Bezerra, Cleiton

Title: Role and perceptions of AI in science journalists' work: Comparison between Brazil, India and UK

Citation: Convergence: The International Journal of Research into New Media Technologies

Publisher: Sage

URI: <https://doi.org/10.1177/13548565251412698>

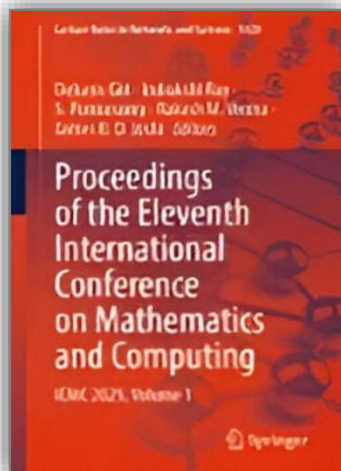
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10688>

Publication Date: 2025-12

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MATHEMATICS

Conference Paper



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

Title: An Upper Bound on Condition Number of the Matrix Arising in Numerical Solution of Parabolic PDEs

Citation: Proceedings of the Eleventh International Conference on Mathematics and Computing. ICMC 2025, 303-310.

Publisher: Springer Nature

URI: https://doi.org/10.1007/978-981-96-6941-7_24

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10638>

Publication Date: 2026-01

Journal Articles



Author(s): BHIMANI, DIVYANG G.; Dhingra, Diksha; Sohani, Vijay Kumar

Title: Low-regularity global solution of the inhomogeneous nonlinear Schrödinger equations in modulation spaces

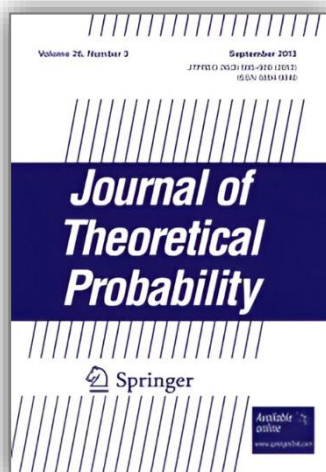
Citation: Journal of Differential Equations, 458, 114106.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.jde.2026.114106>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10653>

Publication Date: 2026-03



Author(s): PODDER, MOUMANTI; Roy, Archi

Title: Elephant Random Walks with Multiple Extractions and General Reinforcement Functions

Citation: Journal of Theoretical Probability, 39(17).

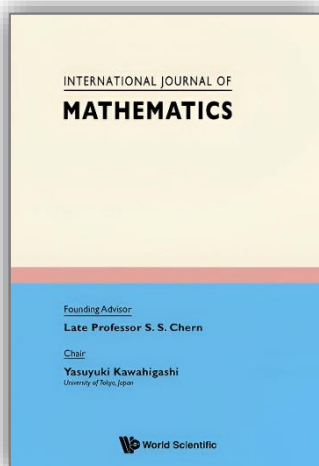
Publisher: Springer Nature

URI: <https://doi.org/10.1007/s10959-025-01471-4>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10682>

Publication Date: 2025-12

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

Title: Stiefel-Whitney Classes for finite symplectic groups

Citation: International Journal of Mathematics

Publisher: World Scientific

URI: <https://doi.org/10.1142/S0129167X26500199>

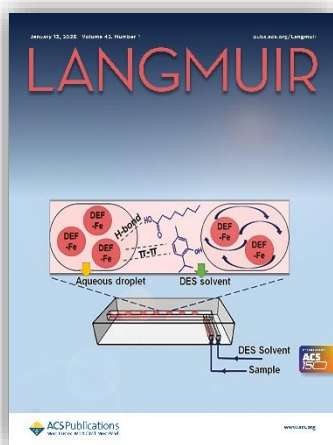
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10650>

Publication Date: 2026-01

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PHYSICS

Journal Articles



Author(s): Bagaria, Tanu; Bhagat, Brajesh Rajesh; Ghosh, Srija; AMBALKAR, ANURADHA; Das, Bidisa; Debnath, Bharati

Title: Dual-Functional Medium-Entropy Quinary Sulfides for Photocatalytic Hydrogen Evolution and Ethylene Glycol Oxidation

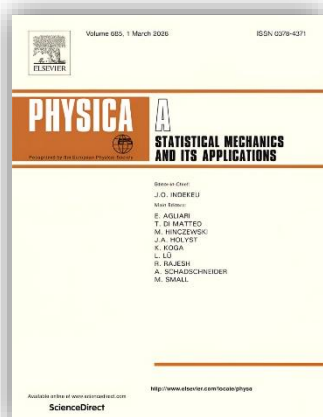
Citation: Langmuir, 42(01), 1567-1580.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.langmuir.5c05570>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10659>

Publication Date: 2025-01



Author(s): Behera, Jayasmita; Bedkihal, Salil; AGARWALLA, BIJAY KUMAR; Bandyopadhyay, Malay

Title: Minimally nonlinear probe-controlled Aharonov-Bohm heat engines with broken time-reversal symmetry: Surpassing the Curzon-Ahlborn limit

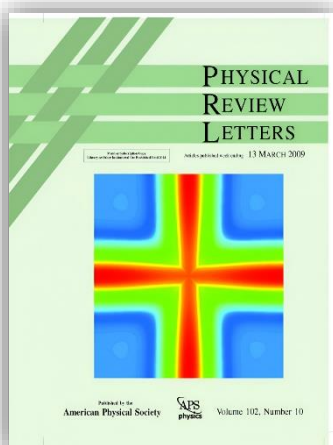
Citation: Physica A: Statistical Mechanics and its Applications, 684, 131243.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.physa.2025.131243>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10656>

Publication Date: 2026-02



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

Title: Observation of Coherent $\phi(1020)$ Meson Photoproduction in Ultraperipheral PbPb Collisions at $\sqrt{s_{NN}}=5.36$ TeV

Citation: Physical Review Letters, 135, 262301.

Publisher: American Physical Society

URI: <https://doi.org/10.1103/2ssw-wyyy>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10685>

Publication Date: 2025-12

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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, S.; SHARMA, SEEMA; VAISH, K. Y. et al.

Title: Search for t-channel scalar and vector leptoquark exchange in the high-mass dimuon and dielectron spectra in proton-proton collisions at $\sqrt{s} = 13$ TeV

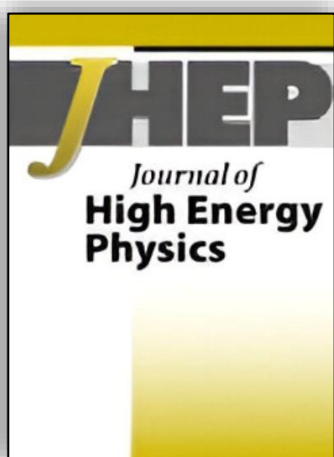
Citation: Journal of High Energy Physics, 2025(12), 52.

Publisher: Springer Nature

URI: [https://doi.org/10.1007/JHEP12\(2025\)052](https://doi.org/10.1007/JHEP12(2025)052)

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10676>

Publication Date: 2025-12



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

Title: Search for charged-lepton flavour violation in top quark interactions with an up-type quark, a muon, and a τ lepton in proton-proton collisions at $\sqrt{s} = 13$ TeV

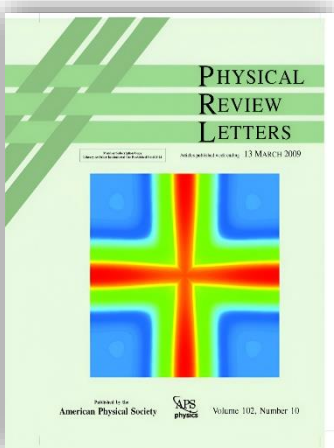
Citation: Journal of High Energy Physics, 2025(12), 65.

Publisher: Springer Nature

URI: [https://doi.org/10.1007/JHEP12\(2025\)065](https://doi.org/10.1007/JHEP12(2025)065)

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10677>

Publication Date: 2025-12



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

Title: Simultaneous Probe of the Charm and Bottom Quark Yukawa Couplings Using $t\bar{t}H$ Events

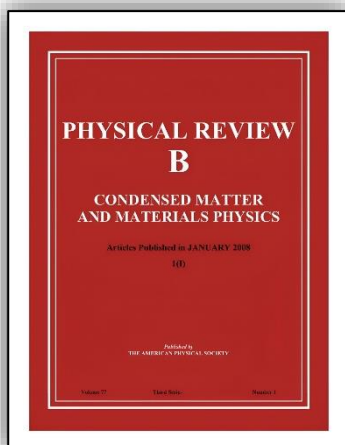
Citation: Physical Review Letters, 136, 011801.

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URI: <https://doi.org/10.1103/9nwb-splk>

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Publication Date: 2026-01



Author(s): Deswal, Sonia; ROUT, DIBYATA; Jana, Nirmalya; Pal, Koushik; SINGH, SURJEET; Kumar, Pradeep

Title: Interplay of phonons, intertwined density waves, and induced spin density wave in trilayer nickelates $\text{Pr}_{4-x}\text{La}_x\text{Ni}_3\text{O}_{10}$

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Author(s): KARGUDRI, VAISHAKH; JOSE, SANDRA M.; NATH, REJISH

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Publication Date: 2026-01



Author(s): RAO, NISHKAL; Mishra, Anuj; Ganguly, Apratim; More, Anupreeta

Title: Comprehensive analysis of time-domain overlapping gravitational wave transients: A lensing study

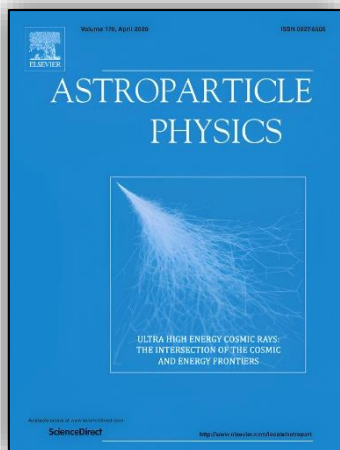
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Publication Date: 2026-01



Author(s): SHINDE, RAJAT; Djuvsland, Julia; Depaoli, Davide; Hinton, Jim

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Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.astropartphys.2026.103204>

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