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August 2025



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CONTENTS

Department	Page No.
<u>Biology</u>	1
<u>Chemistry</u>	4
<u>Earth and Climate Science</u>	6
<u>Humanities and Social Sciences</u>	7
<u>Mathematics</u>	8
<u>Physics</u>	9
<u>Science Education</u>	11

BIOLOGY

Journal Articles



Author(s): DAS, SUBHRADIP; ROY, ADHEENA ELSA; KANIKA; DESHPANDE, GIRISH; RATNAPARKHI, GIRISH S.

Title: Caspar modulates primordial germ cell fate both in an Oskar-dependent and Oskar-independent manner

Citation: Biology Open, 14 (7).

Publisher: The Company of Biologists

URI: <https://doi.org/10.1242/bio.062119>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10375>

Publication Date: 2025-07



Author(s): DASH, ANKITA; MATHEW, MABEL MARIA; PRASAD, KALIKA

Title: The mechanics of shaping organs in plants

Citation: Seminars in Cell & Developmental Biology, 175, 103640.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.semcdb.2025.103640>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10357>

Publication Date: 2025-12



Author(s): Firake, D. M.; Vasanthakumar, D.; Naga, K. C.; Wagh, Y. S.; Prasad, K. V.; Raju, D. V. S.; Ukarande, V. R.; Chavan, A. A.; PANDIT, SAGAR

Title: Integrative taxonomy reveals discovery of new blossom midge species infesting jasmine (*Jasminum sambac*) flower buds in India

Citation: Phytoparasitica, 53, 85.

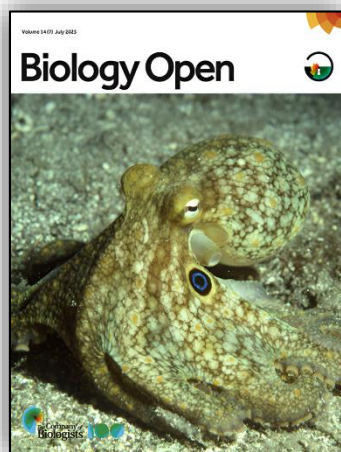
Publisher: Springer Nature

URI: <https://doi.org/10.1007/s12600-025-01307-1>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10372>

Publication Date: 2025-08

[Back to content](#)



Author(s): KONDE, MAYURESH VISHWAS; INCHANALKAR, SIDDHI; SHERKHANE, TUSHAR MANIK; DESHPANDE, NILESH; VIRMANI, MISHIKA; SINGH, KAJAL; BALASUBRAMANIAN, NAGARAJ

Title: CRISPR-Cas9 mediated RALA knockout and reconstitution: insights into the detection and role of RALA S194 phosphorylation in Ras-dependent and Ras-independent cancers

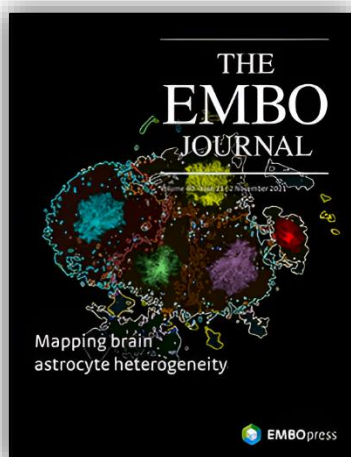
Citation: Biology Open, 14 (7).

Publisher: The Company of Biologists

URI: <https://doi.org/10.1242/bio.061884>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10374>

Publication Date: 2025-07



Author(s): Kumari, Jayanti; DUTTA, SOUMYAJIT; GAYATHRI, PANANGHAT et al.

Title: Distinct filament morphology and membrane tethering features of the dual FtsZ paralogs in Odinarchaeota

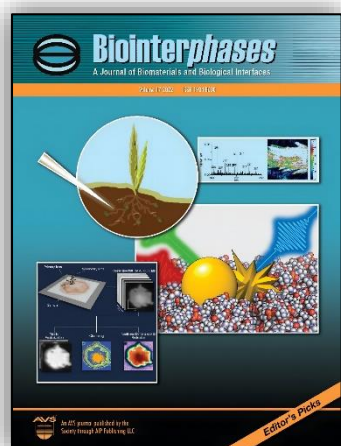
Citation: The EMBO Journal

Publisher: EMBO Press

URI: <https://doi.org/10.1038/s44318-025-00529-7>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10382>

Publication Date: 2025-08



Author(s): Paddillaya, Neha; Rao, Akshar; Shrivastava, Anshul; Jamir, Imnatoshi; SENGUPTA, KUNDAN; Gundiah, Namrata

Title: Substrate viscoelasticity regulates fibroblast adhesion and migration

Citation: Biointerphases, 20(04).

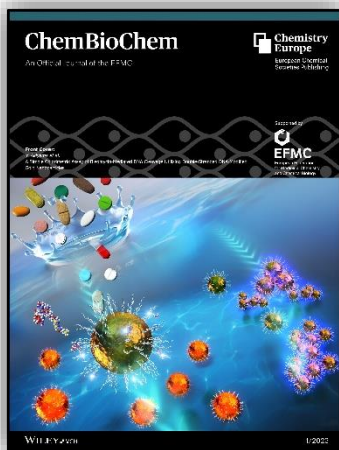
Publisher: AIP Publishing

URI: <https://doi.org/10.1116/6.0004585>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10377>

Publication Date: 2025-07

[Back to content](#)



Author(s): PATKI, GAURI M.; SRIDHAR, VANTHANAA; RAJAMANI, SUDHA

Title: Characterizing Mixed Single-Chain Amphiphile-Based Coacervates as a Robust Protocell System

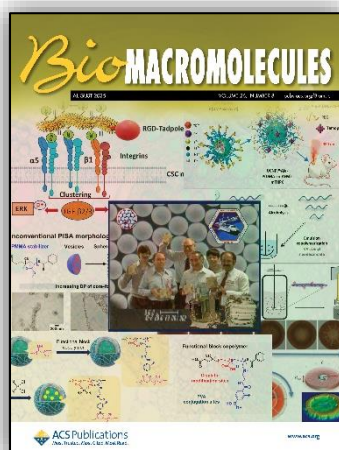
Citation: ChemBioChem.

Publisher: Wiley

URI: <https://doi.org/10.1002/cbic.202500437>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10383>

Publication Date: 2025-08



Author(s): SINGH, KAJAL; PATHAN, SHAHIDKHAN; MALHOTRA, MEHAK; JAYAKANNAN, MANICKAM; BALASUBRAMANIAN, NAGARAJ

Title: Unimolecular Micelle for MLN8237 Delivery to Target AURKA-RalA Crosstalk for Ras-Driven Tumor Suppression in Mice Xenografts

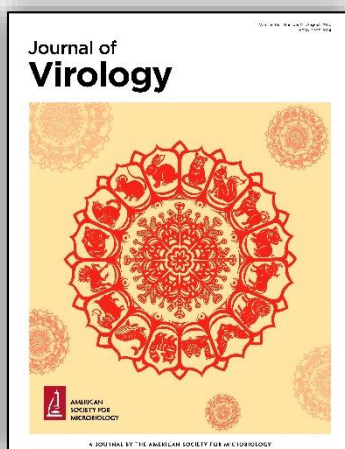
Citation: Biomacromolecules, 26(08), 4948-4966.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.biomac.5c00366>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10368>

Publication Date: 2025-08



Author(s): Verma, Assim; BEJJANKI, SANDEEP KUMAR; PANANGHAT, GAYATHRI et al.

Title: TGF- β inhibitor SB431542 suppresses SARS-CoV-2 replication through multistep inhibition

Citation: Journal of Virology.

Publisher: American Society for Microbiology

URI: <https://doi.org/10.1128/jvi.00529-25>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10381>

Publication Date: 2025-08

[Back to content](#)

CHEMISTRY

Journal Articles



Author(s): Bajpai, Priyam; THULASIRAM, SHRIVATSA; Vanka, Kumar

Title: The critical helping hand of water: theory shows the way to obtain elusive, granular information about kinetic asymmetry driven systems

Citation: Chemical Science, 16(33), 14940-14955.

Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D5SC03256C>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10363>

Publication Date: 2025-07



Author(s): Karthikkumar, R.; Bhattacharjee, Koushiki; CHAKRABORTY, DEBANJAN; Nandi, Shyamapada

Title: Robust triazene-resorcinol polymeric framework for universal iodine and iodide scavenging

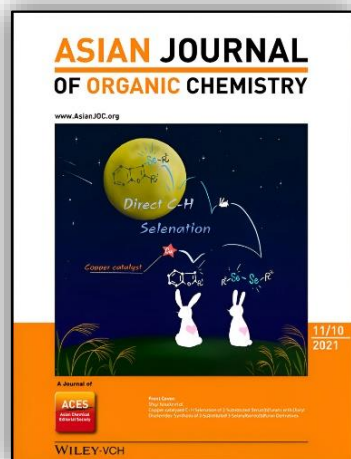
Citation: Journal of Environmental Chemical Engineering, 13(05), 118343.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.jece.2025.118343>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10373>

Publication Date: 2025-10



Author(s): Mandal, Prakash K.; Hoque, Md Tanjul; Manna, Anindya S.; BAIDYA, RAMLAL; Nandi, Rajesh; Pal, Subhasis; Karchaudhuri, Nilay; Maiti, Dilip K.

Title: Non-Noble Metal Catalysis in Focus: Unlocking Latest Emergent Frontiers in Amide Annulation Through C–H/C–X Activation

Citation: Asian Journal of Organic Chemistry

Publisher: Wiley

URI: <https://doi.org/10.1002/ajoc.202500478>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10367>

Publication Date: 2025-07

[Back to content](#)



Author(s): Raskar, Shubhangi; HOODA, RAHUL; MUKHERJEE, ARNAB; Mitra, Sirsha

Title: LC-MS/MS-based metabolic profiling and in silico molecular modeling revealed a quorum sensing inhibitor from *Embelia ribes* Burm. f. fruits

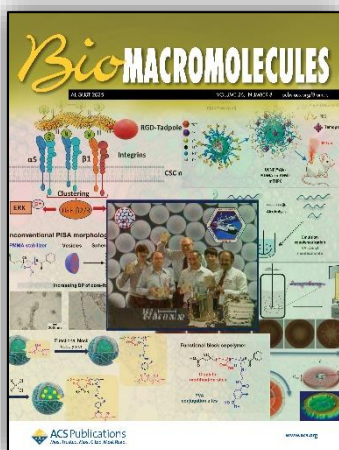
Citation: Food Bioscience, 71, 107240.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.fbio.2025.107240>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10362>

Publication Date: 2025-09



Author(s): SINGH, KAJAL; PATHAN, SHAHIDKHAN; MALHOTRA, MEHAK; JAYAKANNAN, MANICKAM; BALASUBRAMANIAN, NAGARAJ

Title: Unimolecular Micelle for MLN8237 Delivery to Target AURKA-RaA Crosstalk for Ras-Driven Tumor Suppression in Mice Xenografts

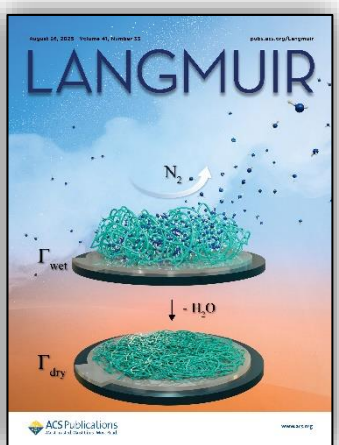
Citation: Biomacromolecules, 26(08), 4948-4966.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.biomac.5c00366>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10368>

Publication Date: 2025-08



Author(s): SONWANI, DISHA; NAYAK, BHOJKUMAR; Mishra, Neeraj; KANADE, SANDEEP C.; KUMAR, HITESH; CHUDIWAL, ANKITA; Makov, Guy; THOTIYL, MUSTHAFA OTTAKAM

Title: A Dual-Carbide Heterostructure Interface-Driven Broad pH Range Hydrogen Fuel Production

Citation: Langmuir

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.langmuir.5c02133>

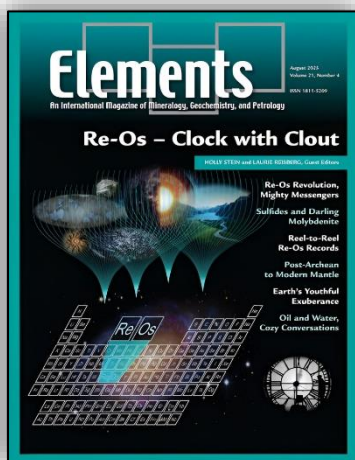
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10354>

Publication Date: 2025-08

[Back to content](#)

EARTH AND CLIMATE SCIENCE

Journal Article



Author(s): Kendall, Brian; Creaser, Robert A.; Hannah, Judith L.; Goswami, Vineet; TRIPATHY, GYANA RANJAN

Title: Reel-to-Reel Re-Os Records: Earth System Transactions Preserved in Sediments

Citation: Elements, 21 (4), 264-270.

Publisher: Mineralogical Society of America

URI: <https://doi.org/10.2138/gselements.21.4.264>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10355>

Publication Date: 2025-08

[Back to content](#)

HUMANITIES AND SOCIAL SCIENCES

Books



Author(s): Sriram, M. S.; Sundar Ram, Sita; PAI, VENKETESWARA R

Book Title: Bhāskarācārya's Siddhāntaśiromaṇi - Grahagaṇita with the Vāsanābhāṣya Translation with Explanatory notes- Volume I: Madhyama, Spāṣṭa, Tripraśna Adhikāras

Publisher: Hindustan Book Agency

Series: Culture and History of Mathematics- 13

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10359>

Publication Date: 2025



Author(s): Sriram, M. S.; Sundar Ram, Sita; PAI, VENKETESWARA R

Book Title: Bhāskarācārya's Siddhāntaśiromaṇi - Grahagaṇita with the Vāsanābhāṣya Translation with Explanatory notes- Volume II: Parvasambhava to Pāta Adhikāras

Publisher: Hindustan Book Agency

Series: Culture and History of Mathematics- 13

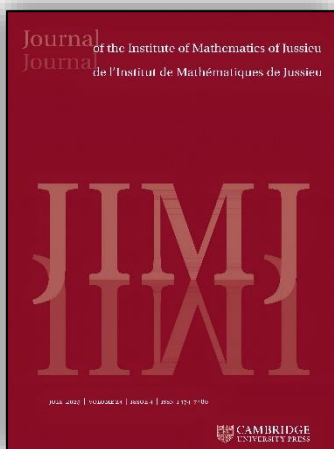
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10353>

Publication Date: 2025

[Back to content](#)

MATHEMATICS

Journal Articles



Author(s): BHAGWAT, CHANDRASHEEL; Raghuram, A.

Title: Eisenstein Cohomology for Orthogonal Groups and the Special Values Of L-Functions for $GL_1 \times O(2n)$

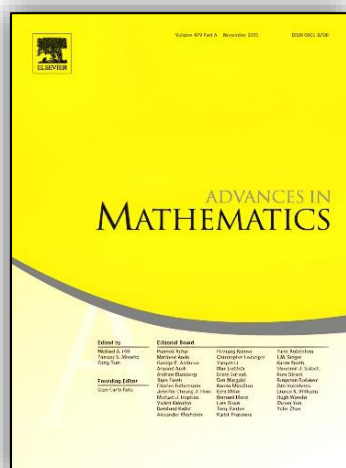
Citation: Journal of the Institute of Mathematics of Jussieu

Publisher: Cambridge University Press

URI: <https://doi.org/10.1017/S1474748025101096>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10369>

Publication Date: 2025-08



Author(s): BHAKTA, MOUSOMI; Ganguly, Debdip; Karmakar, Debabrata; Mazumdar, Saikat

Title: Sharp quantitative stability of Struwe's decomposition of the Poincaré-Sobolev inequalities on the hyperbolic space: Part I

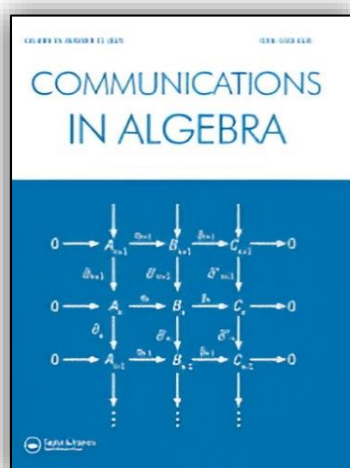
Citation: Advances in Mathematics, 479, Part B, 110447.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.aim.2025.110447>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10361>

Publication Date: 2025-11



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

Title: Polynomial maps with constants on split octonion algebras

Citation: Communications in Algebra.

Publisher: Taylor & Francis

URI: <https://doi.org/10.1080/00927872.2025.2531559>

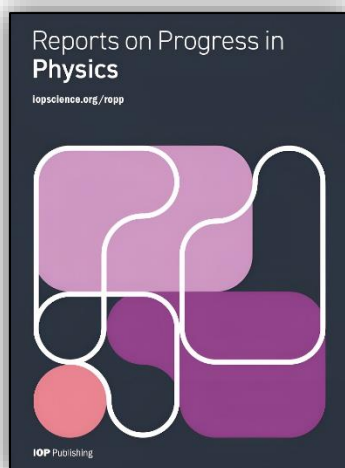
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10366>

Publication Date: 2025-07

[Back to content](#)

PHYSICS

Journal Articles



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: Model-agnostic search for dijet resonances with anomalous jet substructure in proton-proton collisions at $\sqrt{s} = 13$ TeV

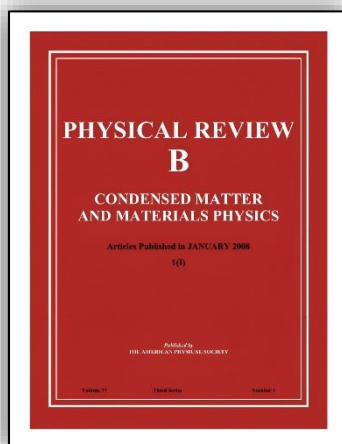
Citation: Reports on Progress in Physics, 88(06).

Publisher: IOP Publications

URI: <https://doi.org/10.1088/1361-6633/add762>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10376>

Publication Date: 2025-06



Author(s): Haertl, Patrick; Leisegang, Markus; SANKESHWAR, VIJAYALAXMI; Bode, Matthias

Title: Structural, electronic, and magnetic properties of europium films epitaxially grown on W(110)

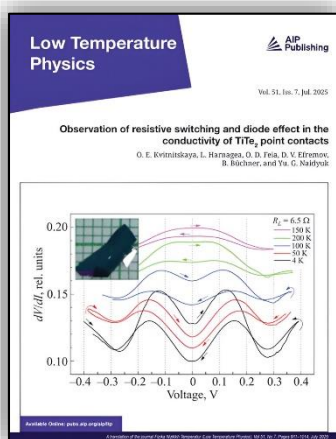
Citation: Physical Review B, 112, 024416.

Publisher: American Physical Society

URI: <https://doi.org/10.1103/175v-7ltx>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10365>

Publication Date: 2025-07



Author(s): Kvitnitskaya, O. E.; HARNAGEA, LUMINITA; Feia, O. D.,; Efremov, D. V.; Büchner, B.; Naidyuk, Yu. G.

Title: Observation of resistive switching and diode effect in the conductivity of TiTe₂ point contacts

Citation: Low Temperature Physics, 51(07), 856-860.

Publisher: AIP Publishing

URI: <https://doi.org/10.1063/10.0036929>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10356>

Publication Date: 2025-07

[Back to content](#)



Author(s): Sheela, Silpa Baburaj; Barik, Shovan Kanti; SHENOY, VARNA; CHANDAK, SOHAM; NATH, REJISH; Roy, Sanjukta

Title: Observation of effects of inter-atomic interaction on Autler-Townes splitting in cold Rydberg atoms

Citation: New Journal of Physics, 27, 083202.

Publisher: IOP Publishing

URI: <https://doi.org/10.1088/1367-2630/adf570>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10358>

Publication Date: 2025-08

[Back to content](#)

SCIENCE EDUCATION

Journal Article



Author(s): DABHOLKAR, SUGAT; Irgens, Golnaz Arastoopour; Wilensky, Uri

Title: Characterizing Integrated Learning of Disciplinary Core Ideas and Science Practices in a Computational Thinking (CT)-Integrated Biology Curriculum

Citation: Journal of Science Education and Technology

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s10956-025-10242-z>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/10378>

Publication Date: 2025-08

[Back to content](#)

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