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**Monthly Bulletin of Publications:  
Faculty, Scientists and Students of IISER Pune.  
JUNE 2024**

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# BIOLOGY

## Journal Articles

**Author(s)** BHATTACHARYYA, SOUMYA; PUCADYIL, THOMAS J.  
**Title** Dynamics of membrane tubulation coupled with fission by a two-component module  
**Citation** Proceedings of National Academy of Sciences, 121(20) e2402180121.  
**Publisher** National Academy of Sciences  
**URI** <https://doi.org/10.1073/pnas.2402180121>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8992>  
**Date of Publication** 2024-05

**Author(s)** Chen, Chunli; PRASAD, KALIKA et al.  
**Title** Plant regeneration in the new era: from molecular mechanisms to biotechnology applications  
**Citation** Science China Life Sciences, 67, 1338-1367.  
**Publisher** Springer Nature  
**URI** <https://doi.org/10.1007/s11427-024-2581-2>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8985>  
**Date of Publication** 2024-05

**Author(s)** Kushwaha, Shikha; Mallik, Bhagaban; Bisht, Anjali; Mushtaq, Zeeshan; Pippadpally, Srikanth; Chandra, Nitika; DAS, SUBHRADIP; RATNAPARKHI, GIRISH; Kumar, Vimlesh  
**Title** *dAsap regulates cellular protrusions via an Arf6-dependent actin regulatory pathway in S2R+ cells*  
**Citation** *FEBS Letters*, 598(12), 1491-1505.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1002/1873-3468.14954>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8999>  
**Date of Publication** 2024-06

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**Author(s)** VIBISHAN, B.; HARSHAVARDHAN, B. V.; DEY, SUTIRTH  
**Title** A resource-based mechanistic framework for castration-resistant prostate cancer (CRPC)  
**Citation** Journal of Theoretical Biology, 587, 111806.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.jtbi.2024.111806>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8984>  
**Date of Publication** 2024-06

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# CHEMISTRY

## Journal Articles

**Author(s)** Chatterjee, Debasmita; Sajeevan, Amritha; Jana, Sandipan; Birajdar, Rajkumar S.; Chikkali, Samir H.; SIVARAM, SWAMINATHAN; Gupta, Sayam Sen

**Title** Solvent-Free Hydroxylation of Unactivated C-H Bonds in Small Molecules and Macromolecules by a Fe Complex

**Citation** ACS Catalysis, 14(09), 7173-7181.

**Publisher** American Chemical Society

**URI** <https://doi.org/10.1021/acscatal.4c00775>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8980>

**Date of Publication** 2024-05

**Author(s)** CHATTERJEE, JOY; CHATTERJEE, ABHIJIT; TANWAR, RITEEKA; PANWARIA, PRAKASH; SAIKIA, SAJID; Ambhore, Madan D.; MANDAL, PANKAJ; HAZRA, PARTHA

**Title** Activation of TADF in Photon Upconverting Crystals of Dinuclear Cu(I)-Iodide Complexes by Ligand Engineering

**Citation** Journal of Physical Chemistry Letters, 15(23), 6069-6080.

**Publisher** American Chemical Society

**URI** <https://doi.org/10.1021/acs.jpcllett.4c01122>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8993>

**Date of Publication** 2024-06

**Author(s)** Gulavani, Vaibhavi; THOTIYL, MUSTHAFA OTTAKAM; John, Bibin; Yengantiwar, Ashish

**Title** Post-mortem study and long cycling stability of silica/carbon composite as anode in Li-ion cells

**Citation** Journal of Physics D: Applied Physics

**Publisher** IOP Publishing

**URI** <https://doi.org/10.1088/1361-6463/ad5b6f>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9004>

**Date of Publication** 2024-06

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**Author(s)** JANGID, PANKAJ; CHAUDHURY, SRABANTI; Kolomeisky, Anatoly  
**Title** Theoretical Understanding of Dynamic Catalysis  
**Citation** Journal of Physical Chemistry C, 128(22), 9077-9089.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acs.jpcc.4c02713>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8983>  
**Date of Publication** 2024-06

**Author(s)** KOTTAICHAMY, ALAGAR RAJA; Nazrulla, Mohammed Azeezulla; PARMAR, MUSKAN; THIMMAPPA, RAVIKUMAR; DEVENDRACHARI, MRUTHYUNJAYACHARI CHATTANAHALLI; Vinod, Chathakudath Prabhakaran; Volokh, Michael; Kotresh, Harish Makri Nimbegondi; Shalom, Menny; THOTIYL, MUSTHAFA OTTAKAM  
**Title** Ligand Isomerization Driven Electrocatalytic Switching  
**Citation** Angewandte Chemie International Edition  
**Publisher** Wiley  
**URI** <https://doi.org/10.1002/anie.202405664>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8997>  
**Date of Publication** 2024-05

**Author(s)** MONDAL, RITWIK; NAYAK, BHOJKUMAR; THOTIYL, MUSTHAFA OTTAKAM  
**Title** A Spontaneous Heavy Hydrogen Generator via a Protium Redox  
**Citation** Journal of Physical Chemistry Letters  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acs.jpcllett.4c01399>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9003>  
**Date of Publication** 2024-06

**Author(s)** PANWARIA, PRAKASH; DAS, ALOKE  
**Title**  $N\cdots C=O$   $n \rightarrow \pi^*$  Interaction: Gas-Phase Electronic and Vibrational Spectroscopy Combined with Quantum Chemistry Calculations  
**Citation** Journal of Physical Chemistry A, 128(23), 4685-4693.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acs.jpca.4c02181>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8991>  
**Date of Publication** 2024-06

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**Author(s)** Roy, Subhadip; Pan, Swagata; Choudhury, Neha; SIVARAM SWAMINATHAN; De, Priyadarsi  
**Title** Water-soluble polymeric probe with tryptophan pendants for formaldehyde sensing  
**Citation** European Polymer Journal, 215, 113241.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.eurpolymj.2024.113241>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8998>  
**Date of Publication** 2024-07

**Author(s)** SAHOO, SUPRIYA; PANDAY, RISHUKUMAR; Kothavade, Premkumar; Sharma, Vijay Bhan; Sowmiyanarayanan, Anirudh; Praveenkumar, Balu; Zareba, Jan K.; Kabra, Dinesh; Shanmuganathan, Kadhiravan; BOOMISHANKAR, RAMAMOORTHY  
**Title** A Highly Electrostrictive Salt Cocrystal and the Piezoelectric Nanogenerator Application of Its 3D-Printed Polymer Composite  
**Citation** ACS Applied Materials & Interfaces, 16(20), 26406-26416.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acsami.4c03349>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8981>  
**Date of Publication** 2024-05

**Author(s)** SALUNKE, SWATI BANSI; Save, Shreyada N.; ROY, NAVEEN J.; NAOREM, RONEDY; Sharma, Shilpy; TALUKDAR, PINAKI  
**Title** Bisindole-based small molecules as transmembrane anion transporters and potential anticancer agents  
**Citation** *Organic & Biomolecular Chemistry*, 22 (24), 4987-4992.  
**Publisher** Royal Society of Chemistry  
**URI** <https://doi.org/10.1039/D4OB00554F>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8995>  
**Date of Publication** 2024-06

**Author(s)** Verma, Ankit; Sahay, Suhag S.; Nayak, Sushree S.; Bhagat, Shivani; Dani, Shilpa H.; NAYAK, BHOJKUMAR; Pratap, Umesh R

**Title** A green and metal-free one-pot three-component synthesis of thiazolobenzimidazoles in sustainable deep eutectic solvent

**Citation** Inorganic Chemistry Communications, 166, 112613.

**Publisher** Elsevier B.V.

**URI** <https://doi.org/10.1016/j.inoche.2024.112613>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9001>

**Date of Publication** 2024-08

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# EARTH AND CLIMATE SCIENCE

## Journal Article

**Author(s)** MONTEIRO, JOY MERWIN  
**Title** The year 2023 may afford us a peek at a warmer world  
**Citation** Communications Earth & Environment, 5, 280.  
**Publisher** Springer Nature  
**URI** <https://doi.org/10.1038/s43247-024-01445-0>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8982>  
**Date of Publication** 2024-05

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# HUMANITIES AND SOCIAL SCIENCES

## Book Chapter

Author(s)	Joy, K. J.; THOMAS, BEJOY K.; Nair, Jyoti
Title	Knowledge and Policy/Practice in the Water Sector: Illustrating Contestations and Disconnectedness
Citation	Knowledge, Power and Ignorance
Publisher	Routledge India
URI	<a href="https://doi.org/10.4324/9781003485704">https://doi.org/10.4324/9781003485704</a>
DR URI	<a href="http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8979">http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8979</a>
Date of Publication	2024

## Journal Articles

Author(s)	NAG, SURYADEEPTO
Title	Does reliable electricity mean lesser agricultural labor wages? Evidence from Indian villages
Citation	Energy Policy, 190, 114151.
Publisher	Elsevier B.V.
URI	<a href="https://doi.org/10.1016/j.enpol.2024.114151">https://doi.org/10.1016/j.enpol.2024.114151</a>
DR URI	<a href="http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8988">http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8988</a>
Date of Publication	2024-07

Author(s)	Shroff, Anita; PAI, VENKETESWARA R.
Title	Relation between negation of sthānivadbhāva and asiddhatva
Citation	Annals of Bhandarkar Oriental Research Institute, 103, 15-37.
Publisher	Bhandarkar Oriental Research Institute
DR URI	<a href="http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8986">http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8986</a>
Date of Publication	2024

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# MATHEMATICS

## Journal Article

**Author(s)** BANERJEE, DEBARGHA; Merel, Loïc  
**Title** The Heisenberg covering of the Fermat curve  
**Citation** Canadian Journal of Mathematics  
**Publisher** Cambridge University Press  
**URI** <https://doi.org/10.4153/S0008414X24000476>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8990>  
**Date of Publication** 2024-05

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# PHYSICS

## Journal Articles

**Author(s)** CMS Collaboration; Tumasyan, A.; ALPANA, A.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; PANDEY, S.; RASTOGI, A.; SHARMA, SEEMA et al.

**Title** Study of azimuthal anisotropy of  $\gamma(1S)$  mesons in pPb collisions at  $\sqrt{s_{NN}}=8.16$  TeV

**Citation** Physics Letters B, 850, 138518.

**Publisher** Elsevier B.V.

**URI** <https://doi.org/10.1016/j.physletb.2024.138518>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8989>

**Date of Publication** 2024-03

**Author(s)** CMS Collaboration; Tumasyan, A.; ALPANA, A.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; PANDEY, S.; RASTOGI, A.; SHARMA, SEEMA et al.

**Title** Higher-order moments of the elliptic flow distribution in PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV

**Citation** Journal of High Energy Physics, 2024(02), 106.

**Publisher** Springer Nature

**URI** [https://doi.org/10.1007/JHEP02\(2024\)106](https://doi.org/10.1007/JHEP02(2024)106)

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9002>

**Date of Publication** 2024-02

**Author(s)** KUSHWAHA, PRAGYA; MAITY, SAYAN; Menon, Anjaly; Chelakkot, Raghunath; CHIKKADI, VIJAYAKUMAR

**Title** Percolation of nonequilibrium assemblies of colloidal particles in active chiral liquids

**Citation** Soft Matter, 20(24), 4699-4706.

**Publisher** Royal Society of Chemistry

**URI** <https://doi.org/10.1039/D4SM00305E>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8996>

**Date of Publication** 2024-06

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**Author(s)** Sarkar, Subhajit; AGARWALLA, BIJAY KUMAR; Bhakuni, Devendra Singh  
**Title** Impact of dephasing on nonequilibrium steady-state transport in fermionic chains with long-range hopping  
**Citation** Physical Review B, 109(16), 165408.  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevB.109.165408>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8994>  
**Date of Publication** 2024-04

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