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

Journal Articles

Author(s) Choudhary, Amit G.; Awathale, Sanjay N.; SUBHEDAR, NISHIKANT K.; Kokare, Dadasaheb M.

Title In-house fabrication of bipolar electrode-cannula assembly for electrical stimulation and drug delivery at the same site in rat brain

Citation Journal of Pharmacological and Toxicological Methods, 118, 107194.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.vascn.2022.107194>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7517>

Date of Publication 2022-12

Author(s) Higgins, Kendall; GALANDE, SANJEEV et al.

Title Analysis of genome-wide knockout mouse database identifies candidate ciliopathy genes

Citation Scientific Reports, 12, 20791.

Publisher Springer Nature

URI <https://doi.org/10.1038/s41598-022-19710-7>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7510>

Date of Publication 2022-12

Author(s) KUTTANAMKUZHI, ABHIJITH; ANANDI, LIBI; CHAKRAVARTY, VAISHALI; LAHIRI, MAYURIKA

Title Phospholipid Mediator Induced Transformation in Three-Dimensional Cultures

Citation Journal of Visualized Experiments: Cancer Research.

Publisher MyJoVE Corporation

URI <https://doi.org/10.3791/64146>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7430>

Date of Publication 2022-07

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Author(s) KUNDU, TANUSHREE; DAS, SOORAJ SIVA; SEWATKAR, LISAS K.; KUMAR, DIVYA S.; NAGAR, DHRITI; GHOSE, AURNAB
Title Antagonistic Activities of Fmn2 and ADF Regulate Axonal F-Actin Patch Dynamics and the Initiation of Collateral Branching
Citation Journal of Neuroscience, 42(39), 7355-7369.
Publisher Society for Neuroscience
URI <https://doi.org/10.1523/JNEUROSCI.3107-20.2022>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7491>
Date of Publication 2022-09

Author(s) Mehdiratta, Kritee; SINGH, SHUBHAM; KAMAT, SIDDHESH S.; GOKHALE , RAJESH S. et al.
Title Respiratory Quinone Switches from Menaquinone to Polyketide Quinone during the Development Cycle in Streptomyces sp. Strain MNU77
Citation Microbiology Spectrum.
Publisher American Society for Microbiology
URI <https://doi.org/10.1128/spectrum.02597-22>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7515>
Date of Publication 2022-12

Author(s) Roy, Aiendrila; Padhi, Swati Shree; Khyriem, Ibakordor; NIKOSE, SAKET; Sankar, S. H. Harsha
Title Resetting the epigenome: Methylation dynamics in cancer stem cells
Citation Frontiers in Cell and Developmental Biology, 10, 909424.
Publisher Frontiers Media S.A.
URI <https://doi.org/10.3389/fcell.2022.909424>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7447>
Date of Publication 2022-09

Author(s) SHANBHAG, KARTHIK; SHARMA, KAVITA; KAMAT, SIDDHESH S.
Title Photoreactive bioorthogonal lipid probes and their applications in mammalian biology
Citation RSC Chemical Biology.
Publisher Royal Society of Chemistry
URI <https://doi.org/10.1039/D2CB00174H>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7514>
Date of Publication 2022-12

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Author(s) Vaid, Pooja M.; SHASHIDHARA, L. S. et al.
Title Evaluation of tumor-infiltrating lymphocytes (TILs) in molecular subtypes of an Indian cohort of breast cancer patients
Citation Diagnostic Pathology, 17, 91.
Publisher BioMed Central Ltd.
URI <https://doi.org/10.1186/s13000-022-01271-y>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7488>
Date of Publication 2022-12

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CHEMISTRY

Journal Articles

Author(s) DABHADE, AKASH; CHAUHAN, AKSHAY; CHAUDHURY, SRABANTI
Title Coupling Effects of Electrostatic Interactions and Salt Concentration Gradient in Polymer Translocation through a Nanopore: A Coarse-Grained Molecular Dynamics Simulations Study
Citation ChemPhysChem.
Publisher Wiley
URI <https://doi.org/10.1002/cphc.202200666>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7490>
Date of Publication 2022-10

Author(s) DUTTA, SUBHAJIT; MORE, YOGESHWAR D.; FAJAL, SAHEL; MANDAL, WRITAKSHI; DAM, GOURAB K.; GHOSH, SUJIT K.
Title Ionic metal-organic frameworks (iMOFs): progress and prospects as ionic functional materials
Citation Chemical Communications, 58(19), 13676-13698.
Publisher Royal Society of Chemistry
URI <https://doi.org/10.1039/D2CC05131A>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7493>
Date of Publication 2022-12

Author(s) DUTTA, TANIYA; Kashid, Somnath M.; HOODA, RAHUL; SHEIKH, TARIQ; Chowdhury, Arindam; NAG, ANGSHUMAN
Title Edge versus Interior Mn²⁺ Doping in 2D Layered Butylammonium Lead Bromide Perovskite Single Crystals
Citation Journal of Physical Chemistry C, 126(49), 21109-21116.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.jpcc.2c06911>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7541>
Date of Publication 2022-12

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Author(s) FAJAL, SAHEL; Hassan, Atikur; MANDAL, WRITAKSHI; Shirolkar, Mandar M. M.; LET, SUMANTA; Das, Neeladri; GHOSH, SUJIT K.

Title Ordered Macro/Microporous Ionic Organic Framework for Efficient Separation of Toxic Pollutants from Water

Citation Angewandte Chemie International Edition.

Publisher Wiley

URI <https://doi.org/10.1002/anie.202214095>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7537>

Date of Publication 2022-11

Author(s) GOURKHEDE, RANI; PRAJESH, NEETU; GUPTA, RISHABH; BOOMISHANKAR, RAMAMOORTHY

Title Synthesis and ferroelectric behaviour of an axially symmetric octahedral [Cu₆L₈]¹²⁺ cage

Citation Journal of Chemical Sciences, 134, 115.

Publisher Springer Nature

URI <https://doi.org/10.1007/s12039-022-02112-7>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7492>

Date of Publication 2022-11

Author(s) Gupta, Kavya; Mathew, Abraham Binoy; CHAKRAPANI, HARINATH; Saini, Deepak Kumar

Title H₂S contributed from CSE during cellular senescence suppresses inflammation and nitrosative stress

Citation Biochimica et Biophysica Acta (BBA) - Molecular Cell Research, 1870(2), 119388.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.bbamcr.2022.119388>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7511>

Date of Publication 2023-02

Author(s) HOSSAIN, JABED; Gopinath, Jishnu Sai; Tothadi, Srinu; Parameswaran, Pattiyil; KHAN, SHABANA

Title NHSi/NHGe-Supported Copper Halide and Pseudohalide Complexes: Synthesis and Application

Citation Organometallics, 41(23), 3706-3717.

Publisher American Chemical Society

URI <https://doi.org/10.1021/acs.organomet.2c00480>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7516>

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Author(s) METYA, SURAJIT; DAS, ALOKE
Title S-H...O Hydrogen Bond Can Win over O-H...S Hydrogen Bond: Gas-Phase Spectroscopy of 2-Fluorothiophenol...H₂O Complex
Citation Journal of Physical Chemistry A, 126(49), 9178-9189.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.jpca.2c06083>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7538>
Date of Publication 2022-12

Author(s) SHIRAJ, ABDUL; Ramabhadran, Raghunath O.; GANESH, KRISHNA N.
Title Aza-PNA: Engineering E-Rotamer Selectivity Directed by Intramolecular H-bonding
Citation Organic Letters, 24(40), 7421-7427.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.orglett.2c02993>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7542>
Date of Publication 2022-10

Author(s) Siddiqui, Zahir Ali; Lambud, Sushil; Bhadke, Anil; Kumar, Ravi; PRAJESH, NEETU; Sekar, Nagaiyan; More, Sandeep
Title Unexpected formation of 2-methyl-1H-naphtho [2, 3-d] imidazole via decarboxylation governed mechanistic pathway
Citation Chemical Physics, 565, 111735.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.chemphys.2022.111735>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7489>
Date of Publication 2023-01

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EARTH AND CLIMATE SCIENCE

Journal Articles

Author(s)	BANERJEE, ARGHA; Singh, Ujjwal; SHETH, CHINTAN
Title	Disaggregating geodetic glacier mass balance to annual scale using remote-sensing proxies
Citation	Journal of Glaciology.
Publisher	Cambridge University Press
URI	https://doi.org/10.1017/jog.2022.89
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7512
Date of Publication	2022-12

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HUMANITIES AND SOCIAL SCIENCES

Book Chapters

Author(s) Shylaja, B. S.; PAI, VENKETESWARA R.
Title Star names in Indian culture - a search leading to their evolution
Citation Astronomy in Culture- Cultures of Astronomy Astronomie in der Kultur- Kulturen der Astronomie, 351-360.
Publisher German Astronomical Society
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7535>
Date of Publication 2022

Author(s) PAI, VENKETESWARA R.
Title An Appraisal of Vākyakaraṇa of Parameśvara
Citation History and Development of Mathematics in India, 269-277.
Publisher National Mission for Manuscripts and DK Printworlds
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7548>
Date of Publication 2022

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MATHEMATICS

Author(s) Arapostathis, Ari; BISWAS, ANUP; ROYCHOWDHURY, PRASUN
Title Generalized principal eigenvalues on R^d of second order elliptic operators with rough nonlocal kernels
Citation Nonlinear Differential Equations and Applications, 30, 10.
Publisher Springer Nature
URI <https://doi.org/10.1007/s00030-022-00821-z>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7494>
Date of Publication 2022-11

Author(s) Balakumar, G. P.; BORAH, DIGANTA; Mahajan, Prachi; Verma, Kaushal
Title Limits of an increasing sequence of complex manifolds
Citation Annali di Matematica Pura ed Applicata (1923).
Publisher Springer Nature
URI <https://doi.org/10.1007/s10231-022-01285-9>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7518>
Date of Publication 2022-11

Author(s) BISWAS, ANUP; Pradhan, Somnath
Title Ergodic risk-sensitive control for regime-switching diffusions
Citation Systems & Control Letters, 170,105399.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.sysconle.2022.105399>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7540>
Date of Publication 2022-12

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PHYSICS

- Author(s)** CMS Collaboration; Sirunyan, A. M.; ALPANA, K.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.
- Title** Search for Higgs Boson Pair Production in the Four b Quark Final State in Proton-Proton Collisions at $\sqrt{s}=13$ TeV
- Citation** Physical Review Letters, 129(8), 081802.
- Publisher** American Physical Society
- URI** <https://doi.org/10.1103/PhysRevLett.129.081802>
- DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7543>
- Date of Publication** 2022-08
-
- Author(s)** GHOSH, RATHEEJIT; MISHRA, CHINMAYEE; Santos, Luis; NATH, REJISH
- Title** Droplet arrays in doubly dipolar Bose-Einstein condensates
- Citation** Physical Review A, 106(6), 063318.
- Publisher** American Physical Society
- URI** <https://doi.org/10.1103/PhysRevA.106.063318>
- DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7544>
- Date of Publication** 2022-12
-
- Author(s)** Zevin, Michael; Nugent, Anya E.; ADHIKARI, SUSMITA; Fong, Wen-fai; Holz, Daniel E.; Kelley, Luke Zoltan
- Title** Observational Inference on the Delay Time Distribution of Short Gamma-Ray Bursts
- Citation** Astrophysical Journal Letters, 940 (1).
- Publisher** IOP Publishing
- URI** <https://doi.org/10.3847/2041-8213/ac91cd>
- DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7513>
- Date of Publication** 2022-11

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