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

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Title Labeling and tracking mitochondria with photoactivation in Drosophila embryos
Citation Bio-protocol, 12(5).
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URI <https://doi.org/10.21769/BioProtoc.4347>
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Author(s) DAGAR, SHIKHA; SARKAR, SUSOVAN; RAJAMANI, SUDHA
Title Porphyrin in Prebiotic Catalysis: Ascertaining a Route for the Emergence of Early Metalloporphyrins
Citation CheBioChem.
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Author(s) DUBAL, DNYANESH; MOGHE, PRACHITI; VERMA, RAHUL KUMAR; UTTEKAR, BHAVIN; RIKHY, RICHA
Title Mitochondrial fusion regulates proliferation and differentiation in the type II neuroblast lineage in Drosophila
Citation PLOS Genetics, 18(2), e1010055.
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Author(s) Hyppa, Randy W.; Cho, Joshua D.; NAMBIAR, MRIDULA; Smith, Gerald R.
Title Redirecting meiotic DNA break hotspot determinant proteins alters localized spatial control of DNA break formation and repair
Citation Nucleic Acids Research, 50(2), 899-914.
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Title Polymerization kinetics of tubulin from mung seedlings modeled as a competition between nucleation and GTP-hydrolysis rates
Citation Cytoskeleton.
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Author(s) MADAN, SOMYA; UTTEKAR, BHAVIN; CHOWDHARY, SAYALI; RIKHY, RICHA
Title Mitochondria Lead the Way: Mitochondrial Dynamics and Function in Cellular Movements in Development and Disease
Citation Frontiers in Cell and Developmental Biology, 9, 781933.
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Author(s) MISHRA, ABHISHEK; TUNG, SUDIPTA; SRUTI, V. R. SHREE; SHREENIDHI, P. M.; DEY, SUTIRTH
Title Desiccation Stress Acts as Cause as well as Cost of Dispersal in Drosophila melanogaster
Citation American Naturalist, 199(4).
Publisher University of Chicago Press
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Author(s) OJHA, MEGHA; Naidu, Dilip G. T.; Bagchi, Sumanta
Title Meta-analysis of induced anti-herbivore defence traits in plants from 647 manipulative experiments with natural and simulated herbivory
Citation Journal of Ecology.
Publisher Wiley
URI <https://doi.org/10.1111/1365-2745.13841>
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Author(s) RAJAMANI, SUDHA; Biondi, Elisa
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Author(s) ROY, KRISHNENDU; PUCADYIL, THOMAS J.
Title Metal-Binding Propensity in the Mitochondrial Dynamin-Related Protein 1
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Author(s) SHARMA, SWATI; RIKHY, RICHA
Title Measurement of contractile ring tension using two-photon laser ablation in Drosophila cellularization
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Author(s) UMESH, K. P.; PANDEY, PRASHASTI P.; KUMAR, MANISH; PANDIT, SAGAR S.
Title An untapped plant defense: Eggplant's steroidal glycoalkaloid solasonine confers deterrence against the Oriental leafworm Spodoptera litura
Citation Entomologia Generalis, 42(1), 101-116.
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Author(s) YADAV, TARUN; Gau, David; Roy, Partha
Title Mitochondria-actin cytoskeleton crosstalk in cell migration
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CHEMISTRY

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Title Effect of Concentration and Temperature on the Structure and Ion Transport in Diglyme-Based Sodium-Ion Electrolyte
Citation Journal of Physical Chemistry B, 126(10), 2119-2129.
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Author(s) BISWAS, SWASTIK; PATEL, NIRANJAN; DEB, RAHUL; MAJUMDAR, MOUMITA
Title Chemistry of the Bis(imine)-Based Tetradentate Ligand Stabilized Group 14 E(II) Cations (E=Ge and Sn)
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Author(s) BORA, PRERONA; SATHIAN, MANJIMA B.; CHAKRAPANI, HARINATH
Title Enhancing cellular sulfane sulfur through β -glycosidase-activated persulfide donors: mechanistic insights and oxidative stress mitigation
Citation Chemical Communications, 58(18), 2987-2990.
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URI <https://doi.org/10.1039/D1CC07162A>
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Author(s) DEBNATH, BHARATI; Singh, Saideep; HOSSAIN, SK MUJAFFAR; KRISHNAMURTHY, SHRREYA; Polshettiwar, Vivek; OGALE, SATISHCHANDRA
Title Visible Light-Driven Highly Selective CO₂ Reduction to CH₄ Using Potassium-Doped g-C₃N₅
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Author(s) FAJAL, SAHEL; MANDAL, WRITAKSHI; MAJUMDER, DIPANJAN; Shirolkar, Mandar M.; MORE, YOGESHWAR D.; GHOSH, SUJIT K.
Title Unfolding the Role of Building Units of MOFs with Mechanistic Insight towards Selective Metal Ions Detection in Water
Citation Chemistry–A European Journal.
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Author(s) GHOSH, MOUSHAKHI; SEN, NILANJANA; KHAN, SHABANA
Title Coinage Metal Complexes of Germylene and Stannylene
Citation ACS Omega, 7(8), 6449-6454.
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Title Polymerization kinetics of tubulin from mung seedlings modeled as a competition between nucleation and GTP-hydrolysis rates
Citation Cytoskeleton.
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Author(s) PARMAR, SWATI; PRAJESH, NEETU; WABLE, MINAL; Choudhary, Ram Janay; Gosavi, Suresh; BOOMISHANKAR, RAMAMOORTHY; OGALE, SATISHCHANDRA
Title Growth of highly conducting MoS_{2-x}N_x thin films with enhanced 1T' phase by pulsed laser deposition and exploration of their nanogenerator application
Citation iScience, 25(3), 103898
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Title Mechanism of Ion Conduction and Dynamics in Tris(N,N-dimethylformamide) Perchloratosodium Solid Electrolytes
Citation Journal of Physical Chemistry C, 126(10), 4744-4750.
Publisher American Chemical Society
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Title Mechanochemical route for tetra amino zinc phthalocyanine embedded PANI sensitized Fe₂O₃ heteroarchitecture for photodegradation of dyes under the influence of low power LED light source
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Date of Publication 2022-04

Author(s) Ren, Changliang; TALUKDAR, PINAKI; Zeng, Huaqiang
Title Editorial: Artificial Membrane Transporters
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URI <https://doi.org/10.3389/fchem.2022.841159>
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Author(s) TODKARI, IRANNA; GUPTA, MANOJ KUMAR; GANESH, KRISHNA N.
Title Silver soldering of PNA:DNA duplexes: assembly of a triple duplex from bimodal PNAs with all-C on one face
Citation Chemical Communications, 58(25), 4083-4086.
Publisher Royal Society of Chemistry
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EARTH AND CLIMATE SCIENCE

Author(s) BANERJEE, ARGHA
Title A Weak Precipitation Sensitivity of Glacier Runoff
Citation Geophysical Research Letters, 49(5), e2021GL096989.
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URI <https://doi.org/10.1029/2021GL096989>
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Author(s) Chandrothh, Anupama; CHATTOPADHYAY, DEVAPRIYA
Title Micromorphy Offers Effective Defense Against Predation: Insights From Cost-Benefit Analyses of the Miocene Microgastropod Predation Record from Kerala, India
Citation Contributions: from the Museum of Paleontology, 34(6), 63-81.
Publisher Museum of Paleontology, The University of Michigan
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Author(s) Lone, Aasif Mohmad; Singh, Satinder Pal; Shah, Rayees Ahmad; Achyuthan, Hema; Ahmad, Nafees; Qasim, Abul; TRIPATHY, GYANA RANJAN; SAMANTA, ANUPAM; Kumar, Pankaj
Title The late Holocene hydroclimate variability in the Northwest Himalaya: Sedimentary clues from the Wular Lake, Kashmir Valley
Citation Journal of Asian Earth Sciences, 229, 105184.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.jseaes.2022.105184>
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Title Luminescence chronology of Late Quaternary palaeo-lake deposits from the Upper Alaknanda Basin, Uttarakhand, India: Implication to palaeoclimate and depositional settings

Citation Journal of Asian Earth Sciences, 227, 105079.

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Author(s) SOHONI, PUSHKAR
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Author(s) SOHONI, PUSHKAR
Title Golconda and Hyderabad
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Author(s) SOHONI, PUSHKAR
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Author(s) Chen, Huyuan; BHAKTA, MOUSOMI; Hajaiej, Hichem
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Citation Journal of Differential Equations, 317, 1-31.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.jde.2022.02.004>
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Author(s) DESHMUKH, NEERAJ; HOGADI, AMIT; Mathur, Siddharth
Title Quasi-Affineness and the 1-Resolution Property
Citation International Mathematics Research Notices, 2022(3), 2224-2249.
Publisher Oxford University Press
URI <https://doi.org/10.1093/imrn/rnaa125>
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Author(s) GAIKWAD, AJINKYA; MAITY, SOUMEN
Title Globally minimal defensive alliances
Citation Information Processing Letters, 177, 106253.
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URI <https://doi.org/10.1016/j.ipl.2022.106253>
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Author(s) GAIKWAD, AJINKYA; MAITY, SOUMEN; TRIPATHI, SHUVAM KANT
Title Parameterized complexity of satisfactory partition problem
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Title Zero-One Laws for Existential First-Order Sentences of Bounded Quantifier Depth
Citation ACM Transactions on Computational Logic, 23(2), 1-27.
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Author(s) GAIKWAD, AJINKYA; MAITY, SOUMEN; TRIPATHI, SHUVAM KANT
Title Parameterized Intractability of Defensive Alliance Problem
Citation Algorithms and Discrete Applied Mathematics, 279-291.
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Author(s) GAIKWAD, AJINKYA; MAITY, SOUMEN
Title On the Harmless Set Problem Parameterized by Treewidth
Citation WALCOM: Algorithms and Computation, 227-238.
Publisher Springer Nature
URI https://doi.org/10.1007/978-3-030-96731-4_19
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Author(s) Barman, Subhdeep; Sikdar, Suranjan; BISWAS, ABHIJIT; Islam, Anikul; Das, Rahul

Title Green synthesis of $Mn_xZn_{(1-x)}O$ nanostructure using Azadirachta indica leaf extract and its microstructural and optical study

Citation Physica Scripta, 97(4).

Publisher IOP Publishing

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Author(s) Chakraborty, T.; BHATTACHARYA, R.; ANJUSHA, V. S.; Nesladek, M.; SUTER, D.; MAHESH, T. S.

Title Magnetic-Field-Assisted Spectral Decomposition and Imaging of Charge States of N-V Centers in Diamond

Citation Physical Review Applied, 17(2).

Publisher American Physical Society

URI <https://doi.org/10.1103/PhysRevApplied.17.024046>

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Date of Publication 2022-02

Author(s) Chakraborty, T.; Zhang, J.; SUTER, D

Title Optimization of a quantum control sequence for initializing a nitrogen-vacancy spin register

Citation Physical Review A, 105(2), 022622.

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Author(s) CHAUBEY, SHAIENDRA K.; TIWARI, SUNNY; SHUKLA, ASHUTOSH; GOKUL, M. A.; RAHMAN, ATIKUR; KUMAR, G. V. PAVAN

Title Directing monolayer tungsten disulfide photoluminescence using a bent-plasmonic nanowire on a mirror cavity

Citation European Physical Journal Special Topics.

Publisher Springer Nature

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Date of Publication 2022-03

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

Title Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV

Citation Journal of High Energy Physics, 2022(2).

Publisher Springer Nature

URI [https://doi.org/10.1007/JHEP02\(2022\)142](https://doi.org/10.1007/JHEP02(2022)142)

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Title Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at $\sqrt{s}=13$ TeV

Citation European Physical Journal C, 82(2).

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Title Measurement of the Inclusive and Differential Higgs Boson Production Cross Sections in the Decay Mode to a Pair of τ Leptons in pp Collisions at $\sqrt{s}=13$ TeV

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Author(s) CMS Collaboration; Tumasyan, A.; DUBE, SOURABH; KANSAL, B.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.
Title Search for strongly interacting massive particles generating trackless jets in proton-proton collisions at $\sqrt{s}=13\text{TeV}$
Citation European Physical Journal C, 82, 213.
Publisher Springer Nature
URI <https://doi.org/10.1140/epjc/s10052-022-10095-5>
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Author(s) Grebenkov, Denis S.; KUMAR, AANJANEYA
Title Reversible target-binding kinetics of multiple impatient particles
Citation Journal of Chemical Physics, 156(8), 084107
Publisher AIP Publishing
URI <https://doi.org/10.1063/5.0083849>
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Author(s) JAIN, SACHIN; JOHN, RENJAN RAJAN; MEHTA, ABHISHEK; DHRUVA, K. S.
Title Constraining momentum space CFT correlators with consistent position space OPE limit and the collider bound
Citation Journal of High Energy Physics, 2022(2).
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Author(s) JAIN, KUNALIKA; BASU, JASHASWI; ROY, MEGHA; YADAV, JYOTI; PATIL, SHIVPRASAD; ATHALE, CHAITANYA A.
Title Polymerization kinetics of tubulin from mung seedlings modeled as a competition between nucleation and GTP-hydrolysis rates
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Author(s) Kansabanik, Devojjyoti; Mondal, Surajit; Oberoi, Divya; Biswas, Ayan; BHUNIA, SHILPI
Title Robust Absolute Solar Flux Density Calibration for the Murchison Widefield Array
Citation Astrophysical Journal, 927(1).
Publisher IOP Publishing
URI <https://doi.org/10.3847/1538-4357/ac4bba>
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Author(s) KULKARNI, SUMAN; DHAR, DEEPAK
Title Finite size scaling functions of the phase transition in the ferromagnetic Ising model on random regular graphs
Citation Journal of Statistical Mechanics: Theory and Experiment, 2022(2).
Publisher IOP Publishing
URI <https://doi.org/10.1088/1742-5468/ac4c3e>
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Title N, H Dual-Doped Black Anatase TiO₂ Thin Films toward Significant Self-Activation in Electrocatalytic Hydrogen Evolution Reaction in Alkaline Media
Citation Advanced Energy and Sustainability Research, 3(1), 2100137.
Publisher Wiley
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Author(s) PARMAR, SWATI; PRAJESH, NEETU; WABLE, MINAL; Choudhary, Ram Janay; Gosavi, Suresh; BOOMISHANKAR, RAMAMOORTHY; OGALE, SATISHCHANDRA
Title Growth of highly conducting MoS_{2-x}N_x thin films with enhanced 1T' phase by pulsed laser deposition and exploration of their nanogenerator application
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Author(s) Pu, Songyang; SREEJITH, G. J.; Jain, J. K.
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Author(s) SARYAL, SUSHANT; MOHANTA, SANDIPAN; AGARWALLA, BIJAY KUMAR
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Author(s) SHAH, AAGAM; DHAR, DEEPAK; Rajesh, R
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