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

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PATENT

Inventor(s) BRITTO, SANDANARAJ S.; REDDY, MULLAPUDI MOHAN
Title Method for synthesis of protein amphiphiles
Assignee Indian Institute of Science Education and Research Pune
Patent No. US11945838B2
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8628>
Date of Publication 2024-04

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BIOLOGY

Journal Articles

Author(s) CHAKRABORTY, ARNAB; KAMAT, SIDDHESH S.
Title Lysophosphatidylserine: A Signaling Lipid with Implications in Human Diseases
Citation Chemical Reviews
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.chemrev.3c00701>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8710>
Date of Publication 2024-04

Author(s) DESHPANDE, KSHITIJ; KULSHRESHTHA, NISHANT NITINIDHI; MULEWAR, SAHIL SUNIL; RAJAMANI, SUDHA
Title Nucleotide-Protocell Interactions: A Reciprocal Relationship in Prebiotically Pertinent Environments
Citation ChemSystemsChem
Publisher Wiley
URI <https://doi.org/10.1002/syst.202300031>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8714>
Date of Publication 2024-02

Author(s) DSILVA, GREG JUDE; GALANDE, SANJEEV
Title From sequence to consequence: Deciphering the complex cisregulatory landscape
Citation Journal of Biosciences, 49(46).
Publisher Indian Academy of Sciences
URI <https://doi.org/10.1007/s12038-024-00431-0>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8709>
Date of Publication 2024-03

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Author(s) PANDEY, SANYUKTA; BAPAT, VIBHA; ABRAHAM, JANCY NIXON; ABRAHAM, NIXON M.
Title Long COVID: From olfactory dysfunctions to viral Parkinsonism
Citation World Journal of Otorhinolaryngology
Publisher Wiley
URI <https://doi.org/10.1002/wjo2.175>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8706>
Date of Publication 2024-04

Author(s) SAWANT, ANUPAM A.; TRIPATHI, SNEHA; GALANDE, SANJEEV; RAJAMANI, SUDHA
Title A Prebiotic Genetic Nucleotide as an Early Darwinian Ancestor for Pre-RNA Evolution
Citation ACS Omega, 9(16), 18072-18082.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acsomega.3c09949>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8715>
Date of Publication 2024-04

Author(s) Suresh, Varun; PRADHAN, SAURABH J.; GALANDE, SANJEEV et al.
Title PRDM16 co-operates with LHX₂ to shape the human brain
Citation Oxford Open Neuroscience, 3, kvae001.
Publisher Oxford University Press
URI <https://doi.org/10.1093/oons/kvae001>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8707>
Date of Publication 2024-04

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CHEMISTRY

Journal Articles

Author(s) KHATIK, SADDAM Y.; ROY, SARUPA; SRIVATSAN, SEERGAZHI G.
Title Synthesis and Enzymatic Incorporation of a Dual-App Nucleotide Probe That Reports Antibiotics-Induced Conformational Change in the Bacterial Ribosomal Decoding Site RNA
Citation ACS Chemical Biology, 19(03), 687-695.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acscchembio.3c00676>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8704>
Date of Publication 2024-03

Author(s) MENDHE, RAHUL MAHADEO; MONDAL, RITWIK; KOTTAICHAMY, ALAGAR RAJA; HARIDAS, AKSHAY; Kotresh, Harish Makri Nimbegondi; Prabhakaran, Vinod; THIMMAPPA, RAVIKUMAR; THOTIYL, MUSTHAFA OTTAKAM
Title Fuel from Waste: Electrosynthesizing Ammonia Directly from Agricultural Digestate through Ligand Isomerization
Citation Green Chemistry.
Publisher Royal Society of Chemistry
URI <https://doi.org/10.1039/D4GC00740A>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8716>
Date of Publication 2024-04

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HUMANITIES AND SOCIAL SCIENCES

Journal Article

Author(s) Nair, Jyoti; THOMAS, BEJOY K.; Bahinipati, Chandra Sekhar
Title Cropping decisions under water stress: Evidence from Cauvery Delta Region, India
Citation World Water Policy
Publisher Wiley
URI <https://doi.org/10.1002/wwp2.12177>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8705>
Date of Publication 2024-04

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MATHEMATICS

Journal Article

Author(s) KUNDU, RIJUBRATA; SINGH, ANUPAM
Title Generating functions for the powers in $GL(n, q)$
Citation Israel Journal of Mathematics, 259, 887-936.
Publisher Springer Nature
URI <https://doi.org/10.1007/s11856-023-2525-5>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8712>
Date of Publication 2024-04

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PHYSICS

Journal Articles

Author(s) ATLAS Collaboration; CMS Collaboration; Aad, G.; ALPANA, A.; DUBE, SOURABH; GOMBER, B.; KANSAL, B.; LAHA, A.; RASTOGI, A.; SHARMA, SEEMA et al.

Title Evidence for the Higgs Boson Decay to a Z Boson and a Photon at the LHC

Citation Physical Review Letters, 132(02)021803.

Publisher American Physical Society

URI <https://doi.org/10.1103/PhysRevLett.132.021803>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8725>

Date of Publication 2024-01

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

Title Muon identification using multivariate techniques in the CMS experiment in proton-proton collisions at $\sqrt{s}=13$ TeV

Citation Journal of Instrumentation, 19, (02), 2024.

Publisher IOP Publishing Ltd

URI <https://doi.org/10.1088/1748-0221/19/02/P02031>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8722>

Date of Publication 2024-02

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

Title Observation of WW γ Production and Search for Hy Production in Proton-Proton Collisions at $\sqrt{s}=13$ TeV

Citation Physical Review Letters, 132(12), 121901.

Publisher American Physical Society

URI <https://doi.org/10.1103/PhysRevLett.132.121901>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8723>

Date of Publication 2024-03

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Author(s) Deshmukh, Akshaya Pisal; Patil, Kalyanee; BARVE, KANCHAN; Bhave, Tejashree
Title Transient N-GQDs/PVA nanocomposite thin film for memristor application
Citation Nanotechnology, 25, 26.
Publisher IOP Publishing
URI <https://doi.org/10.1088/1361-6528/ad364b>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8711>
Date of Publication 2024-06

Author(s) DHAWAN, ABHINAV; BHATTACHARYAY, ARIJIT
Title Itö-distribution from Gibbs measure and a comparison with experiment
Citation Physica A: Statistical Mechanics and its Applications, 637, 129599.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.physa.2024.129599>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8721>
Date of Publication 2024-03

Author(s) JOSHI, JITENDRA; Alimuddin, Mir; MAHESH, T.S.; Banik, Manik
Title Experimental verification of many-body entanglement using thermodynamic quantities
Citation Physical Review A, 109(02), L020403.
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevA.109.L020403>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8726>
Date of Publication 2024-02

Author(s) Pal, Sukanya; Sinha, Arijit; HARNAGEA, LUMINITA; TELANG, PRACHI; Muthu, D. V. S.; Waghmare, U. V.; Sood, A. K.
Title Pressure-dependent excitonic instability and structural phase transition in Ta₂NiS₅: Raman and first-principles study
Citation Physical Review B, 109(15), 155202.
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevB.109.155202>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8713>
Date of Publication 2024-04

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Author(s) PATEL, KUSHAL; Gakkhar, Palki; BISWAS, KORAK; MAURYA, S. SAGAR; DUTTA, PRANAB; LAL, VISHAL; Mani, B. K.; RAPOL, UMAKANT D.

Title Spectroscopy of the $5s5p^3P_0 \rightarrow 5s5d^3D_1$ transition of strontium using laser cooled atoms

Citation Journal of Physics B: Atomic, Molecular and Optical Physics, 57(10).

Publisher IOP Publishing Ltd

URI <https://doi.org/10.1088/1361-6455/ad3bff>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8724>

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