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**Monthly Bulletin of Publications:
Faculty, Scientists and Students of IISER Pune.
OCTOBER 2023**

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BIOLOGY

Journal Articles

Author(s) MADABHUSHI, ABHINAVA JAGAN; BHAT, ANANDA SHIKHARA; Krishnan, Anand
Title Allopatric montane wren-babblers exhibit similar song notes but divergent vocal sequences
Citation Behavioral Ecology and Sociobiology, 77, 109.
Publisher Springer Nature
URI <https://doi.org/10.1007/s00265-023-03385-9>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8249>
Date of Publication 2023-09

Author(s) Mundhe, Dhanashree; MISHRA, RUPA; Basu, Srikanta; Dalal, Sorab; Kumar, Sanjeev; Teni, Tanuja
Title Δ Np63 overexpression promotes oral cancer cell migration through hyperactivated Activin A signaling
Citation Experimental Cell Research, 431(01), 113739.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.yexcr.2023.113739>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8233>
Date of Publication 2023-10

Author(s) PANDIT, KUSHANKUR; Surolia, Namita; Bhattacharjee, Souvik; KARMODIYA, KRISHANPAL
Title The many paths to artemisinin resistance in Plasmodium falciparum
Citation Trends in Parasitology.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.pt.2023.09.011>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8225>
Date of Publication 2023-10

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CHEMISTRY

Journal Articles

Author(s) Dhakar, Shikha; MUKHOPADHYAY, SANCHAYITA; THOTIYL, MUSTHAFA OTTAKAM; Sharma, Sudhanshu

Title Methanol assisted water electrooxidation on noble metal free perovskite: RRDE insight into the catalyst's behaviour

Citation Journal of Colloid and Interface Science, 654, Part A, 688-697.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.jcis.2023.10.072>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8250>

Date of Publication 2024-01 (18)

Author(s) KUMAR, D. R. G. KOPPALU R. PUNEETH; NALAWADE, SACHIN A.; PAHAN, SAIKAT; SINGH, MANJEET; Senapati, Dillip K.; ROY, SOUVIK; DEY, SANJIT; TORASKAR, SANDIP U.; Raghothama, Srinivasarao; GOPI, HOSAHUDYA N.

Title Proteolytically Stable $\alpha\gamma$ -Hybrid Peptides Inhibit the Aggregation and Cytotoxicity of A β ₄₂

Citation ACS Chemical Neuroscience, 14(18), 3398-3408.

Publisher American Chemical Society

URI <https://doi.org/10.1021/acscemneuro.3c00302>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8247>

Date of Publication 2023-10 (5)

Author(s) LET, SUMANTA; DAM, GOURAB K.; FAJAL, SAHEL; GHOSH, SUJIT K.

Title Organic porous heterogeneous composite with antagonistic catalytic sites as a cascade catalyst for continuous flow reaction

Citation Chemical Science, 14(38), 10591-10601.

Publisher Royal Society of Chemistry

URI <https://doi.org/10.1039/D3SC03525E>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8231>

Date of Publication 2023-10 (6)

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Author(s) MISHRA, VISHNU; UDAYA, HOSAHALLI S.; ANAND, V. G.
Title Tetra S-confused porphyrinoids
Citation Organic & Biomolecular Chemistry, 21(38), 7691-7695.
Publisher Royal Society of Chemistry
URI <https://doi.org/10.1039/D3OB01270K>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8230>
Date of Publication 2023-10 (7)

Author(s) SAWASE, LAXMAN R.; KUMAR, T. ANAND; Mathew, Abraham B.; Khodade, Vinayak S.; Toscano, John P.; Saini, Deepak K.; CHAKRAPANI, HARINATH
Title β -Galactosidase-activated nitroxyl (HNO) donors provide insights into redox cross-talk in senescent cells
Citation Chemical Communications, 59(85), 12751-12754.
Publisher Royal Society of Chemistry
URI <https://doi.org/10.1039/D3CC03094F>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8246>
Date of Publication 2023-11 (8)

Author(s) SINGH, MANJEET; NALAWADE, SACHIN A.; KUMAR, DRGKOPPALU. R. PUNEETH; VEERESH, KURUVA; PAHAN, SAIKAT; DEY, SANJIT; GOPI, HOSAHUDYA N.
Title HBTU Mediated Synthesis of α,β -Unsaturated γ -Lactams from E- α,β -Unsaturated γ -Amino Acids
Citation European Journal of Organic Chemistry, 26(37), e202300682.
Publisher Wiley
URI <https://doi.org/10.1002/ejoc.202300682>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8234>
Date of Publication 2023-10 (9)

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HUMANITIES AND SOCIAL SCIENCES

Journal Articles

Author(s) LELE, SHARACHCHANDRA; Del Bene, Daniela; Avci, Duygu; Roa-Avendano, Tatiana; Roy, Brototi; Sahu, Geetanjy; Harris, Maureen; Moore, Deborah

Title Values and knowledges in decision-making on environmentally disruptive infrastructure projects: insights from large dams and mines

Citation Current Opinion in Environmental Sustainability, 64, 101346.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.cosust.2023.101346>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8252>

Date of Publication 2023-10 (26)

Author(s) PAI, VENKETESWARA R.; Sriram, M. S.

Title Use of the concept of derivative in the computation of vyatīpāta in two Kerala texts

Citation Indian Journal of History of Science, 58,157-170.

Publisher Indian National Science Academy

URI <https://doi.org/10.1007/s43539-023-00090-4>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8244>

Date of Publication 2023-10 (10)

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MATHEMATICS

Journal Articles

Author(s) BHAKTA, MOUSOMI; Perera, Kanishka; FIROJ, S. K.
Title A system of equations involving the fractional p-Laplacian and doubly critical nonlinearities
Citation Advanced Nonlinear Studies, 23(01).
Publisher Walter de Gruyter
URI <https://doi.org/10.1515/ans-2023-0103>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8245>
Date of Publication 2023-09 (11)

Author(s) Galby, Esther; Khazaliya, Liana; Inerney, Fionn Mc; Sharma, Roohani; TALE, PRAFULLKUMAR
Title Metric Dimension Parameterized by Feedback Vertex Set and Other Structural Parameters
Citation SIAM Journal on Discrete Mathematics, 37(04).
Publisher Society for Industrial and Applied Mathematics
URI <https://doi.org/10.1137/22M1510911>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8224>
Date of Publication 2023 (12)

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PHYSICS

Journal Articles

- Author(s)** CHAND, RAHUL; EKSHA RANI, CHAUDHARY; PAUL, DIPTABRATA; KUMAR, G. V. PAVAN
- Title** Emergence of Directional Rotation in an Optothermally Activated Colloidal System
- Citation** ACS Photonics.
- Publisher** American Chemical Society
- URI** <https://doi.org/10.1021/acsp Photonics.3c00890>
- DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8226>
- Date of Publication** 2023-10 (13)
-
- Author(s)** CMS Collaboration; Tumasyan, A.; ALPANA, A.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; PANDEY, S.; RASTOGI, A.; SHARMA, SEEMA et al.
- Title** Measurement of the Higgs boson inclusive and differential fiducial production cross sections in the diphoton decay channel with pp collisions at $\sqrt{s} = 13$ TeV
- Citation** Journal of High Energy Physics, 2023(07), 91.
- Publisher** Springer Nature
- URI** [https://doi.org/10.1007/JHEP07\(2023\)091](https://doi.org/10.1007/JHEP07(2023)091)
- DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8228>
- Date of Publication** 2023-07 (14)
-
- Author(s)** CMS Collaboration; Tumasyan, A.; ALPANA, A.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; PANDEY, S.; RASTOGI, A.; SHARMA, SEEMA et al.
- Title** Azimuthal anisotropy of dijet events in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV
- Citation** Journal of High Energy Physics, 2023(07), 139.
- Publisher** Springer Nature
- URI** [https://doi.org/10.1007/JHEP07\(2023\)139](https://doi.org/10.1007/JHEP07(2023)139)
- DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8229>
- Date of Publication** 2023-07 (15)

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Author(s) CMS Collaboration; Tumasyan, A.; ALPANA, A.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; PANDEY, S.; RASTOGI, A.; SHARMA, SEEMA et al.
Title Search for pair production of vector-like quarks in leptonic final states in proton-proton collisions at $\sqrt{s}=13$ TeV
Citation Journal of High Energy Physics, 2023(07),020.
Publisher Springer Nature
URI [https://doi.org/10.1007/JHEP07\(2023\)020](https://doi.org/10.1007/JHEP07(2023)020)
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8254>
Date of Publication 2023-07 (20)

Author(s) DHAR, DEEPAK; Rajesh, R.; KUMAR, AANJANEYA
Title Phase transitions in systems of particles with only hard-core interactions
Citation Europhysics Letters, 143(06).
Publisher IOP Publishing
URI <https://doi.org/10.1209/0295-5075/acf6dc>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8232>
Date of Publication 2023-09 (16)

Author(s) Enoch, Carolin Mercy; Ingavale, Sagar; Marbaniang, Phiralang; PATIL, INDRAJIT; Swami, Anita
Title Molten salt-directed synthesis of strontium manganese perovskite oxide: an active electrocatalyst for the oxygen reduction reaction and oxygen evolution reaction
Citation Journal of Materials Chemistry A, 11(40), 21780-21792.
Publisher Royal Society of Chemistry
URI <https://doi.org/10.1039/D3TA03808D>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8255>
Date of Publication 2023-10 (25)

Author(s) JAKHAR, NAVITA; KEDIA, DINESH KUMAR; KUMAR, ANKIT; SINGH, SURJEET
Title Grain boundary engineering in metavalent SnTe: A simplified approach
Citation Applied Physics Letters, 123(17), 173901.
Publisher AIP Publishing
URI <https://doi.org/10.1063/5.0174274>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8257>
Date of Publication 2023-10

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Author(s) Jog, Harshvardhan; HARNAGEA, LUMINITA; ROUT, DIBYATA; Taniguchi, Takashi; Watanabe, Kenji; Mele, Eugene J.; Agarwal, Ritesh

Title Optically Induced Symmetry Breaking Due to Nonequilibrium Steady State Formation in Charge Density Wave Material 1T-TiSe₂

Citation Nano Letters, 23(20), 9634-9640.

Publisher American Chemical Society

URI <https://doi.org/10.1021/acs.nanolett.3c03736>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8251>

Date of Publication 2023-10 (22)

Author(s) KUMAR, ANKIT; KUMAR, KEDIA, DINESH; GHOSH, PRASENJIT; SINGH, SURJEET

Title Band Engineering and Synergistic Modulation Doping for Excellent Thermoelectric Performance in Composites Ti_{1-x}Nb_xCoSb-Nb_{0.8+δ}CoSb

Citation ACS Applied Energy Materials, 6(20), 10694-10703.

Publisher American Chemical Society

URI <https://doi.org/10.1021/acsaem.3c01888>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8258>

Date of Publication 2023-10

Author(s) NARAYANAN, P. VRINDA; MAJUMDER, SUDIPTA; GOKUL, M. A.; TANEJA, CHETNA; KUMAR, G. V. PAVAN; RAHMAN, ATIKUR

Title Improving the optoelectronic properties of monolayer MoS₂ field effect transistor through dielectric engineering

Citation Nanotechnology, 34(50).

Publisher IOP Publishing

URI <https://doi.org/10.1088/1361-6528/acf9aa>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8253>

Date of Publication 2023-12 (24)

Author(s) PARMAR, SWAT; Panchal, Suresh; Datar, Suwarna; OGALE, SATISHCHANDRA

Title Semiconductor-Semimetal 2D/3D MoS₂/SrRuO₃(111) TMD/TMO Heterojunction-Based ReRAM Devices

Citation ACS Applied Electronic Materials, 5(10), 5588-5597.

Publisher American Chemical Society

URI <https://doi.org/10.1021/acsaelm.3c00907>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8248>

Date of Publication 2023-10 (17)

Author(s) SAHA, MADHUMITA; Kulkarni, Manas; AGARWALLA, BIJAY KUMAR
Title Exceptional hypersurfaces of transfer matrices of finite-range lattice models and their consequences on quantum transport properties
Citation Physical Review B, 108(07), 075406.
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevB.108.075406>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8227>
Date of Publication 2023-08 (18)

Author(s) SAURABH, KUMAR; PANDEY, VINEET KUMAR; KUMAR, ANKIT; GHOSH, PRASENJIT; SINGH, SURJEET
Title Enhanced thermoelectric figure-of-merit in 'defective' half-Heusler Nb_{0.8}CoSb
Citation Materials Today Physics, 38, 101236.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.mtphys.2023.101236>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8256>
Date of Publication 2023-11

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