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

Editor(s)	SOHONI, PUSHKAR; Tschacher, Torsten
Book Title	Non-Shia Practices of Muḥarram in South Asia and the Diaspora: Beyond Mourning
Publisher	Routledge
URI	https://www.routledge.com/Non-Shia-Practices-of-Muarram-in-South-Asia-and-the-Diaspora-Beyond/Sohoni-Tschacher/p/book/9780367819040
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6298
Date of Publication	2021-09

POPULAR ARTICLE

Author(s)	MONTEIRO, JOY MERWIN
Title	Half a million and counting: Covid-19 in Pune
Publisher	The Indian Express
URI	https://indianexpress.com/article/cities/pune/pune-covid-19-cases-7535956/
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6299
Date of Publication	27.09.2021

JOURNAL ARTICLES

BIOLOGY

Author(s)	KONDHARE, KIRTIKUMAR R.; KUMAR, AMIT; PATIL, NIKITA S.; MALANKAR, NILAM N.; SAHA, KISHAN; BANERJEE, ANJAN K.
Title	Development of aerial and belowground tubers in potato is governed by photoperiod and epigenetic mechanism
Citation	Plant Physiology.
Publisher	Oxford University Press
URI	https://doi.org/10.1093/plphys/kiab409
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6269
Date of Publication	2021-09

Author(s) Tan, Kuan Pern; KANITKAR, TEJASHREE RAJARAM; Kwoh, Chee Keong; MADHUSUDHAN, M. S.
Title Packpred: Predicting the Functional Effect of Missense Mutations
Citation Frontiers in Molecular Biosciences, 8.
Publisher Frontiers Media S.A.
URI <https://doi.org/10.3389/fmolb.2021.646288>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6285>
Date of Publication 2021-08

Author(s) KUMAR, YASHWANT; SINGH, REMAN KUMAR; HAZRA, AMRITA B.
Title Characterization of a Novel Mesophilic CTP-Dependent Riboflavin Kinase and Rational Engineering to Create Its Thermostable Homologues
Citation CheBioChem.
Publisher Wiley
URI <https://doi.org/10.1002/cbic.202100211>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6288>
Date of Publication 2021-08

Author(s) PARDASANI, MEENAKSHI; MARATHE, SHRUTI D.; PURNAPATRE, MAITREYEE MANDAR; DALVI, URVASHI; ABRAHAM, NIXON M.
Title Multimodal learning of pheromone locations
Citation FASEB Journal, 35(9).
Publisher Wiley
URI <https://doi.org/10.1096/fj.202100167R>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6266>
Date of Publication 2021-09

Author(s) Raghavan, Rajeev; Britz, Ralf; DAHANUKAR, NEELESH
Title Poor groundwater governance threatens ancient subterranean fishes
Citation Trends in Ecology & Evolution, 36(10), 875-878.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.tree.2021.06.007>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6295>
Date of Publication 2021-10

Author(s) SARKAR, SUSOVAN; DAGAR, SHIKHA; RAJAMANI, SUDHA
Title Cover profile: Influence of Wet-Dry Cycling on the Self-Assembly and Physicochemical Properties of Model Protocellular Membrane Systems
Citation ChemSystemsChem, 3(5), e2100032.
Publisher Wiley
URI <https://doi.org/10.1002/syst.202100032>
Date of Publication 2021-09

CHEMISTRY

Author(s) Baljzovic, Milos; BALLAV, NIRMALYA et al.
Title Self-Assembly and Magnetic Order of Bi-Molecular 2D Spin Lattices of M(II,III) Phthalocyanines on Au(111)
Citation Magnetochemistry, 7(8), 119.
Publisher MDPI
URI <https://doi.org/10.3390/magnetochemistry7080119>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6270>
Date of Publication 2021-08

Author(s) DABHADE, AKASH; CHAUDHURY, SRABANTI
Title Simulation Study of the Conformational Properties of Diblock Polyelectrolytes in Salt Solutions
Citation Chemistry-An Asian Journal.
Publisher Wiley
URI <https://doi.org/10.1002/asia.202100905>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6277>
Date of Publication 2021-08

Author(s) Dutta, Sanjay; Vikas; THANGAVEL, VIJAYAKANTH; Munshi, Parthapratim
Title Ferroelectricity and Uniaxial Negative Thermal Expansion in a Purely Organic Multifunctional Material
Citation ACS Applied Electronic Materials, 3(8), 3633-3640.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acsaelm.1c00544>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6291>
Date of Publication 2021-08

Author(s) JAMDADE, AKASH BANDU; SUTAR, DASHRAT VISHAMBAR; BISHT, GIRISH SINGH; GNANAPRAKASAM, BOOPATHY
Title Ru-MACHO-Catalyzed Direct Inter/Intramolecular Macrocyclization of Alcohols and Ketones
Citation Organic Letters.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.orglett.1c02569>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6283>
Date of Publication 2021-09

Author(s) KUMAR, YASHWANT; SINGH, REMAN KUMAR; HAZRA, AMRITA B.
Title Characterization of a Novel Mesophilic CTP-Dependent Riboflavin Kinase and Rational Engineering to Create Its Thermostable Homologues
Citation CheBioChem.
Publisher Wiley
URI <https://doi.org/10.1002/cbic.202100211>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6288>
Date of Publication 2021-08

Author(s) Ravi, Ramya; Kumaraswamy, Anand; CHAUHAN, PREETI; Rajesh, Bharathidevi Subramaniam
Title Exogenous administration of hydrogen sulfide alleviates homocysteine induced inflammation in ARPE-19 cells
Citation Experimental Eye Research, 212, 108759.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.exer.2021.108759>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6294>
Date of Publication 2021-11

Author(s) SHAIKH, MOSEEN A.; UBALE, AKASH S.; GNANAPRAKASAM, BOOPATHY
Title Indium Catalyzed Sequential Regioselective Remote C-H Indolylolation and Rearrangement Reaction of Peroxyoxindole
Citation Advanced Synthesis & Catalysis.
Publisher Wiley
URI <https://doi.org/10.1002/adsc.202100793>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6282>
Date of Publication 2021-08

MATHEMATICS

Author(s) AGRAWAL, GARIMA; MAITY, SOUMEN
Title The Small Set Vertex Expansion Problem
Citation Theoretical Computer Science, 886, 84-93.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.tcs.2021.07.017>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6284>
Date of Publication 2021-09

Author(s) MISHRA, MANISH; PATTANAYAK, BASUDEV
Title Principal series component of Gelfand-Graev representation
Citation Proceedings of the American Mathematical Society, 149(11), 4955-4962.
Publisher American Mathematical Society
URI <https://doi.org/10.1090/proc/15642>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6302>
Date of Publication 2021-11

PHYSICS

Author(s) Bowens, R.; SHINDE, M. et al.
Title Exoplanets with ELT-METIS I. Estimating the direct imaging exoplanet yield around stars within 6.5 parsecs
Citation Astronomy & Astrophysics, 653, A8.
Publisher EDP Sciences
URI <https://doi.org/10.1051/0004-6361/202141109>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6272>
Date of Publication 2021-08

Author(s) CHOWDHURY, TAMAGHNA; PAUL, DIPTABRATA; NECHIYIL, DIVYA; GOKUL, M. A.; Watanabe, Kenji; Taniguchi, Takashi; KUMAR, G. V. PAVAN; RAHMAN, ATIKUR
Title Modulation of trion and exciton formation in monolayer WS₂ by dielectric and substrate engineering
Citation 2D Materials, 8(4).
Publisher IOP Publishing
URI <https://doi.org/10.1088/2053-1583/ac234f>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6303>
Date of Publication 2021-10

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

Title Search for lepton-flavor violating decays of the Higgs boson in the $\mu\tau$ and $e\tau$ final states in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$

Citation Physical Review D, 104(3).

Publisher American Physical Society

URI <https://doi.org/10.1103/PhysRevD.104.032013>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6281>

Date of Publication 2021-08

Author(s) CMS Collaboration; Sirunyan, A. M.; DUBE, SOURABH; KANSAL, B.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.

Title Constraints on the Initial State of Pb-Pb Collisions via Measurements of Z -Boson Yields and Azimuthal Anisotropy at $\sqrt{s_{NN}} = 5.02\text{ TeV}$

Citation Physical Review Letters, 127(10).

Publisher Physical Review Letters

URI <https://doi.org/10.1103/PhysRevLett.127.102002>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6289>

Date of Publication 2021-09

Author(s) CMS Collaboration; Sirunyan, A. M.; DUBE, SOURABH; KANSAL, B.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.

Title Hard color-singlet exchange in dijet events in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$

Citation Physical Review D, 104(3).

Publisher American Physical Society

URI <https://doi.org/10.1103/PhysRevD.104.032009>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6267>

Date of Publication 2021-08

Author(s) CMS Collaboration; Sirunyan, A. M.; DUBE, SOURABH; KANSAL, B.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.

Title Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$ in 2015 and 2016 at CMS

Citation European Physical Journal C, 81, 800.

Publisher Springer Nature

URI <https://doi.org/10.1140/epjc/s10052-021-09538-2>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6293>

Date of Publication 2021-09

Author(s) CMS Collaboration; Sirunyan, A. M.; DUBE, SOURABH; KANSAL, B.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.
Title Search for a heavy vector resonance decaying to a Z boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13\text{TeV}$
Citation European Physical Journal C, 81(8), 688.
Publisher Springer Nature
URI <https://doi.org/10.1140/epjc/s10052-021-09348-6>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6286>
Date of Publication 2021-08

Author(s) GHOSH, DIPTIMOY
Title LHCb finds evidence for the violation of lepton universality in B meson decays
Citation Current Science, 121(5), 610-611.
Publisher Indian Academy of Sciences
URI <https://www.currentscience.ac.in/Volumes/121/05/0610.pdf>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6278>
Date of Publication 2021-09

Author(s) JAIN, SACHIN; JOHN, RENJAN RAJAN; MEHTA, ABHISHEK; Nizami, Amin A.; SURESH, ADITHYA
Title Higher spin 3-point functions in 3d CFT using spinor-helicity variables
Citation Journal of High Energy Physics, 2021(9).
Publisher Springer Nature
URI [https://doi.org/10.1007/JHEP09\(2021\)041](https://doi.org/10.1007/JHEP09(2021)041)
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6280>
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Author(s) Khedkar, Chaitali, V.; Daware, Krishna D.; BADGUJAR, PRASHANT S.; Kolekar, Yesh D.; Gosavi, Suresh W.; Patil, Shankar I.
Title Ag-SiO₂ nanocomposite for the optical detection of Hg(II) ions and catalytic reduction of methylene blue
Citation Optical Materials, 120, 111426.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.optmat.2021.111426>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6268>
Date of Publication 2021-10

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Author(s) THALAPILLIL, ARUN M.
Title Wobbling muons deepen fundamental mystery
Citation Current Science, 121(5), 611-612.
Publisher Indian Academy of Sciences
URI <https://www.currentscience.ac.in/Volumes/121/05/0611.pdf>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6279>
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