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Monthly Bulletin of Publications:
Faculty, Scientists and Students of IISER Pune.
October 2021

CONTENTS

Subject	Page No.
Biology	2
Chemistry	5
Earth and Climate Science	7
Mathematics	7
Physics	8

BIOLOGY

- Author(s)** Bhate, Suhas H.; UDGAONKAR, JAYANT B.; Das, Ranabir
Title Destabilization of polar interactions in the prion protein triggers misfolding and oligomerization
Citation Protein Science, 30(11), 2258-2271.
Publisher Wiley
URI <https://doi.org/10.1002/pro.4188>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6317>
Date of Publication 2021-09
- Author(s)** BHATTACHARJEE, RUPAM; UDGAONKAR, JAYANT B.
Title Structural Characterization of the Cooperativity of Unfolding of a Heterodimeric Protein using Hydrogen Exchange-Mass Spectrometry
Citation Journal of Molecular Biology, 433(23), 167268.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.jmb.2021.167268>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6364>
Date of Publication 2021-11
- Author(s)** Kim, Yunbok; Kwon, Sojeong; RAJAN, RAGHAV; Mori, Chihiro; Kojima, Satoshi
Title Intrinsic motivation for singing in songbirds is enhanced by temporary singing suppression and regulated by dopamine
Citation Scientific Reports, 11, 20350.
Publisher Springer Nature
URI <https://doi.org/10.1038/s41598-021-99456-w>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6355>
Date of Publication 2021-10
- Author(s)** MEHENDALE, NEELAY; Mallik, Roop; KAMAT, SIDDHESH S.
Title Mapping Sphingolipid Metabolism Pathways during Phagosomal Maturation
Citation ACS Chemical Biology.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acscchembio.1c00393>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6327>
Date of Publication 2021-10

Author(s) NAYAK, PRAJNA; KEJRIWAL, AARTI; RATNAPARKHI, GIRISH S.
Title SUMOylation of Arginyl tRNA Synthetase Modulates the Drosophila Innate Immune Response
Citation Frontiers in Cell and Developmental Biology.
Publisher Frontiers Media S.A.
URI <https://doi.org/10.3389/fcell.2021.695630>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6341>
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Author(s) Pandit, Prachi; GALANDE, SANJEEV; Iris, François
Title Maternal malnutrition and anaemia in India: dysregulations leading to the ‘thin-fat’ phenotype in newborns
Citation Journal of Nutritional Science, 10, e91.
Publisher Cambridge University Press
URI <https://doi.org/10.1017/jns.2021.83>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6320>
Date of Publication 2021-10

Author(s) PATEL, VISHWA; MATANGE, NISHAD
Title Adaptation and compensation in a bacterial gene regulatory network evolving under antibiotic selection
Citation eLife, 10, e70931.
Publisher eLife Sciences Publications Ltd.
URI <https://doi.org/10.7554/eLife.70931>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6325>
Date of Publication 2021-09

Author(s) PRADHAN, SAURABH J.; REDDY, PULI CHANDRAMOULI; SHARMA, ANKITA; SHAH, RINI; PAL, MRINMOY; DESHPANDE, OJAS; DSILVA, GREG; GALANDE, SANJEEV et al.
Title Satb2 acts as a gatekeeper for major developmental transitions during early vertebrate embryogenesis
Citation Nature Communications, 12, 6094.
Publisher Springer Nature
URI <https://doi.org/10.1038/s41467-021-26234-7>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6338>
Date of Publication 2021-10

[Go to top](#)

Author(s) SEN, SREEMANTEE; KUMAR, HARISH; UDGAONKAR, JAYANT B.
Title Microsecond Dynamics During the Binding-induced Folding of an Intrinsically Disordered Protein
Citation Journal of Molecular Biology, 433(22), 167254.
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URI <https://doi.org/10.1016/j.jmb.2021.167254>
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Date of Publication 2021-11

Author(s) Sheth, Sayali D.; Ghate, Hemant V.; DAHANUKAR, NEELESH; Hajek, Jiri
Title Integrative taxonomic review of the genus *Peschetius* (Coleoptera, Dytiscidae, Hydroporinae) from India with description of two new species
Citation Arthropod Systematics & Phylogeny, 79, 535-553.
Publisher Senckenberg
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DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6356>
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Author(s) SHETTY, ANKITHA; Bhosale, Santosh D.; Tripathi, Subhash Kumar; Buchacher, Tanja; Biradar, Rahul; Rasool, Omid; Moulder, Robert; GALANDE, SANJEEV; Lahesmaa, Riitta
Title Interactome Networks of FOSL1 and FOSL2 in Human Th17 Cells
Citation ACS Omega, 6 (38), 24834-24847.
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URI <https://doi.org/10.1021/acsomega.1c03681>
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Date of Publication 2021-09

Author(s) Sunny, Lisni P.; SRIKANTH, PRIYA; Sunitha, Kunhiraman Anju; TEMBULKAR, NIYOTI; Abraham, Jancy Nixon
Title Tryptophan-cardanol fluorescent nanoparticles inhibit I^{\pm} -synuclein aggregation and disrupt amyloid fibrils
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DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6340>
Date of Publication 2021-10

[Go to top](#)

Author(s) UNNI, MANU; REDDY, PULI CHANDRAMOULI; PAL, MRINMOY; Sagi, Irit; GALANDE, SANJEEV
Title Identification of Components of the Hippo Pathway in Hydra and Potential Role of YAP in Cell Division and Differentiation
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Date of Publication 2021-10

CHEMISTRY

Author(s) AHMAD, MANZOOR; CHATTOPADHAYAY, SANDIP; MONDAL, DEBASHIS; Vijayakanth, Thangavel; TALUKDAR, PINAKI
Title Stimuli-Responsive Anion Transport through Acylhydrazone-Based Synthetic Anionophores
Citation Organic Letters, 23(19), 7319-7324.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.orglett.1c02249>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6346>
Date of Publication 2021-09

Author(s) GHOSH, MOUSHAKHI; Tothadi, Srinu; KHAN, SHABANA
Title Carbazole Substituted Amidinato Silylene: Synthesis, Bonding, and Coordination Behavior with Coinage Metals
Citation Organometallics, 40(18), 3201-3210.
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Author(s) GUPTA, KRITI; NINAWA, PRANAY; Jain, Anil; Dadwal, Arun; Anas, M.; Malik, V. K.; Yusuf, S. M.; Joy, Pattayil A.; BALLAV, NIRMALYA
Title Possible electron doping of geometrically perfect spin-1/2 kagome-lattice barlowite by reduced graphene oxide
Citation Physical Review B, 104(10).
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Date of Publication 2021-09

[Go to top](#)

Author(s) KURIAKOSE, NISHAMOL; MONDAL, UNMESH; GHOSH, PRASENJIT
Title CH₄ activation and C-C coupling on the Ti₂C(100) surface in the presence of intrinsic C-vacancies: is excess good?
Citation Journal of Materials Chemistry A, 9(41), 23703-23713.
Publisher Royal Society of Chemistry
URI <https://doi.org/10.1039/D1TA00626F>
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Date of Publication 2021-11

Author(s) MUKHERJEE, UTTAMA; VENKATNATHAN, ARUN
Title Invoking chemical principles to predict the anions of dihydrooxazole family as prospective carbon capture moieties
Citation Computational and Theoretical Chemistry, 1206, 113472
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.comptc.2021.113472>
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Date of Publication 2021-12

Author(s) ROY, DEBASHREE; RAJENDRA, RANGUWAR; Gangadharan, Pranav K.; Pandikassala, Ajmal; Kurungot, Sreekumar; BALLAV, NIRMALYA
Title Seed-Mediated Growth of Pt on High-Index Faceted Au Nanocrystals: The Ag Lining and Implications for Electrocatalysis
Citation ACS Applied Nano Materials, 4(9), 9155-9166.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acsnm.1c01714>
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Author(s) SUBRAMANI, BALAMURUGAN; CHAUDHARY, PREETI MADHUKAR; KIKKERI, RAGHAVENDRA
Title A Cell-Culture Technique to Encode Glyco-Nanoparticles Selectivity
Citation Chemistry-An Asian Journal.
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DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6343>
Date of Publication 2021-10

[Go to top](#)

Author(s) THIMMAPPA, RAVIKUMAR; GAUTAM, MANU; BHAT, ZAHID M.; THODIKA, ABDUL RAAFIK ARATTU; DEVENDRACHARI, MRUTHUNJAYACHARI C.; MUKHOPADHYAY, SANCHAYITA; DARGILY, NEETHU CHRISTUDAS; THOTIYL, MUSTHAFA OTTAKAM

Title An atmospheric water electrolyzer for decentralized green hydrogen production

Citation Cell Reports Physical Science.

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Date of Publication 2021-10

EARTH AND CLIMATE SCIENCE

Author(s) Srujan, K. S. S. Sai; Sandeep, S.; ETTAMMAL, SUHAS

Title Downstream and In Situ Genesis of Monsoon Low-Pressure Systems in Climate Models

Citation Earth and Space Science, 8(9), e2021EA001741.

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MATHEMATICS

Author(s) BHAKTA, MOUSOMI; CHAKRABORTY, SOUPTIK; Miyagaki, Olimpio H.; Pucci, Patrizia

Title Fractional elliptic systems with critical nonlinearities

Citation Nonlinearity, 34(11).

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URI <https://doi.org/10.1088/1361-6544/ac24e5>

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Title Multiplicity and uniqueness for Lane-Emden equations and systems with Hardy potential and measure data

Citation Journal of Differential Equations, 304, 29-72.

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DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6329>

Date of Publication 2021-12

[Go to top](#)

Author(s) BHIMANI, DIVYANG G.; Manna, Ramesh; Nicola, Fabio; Thangavelu, Sundaram; Trapass, S. Ivan
Title Phase space analysis of the Hermite semigroup and applications to nonlinear global well-posedness
Citation Advances in Mathematics, 392, 107995.
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Date of Publication 2021-12

Author(s) Biswas, Indranil; Dey, Arijit; Genc, Ozhan; PODDAR, MAINAK
Title On stability of tangent bundle of toric varieties
Citation Proceedings - Mathematical Sciences, 131, 36.
Publisher Indian Academy of Sciences/Springer
URI <https://doi.org/10.1007/s12044-021-00623-w>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6362>
Date of Publication 2021-10

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Title Risk-sensitive zero-sum stochastic differential game for jump-diffusions
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Date of Publication 2021-11

PHYSICS

Author(s) Anupama, G. C.; Chattopadhyay, Subhasis; Deshpande, Shishir; Ghosh, Joydeep; Godbole, Rohini M.; Indumathi, D.; SOURADEEP, TARUN
Title Big science in India
Citation Nature Reviews Physics, 3, 728-731.
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URI <https://doi.org/10.1038/s42254-021-00384-5>
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Date of Publication 2021-10

[Go to top](#)

Author(s) Bar, Tapas; GHOSH, ARUP; Banerjee, Anurag
Title Suppression of spinodal instability by disorder in an athermal system
Citation Physical Review B, 104(14).
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URI <https://doi.org/10.1103/PhysRevB.104.144102>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6331>
Date of Publication 2021-10

Author(s) Cherumukkil, Sandeep; Das, Gourab; TRIPATHI, RAVI P. N.; KUMAR, G. V. PAVAN; Varughese, Sunil; Ajayaghosh, Ayyappanpillai
Title π -Extended Bodipy Self-Assembly as Supramolecular Photonic Security Ink and Optical Waveguide
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URI <https://doi.org/10.1002/adfm.202109041>
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Author(s) CMS Collaboration; Sirunyan, A. M.; DUBE, SOURABH; KANSAL, B.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.
Title Search for top squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV
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Author(s) CMS Collaboration; Sirunyan, A. M.; DUBE, SOURABH; KANSAL, B.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.
Title Measurements of angular distance and momentum ratio distributions in three-jet and Z + two-jet final states in pp collisions
Citation European Physical Journal C, 81(9), 852.
Publisher Springer Nature
URI <https://doi.org/10.1140/epjc/s10052-021-09570-2>
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Date of Publication 2021-09

[Go to top](#)

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Title Search for chargino-neutralino production in events with Higgs and W bosons using 137 fb^{-1} of proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$

Citation Journal of High Energy Physics, 2021(10), 45.

Publisher Springer Nature

URI [https://doi.org/10.1007/JHEP10\(2021\)045](https://doi.org/10.1007/JHEP10(2021)045)

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Title Constraints on anomalous Higgs boson couplings to vector bosons and fermions in its production and decay using the four-lepton final state

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Title Observation of Forward Neutron Multiplicity Dependence of Dimuon Acoplanarity in Ultraperipheral Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02 \text{ TeV}$

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Date of Publication 2021-09

[Go to top](#)

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Date of Publication 2021-10

Author(s) Dwivedi, Aditya; Dwivedi, Siddharth; Mandal, Bhabani Prasad; Ramadevi, Pichai; SINGH, VIVEK KUMAR
Title Topological entanglement and hyperbolic volume
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URI [https://doi.org/10.1007/JHEP10\(2021\)172](https://doi.org/10.1007/JHEP10(2021)172)
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Date of Publication 2021-10

Author(s) Guchait, Monoranjan; Roy, Arnab; SHARMA, SEEMA
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Date of Publication 2021-09

Author(s) Kolekar, Sadhu; DHARMADHIKARI, CHANDRAKANT V.
Title Random telegraphic noise and $1/f$ noise from CNT emitters in Tuning fork-based scanning tunneling microscopy
Citation Physica Scripta, 96(12).
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DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6359>
Date of Publication 2021-12

[Go to top](#)

Author(s) KURIAKOSE, NISHAMOL; MONDAL, UNMESH; GHOSH, PRASENJIT
Title CH₄ activation and C-C coupling on the Ti₂C(100) surface in the presence of intrinsic C-vacancies: is excess good?
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Date of Publication 2021-11

Author(s) LIGO Scientific Collaboration; Virgo Collaboration; KAGRA Collaboration; Abbott, R.; RAPOL, UMAKANT D.; SOURADEEP, TARUN et al.
Title All-sky search for continuous gravitational waves from isolated neutron stars in the early O3 LIGO data
Citation Physical Review D, 104(8), 082004.
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Date of Publication 2021-10

Author(s) MANIAR, ROHAN; BHATTACHARYAY, ARIJIT
Title Random walk model for coordinate-dependent diffusion in a force field
Citation Physica A: Statistical Mechanics and its Applications, 584, 126348.
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Date of Publication 2021-12

Author(s) NAIK, SAISMIT; Naik, Mit H.; Maity, Indrajit; Jain, Manish
Title Twister: Construction and structural relaxation of commensurate moiré superlattices
Citation Computer Physics Communications, 271, 108184.
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Date of Publication 2022-02

[Go to top](#)

Author(s) SINGH, MOHIT KUMAR; DATTA, SHOUVIK
Title Dual measurements of temporal and spatial coherence of light in a single experimental setup using a modified Michelson interferometer
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DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6336>
Date of Publication 2021-10

Author(s) Singhal, Akshat; KULKARNI, SUMEET et al.
Title Deep co-added sky from Catalina Sky Survey images
Citation Monthly Notices of the Royal Astronomical Society, 507(4), 4983-4996.
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URI <https://doi.org/10.1093/mnras/stab2246>
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Date of Publication 2021-11

Author(s) TANEJA, CHETNA; PAUL, DIPTABRATA; KUMAR, G. V. PAVAN
Title Experimental observation of transverse spin of plasmon polaritons in a single crystalline silver nanowire
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Author(s) TIWARI, SUNNY; Vasista, Adarsh B.; PAUL, DIPTABRATA; KUMAR, G. V. PAVAN
Title Mirror enhanced directional out-coupling of SERS by remote excitation of a nanowire-nanoparticle cavity
Citation Journal of Optics.
Publisher IOP Publishing
URI <https://doi.org/10.1088/2040-8986/ac2dd8>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6326>
Date of Publication 2021-10

[Go to top](#)
