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

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BIOLOGY

Journal Articles

Author(s) AREEKAL, SANDRA ARAVIND; GOEL, PRANAY; Khadilkar, Anuradha; Khadilkar, Vaman; Cole, Tim J.

Title Assessment of height growth in Indian children using growth centiles and growth curves

Citation Annals of Human Biology, 49(5-6), 228-235.

Publisher Taylor & Francis

URI <https://doi.org/10.1080/03014460.2022.2107238>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7563>

Date of Publication 2022-12

Author(s) BALAJI, A. K.; SAHA, SANTAM; Deshpande, Shruti; POOLA, DARSHINI; SENGUPTA, KUNDAN

Title Nuclear envelope, chromatin organizers, histones, and DNA: The many achilles heels exploited across cancers

Citation Frontiers in Cell and Developmental Biology, 10.

Publisher Frontiers Media S.A.

URI <https://doi.org/10.3389/fcell.2022.1068347>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7564>

Date of Publication 2022-12

Author(s) Dev, Gagan; Chawla, Amanpreet Singh; Gupta, Suman; BAL, VINEETA; George, Anna; RATH, SATYAJIT; Arimbasseri, G. Aneeshkumar

Title Differential Regulation of Two Arms of mTORC1 Pathway Fine-Tunes Global Protein Synthesis in Resting B Lymphocytes

Citation International Journal of Molecular Sciences, 23(24).

Publisher MDPI

URI <https://doi.org/10.3390/ijms232416017>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7557>

Date of Publication 2022-12

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Author(s) PAL, SUMAN; UDGAONKAR, JAYANT B
Title Evolutionarily Conserved Proline Residues Impede the Misfolding of the Mouse Prion Protein by Destabilizing an Aggregation-competent Partially Unfolded Form
Citation Journal of Molecular Biology, 434(23), 167854.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.jmb.2022.167854>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7566>
Date of Publication 2022-12

Author(s) Petridi, Stavroula; DUBAL, DNYANESH; RIKHY, RICHA; Ameele, Jelle van den
Title Mitochondrial respiration and dynamics of in vivo neural stem cells
Citation Development, 149 (23).
Publisher The Company of Biologists
URI <https://doi.org/10.1242/dev.200870>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7484>
Date of Publication 2022-11

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CHEMISTRY

Journal Articles

Author(s) CHAKRABORTY, RAYAN; RAJPUT, PARIKSHIT KUMAR; ANILKUMAR, GOKUL M.; MAQBOOL, SHABNUM; Das, Ranjan; RAHMAN, ATIKUR; MANDAL, PANKAJ; NAG, ANGSHUMAN

Title Rational Design of Non-Centrosymmetric Hybrid Halide Perovskites

Citation Journal of the American Chemical Society, 145(2), 1378-1388.

Publisher American Chemical Society

URI <https://doi.org/10.1021/jacs.2c12034>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7579>

Date of Publication 2023-01

Author(s) CHAKRABORTY, SAPTASHWA; MISHRA, BIJOYANANDA; DAS, PRATIM KUMAR; PASARI, SANDIP; HOTH, SRINIVAS

Title Synthesis of N-Glycosides by Silver-Assisted Gold Catalysis

Citation Angewandte Chemie International Edition, 62(6), e202214167.

Publisher Wiley

URI <https://doi.org/10.1002/anie.202214167>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7567>

Date of Publication 2023-02

Author(s) CHANDRA, ANKITA; BHOGE, PREETI RAVINDRA; REMYA, K. R.; SHANTHAMURTHY, CHETHAN D. D.; KIKKERI, RAGHAVENDRA

Title Fluorescent glyco-gold nanocluster induced EGFR mediated targeting of cancer cells

Citation Chemical Communications, 59(9), 1213-1216.

Publisher Royal Society of Chemistry

URI <https://doi.org/10.1039/D2CC06227E>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7580>

Date of Publication 2023-01

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Author(s) Devendrachari, Mruthyunjayachari Chattanahalli; Shimoga, Ganesh; Lee, Seok-Han; Heo, Yong Hae; Kotresh, Harish Makri Nimbegondi; THOTIYL, MUSTHAFA OTTAKAM; Kim, Sang-Youn; Choi, Dong-Soo

Title Anthraquinone-2-sulfonic acid-loaded polyaniline nanostructures: Construction of symmetric supercapacitor electrodes thereof

Citation Journal of Energy Storage, 56 Part B, 106033.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.est.2022.106033>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7561>

Date of Publication 2022-12

Author(s) MONDAL, SHANKHAJIT; PANDEY, AKANKSHA M.; GNANAPRAKASAM, BOOPATHY

Title Continuous-flow Fe-zeolite-catalyzed temperature-directed synthesis of bioactive tetraketones and xanthenes using epoxides and cyclic-1,3-diketones via a Meinwald rearrangement

Citation Reaction Chemistry & Engineering.

Publisher Royal Society of Chemistry

URI <https://doi.org/10.1039/D2RE00452F>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7577>

Date of Publication 2023

Author(s) MONDAL, ABHISHEK; Barik, Ganesh Kumar; Sarkar, Susmita; MONDAL, DEBASHIS; AHMAD, MANZOOR; Vijayakanth, Thangavel; Mondal, Jagannath; Santra, Manas Kumar; TALUKDAR, PINAKI

Title Nontoxic Artificial Chloride Channel Formation in Epithelial Cells by Isophthalic Acid-Based Small Molecules

Citation Chemistry - A European Journal.

Publisher Wiley

URI <https://doi.org/10.1002/chem.202202887>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7585>

Date of Publication 2022-11

Author(s) PUNEETH KUMAR, DRGKOPPALU R.; REJA, RAHI M.; GOPI, HOSAHUDYA N. N.; SINGH, MANJEET; NALAWADE, SACHIN A.; GOPI, HOSAHUDYA N. et al.

Title A cationic amphiphilic peptide chaperone rescues AB₄₂ aggregation and cytotoxicity

Citation RSC Medicinal Chemistry

Publisher Royal Society of Chemistry

URI <https://doi.org/10.1039/D2MD00414C>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7582>

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Author(s) RASE, DEEPAK; ILLATHVALAPPIL, RAJITH; SINGH, HIMAN DEV; SHEKHAR, PRAGALBH; LEO, LIYA S.; CHAKRABORTY, DEBANJAN; HALDAR, SATTWICK; Shelke, Ankita; Ajithkumar, Thalasseril G.; VAIDHYANATHAN, RAMANATHAN

Title Hydroxide ion-conducting viologen-bakelite organic frameworks for flexible solid-state zinc-air battery applications

Citation Nanoscale Horizons, 8(2), 224-234.

Publisher Royal Society of Chemistry

URI <https://doi.org/10.1039/D2NH00455K>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7555>

Date of Publication 2023-02

Author(s) Singh, Divya; PUNIA, BHAWAKSHI; CHAUDHURY, SRABANTI

Title Theoretical Tools to Quantify Stochastic Fluctuations in Single-Molecule Catalysis by Enzymes and Nanoparticles

Citation ACS Omega, 7(51), 47587-47600.

Publisher American Chemical Society

URI <https://doi.org/10.1021/acsomega.2c06316>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7559>

Date of Publication 2022-12

Author(s) VIJAYAKANTH, THANGAVEL; SAHOO, SUPRIYA; Kothavade, Premkumar; Sharma, Vijay Bhan; Kabra, Dinesh; Zareba, Jan K. K.; Shanmuganathan, Kadiravan; BOOMISHANKAR, RAMAMOORTHY

Title A Ferroelectric Aminophosphonium Cyanoferrate with a Large Electrostrictive Coefficient as a Piezoelectric Nanogenerator

Citation Angewandte Chemie International Edition, 62(3), e202214984.

Publisher Wiley

URI <https://doi.org/10.1002/anie.202214984>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7558>

Date of Publication 2023-01

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HUMANITIES AND SOCIAL SCIENCES

Book Review

Author(s)	SANCHETI, POOJA
Title	Insurgency: The Art and the Freedom Struggle in India and the Artist by Vinay Lal (Roli Books, 2022).
Citation	The Beacon
Publisher	Tidewater Learning Foundation
URI	https://www.thebeacon.in/2023/01/29/insurgency-art-and-the-artist-in-indian-freedom-struggle-pooja-sancheti-reviews/
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7572
Date of Publication	2023-01

Journal Articles

Author(s)	SANCHETI, POOJA
Title	Recovering May Price: A Longitudinal Reading of Amitav Ghosh's The Shadow Lines
Citation	ariel: A Review of International English Literature, 54(1), 103-129.
Publisher	Johns Hopkins University Press
URI	https://muse.jhu.edu/pub/1/article/874673
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7574
Date of Publication	2023-01

Author(s)	SANCHETI, POOJA
Title	Women, Violence, and Magical Realism in the fiction of Mohammed Hanif
Citation	Canadian Review of Comparative Literature, 49, (1-2), 136-154.
Publisher	University of Alberta Library
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7584
Date of Publication	2023-01

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Popular Articles

Author(s) SANCHETI, POOJA
Title Paradoxical Man: translation of Mridula Garg's short story "Tukda-tukda Aadmi" from Hindi into English
Citation The Beacon
Publisher Tidewater Learning Foundation
URI <https://www.thebeacon.in/2022/11/26/paradoxical-man-tukda-tukda-aadmi-mridula-garg-translated-from-hindi-by-pooja-sancheti/?fbclid=IwAR11cY9nh31umelrSY7ZDuByRZRpFu92J2Sz3mzh6psh1KIAZD>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7583>
Date of Publication 2022-11

Author(s) SANCHETI, POOJA
Title Reading Manjula Padmanabhan's Harvest in 2022
Citation The Beacon.
Publisher Tidewater Learning Foundation
URI <https://www.thebeacon.in/2022/10/22/pooja-sancheti-reading-manjula-padmanabhans-harvest-in-2022/>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7573>
Date of Publication 2022-10

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MATHEMATICS

Journal Articles

Author(s)	ARVIND, NAMRATA; PANJA, SAIKAT
Title	Hopf-Galois realizability of Z_n (sic) $Z(2)$
Citation	Journal of Pure and Applied Algebra, 227(4), 107261.
Publisher	Elsevier B.V.
URI	https://doi.org/10.1016/j.jpaa.2022.107261
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7562
Date of Publication	2023-04
Author(s)	GUPTA, PARUL; KAUR, YASHPREET; SINGH, ANUPAM
Title	Splitting fields of differential symbol algebras
Citation	Journal of Pure and Applied Algebra, 227(5), 107280.
Publisher	Elsevier B.V.
URI	https://doi.org/10.1016/j.jpaa.2022.107280
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7556
Date of Publication	2023-05
Author(s)	KALANE, SAGAR B.; Parker, John R.
Title	Free groups generated by two parabolic maps
Citation	Mathematische Zeitschrift, 303(1), 9.
Publisher	Springer Nature
URI	https://doi.org/10.1007/s00209-022-03160-y
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7560
Date of Publication	2023-01

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PHYSICS

Journal Articles

Author(s) BHATTACHARJEE, DEBESH; SUBRAMANIAN, PRASAD; Vourlidas, Angelos; Nieves-Chinchilla, Teresa; Thejaswi, Niranjana; Sachdeva, Nishtha
Title Characterizing the specific energy and pressure in near-Earth magnetic clouds
Citation Astronomy & Astrophysics, 669.
Publisher EDP Sciences
URI <https://doi.org/10.1051/0004-6361/202243603>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7581>
Date of Publication 2023-01

Author(s) CHAKRABORTY, RAYAN; RAJPUT, PARIKSHIT KUMAR; ANILKUMAR, GOKUL M.; MAQBOOL, SHABNUM; Das, Ranjan; RAHMAN, ATIKUR; MANDAL, PANKAJ; NAG, ANGSHUMAN
Title Rational Design of Non-Centrosymmetric Hybrid Halide Perovskites
Citation Journal of the American Chemical Society, 145(2), 1378-1388.
Publisher American Chemical Society
URI <https://doi.org/10.1021/jacs.2c12034>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7579>
Date of Publication 2023-01

Author(s) NARAYANAN, P. VRINDA; ANILKUMAR, GOKUL M.; RAJPUT, MANISHA; RAHMAN, ATIKUR
Title Role of Defects in the Transport Properties and Photoresponse of a Silicon- MoS₂ Mixed-Dimensional Van der Waals Heterostructure
Citation ACS Applied Electronic Materials, 4(12), 6038-6046.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acsaelm.2c01190>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7568>
Date of Publication 2022-12

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Author(s) Vatsa, V.; Raza, V.; Mazumdar, A.; Pose, M. S.; Mallikarjunachary, S.; Nanel, V.; Pillay, R. G.; RAMAKRISHNAN, S.; Shrivastava, A.

Title An analytical model for electronic noise in a cryogenic bolometer detector readout circuit

Citation Journal of Instrumentation, 17.

Publisher IOP Publishing

URI <https://doi.org/10.1088/1748-0221/17/11/T11013>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/7578>

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