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

JULY 2024

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BIOLOGY

Journal Articles

Author(s)	CHANDRAMOULI, AAKASH; KAMAT, SIDDHESH S.
Title	A Facile LC-MS Method for Profiling Cholesterol and Cholesteryl Esters in Mammalian Cells and Tissues
Citation	Biochemistry
Publisher	American Chemical Society
URI	https://doi.org/10.1021/acs.biochem.4c00160
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9013
Date of Publication	2024-07
 Author(s)	 DAS, SOURADEEP; PATKI, GAURI M.; SRIDHAR, VANTHANAA; MULEWAR, SAHIL SUNIL; ROY, RAYA; BANDYOPADHYAY, UDITA; KULSHRESHTHA, NISHANT NITINIDHI; RAJAMANI, SUDHA
Title	Compartmentalization as a ubiquitous feature of life: from origins of life to biomimetics
Citation	European Physical Journal Special Topics
Publisher	Springer Nature
URI	https://doi.org/10.1140/epjs/s11734-024-01203-5
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9009
Date of Publication	2024-06
 Author(s)	 Pawar, Namrata; Dudhabhate, Biru B.; Borade, Vaishnavi; Sahare, Dipak K.; Bhute, Yogesh V.; SUBHEDAR, NISHIKANT K.; Kokare, Dadasaheb M.; Sakharkar, Amul J.
Title	CREB-Binding Protein Regulates Cocaine- and Amphetamine-Regulated Transcript Peptide Expression in the Lateral Hypothalamus: Implication in Reward and Reinforcement
Citation	Molecular Neurobiology
Publisher	Springer Nature
URI	https://doi.org/10.1007/s12035-024-04338-7
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9015
Date of Publication	2024-07

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Author(s)	Sadiq, Mohammed Aamir; BHAT, ANANDA SHIKHARA; Guttal, Vishwesha; Balakrishnan, Rohini
Title	Spatial structure could explain the maintenance of alternative reproductive tactics in tree cricket males
Citation	Biology Open, 13 (6), bio060307.
Publisher	The Company of Biologists
URI	https://doi.org/10.1242/bio.060307
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9025
Date of Publication	2024-06

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CHEMISTRY

Journal Articles

Author(s)	DUTT, SHIFALI; KOTTAICHAMY, ALAGAR RAJA; DARGILY, NEETHU CHRISTUDAS; MUKHOPADHYAY, SANCHAYITA; NAYAK, BHOJKUMAR; DEVENDRACHARI, MRUTHYUNJAYACHARI CHATTANHALI; Vinod, Chatakudhath Prabakaran; Kotresh, Harish Makri Nimbegondi; THOTIYL, MUSTHAFA OTTAKAM
Title	Switchable molecular electrocatalysis
Citation	Chemical Science
Publisher	Royal Society of Chemistry
URI	https://doi.org/10.1039/D4SC01284D
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9026
Date of Publication	2024-07

Author(s)	DUTTA, SWAGATA; SRIVATSAN, SEERGAZHI G.
Title	Enzymatic functionalization of RNA oligonucleotides by terminal uridylyl transferase using fluorescent and clickable nucleotide analogs
Citation	Chemistry—An Asian Journal.
Publisher	Wiley
URI	https://doi.org/10.1002/asia.202400475
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9019
Date of Publication	2024-07

Author(s)	Gurung, Arun Bahadur; MUKHERJEE, ARNAB et al.
Title	Nanostructured lipopeptide-based membranomimetics for stabilizing bacteriorhodopsin
Citation	Biomaterials Science
Publisher	Royal Society of Chemistry
URI	https://doi.org/10.1039/D4BM00250D
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9011
Date of Publication	2024-06

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Author(s)	METYA, SURAJIT; ROY, SUPRAVAT; MANDAL, SOURAV; Huang, Qian-Rui; Kuo, Jer-Lai; DAS, ALOKE
Title	Modulation of the strength of weak S-H···O hydrogen-bond: Spectroscopic study of the complexes of 2-fluorothiophenol with methanol and ethanol
Citation	Journal of Chemical Physics, 160(22).
Publisher	AIP Publishing
URI	https://doi.org/10.1063/5.0208086
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9010
Date of Publication	2024-06
 Author(s)	 PARMAR, MUSKAN; MUKHOPADHYAY, SANCHAYITA; RITWIK MONDAL; NAYAK, BHOJKUMAR; DARGILY, NEETHU CHRISTUDAS; Kotresh, Harish Makri Nimbegondi; Vinod, Chathakudath Prabhakaran; THOTIYL, MUSTHAFA OTTAKAM
Title	Synergistic Effects of Substrate-Ligand Interaction in Metal-Organic Complexes on the De-electronation Kinetics of a Vitamin C Fuel Cell
Citation	Dalton Transactions
Publisher	Royal Society of Chemistry
URI	https://doi.org/10.1039/D4DT01370K
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9032
Date of Publication	2024-07
 Author(s)	 Roy, Subhadip; Pan, Swagata; Choudhury, Neha; SIVARAM SWAMINATHAN; De, Priyadarsi
Title	Water-soluble polymeric probe with tryptophan pendants for formaldehyde sensing
Citation	European Polymer Journal, 215, 113241.
Publisher	Elsevier B.V.
URI	https://doi.org/10.1016/j.eurpolymj.2024.113241
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/8998
Date of Publication	2024-07

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EARTH AND CLIMATE SCIENCE

Journal Articles

Author(s)	CHAUHAN, IKTESH; DEHIYA, RAHUL
Title	Two-dimensional controlled source electromagnetic inversion algorithm based on a space domain forward modeling approach
Citation	Geophysical Prospecting
Publisher	Wiley
URI	https://doi.org/10.1111/1365-2478.13575
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9027
Date of Publication	2024-07

Author(s)	DEHIYA, RAHUL
Title	Error propagation and model update analysis in three-dimensional CSEM inversion
Citation	Geophysical Journal International
Publisher	Oxford University Press
URI	https://doi.org/10.1093/gji/ggae251
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9028
Date of Publication	2024-07

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HUMANITIES AND SOCIAL SCIENCES

Journal Article

Author(s)	Martin, J.C.G.; Kanade, R.; Bhadbhade, N.; Joy, K.J.; THOMAS, B. K.; Willaarts, B.; Hanger-Kopp, S.
Title	Review of the food, water and biodiversity nexus in India
Citation	Environmental Science & Policy, 159, 103826.
Publisher	Elsevier B.V.
URI	https://doi.org/10.1016/j.envsci.2024.103826
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9012
Date of Publication	2024-09

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MATHEMATICS

Journal Article

Author(s)	Kannan, M. Rajesh; Pragada, Shivaramakrishna; WANKHEDE, HITESH
Title	Constructing cospectral graphs by unfolding non-bipartite graphs
Citation	Discrete Applied Mathematics, 357, 264-273.
Publisher	Elsevier B.V.
URI	https://doi.org/10.1016/j.dam.2024.06.016
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9014
Date of Publication	2024-11

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PHYSICS

Journal Articles

Author(s)	Adak, Debabrata; Shaikh, Shabbir; Sinha, Srijita; Ghosh, Tuhin; Boulanger, Francois; Lagache, Guilaine; SOURADEEP, TARUN; Miville-Deschenes, Marc-Antoine
Title	Bayesian inference methodology to characterize the dust emissivity at far-infrared and submillimeter frequencies
Citation	Monthly Notices of the Royal Astronomical Society, 531(04), 4876-4892.
Publisher	Oxford University Press
URI	https://doi.org/10.1093/mnras/stae1365
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9016
Date of Publication	2024-07

Author(s)	Aditya, Sreemayee; DHAR, DEEPAK; Sen, Diptiman
Title	Subspace-restricted thermalization in a correlated-hopping model with strong Hilbert space fragmentation characterized by irreducible strings
Citation	Physical Review B, 110(04),045418.
Publisher	American Physical Society
URI	https://doi.org/10.1103/PhysRevB.110.045418
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9024
Date of Publication	2024-07

Author(s)	Deswal, Sonia; Kumar, Deepu; ROUT, DIBYATA; SINGH, SURJEET; Kumar, Pradeep
Title	Quasi-two-dimensional frustrated spin-1 triangular lattice antiferromagnet $\text{Ca}_3\text{NiNb}_2\text{O}_9$: A proximate spin liquid
Citation	Physical Review B, 110(02), 024430.
Publisher	American Physical Society
URI	https://doi.org/10.1103/PhysRevB.110.024430
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9031
Date of Publication	2024-07

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Author(s) Dwari, Gourav; RAMAKRISHNAN, SITARAM et al.

Title Unveiling the interplay of magnetic order and electronic band structure in the evolution of the anomalous Hall effect in single crystalline MnPtGa

Citation Physical Review B, 110(04), 045111.

Publisher American Physical Society

URI <https://doi.org/10.1103/PhysRevB.110.045111>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9021>

Date of Publication 2024-07

Author(s) GHOSH, RATHEEJIT; Ciardi, Matteo; NATH, REJISH; Cinti, Fabio

Title Path integral Monte Carlo study of a doubly dipolar Bose gas

Citation Physical Review B, 110(01), 014513.

Publisher American Physical Society

URI <https://doi.org/10.1103/PhysRevB.110.014513>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9020>

Date of Publication 2024-07

Author(s) PISTAWALA, NASHRA; HARNAGEA, LUMINITA; Karmakar, Suman; Rawat, Rajeev; SINGH, SURJEET

Title Crystal growth, magnetic and magnetocaloric properties of $J_{eff} = 1/2$ quantum antiferromagnet CeCl₃

Citation Physical Review Materials, 8(07), 076201.

Publisher American Physical Society

URI <https://doi.org/10.1103/PhysRevMaterials.8.076201>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9030>

Date of Publication 2024-07

Author(s) Pula, M.; GHARA, A. et al.

Title Candidate for a quantum spin liquid ground state in the Shastry-Sutherland lattice material Yb₂Be₂GeO₇

Citation Physical Review B, 110(01), 014412.

Publisher American Physical Society

URI <https://doi.org/10.1103/PhysRevB.110.014412>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9023>

Date of Publication 2024-07

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Author(s) ROY, DEEPAK K.; KABIR, MUKUL
Title Robust magnetism and phase transitions in ultrathin Na₂IrO₃ flakes
Citation Physical Review B, 110(02), L020403.
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevB.110.L020403>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9022>
Date of Publication 2024-07

Author(s) SREEJITH, G. J.; Sau, Jay D.; Sarma, Sankar Das
Title Eliashberg Theory for Dynamical Screening in Bilayer Exciton Condensation
Citation Physical Review Letters, 133(05), 056501.
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevLett.133.056501>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9033>
Date of Publication 2024-08

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