



SRINIVASA RAMANUJAN LIBRARY

Indian Institute of Science Education and Research Pune

Monthly Bulletin of Publications: Faculty,
Scientists and Students of IISER Pune.
December 2024



Notify us of your new publications at
libraryservices@iiserpune.ac.in

CONTENTS

Department	Page No.
<u>Biology</u>	1
<u>Chemistry</u>	4
<u>Earth and Climate Science</u>	7
<u>Humanities and Social Sciences</u>	8
<u>Mathematics</u>	9
<u>Physics</u>	11

BIOLOGY

Journal Articles



Author(s): Alkhalaf, Lona M.; KAMAT, SIDDHESH S. et al.

Title: Thoughts for the future

Citation: Nature Chemical Biology, 21, 6-15.

Publisher: Springer Nature

URI: <https://doi.org/10.1038/s41589-024-01802-2>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9251>

Publication Date: 2024-12



Author(s): Corona, Angela; Ganesan, Sandhya; MATANGE, NISHAD; Wicht, Kathryn

Title: Call for Papers: Infectious Diseases Research in the Global South: Treatments and Treatment Failures

Citation: ACS Infectious Diseases, 10(12), 4015 - 4016.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acsinfecdis.4c00942>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9228>

Publication Date: 2024-12



Author(s): Datta, Debalina; SENGUPTA, KUNDAN et al.

Title: Nucleo-cytoplasmic environment modulates spatiotemporal p53 phase separation

Citation: Science Advances, 10(50).

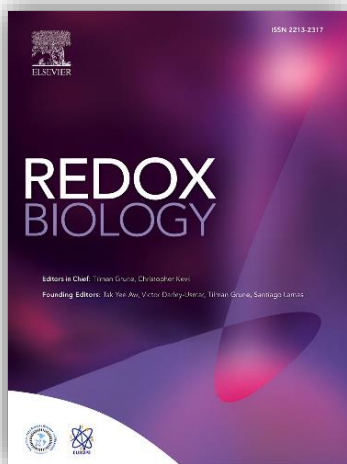
Publisher: American Association for the Advancement of Science

URI: <https://doi.org/10.1126/sciadv.ads0427>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9248>

Publication Date: 2024-12

[Back to content](#)



Author(s): Jog, Eeshrita; CHAKRABORTY, ARNAB; CHANDRAMOULI, AAKASH; KAMAT, SIDDHESH S. et al.

Title: Inhibiting de novo lipogenesis identifies a therapeutic vulnerability in therapy-resistant colorectal cancer

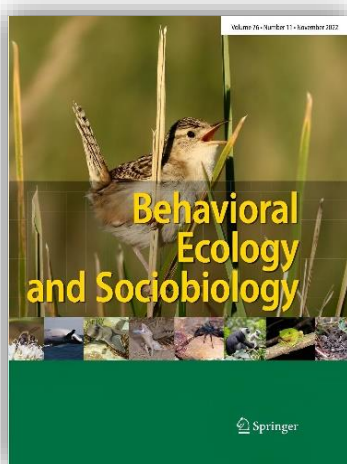
Citation: Redox Biology, 79, 103458.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.redox.2024.103458>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9230>

Publication Date: 2025-02



Author(s): RAMESH, ASHWINI; Sharma, Manvi; Isvaran, Kavita

Title: Social clues in risky pools: Perceived conspecific rivals modify individual mosquito oviposition decisions in response to larval predation and competition

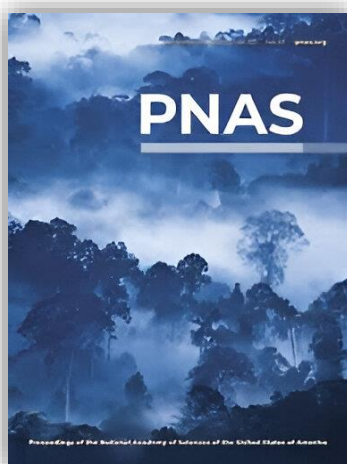
Citation: Behavioral Ecology and Sociobiology, 79, 5.

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s00265-024-03538-4>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9236>

Publication Date: 2024-12



Author(s): Sinha, Abhipsa; CHANDRAMOULI, AAKASH; KAMAT, SIDDHESH S. et al.

Title: ACSL4-mediated H3K9 and H3K27 hyperacetylation upregulates SNAIL to drive TNBC metastasis

Citation: Proceedings of the National Academy of Sciences, 121 (52).

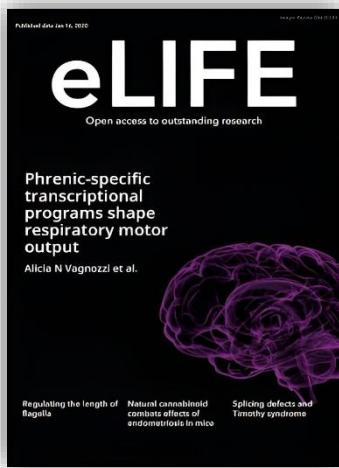
Publisher: National Academy of Sciences

URI: <https://doi.org/10.1073/pnas.2408049121>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9238>

Publication Date: 2024-12

[Back to content](#)



Author(s): DAS, SUBHRADIP; HEGDE, SUSHMITHA; WAGH, NEEL; SUDHAKARAN, JYOTHISH; ROY, ADHEENA ELSA; DESHPANDE, GIRISH; RATNAPARKHI, GIRISH S

Title: Caspar specifies primordial germ cell count and identity in *Drosophila melanogaster*

Citation: eLife, 13.

Publisher: eLife Sciences Publications, Ltd.

URI: <https://doi.org/10.7554/eLife.98584.3>

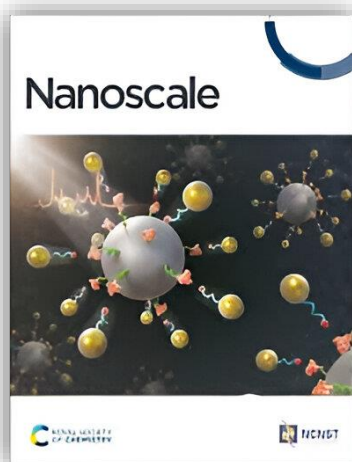
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9253>

Publication Date: 2024-12

[Back to content](#)

CHEMISTRY

Journal Articles



Author(s): AHMAD, MANZOOR; Sarkar, Susmita; BHOGADE, RAVINDRA; MONDAL, ABHISHEK; MONDAL, DEBASHIS; Mondal, Jagannath; TALUKDAR, PINAKI

Title: Dynamic regulation of ion transport through a bis(1,3-propanediol)-based channel via allosteric azobenzene photoswitching

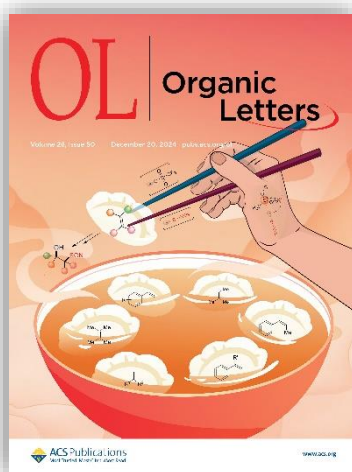
Citation: Nanoscale.

Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D4NR01711K>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9247>

Publication Date: 2024-11



Author(s): DAS, PRATIM KUMAR; Ahiadorme, Daniil A.; Kasdekar, Niteshlal; RAJPUT, JAYASHREE; VANGALA, MADHURI; Crich, David; HOTHASRINIVAS

Title: Au]/[Ag]-Catalyzed Glycosidation of Ethynylcyclohexyl Glycosyl Carbonates Enables Direct Stereoselective Synthesis of 2-Azido-2-deoxy-β-mannopyranosides

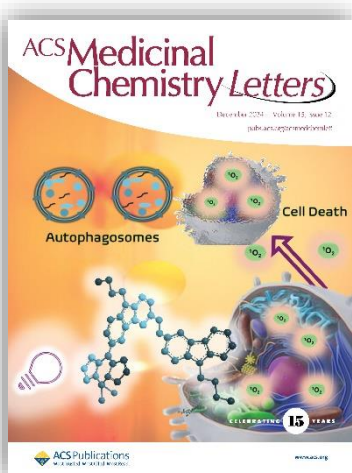
Citation: Organic Letters, 26(50), 11034-11039.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.orglett.4c04208>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9241>

Publication Date: 2024-12



Author(s): Debnath, Joy; Sekar, Yuvasree; BERA, ANWESHA

Title: Highly Sensitive Naphthalene-Based Twisted Intramolecular Charge Transfer Molecules for the Detection of In Vitro and In Cellulo Protein Aggregates

Citation: ACS Medicinal Chemistry Letters, 15(12), 2129-2132.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acsmchemlett.4c00363>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9224>

Publication Date: 2024-12

[Back to content](#)



Author(s): GHOSH, ANIMESH; SAIKIA, SAJID; Molokeev, Maxim S.; NAG, ANGSUMAN

Title: Synthesis and Optical Properties of Organic-Inorganic Hybrid [(18-Crown-6)K][MoOCl₄(H₂O)]

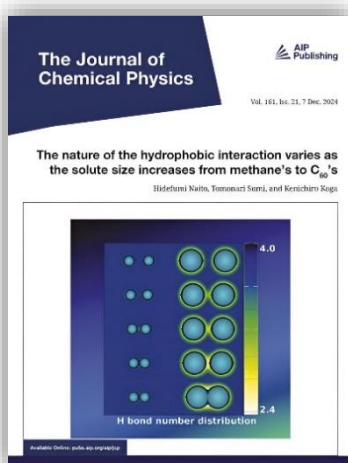
Citation: Chemistry - An Asian Journal.

Publisher: Wiley

URI: <https://doi.org/10.1002/asia.202401052>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9229>

Publication Date: 2024-10



Author(s): MANDAL, SOURAV; Kossov, Arsene; Carcabal, Pierre; DAS, ALOKE

Title: Effect of a single water molecule on the conformational preferences of a capped Pro-Gly dipeptide in the gas phase

Citation: Journal of Chemical Physics, 161(21).

Publisher: AIP Publishing

URI: <https://doi.org/10.1063/5.0243131>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9227>

Publication Date: 2024-12



Author(s): MONDAL, ABHISHEK; Barik, Ganesh Kumar; Sarkar, Susmita; SHIVPUJE, UMESH; Mondal, Jagannath; Santra, Manas Kumar; TALUKDAR, PINAKI

Title: Apoptosis-Inducing Activity of a 2-Hydroxyphenyl Benzamide-Based Self-Assembled Anion Channel

Citation: Chemistry—A European Journal.

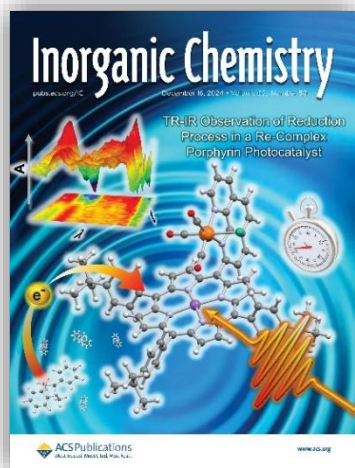
Publisher: Wiley

URI: <https://doi.org/10.1002/chem.202403252>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9249>

Publication Date: 2024-11

[Back to content](#)



Author(s): MUKHERJEE, NILANJANA; KUMAR, VIKAS; Yildiz, Cem B.; MAJUMDAR, MOUMITA

Title: Reactivity Study of the Bis(phosphine)-Stabilized Antimony(III) Cation

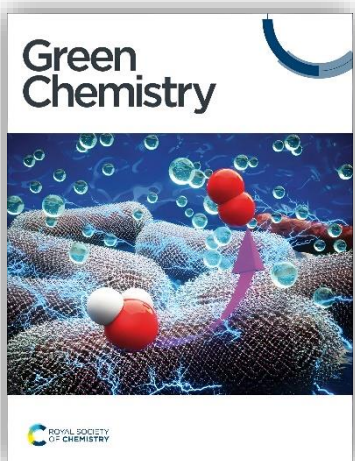
Citation: Inorganic Chemistry, 63(51), 24306-24312.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.inorgchem.4c04257>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9237>

Publication Date: 2024-12



Author(s): PRADHAN, HEMANGA; MONDAL, RITWIK; NAYAK, BHOJKUMAR; THIMMAPPA, RAVIKUMAR; MENDHE, RAHUL MAHADEO; THOTIYL, MUSTHAFA OTTAKAM

Title: Unidirectional Competitive Redox enabled Unsegmented Natural Sea-water Splitting for Green Hydrogen Production

Citation: Green Chemistry.

Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D4GC04765F>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9226>

Publication Date: 2024-12



Author(s): ROUT, BHAKTI P.; ROY, SARUPA; SRIVATSAN, SEERGAZHI G.

Title: 5-Fluoro-2'-deoxyuridine as an efficient ^{19}F NMR reporter for G-quadruplex and i-motif structures

Citation: Bioorganic & Medicinal Chemistry Letters, 117, 130060.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.bmcl.2024.130060>

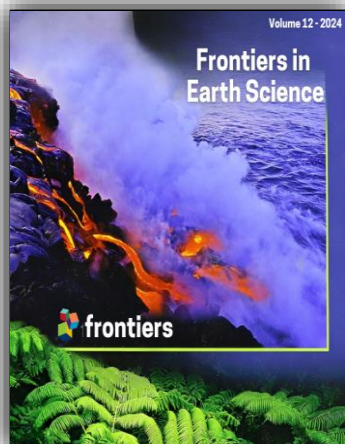
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9239>

Publication Date: 2025-03

[Back to content](#)

EARTH AND CLIMATE SCIENCE

Journal Articles



Author(s): Goetze, Hans-Juergen; Strehlau, Ronja; Dannowski, Anke; Anikiev, Denis KUMAR, AJAY; Scheck-Wenderoth, M

Title: Do gravity data justify a rifted “Liguro-Provençal Basin”?

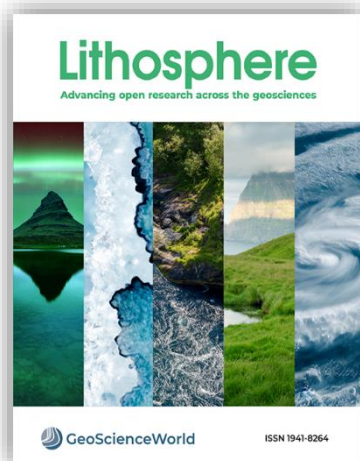
Citation: Frontiers in Earth Science.

Publisher: Frontiers Media S.A., 12

URI: <https://doi.org/10.3389/feart.2024.1475025>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9254>

Publication Date: 2024-10



Author(s): Chaudhuri, Dibyajyoti; Banerjee, Rupak; KUMAR, AJAY; Sharma, Shubham; Mitra, Supriyo

Title: Role of Intraplate Strike-Slip Earthquakes in Accommodating Convergence Across the Eastern Himalayan Plate Boundary System

Citation: Lithosphere, 15

Publisher: GeoScienceWorld

URI: https://doi.org/10.2113/2024/lithosphere_2024_189

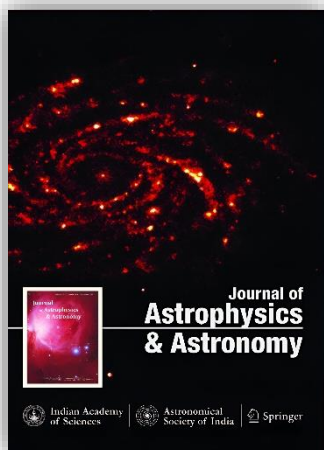
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9255>

Publication Date: 2024-12

[Back to content](#)

HUMANITIES AND SOCIAL SCIENCES

Journal Article



Author(s): PAI, VENKETESWARA R.

Title: Bhūpajñādivākyas: A quick tool to extract the longitude of the Sun

Citation: Journal of Astrophysics and Astronomy, 46(1), 4.

Publisher: Springer Nature

URI: <https://link.springer.com/article/10.1007/s12036-024-10016-w>

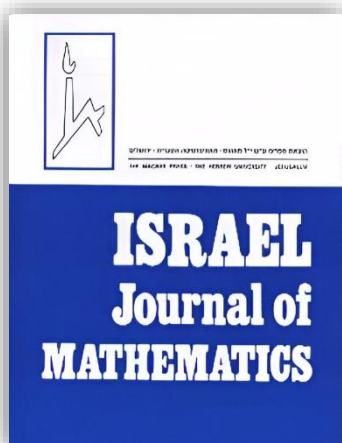
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9257>

Publication Date: 2024-12

[Back to content](#)

MATHEMATICS

Journal Articles



Author(s): PANJA, SAIKAT; SINGH, ANUPAM

Title: Powers in finite orthogonal and symplectic groups: A generating function approach

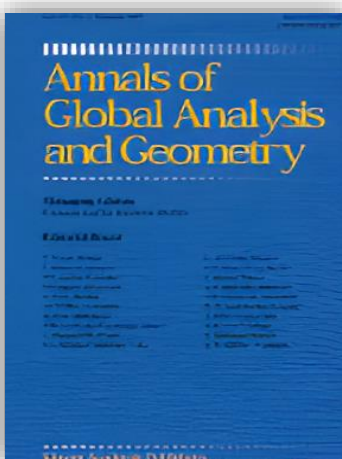
Citation: Israel Journal of Mathematics.

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s11856-024-2694-x>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9240>

Publication Date: 2024-12



Author(s): PAL, DEBJIT; PODDAR, MAINAK

Title: Generalized complex structure on certain principal torus bundles

Citation: Annals of Global Analysis and Geometry, 67(02).

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s10455-024-09982-9>

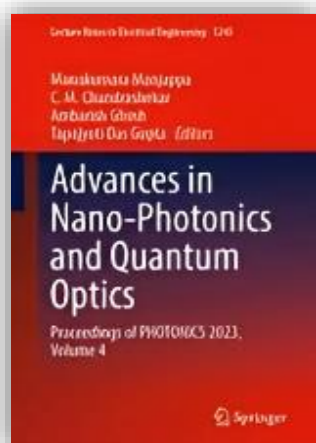
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9235>

Publication Date: 2024-12

[Back to content](#)

PHYSICS

Book Chapter



Author(s): DATTA, SHOVIK

Title: How a Two-Component Bose-Einstein Condensate Can 'Bypass' the No-Cloning Theorem?

Citation: Advances in Nano-Photonics and Quantum Optics: Proceedings of PHOTONICS 2023, Volume 4, 95-100.

Publisher: Springer Nature

URI: https://doi.org/10.1007/978-981-97-4760-3_14

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9258>

Publication Date: 2024-12

Journal Articles



Author(s): Alqahtani, Mubarak; BHALERAO, RAJEEV S.; Giacalone, Giuliano; Kirchner, Andreas; Ollitrault, Jean-Yves

Title: Impact parameter dependence of anisotropic flow: Bayesian reconstruction in ultracentral nucleus-nucleus collisions

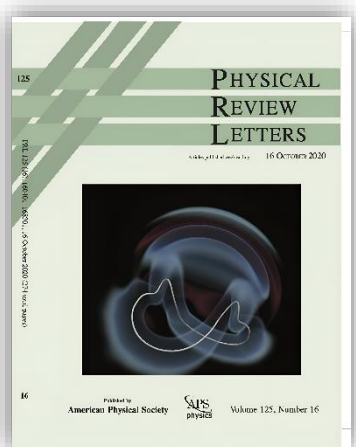
Citation: Physical Review C, 110, 064906.

Publisher: American Physical Society

URI: <https://doi.org/10.1103/PhysRevC.110.064906>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9250>

Publication Date: 2024-12



Author(s): Balram, Ajit C.; SREEJITH, G. J.; Jain, J. K.

Title: Splitting of the Girvin-MacDonald-Platzman Density Wave and the Nature of Chiral Gravitons in the Fractional Quantum Hall Effect

Citation: Physical Review Letters, 133, 246605.

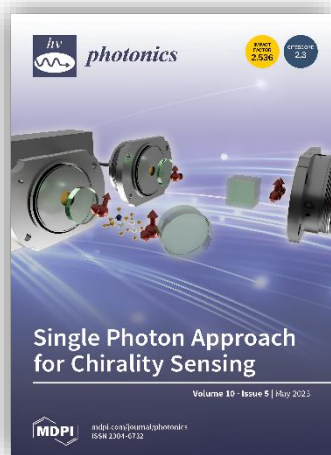
Publisher: American Physical Society

URI: <https://doi.org/10.1103/PhysRevLett.133.246605>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9231>

Publication Date: 2024-12

[Back to content](#)



Author(s): CHAUDHARY, MANISH; NATH, REJISH; Li, Weibin

Title: Spin-Phonon Relaxation Dynamics from a Conical Intersection of Trapped Rydberg Ions

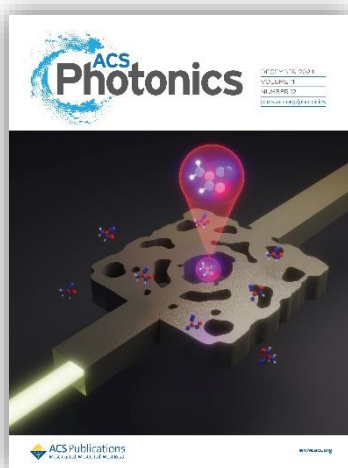
Citation: Photonics, 11(12), 1135.

Publisher: MDPI

URI: <https://doi.org/10.3390/photonics11121135>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9223>

Publication Date: 2024-12



Author(s): CHETNA, TANEJA; Elliott, Eoin; KUMAR, G. V. PAVAN; Baumberg, Jeremy J.; Chikkaraddy, Rohit

Title: Mapping and Optically Writing Nanogap Inhomogeneities in 1-D Extended Plasmonic Nanowire-on-Mirror Cavities

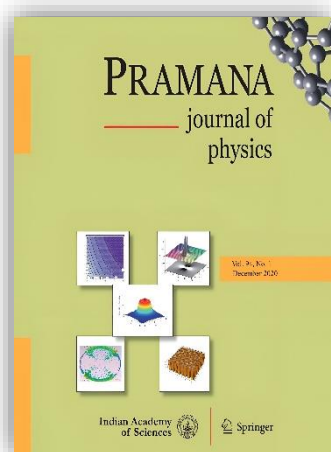
Citation: ACS Photonics, 11(12), 5205-5214.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acsp Photonics.4c01443>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9252>

Publication Date: 2024-12



Author(s): Rosalin, M.; Kisku, Seababrata; TELANG, PRACHI; SINGH, SURJEET; Muthu, D. V. S.; Sood, A. K.

Title: Pressure-induced iso-structural phase transitions in pyrochloreiridates $A_2Ir_2O_7$ (A = Pr, Gd, Dy and Er)

Citation: Pramana, 98, 165.

Publisher: Indian Academy of Sciences

URI: <https://doi.org/10.1007/s12043-024-02852-w>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9225>

Publication Date: 2024-11

[Back to content](#)

Acknowledgment: The images used in this document are intended solely for educational purposes. All efforts have been made to ensure compliance with fair use standards. No copyright infringement is intended.