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January 2025



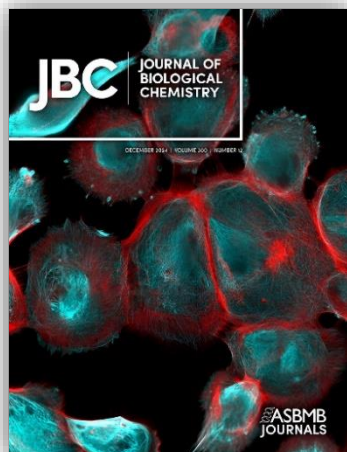
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BIOLOGY

Journal Articles



Author(s): CHAKRABORTY, ARNAB; PUNNAMRAJU, PRAJWAL; SAJEEVAN, THEJA; Kaur, Arshdeep; Kolthur-Seetharam, Ullas; KAMAT, SIDDHESH S.

Title: Identification of ABHD6 as a lysophosphatidylserine lipase in the mammalian liver and kidneys

Citation: Journal of Biological Chemistry, 302(02) 108157.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.jbc.2025.108157>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9269>

Publication Date: 2025-01



Author(s): DE, TANWEE DAS; Pelletier, Julien; Gupta, Satyajeet; Kona, Madhavinadha Prasad; Singh, Om P.; Dixit, Rajnikant; KARMODIYA, KRISHANPAL

Title: Diel modulation of perireceptor activity influences olfactory sensitivity in diurnal and nocturnal mosquitoes

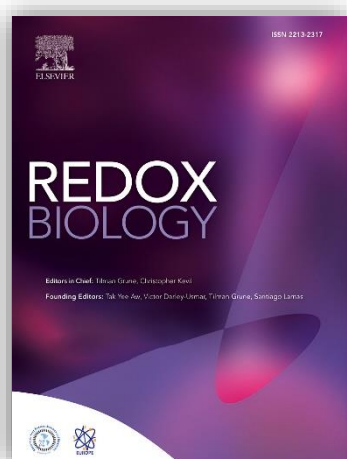
Citation: FEBS Journal.

Publisher: Wiley

URI: <https://doi.org/10.1111/febs.17418>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9301>

Publication Date: 2025-01



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.

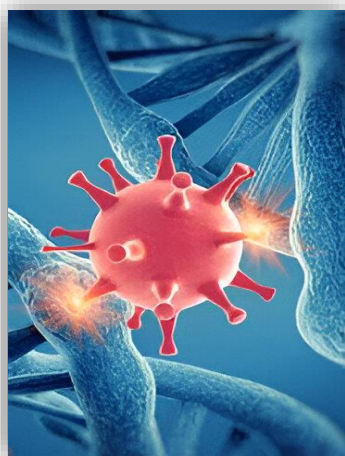
Publisher: Elsevier B.V.

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

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Author(s): Kapoor, Yogita; KHURANA, HIMANI; CHAKRABORTY, ARNAB; Dutta, Debatri; Priya, Anshu; Singh, Archana; KAMAT, SIDDHESH S.; Dhar, Neeraj; PUCADYIL, THOMAS J.; Nandicoori, Vinay Kumar

Title: Wag31, a membrane tether, is crucial for lipid homeostasis in mycobacteria

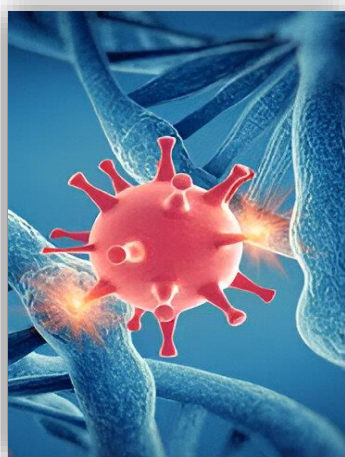
Citation: Microbiology and Infectious Disease.

Publisher: eLife Sciences Publications Ltd.

URI: <https://doi.org/10.7554/eLife.104268.1>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9277>

Publication Date: 2025-01



Author(s): Sarkar, Binayak; CHANDRAMOULI, AAKASH; KAMAT, SIDDHESH S.; GOKHALE, RAJESH S. et al.

Title: PPAR γ mediated enhanced lipid biogenesis fuels Mycobacterium tuberculosis growth in a drug-tolerant hepatocyte environment

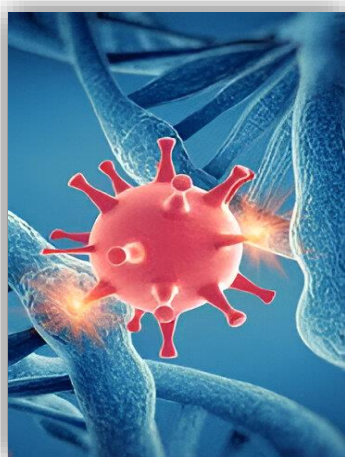
Citation: Microbiology and Infectious Disease.

Publisher: eLife Sciences Publications Ltd.

URI: <https://doi.org/10.7554/eLife.103817.1>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9271>

Publication Date: 2025-01



Author(s): Shambhavi, Sakshi; Mondal, Sudipta; CHAKRABORTY, ARNAB; Shukla, Nikita; Panda, Bapin K.; Kumar, Santhosh; Kinatukara, Priyadarshan; Pal, Biswajit; KAMAT, SIDDHESH S.; Sankaranarayanan, Rajan

Title: Emergence of Dip2-mediated Specific DAG-based PKC Signalling Axis in Eukaryotes

Citation: Cell Biology.

Publisher: eLife Sciences Publications Ltd.

URI: <https://doi.org/10.7554/eLife.104011.1>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9304>

Publication Date: 2025-01

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CHEMISTRY

Journal Articles



Author(s): BISWAS, KISHALAY; DAM, GOURAB K.; MAHANTA, SUPRITI; ROY, ANIRBAN; Parmar, Saurabh Vinod; Avasare, Vidya; GHOSH, SUJIT K.

Title: Chemically Robust Cationic Porous Organic Polymer (POP) for Selective Detection and Removal of ReO_4^- as a Surrogate of Radioactive $^{99}\text{TcO}_4^-$

Citation: Chemistry- European Journal.

Publisher: Wiley

URI: <https://doi.org/10.1002/chem.202403931>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9278>

Publication Date: 2024-12



Author(s): BOOMISHANKAR, RAMAMOORTHY; Richards, Philip I.; Steiner, Alexander

Title: Tipping the balance between twist and chair ligand conformers in multinuclear ethylzinc cyclophosphazenes

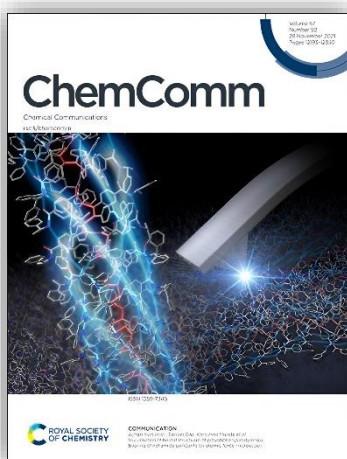
Citation: Dalton Transactions.

Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D4DT03004D>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9299>

Publication Date: 2024-12



Author(s): DEY, SANJIT; ROY, SOUVIK; PUNEETH KUMAR, DRGKOPPALU R.; NALAWADE, SACHIN A.; SINGH, MANJEET; TORASKAR, SANDIP U.; MAHAPATRA, SOUVIK PANDA; GOPI, HOSAHUDYA N.

Title: Metal-directed hierarchical superhelices from hybrid peptide foldamers

Citation: Chemical Communications.

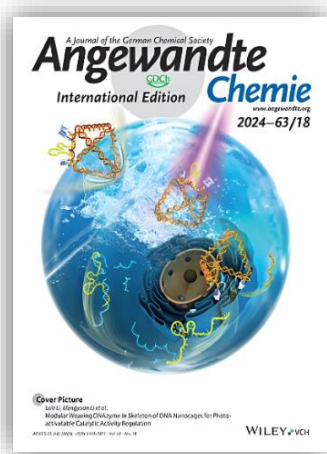
Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D4CC05770H>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9289>

Publication Date: 2025-01

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Author(s): DUTTA, TANIYA; Swain, Diptikanta; NAG, ANGSUMAN
 Title: Conformer-Mediated Helical Chirality in 2D Layered Hybrid Perovskites
 Citation: Angewandte Chemie International Edition.
 Publisher: Wiley
 URI: <https://doi.org/10.1002/anie.202422550>
 DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9279>
 Publication Date: 2024-12



Author(s): HALDAR, HRITWIK; DAS, SATYABRATA; Wiedemann, Haakon T. A.; Beuthert, Katrin; Kay, Christopher W. M.; Dehnen, Stefanie; Yildiz, Cem B.; MAJUMDAR, MOUMITA
 Title: Tetra-Cationic Distibane Stabilized by Bis(α -iminopyridine) and Its Reactivity
 Citation: Journal of the American Chemical Society, 147(04), 3140-3151.
 Publisher: American Chemical Society
 URI: <https://doi.org/10.1021/jacs.4c12354>
 DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9292>
 Publication Date: 2025-01



Author(s): JAMDADE, AKASH BANDU; SWAMI, GOURISHANKAR BAMAYYA; SUTAR, DASHRAT VISHAMBAR; NAIR, PADMAVATHY V. K.; GNANAPRAKASAM, BOOPATHY
 Title: Ruthenium-Zeolite Catalyzed Dehydrative N-Benylation of Amides for the Construction of Macrolactams Under Continuous Flow
 Citation: European Journal of Organic Chemistry.
 Publisher: Wiley
 URI: <https://doi.org/10.1002/ejoc.202401365>
 DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9288>
 Publication Date: 2025-01

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Author(s): MADHUSDHAN, M. S.; Varadarajan, Raghavan

Title: Nobel Prize in Chemistry 2024

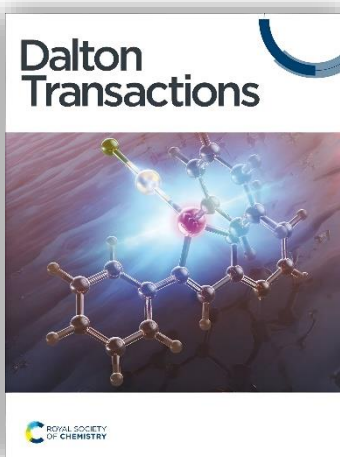
Citation: Current Science,127(11).

Publisher: Current Science Association

URI: <https://www.currentscience.ac.in/Volumes/127/11/1272.pdf>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1079>

Publication Date: 2024-11



Author(s): MEENA, NAMONARAYAN; SAHOO, SUPRIYA; DEKA, NILOTPAL; GADAGIN, VINAYAK B.; Zareba, Jan K.; BOOMISHANKAR, RAMAMOORTHY

Title: Ferroelectricity and piezoelectric energy harvesting of an $A_3M_2X_9$ -type OD bromobismuthate hybrid with a bulky organic quaternary amine

Citation: Dalton Transactions.

Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D4DT03225J>

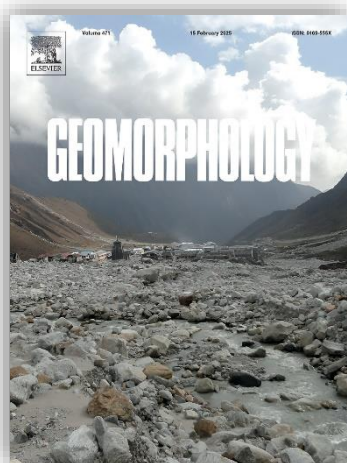
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9280>

Publication Date: 2025-01

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EARTH AND CLIMATE SCIENCE

Journal Articles



Author(s): Bhat, Imtiyaz Ahmad; Rashid, Irfan; Ramsankaran, Raaj; BANERJEE, ARGHA; Vijay, Saurabh

Title: Inventorying rock glaciers in the Western Himalaya, India, and assessing their hydrological significance

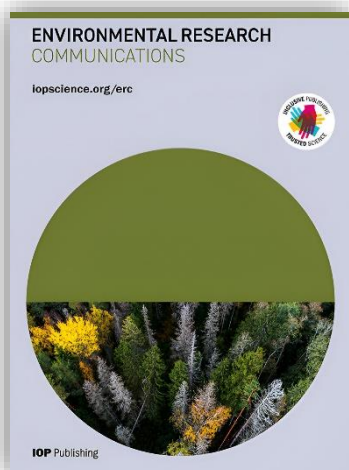
Citation: Geomorphology, 471, 109514.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.geomorph.2024.109514>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9274>

Publication Date: 2025-02



Author(s): MAHESHWORI, DEVI; MANAGAVE, SHREYAS; Jathar, Girish; Davande, Sham

Title: Monsoonal climate and asymmetric heating facilitate the slope-aspect to influence landscape-scale tree structure in the Western Ghats, India

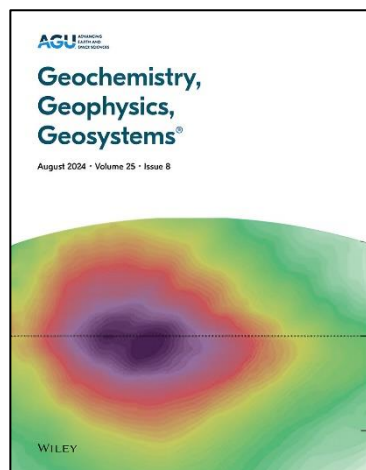
Citation: Environmental Research Communications, 7 (01).

Publisher: IOP Publishing

URI: <https://doi.org/10.1088/2515-7620/ada420>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9296>

Publication Date: 2025-01



Author(s): Pajang, Sepideh; Mouthereau, Frédéric; Robert, Alexandra; KUMAR, AJAY; Callot, Jean-Paul

Title: A Petro-Physical Model for Serpentinized Mantle and Origin of Natural Hydrogen in the Pyrenees

Citation: Geochemistry, Geophysics, Geosystems, 26(01).

Publisher: Wiley

URI: <https://doi.org/10.1029/2024GC011804>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9276>

Publication Date: 2025-01

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Author(s): Eskens, Lucas H. J.; Andrić-Tomašević, Nevena; KUMAR, AJAY; Scheck-Wenderoth, Magdalena

Title: Spatiotemporal Growth of Seismic-Scale Syn-Flexural Normal Faults in the German Molasse Basin

Citation: Basin Research, 37(01).

Publisher: Wiley

URI: <https://doi.org/10.1111/bre.70016>

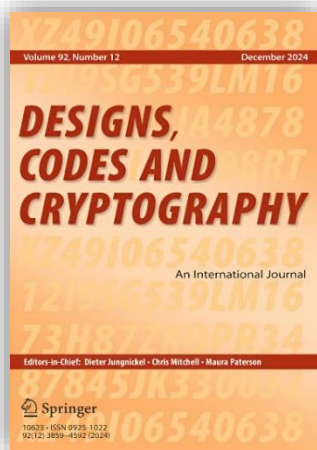
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9303>

Publication Date: 2025-01

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MATHEMATICS

Journal Article



Author(s): De Bruyn, Bart; PRADHAN, PUSPENDU; Sahoo, Binod Kumar

Title: Blocking sets of secant and tangent lines with respect to a quadric of $PG(n, q)$

Citation: Designs, Codes and Cryptography.

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s10623-024-01559-8>

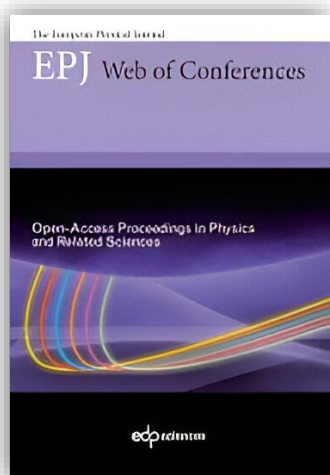
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9291>

Publication Date: 2025-01

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PHYSICS

Conference Paper



Author(s): Jaiswal, Sunil; Blaizot, Jean-Paul; BHALERAO, RAJEEV S.; Chen, Zenan; Jaiswal, Amaresh; Yan, Li

Title: Why are hydrodynamic theories applicable beyond the hydrodynamic regime?

Citation: EPJ Web of Conferences, 296, 13007.

Publisher: EDP Sciences

URI: <https://doi.org/10.1051/epjconf/202429613007>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9305>

Publication Date: 2024-06

Journal Articles



Author(s): ALI, MOHD; VARDARAJAN, SUNEETA

Title: Local generalized second law in crossed product constructions

Citation: Physical Review D, 111, 024015.

Publisher: American Physical Society

URI: <https://doi.org/10.1103/PhysRevD.111.024015>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9270>

Publication Date: 2025-01



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.

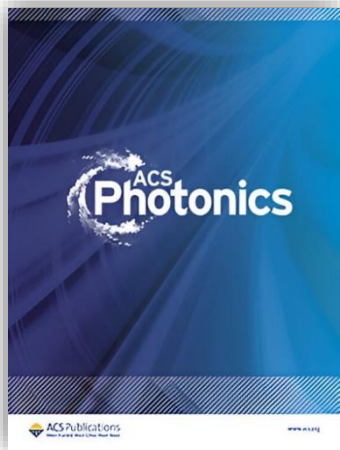
Publisher: American Physical Society

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

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

Publication Date: 2022-12

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Author(s): CHAND, RAHUL; SHUKLA, ASHUTOSH; KUMAR, G. V. PAVAN

Title: Optothermal Revolution: Colloids in an Optical Ring Trap

Citation: ACS Photonics.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acsp Photonics.4c01847>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9272>

Publication Date: 2025-01



Author(s): GHOSH, DIPTIMOY; Pajer, Enrico; ULLAH, FARMAN

Title: Cosmological cutting rules for Bogoliubov initial states

Citation: SciPost Physics, 18(05).

Publisher: SciPost Foundation

URI: <https://doi.org/10.21468/SciPostPhys.18.1.005>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9273>

Publication Date: 2025-01



Author(s): MAURYA, S. SAGAR; KANNAN, J. BHARATHI; PATEL, KUSHAL; DUTTA, PRANAB; BISWAS, KORAK; SANTHANAM, M. S.; RAPOL, UMAKANT D.

Title: Asymmetric dynamical localization and precision measurement of the micromotion of a Bose-Einstein condensate

Citation: Physical Review A, 110, 053307.

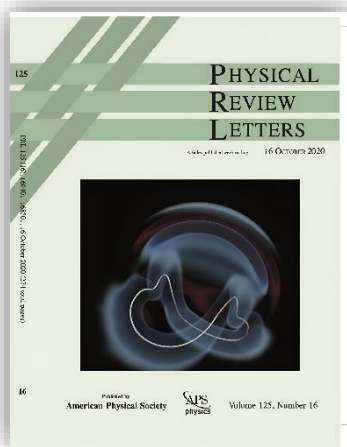
Publisher: American Physical Society

URI: <https://doi.org/10.1103/PhysRevA.110.053307>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9287>

Publication Date: 2024-12

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Author(s): PAL, RITAM; KUMAR, AANJANEYA; SANTHANAM, M. S.

Title: Universal Statistics of Competition in Democratic Elections

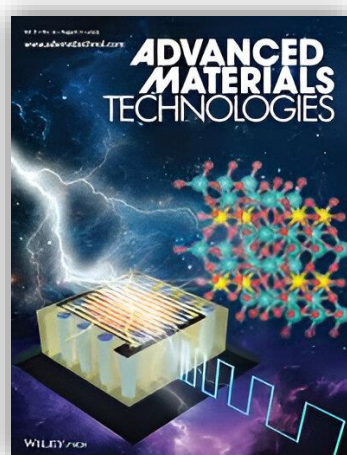
Citation: Physical Review Letters, 134, 017401.

Publisher: American Physical Society

URI: <https://doi.org/10.1103/PhysRevLett.134.017401>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9285>

Publication Date: 2025-01



Author(s): Patil, Kalyanee; BARVE, KANCHAN; Pisal, Akshaya; OGALE, SATISHCHANDRA; Bhave, Tejashree

Title: A Paper-Based Robust Hybrid Photodetector Based on the 2D/0D/0D MoS₂/N-GQD/CsPbBr₃ Triple Junction

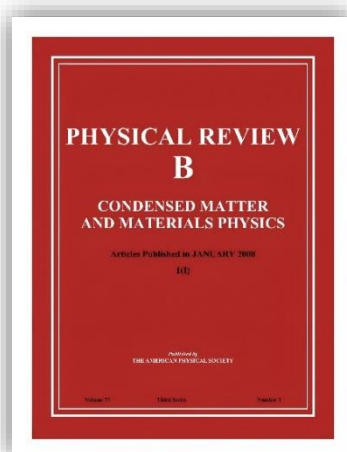
Citation: Advanced Materials Technologies.

Publisher: Wiley

URI: <https://doi.org/10.1002/admt.202401868>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9290>

Publication Date: 2025-01



Author(s): TEKUR, S. HARSHINI; SANTHANAM, M. S.; AGARWALLA, BIJAY KUMAR; Kulkarni, Manas

Title: Higher-order gap ratios of singular values in open quantum systems

Citation: Physical Review B, 110, L241410.

Publisher: American Physical Society

URI: <https://doi.org/10.1103/PhysRevB.110.L241410>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9286>

Publication Date: 2024-12

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