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October 2024



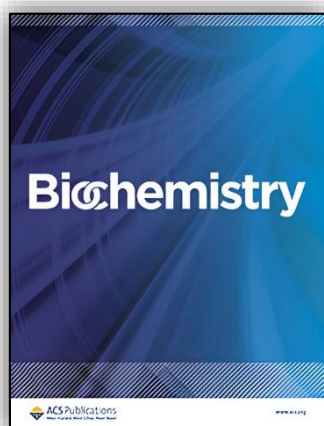
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BIOLOGY

Journal Articles



Author(s): KUMAR, KUNDAN; PAZARE, MRUNAL; RATNAPARKHI, GIRISH S.; KAMAT, SIDDHESH S.

Title: CG17192 is a Phospholipase That Regulates Signaling Lipids in the Drosophila Gut upon Infection

Citation: Biochemistry.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.biochem.4c00579>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9150>

Publication Date: 2024-10



Author(s): PANDE, VANI; PANANGHAT, GAYATHRI

Title: Improving Stability of Spiroplasma citri MreB5 Through Purification Optimization and Structural Insights

Citation: Bio-protocol, 14(20).

Publisher: Bio-protocol LLC

URI: <https://doi.org/10.21769/BioProtoc.5086>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9142>

Publication Date: 2024-10



Author(s): Rajput, Vinay; KADAM, PRADNYA; BHALERAO, UNNATI; TUPEKAR, MANISHA; DESHPANDE, DIPTI; SHASHIDHARA, L.S.; KARMODIYA, KRISHANPAL et al.

Title: Wastewater surveillance in post-omicron silent phase uncovers silent waves and cryptic transmission of SARS-CoV-2 variants; a yearlong study in Western India

Citation: Science of The Total Environment, 955,176833.

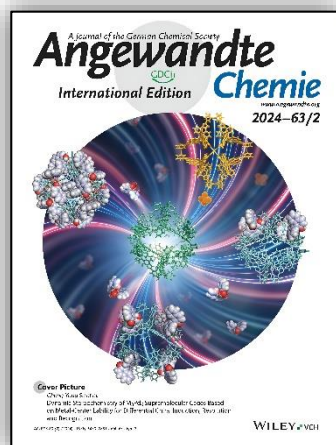
Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.scitotenv.2024.176833>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9126>

Publication Date: 2024-12

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Author(s): MANNA, SUMAN; Agrawal, Ragini; YADAV, TARUN; KUMAR, T. ANAND; KUMARI, POOJA; DALAI, AADISHAKTI; KANADE, SHAUNAK; BALASUBRAMANIAN, NAGARAJ; Singh, Amit; CHAKRAPANI, HARINATH

Title: Orthogonal Persulfide Generation through Precision Tools Provides Insights into Mitochondrial Sulfane Sulfur

Citation: Angewandte Chemie International Edition.

Publisher: Wiley

URI: <https://doi.org/10.1002/anie.202411133>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9122>

Publication Date: 2024-08



Author(s): PARVEZ, FIRDOUSI; AMIN, ZAINAB; Sangpal, Devika; CHUGH, JEETENDER

Title: Role of pH in Modulating RNA-Protein Interactions in TRBP2-dsRBD2: An Interplay between Conformational Dynamics and Electrostatic Interactions

Citation: Journal of Physical Chemistry B.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.jpcc.4c04299>

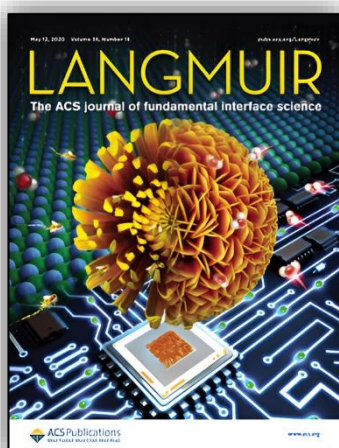
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9154>

Publication Date: 2024-10

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CHEMISTRY

Journal Articles



Author(s): Alshanski, Israel; TORASKAR, SURAJ; Mor, Karin; Daligault, Franck; JAIN, PRASHANT; Grandjean, Cyrille; KIKKERI, RAGHAVENDRA; Hurevich, Mattan; Yitzchaik, Shlomo

Title: Impedimetric Characterization of NanA Structural Domains Activity on Sialoside-Containing Interfaces

Citation: Langmuir, 40(42), 22152-22158.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.langmuir.4c02620>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9144>

Publication Date: 2024-10



Author(s): Dash, Soumya Ranjan; Pandya, Rinu; Singh, Geetika; Sharma, Himanshu; Das, Tamal; HALDAR, HRITWIK; HOTH, SRINIVAS; Vanka, Kumar

Title: Unravelling the prebiotic origins of the simplest α -ketoacids in cometary ices: a computational investigation

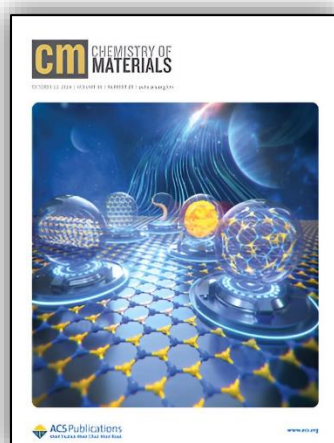
Citation: Chemical Communications, 60(80), 11283-11286.

Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D4CC03074E>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9117>

Publication Date: 2024-10



Author(s): DHANKHAR, ANKIT; PILLAI, PRAMOD P.

Title: Plasmonic Antenna-Reactor Photocatalysts Based on Anisotropic Gold-Rhodium Superstructures for Biological Cofactor Regeneration

Citation: Chemistry of Materials, 36(20), 10227-10237.

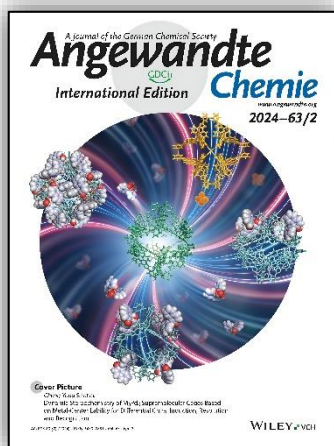
Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.chemmater.4c01966>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9153>

Publication Date: 2024-10

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Author(s): GHOSH, MOUSHAKHI; CHATTERJEE, JOY; PANWARIA, PRAKASH; Kudlu, Ashwath; Tothadi, Srinu; KHAN, SHABANA

Title: Silylene-Copper-Amide Emitters: From Thermally Activated Delayed Fluorescence to Dual Emission

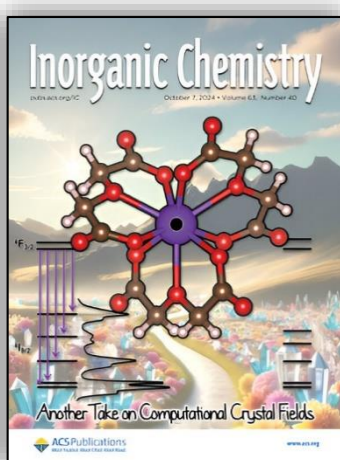
Citation: Angewandte Chemie International Edition.

Publisher: Wiley

URI: <https://doi.org/10.1002/anie.202410792>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9135>

Publication Date: 2024-08



Author(s): JOSE, CAVYA; SRADHA, NANIYIL; BOOMISHANKAR, RAMAMOORTHY

Title: A Chiral Hexa-amino Cyclotriphosphazene for Enantioselective Recognition of Small Organic Compounds

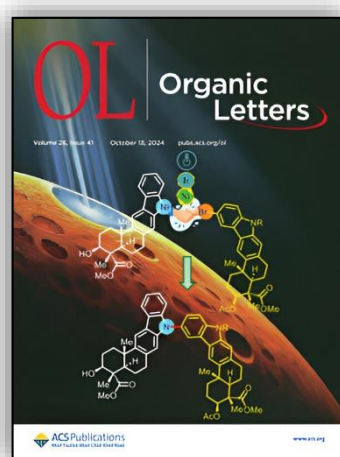
Citation: Inorganic Chemistry, 63(40), 18788-18796.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.inorgchem.4c02814>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9116>

Publication Date: 2024-09



Author(s): LAHA, DEBASISH; BANKAR, ONKAR S.; Santra, Supriyo; NAVALE, BALU S.; Ghosh, Debashree; BHAT, RAMAKRISHNA G.

Title: Photosensitizer-Free Photoinduced Ground-State Triplet Carbene-Assisted Persistent Aryloxy Radical Generation via Hydrogen Atom Transfer

Citation: Organic Letters, 26(41)8674-8679.

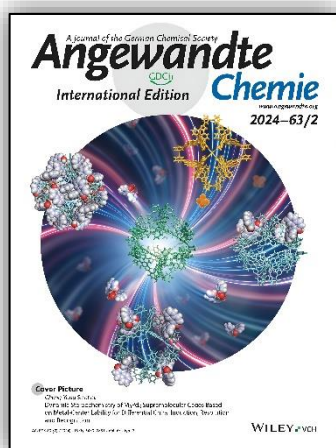
Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.orglett.4c02717>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9146>

Publication Date: 2024-10

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Author(s): MANNA, SUMAN; Agrawal, Ragini; YADAV, TARUN; KUMAR, T. ANAND; KUMARI, POOJA; DALAI, AADISHAKTI; KANADE, SHAUNAK; BALASUBRAMANIAN, NAGARAJ; Singh, Amit; CHAKRAPANI, HARINATH

Title: Orthogonal Persulfide Generation through Precision Tools Provides Insights into Mitochondrial Sulfane Sulfur

Citation: Angewandte Chemie International Edition.

Publisher: Wiley

URI: <https://doi.org/10.1002/anie.202411133>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9122>

Publication Date: 2024-08



Author(s): PARVEZ, FIRDOUSI; AMIN, ZAINAB; Sangpal, Devika; CHUGH, JEETENDER

Title: Role of pH in Modulating RNA-Protein Interactions in TRBP2-dsRBD2: An Interplay between Conformational Dynamics and Electrostatic Interactions

Citation: Journal of Physical Chemistry B.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.jpcc.4c04299>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9154>

Publication Date: 2024-10



Author(s): TYAGI, SHREYA; KASHYAP, RADHA KRISHNA; DHANKHAR, ANKIT; PILLAI, PRAMOD P.

Title: Plasmon-powered chemistry with visible-light active copper nanoparticles

Citation: Chemical Science, 15(41), 16997-17006.

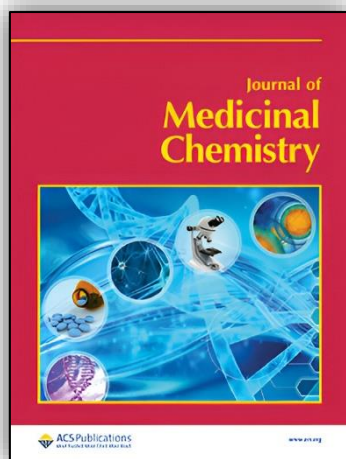
Publisher: Royal Society of Chemistry

URI: <https://doi.org/10.1039/D4SC04806G>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9115>

Publication Date: 2024-11

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Author(s): VISHWESHWARA, SHARATH S.; BHOGE, PREETI RAVINDRA; ANAND, SAURABH; RAIGAWALI, RAKESH; CHANDRA, ANKITA; Saladi, Srinivas Vinod; KIKKERI, RAGHAVENDRA

Title: Immunogenic Sulfated l-Idose Homo Oligosaccharides Elicit Neutralizing Antibody against Native Heparan Sulfate with Biomarker and Therapeutic Possibilities

Citation: Journal of Medicinal Chemistry, 67(20), 18465-18477.

Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.jmedchem.4c01772>

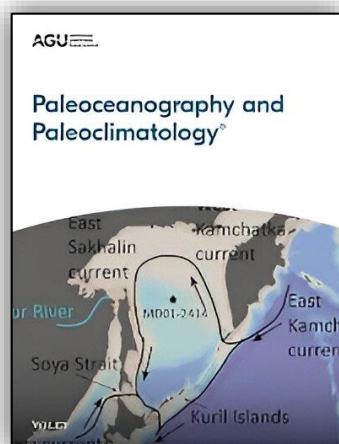
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Publication Date: 2024-10

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EARTH AND CLIMATE SCIENCES

Journal Article



Author(s): SAISHREE, AMRITA; MANAGAVE, SHREYAS; Yadava, M. G.; DEVI, SALAM MAHESHWORI; Sanyal, Prasanta

Title: Tropical Leaf Wax n-Alkane and n-Alkanoic Acid Reflect δD of Precipitation During Early Stages of Leaf Growth: Insights From an Isotope Labeling Experiment

Citation: *Paleoceanography and Paleoclimatology*, 39(10).

Publisher: Wiley

URI: <https://doi.org/10.1029/2024PA004899>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9124>

Publication Date: 2024-10

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MATHEMATICS

Journal Articles



Author(s): BASU, RABEYA; MATHEW, MARIA A.

Title: Elementary Action of Classical Groups on Unimodular Rows Over Monoid Rings

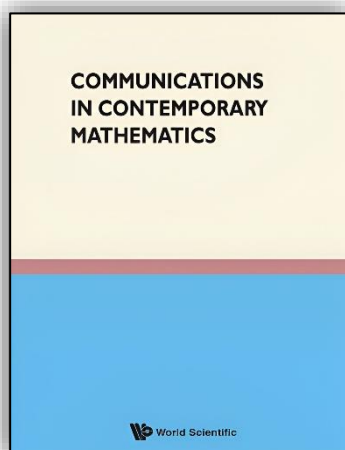
Citation: Transformation Groups

Publisher: Springer Nature

URI: <https://doi.org/10.1007/s00031-024-09883-y>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9145>

Publication Date: 2024-10



Author(s): BHAKTA, MOUSOMI; Ganguly, Debdip; Gupta, Diksha; SAHOO, ALOK KUMAR

Title: A global compactness result and multiplicity of solutions for a class of critical exponent problems in the hyperbolic space

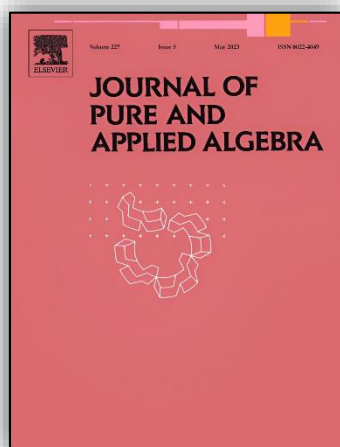
Citation: Communications in Contemporary Mathematics.

Publisher: World Scientific Publishing Co Pte Ltd

URI: <https://doi.org/10.1142/S0219199724500457>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9123>

Publication Date: 2024-09



Author(s): Khan, Bivas; PODDAR, MAINAK

Title: G-connections on principal bundles over complete G-varieties

Citation: Journal of Pure and Applied Algebra, 229(01), 107816.

Publisher: Elsevier B.V.

URI: <https://doi.org/10.1016/j.jpaa.2024.107816>

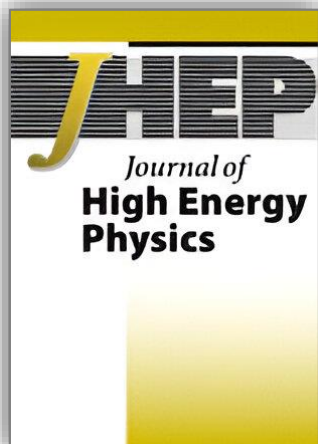
DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9141>

Publication Date: 2025-01

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PHYSICS

Journal Articles



Author(s): BHOWMICK, SUPRITHA; GHOSH, DIPTIMOY; ULLAH, FARMAN

Title: Bispectrum at 1-loop in the Effective Field Theory of Inflation

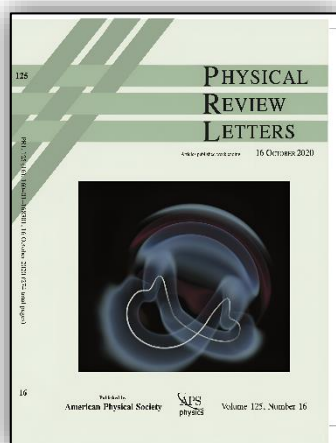
Citation: Journal of High Energy Physics, 2024(10), 57.

Publisher: Springer Nature

URI: [https://doi.org/10.1007/JHEP10\(2024\)057](https://doi.org/10.1007/JHEP10(2024)057)

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9140>

Publication Date: 2024-10



Author(s): CMS Collaboration; ALPANA, A.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; PANDEY, S.; RASTOGI, A.; SHARMA, SEEMA et al.

Title: Observation of the $\Upsilon(3S)$ Meson and Suppression of Υ States in Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV

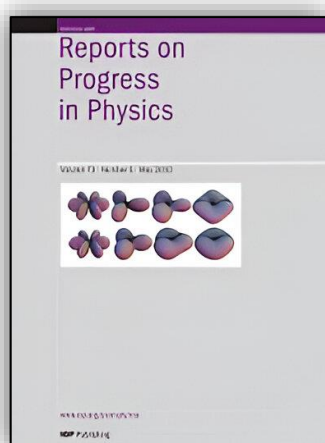
Citation: Physical Review Letters, 133(02), 022302.

Publisher: American Physical Society

URI: <https://doi.org/10.1103/PhysRevLett.133.022302>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9137>

Publication Date: 2024-07



Author(s): CMS Collaboration; Hayrapetyan, A.; ACHARYA, S.; ALPANA, A.; DUBE, SOURABH; GOMBER, B.; KANSAL, B.; LAHA, A.; SAHU, B.; SHARMA, SEEMA; VAISH, K. Y. et al.

Title: Test of lepton flavor universality in $B^{\pm} \rightarrow K^{\pm} \mu^+ \mu^-$ and $B^{\pm} \rightarrow K^{\pm} e^+ e^-$ decays in proton-proton collisions at $\sqrt{s}=13$ TeV

Citation: Reports on Progress in Physics, 87(07), 077802.

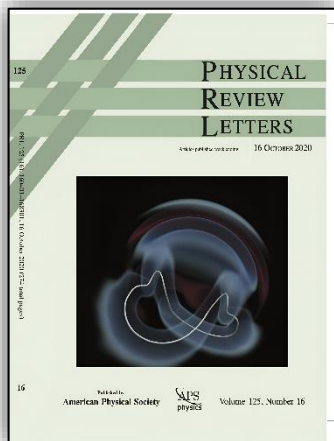
Publisher: IOP Publishing

URI: <https://doi.org/10.1088/1361-6633/ad4e65>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9155>

Publication Date: 2024-07

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Author(s): CMS Collaboration; Hayrapetyan, A.; ALPANA, A.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; RASTOGI, A.; SHARMA, SEEMA et al.

Title: Search for Narrow Trijet Resonances in Proton-Proton Collisions at $\sqrt{s}=13$ TeV

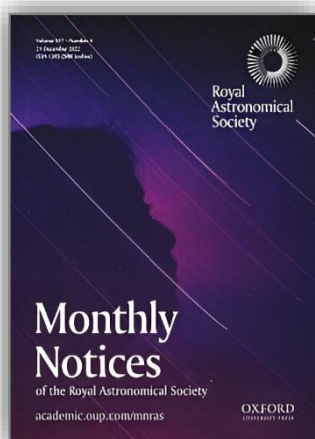
Citation: Physical Review Letters, 133(01), 011801.

Publisher: American Physical Society

URI: <https://doi.org/10.1103/PhysRevLett.133.011801>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9139>

Publication Date: 2024-07



Author(s): Coulton, William R.; Abel, Tom; BANERJEE, ARKA

Title: Small-scale signatures of primordial non-Gaussianity in k-nearest neighbour cumulative distribution functions

Citation: Monthly Notices of the Royal Astronomical Society, 534(03), 1621-1633.

Publisher: Oxford University Press

URI: <https://doi.org/10.1093/mnras/stae2108>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9148>

Publication Date: 2024-11



Author(s): Kaur, Simrandeep; Chanda, Tanima; Amin, Kazi Rafsanjani; Sahani, Divya; Watanabe, Kenji; Taniguchi, Takashi; Ghorai, Unmesh; Gefen, Yuval; SREEJITH, G. J.; Bid, Aveek

Title: Universality of quantum phase transitions in the integer and fractional quantum Hall regimes

Citation: Nature Communications, 15, 8535.

Publisher: Springer Nature

URI: <https://doi.org/10.1038/s41467-024-52927-w>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9114>

Publication Date: 2024-10

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Author(s): Kofman, Vincent; Villanueva, Geronimo Luis; Fauchez, Thomas J.; Mandell, Avi M.; Johnson, Ted M.; Payne, Allison; Latouf, Natasha; KELKAR, SOUMIL

Title: The Pale Blue Dot: Using the Planetary Spectrum Generator to Simulate Signals from Hyperrealistic Exo-Earths

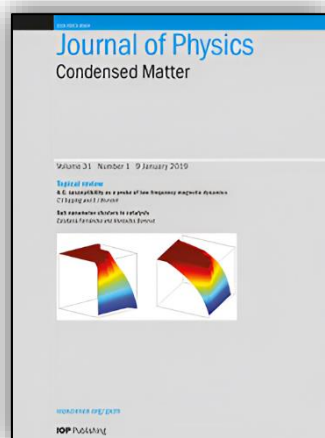
Citation: Planetary Science Journal, 5(09).

Publisher: IOP Publishing

URI: <https://doi.org/10.3847/PSJ/ad6448>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9113>

Publication Date: 2024-09



Author(s): KUMAR, ARUN; PANJA, SOUMENDRA NATH; Keller, Lukas; NAIR, SUNIL

Title: Freezing of short-range ordered antiferromagnetic clusters in the $\text{CrFeTi}_2\text{O}_7$ system

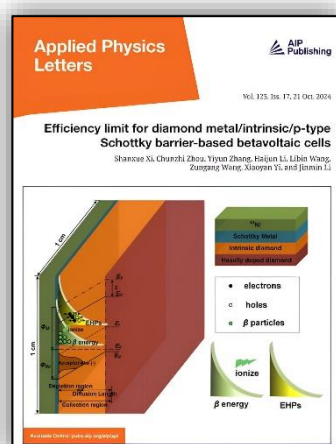
Citation: Journal of Physics: Condensed Matter, 36(50).

Publisher: IOP Publishing

URI: <https://doi.org/10.1088/1361-648X/ad7ac7>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9121>

Publication Date: 2024-12



Author(s): KUMAR, G. V. PAVAN

Title: Brownian colloids in optothermal field: An experimental perspective

Citation: Applied Physics Letters, 125(17), 170502.

Publisher: AIP Publishing

URI: <https://doi.org/10.1063/5.0235507>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9151>

Publication Date: 2024-10

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Author(s): KUMAR, G. V. PAVAN

Title: Gerhard Herzberg (1904-1999): A Pioneer in Molecular Spectroscopy

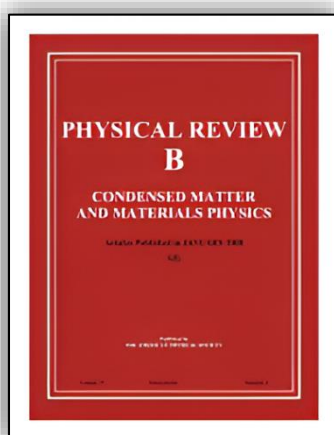
Citation: Resonance Journal of Science Education, 29(10), 1339-1345.

Publisher: Indian Academy of Sciences

URI: <https://www.ias.ac.in/article/fulltext/reso/029/10/1339-1345>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9152>

Publication Date: 2024-10



Author(s): Paul, Sanku; KANNAN, J.BHARATHI; SANTHANAM, M. S.

Title: Faster entanglement driven by quantum resonance in many-body kicked rotors

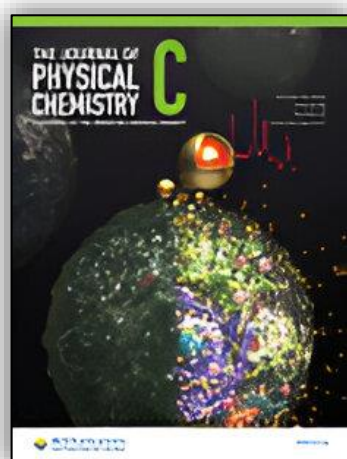
Citation: Physical Review B, 110(14), 144301.

Publisher: American Physical Society

URI: <https://doi.org/10.1103/PhysRevB.110.144301>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9128>

Publication Date: 2024-10



Author(s): REJAUL, S. K.; Nharangatt, Bijoy; MULANI, IMRANKHAN; Mahadevan, Priya; DESHPANDE, APARNA

Title: Adsorption of FePc on Bi₂Se₃

Citation: Journal of Physical Chemistry C, 128(41), 17651-17657.

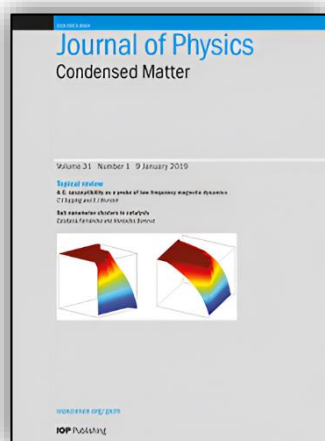
Publisher: American Chemical Society

URI: <https://doi.org/10.1021/acs.jpcc.4c04238>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9143>

Publication Date: 2024-10

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Author(s): TELANG, PRACHI; BANDYOPADHYAY, ABHISEK; Meneghini, Carlo; Carlomagno, Ilaria; SINGH, SURJEET

Title: Anomalous lattice contraction and emerging topological phases in Bi-substituted $\text{Sm}_2\text{Ir}_2\text{O}_7$

Citation: Journal of Physics: Condensed Matter, 37(02).

Publisher: IOP Publishing Ltd

URI: <https://doi.org/10.1088/1361-648X/ad7f14>

DR URI: <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/9125>

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