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LETTER

Author(s) Mandal, Prithwijit; Patel, Ranjan Kumar; ROUT, DIBYATA; Banerjee, Rajdeep; BAG, RABINDRANATH; KARMAKAR, KOUSHIK; Narayan, Awadhesh; Freeland, John W.; SINGH, SURJEET; Middey, Srimanta

Title Giant orbital polarization of Ni²⁺ in a square planar environment

Citation Physics Review B, 103(6).

Publisher American Physical Society

URI <https://doi.org/10.1103/PhysRevB.103.L060504>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5653>

Date of Publication 2021-02

JOURNAL ARTICLES

BIOLOGY

Author(s) BHATIA, SANDHYA; Krishnamoorthy, Guruswamy; UDGAONKAR, JAYANT B.

Title Mapping Distinct Sequences of Structure Formation Differentiating Multiple Folding Pathways of a Small Protein

Citation Journal of the American Chemical Society, 143(3), 1447-1457.

Publisher American Chemical Society

URI <https://doi.org/10.1021/jacs.0c11097>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5583>

Date of Publication 2021-02

Author(s) CHAPHALKAR, ANUSHREE R.; JAWALE, YASH K.; KHATRI, DHRUV; ATHALE, CHAITANYA A.

Title Quantifying Intracellular Particle Flows by DIC Object Tracking

Citation Biophysical Journal, 120(3), 393-401.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.bpj.2020.12.013>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5656>

Date of Publication 2021-02

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Author(s) Dubey, Richa; Kulkarni, Shruti H.; Dantu, Sarath Chandra; Panigrahi, Rajlaxmi; Sardesai, Devika M.; Malik, Nikita; Acharya, Jhankar D.; CHUGH, JEETENDER; Sharma, Shilpy; Kumar, Ashutosh

Title Myricetin protects pancreatic B-cells from human islet amyloid polypeptide (hIAPP) induced cytotoxicity and restores islet function

Citation Biological Chemistry, 402(2), 179-194.

Publisher De Gruyter

URI <https://doi.org/10.1515/hsz-2020-0176>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5646>

Date of Publication 2021-01

Author(s) Erady, Chaitanya; PUNTAMBEKAR, SHRADDHA; KULKARNI, APURV; KASABE, BHAGYASHRI et.al

Title Pan-cancer analysis of transcripts encoding novel open-reading frames (nORFs) and their potential biological functions

Citation NPJ Genomic Medicine, 6(1).

Publisher Springer Nature

URI <https://doi.org/10.1038/s41525-020-00167-4>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5657>

Date of Publication 2021-01

Author(s) JAIN, KUNALIKA; KHETAN, NEHA; YADAV, SHIVANI A.; Palani, Saravanan; ATHALE, CHAITANYA A.

Title Collective dynein transport of the nucleus by pulling on astral microtubules during saccharomyces cerevisiae mitosis

Citation Yeast.

Publisher Wiley

URI <https://doi.org/10.1002/yea.3552>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5655>

Date of Publication 2021-02

Author(s) JAIN, KUNALIKA; YADAV, SHIVANI A.; ATHALE, CHAITANYA A.

Title Number Dependence of Microtubule Collective Transport by Kinesin and Dynein

Citation Journal of the Indian Institute of Science, 101, 19-30.

Publisher Springer Nature

URI <https://doi.org/10.1007/s41745-020-00212-2>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5580>

Date of Publication 2021-01

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Author(s) KALRA, SHIKHA; YAWATKAR, VISHRUTA; James, Logan S; Sakata, Jon T.; RAJAN, RAGHAV
Title Introductory gestures before songbird vocal displays are shaped by learning and biological predispositions
Citation Proceedings of the Royal Society B, 288(1943).
Publisher The Royal Society
URI <https://doi.org/10.1098/rspb.2020.2796>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5585>
Date of Publication 2021-01

Author(s) KHANDELWAL, NEHA; SHAIKH, MINHAJ; MHETRE, AMOL; SINGH, SHUBHAM; SAJEEVAN, THEJA; JOSHI, ALAUMY; Balaji, Kithiganahalli Narayanaswamy; CHAKRAPANI, HARINATH; KAMAT, SIDDHESH S.
Title Fatty acid chain length drives lysophosphatidylserine-dependent immunological outputs
Citation Cell Chemical Biology.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.chembiol.2021.01.008>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5644>
Date of Publication 2021-02

Author(s) ROY, BIBHISAN; REDDY, MALLU CHENNA; JOSE, GREGOR P.; Niemeyer, Felix C.; Voskuhl, Jens; HAZRA, PARTHA
Title All in One: Stimuli-Responsive, Efficient Mitotracking, and Single Source White Light Emission
Citation Journal of Physical Chemistry Letters, 12(4), 1162-1168.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.jpcllett.0c03489>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5582>
Date of Publication 2021-01

Author(s) SELVESHWARI, S.; LELE, KASTURI; DEY, SUTIRTH
Title Genomic signatures of UV resistance evolution in Escherichia coli depend on the growth phase during exposure
Citation Journal of Evolutionary Biology.
Publisher Wiley
URI <https://doi.org/10.1111/jeb.13764>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5660>
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Author(s) TUMULURI, VINAYAK SADASIVAM; RAJGOR, VRUNDA; Xu, Shuang-Yong; CHOUHAN, OM PRAKASH; SAIKRISHNAN, KAYARAT

Title Mechanism of DNA cleavage by the endonuclease SauUSI: a major barrier to horizontal gene transfer and antibiotic resistance in Staphylococcus aureus

Citation Nucleic Acids Research, 49(4), 2161-2178.

Publisher Oxford University Press

URI <https://doi.org/10.1093/nar/gkab042>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5659>

Date of Publication 2021-02

CHEMISTRY

Author(s) BISHT, GIRISH SINGH; DUNCHU, TENZIN DOLKAR; GNANAPRAKASAM, BOOPATHY

Title Synthesis of Quaternary Spirooxindole 2H-Azirines under Batch and Continuous Flow Condition and Metal Assisted Umpolung Reactivity for the Ring-Opening Reaction

Citation Chemistry: An Asian Journal.

Publisher Wiley

URI <https://doi.org/10.1002/asia.202001418>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5584>

Date of Publication 2021-01

Author(s) CHAKRABORTY, RAYAN; NAG, ANGSHUMAN

Title Dielectric confinement for designing compositions and optoelectronic properties of 2D layered hybrid perovskites

Citation Physical Chemistry Chemical Physics, 23(1), 82-93.

Publisher Royal Society of Chemistry

URI <https://doi.org/10.1039/DOCP04682E>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5641>

Date of Publication 2021-01

Author(s) Dubey, Richa; Kulkarni, Shruti H.; Dantu, Sarath Chandra; Panigrahi, Rajlaxmi; Sardesai, Devika M.; Malik, Nikita; Acharya, Jhankar D.; CHUGH, JEETENDER; Sharma, Shilpy; Kumar, Ashutosh

Title Myricetin protects pancreatic B-cells from human islet amyloid polypeptide (hIAPP) induced cytotoxicity and restores islet function

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Publisher De Gruyter

URI <https://doi.org/10.1515/hsz-2020-0176>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5646>

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Author(s) GUPTA, MANOJ KUMAR; Madhanagopal, Bharath Raj; GANESH, KRISHNA N.
Title Peptide Nucleic Acid with Double Face: Homothymine-Homocytosine Bimodal C α -PNA (bm-C α -PNA) Forms a Double Duplex of the bm-PNA₂: DNA Triplex
Citation Journal of Organic Chemistry, 86(1),414-428.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.joc.0c02158>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5645>
Date of Publication 2021-01

Author(s) KHANDELWAL, NEHA; SHAIKH, MINHAJ; MHETRE, AMOL; SINGH, SHUBHAM; SAJEEVAN, THEJA; JOSHI, ALAUMY; Balaji, Kithiganahalli Narayanaswamy; CHAKRAPANI, HARINATH; KAMAT, SIDDHESH S.
Title Fatty acid chain length drives lysophosphatidylserine-dependent immunological outputs
Citation Cell Chemical Biology.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.chembiol.2021.01.008>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5644>
Date of Publication 2021-02

Author(s) ROY, BIBHISAN; REDDY, MALLU CHENNA; JOSE, GREGOR P.; Niemeyer, Felix C.; Voskuhl, Jens; HAZRA, PARTHA
Title All in One: Stimuli-Responsive, Efficient Mitotracking, and Single Source White Light Emission
Citation Journal of Physical Chemistry Letters, 12(4), 1162-1168.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.jpcllett.0c03489>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5582>
Date of Publication 2021-01

EARTH AND CLIMATE SCIENCE

Author(s)	SAMANTA, ANUPAM; TRIPATHY, GYANA RANJAN; PRADEEP, ASWIN T.; MANDAL, ANIRBAN
Title	Major ion chemistry of two cratonic rivers in the tropics: Weathering rates and their controlling factors
Citation	Hydrological processes, 35(2).
Publisher	Wiley
URI	https://doi.org/10.1002/hyp.14035
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5662
Date of	2021-02

MATHEMATICS

Author(s)	BISWAS, ANUP; Lorinczi, Jozsef
Title	Hopf's lemma for viscosity solutions to a class of non-local equations with applications
Citation	Nonlinear Analysis, 204.
Publisher	Elsevier B.V.
URI	https://doi.org/10.1016/j.na.2020.112194
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5651
Date of Publication	2021-03

Author(s)	Dimitrov, Mladen; Januszewski, Fabian; RAGHURAM, A.
Title	L-functions of GL_{2n} : p-adic properties and non-vanishing of twists
Citation	Compositio Mathematica, 156(12), 2437-2468.
Publisher	Cambridge University Press
URI	https://doi.org/10.1112/S0010437X20007551
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5622
Date of Publication	2020-12

PHYSICS

Author(s) Choudhury, Debajyoti; Maharana, Suvam; Sahdev, Vandana; SACHDEVA, DIVYA
Title Dark matter, muon anomalous magnetic moment, and the XENON1T excess
Citation Physical Review D, 103(1).
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevD.103.015006>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5642>
Date of Publication 2021-01

Author(s) CMS Collaboration; Sirunyan, A. M.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; SHARMA, S. et al.
Title Correlations of azimuthal anisotropy Fourier harmonics with subevent cumulants in p Pb collisions at \sqrt{s} NN = 8.16 TeV
Citation Physical Review C, 103(1).
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevC.103.014902>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5586>
Date of Publication 2021-01

Author(s) CMS Collaboration; Sirunyan, A. M.; DUBE, S.; KANSAL, B.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S. et al.
Title Search for the lepton flavor violating decay $\tau \rightarrow 3\mu$ in proton-proton collisions at $\sqrt{s} = 13$ TeV
Citation Journal of High Energy Physics, 2020(1).
Publisher Springer Nature
URI [https://doi.org/10.1007/JHEP01\(2021\)163](https://doi.org/10.1007/JHEP01(2021)163)
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5661>
Date of Publication 2021-01

Author(s) CMS Collaboration; Sirunyan, A. M.; DUBE, S.; KANSAL, B.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S.
Title Search for top squark pair production using dilepton final states in pp collision data collected at $\sqrt{s}=13$ TeV
Citation European Physical Journal C, 81.
Publisher Springer Nature
URI <https://doi.org/10.1140/epjc/s10052-020-08701-5>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5647>
Date of Publication 2021-01

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Author(s) CMS Collaboration; Sirunyan, A. M.; DUBE, S.; KANSAL, B.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S.
Title Evidence for electroweak production of four charged leptons and two jets in proton-proton collisions at $\sqrt{s}=13\text{TeV}$
Citation Physics Letters B, 812.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.physletb.2020.135992>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5648>
Date of Publication 2021-01

Author(s) CMS Collaboration; Sirunyan, A. M.; DUBE, S.; KANSAL, B.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S.
Title Measurements of production cross sections of polarized same-sign W boson pairs in association with two jets in proton-proton collisions at $\sqrt{s}=13\text{TeV}$
Citation Physics Letters B, 812.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.physletb.2020.136018>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5649>
Date of Publication 2021-01

Author(s) CMS Collaboration; Sirunyan, A. M.; DUBE, S.; KANSAL, B.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S.
Title Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s}=13\text{TeV}$
Citation European Physical Journal C, 81.
Publisher Springer Nature
URI <https://doi.org/10.1140/epjc/s10052-020-08739-5>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5650>
Date of Publication 2021-01

Author(s) MALLAVARAPU, S. KUMAR; NIRANJAN, ANKITA; Li, Weibin | Wüster, Sebastian; NATH, REJISH
Title Population trapping in a pair of periodically driven Rydberg atoms
Citation Physical Review A, 103(2).
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevA.103.023335>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5663>
Date of Publication 2021-02

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