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

<b>Subject</b>	<b>Page No.</b>
<a href="#">Biology</a>	2
<a href="#">Chemistry</a>	6
<a href="#">Earth and Climate Science</a>	10
<a href="#">Humanities and Social Sciences</a>	10
<a href="#">Mathematics</a>	11
<a href="#">Physics</a>	11

# BIOLOGY

- Author(s)** Awathale, Sanjay N.; CHOUDHARY, AMIT G.; SUBHEDAR, NISHIKANT K.; Kokare, Dadasaheb M.
- Title** Neuropeptide CART modulates dopamine turnover in the nucleus accumbens: Insights into the anatomy of rewarding circuits
- Citation** Journal of Neurochemistry, 158(5), 1172-1185.
- Publisher** Wiley
- URI** <https://doi.org/10.1111/jnc.15479>
- DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6171>
- Date of Publication** 2021-09
- 
- Author(s)** BORA, PRERONA; MANNA, SUMAN; NAIR, MRUTYUNJAY; SATHE, RUPALI R. M.; SINGH, SHUBHAM; ADURY, VENKATA SAI SREYAS; Gupta, Kavya; MUKHERJEE, ARNAB; Saini, Deepak K.; KAMAT, SIDDHESH S.; HAZRA, AMRITA B.; CHAKRAPANI, HARINATH
- Title** Leveraging an Enzyme/ Artificial Substrate System to Enhance Cellular Persulfides and Mitigate Neuroinflammation
- Citation** Chemical Science.
- Publisher** Royal Society of Chemistry
- URI** <https://doi.org/10.1039/D1SC03828A>
- DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6206>
- Date of Publication** 2021-08
- 
- Author(s)** GALANDE, SANJEEV; Mir, Rafeeq; SHARMA, ANKITA
- Title** Epigenetic regulation of Wnt/ *B*-catenin signaling pathway in cancer
- Citation** Frontiers in Genetics.
- Publisher** Frontiers Media S.A.
- URI** <https://www.frontiersin.org/articles/10.3389/fgene.2021.681053/abstract>
- DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6209>
- Date of Publication** 2021-06
- 
- Author(s)** GANGULY, S.; BARUA, DEEPAK
- Title** Inter-morph pollen flow and reproductive success in a self-compatible species with stigma-height dimorphism: the influence of herkogamy and reciprocity
- Citation** Plant Biology.
- Publisher** Wiley
- URI** <https://doi.org/10.1111/plb.13308>
- DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6199>
- Date of Publication** 2021-08

[Go to top](#)

**Author(s)** Giraud, Guillaume; Paul, Rachel; Duffraisse, Marilyne; KHAN, SOUMEN; SHASHIDHARA, L. S.; Merabet, Samir  
**Title** Developmental Robustness: The Haltere Case in Drosophila  
**Citation** Frontiers in Cell and Developmental Biology, 9, 713282.  
**Publisher** Frontiers Media S.A.  
**URI** <https://doi.org/10.3389/fcell.2021.713282>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6173>  
**Date of Publication** 2021-07

**Author(s)** KANIGANTI, TARUN; DEOGADE, AJINKYA; MADUSKAR, ADITI; MUKHERJEE, ARGHYA; GURU, AKASH; SUBHEDAR, NISHIKANT; GHOSE, AURNAB  
**Title** Sensitivity of olfactory sensory neurons to food cues is tuned to nutritional states by Neuropeptide Y signaling  
**Citation** Journal of Neurochemistry.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1111/jnc.15488>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6204>  
**Date of Publication** 2021-08

**Author(s)** Klumperman, Judith; PUCADYIL, THOMAS  
**Title** Understanding membrane traffic from molecular ensemble, energetics, and the cell biology of participant components  
**Citation** Current Opinion in Cell Biology, 71, III-VI.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.ceb.2021.06.001>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6143>  
**Date of Publication** 2021-08

**Author(s)** KUNDU, TANUSHREE; DUTTA, PRIYANKA; NAGAR, DHRITI; Maiti, Sankar; GHOSE, AURNAB  
**Title** Coupling of dynamic microtubules to F-actin by Fmn2 regulates chemotaxis of neuronal growth cones  
**Citation** Journal of Cell Science, 134 (13), jcs252916.  
**Publisher** The Company of Biologists  
**URI** <https://doi.org/10.1242/jcs.252916>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6163>  
**Date of Publication** 2021-07

[Go to top](#)

**Author(s)** MADHOK, AYUSH; Bhat, Sajad Ahmad; Philip, Chinna Susan; Sureshbabu, Shalini Kashipathi; Chiplunkar, Shubhada; GALANDE, SANJEEV  
**Title** Transcriptome Signature of V $\gamma$ 9V $\delta$ 2 T Cells Treated With Phosphoantigens and Notch Inhibitor Reveals Interplay Between TCR and Notch Signaling Pathways  
**Citation** Frontiers in Immunology.  
**Publisher** Frontiers Media S.A.  
**URI** <https://www.frontiersin.org/articles/10.3389/fimmu.2021.660361/full>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6212>  
**Date of Publication** 2021-08

**Author(s)** MONDAL, ABHISHEK; MALLA, JAVID AHMAD; PAITHANKAR, HARSHAD; Sharma, Shilpy; CHUGH, JEETENDER; TALUKDAR, PINAKI  
**Title** A Pyridyl-Linked Benzimidazolyl Tautomer Facilitates Prodigious H<sup>+</sup>/Cl<sup>-</sup> Symport through a Cooperative Protonation and Chloride Ion Recognition  
**Citation** Organic Letters, 23(15), 6131-6136.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acs.orglett.1c02235>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6201>  
**Date of Publication** 2021-08

**Author(s)** Ozarkar, Aarti; KANYAL, ABHISHEK; Dass, Swati; Deshpande, Prakash; Deobagkar, Deepti; KARMODIYA, KRISHANPAL  
**Title** Analysis of drug resistance marker genes of Plasmodium falciparum after implementation of artemisinin-based combination therapy in Pune district, India  
**Citation** Journal of Biosciences, 46, 77.  
**Publisher** Indian Academy of Sciences  
**URI** <https://doi.org/10.1007/s12038-021-00200-3>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6140>  
**Date of Publication** 2021-08

**Author(s)** PANDEY, SHALINI; SHARMA, VIRENDER KUMAR; BISWAS, ANKUR; LAHIRI, MAYURIKA; Basu, Sudipta  
**Title** Small molecule-mediated induction of endoplasmic reticulum stress in cancer cells  
**Citation** RSC Medicinal Chemistry.  
**Publisher** Royal Society of Chemistry  
**URI** <https://doi.org/10.1039/D1MD00095K>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6219>  
**Date of Publication** 2021-07

[Go to top](#)

**Author(s)** RAWAT, MUKUL; SRIVASTAVA, ASHISH; Johri, Shreya; Gupta, Ishaan; KARMODIYA, KRISHANPAL  
**Title** Single-Cell RNA Sequencing Reveals Cellular Heterogeneity and Stage Transition under Temperature Stress in Synchronized Plasmodium falciparum Cells  
**Citation** Microbiology Spectrum.  
**Publisher** American Society for Microbiology  
**URI** <https://doi.org/10.1128/Spectrum.00008-21>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6137>  
**Date of Publication** 2021-07

**Author(s)** REDDY, MULLAPUDI MOHAN; BATHLA, PUNITA; SANDANARAJ, BRITTO S.  
**Title** A Universal Chemical Method for Rational Design of Protein-Based Nanoreactors  
**Citation** ChemBioChem.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1002/cbic.202100315>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6164>  
**Date of Publication** 2021-08

**Author(s)** SARKAR, SNEHA; NAMBIAR, MRIDULA  
**Title** G-quadruplexes in the mitochondrial genome - a cause for instability  
**Citation** The FEBS Journal.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1111/febs.16149>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6216>  
**Date of Publication** 2021-08

**Author(s)** SHARMA, VIRENDER KUMAR; LAHIRI, MAYURIKA  
**Title** Interplay between p300 and HDAC1 regulate acetylation and stability of Api5 to regulate cell proliferation  
**Citation** Scientific Reports, 11, 16427.  
**Publisher** Springer Nature  
**URI** <https://doi.org/10.1038/s41598-021-95941-4>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6221>  
**Date of Publication** 2021-08

**Author(s)** SHAH, RINI; SHARMA, ANKITA; KELKAR, ASHWIN; SENGUPTA, KUNDAN; GALANDE, SANJEEV  
**Title** A Novel cis Regulatory Element Regulates Human XIST in a CTCF-Dependent Manner  
**Citation** Molecular and Cellular Biology, 41(8).  
**Publisher** American Society for Microbiology  
**URI** <https://doi.org/10.1128/MCB.00382-20>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6208>  
**Date of Publication** 2021-07

## CHEMISTRY

**Author(s)** BHINGARDEVE, PRAMOD; JAIN, PRASHANT; GANESH, KRISHNA N.  
**Title** Molecular Assembly of Triplex of Duplexes from HomothyminyI-HomocytosinyI C<sub>γ</sub>(S/R)-Bimodal Peptide Nucleic Acids with dA<sub>8</sub>/dG<sub>6</sub> and the Cell Permeability of Bimodal Peptide Nucleic Acids  
**Citation** ACS Omega, 6(30), 19757-19770.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acsomega.1c02451>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6207>  
**Date of Publication** 2021-08

**Author(s)** BORA, PRERONA; MANNA, SUMAN; NAIR, MRUTYUNJAY; SATHE, RUPALI R. M.; SINGH, SHUBHAM; ADURY, VENKATA SAI SREYAS; Gupta, Kavya; MUKHERJEE, ARNAB; Saini, Deepak K.; KAMAT, SIDDHESH S.; HAZRA, AMRITA B.; CHAKRAPANI, HARINATH  
**Title** Leveraging an Enzyme/ Artificial Substrate System to Enhance Cellular Persulfides and Mitigate Neuroinflammation  
**Citation** Chemical Science.  
**Publisher** Royal Society of Chemistry  
**URI** <https://doi.org/10.1039/D1SC03828A>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6206>  
**Date of Publication** 2021-08

**Author(s)** CHIBDE, PURVA; RAUT, RAVINDRA K.; KUMAR, VIKAS; DEB, RAHUL; Gonnade, Rajesh; MAJUMDAR, MOUMITA  
**Title** Intramolecularly Double-Donor-Stabilized Stannylene and Its Coordination towards Ag(I) and Au(I) Centers  
**Citation** Chemistry-An Asian Journal, 16(15), 2118-2125.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1002/asia.202100523>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6056>  
**Date of Publication** 2021-08

[Go to top](#)

**Author(s)** Dey, Amrita; KSHIRSAGAR, ANURAJ S.; NAG, ANGSHUMAN et al.  
**Title** State of the Art and Prospects for Halide Perovskite Nanocrystals  
**Citation** ACS Nano, 15(7), 10775-10981.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acsnano.0c08903>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6202>  
**Date of Publication** 2021-07

**Author(s)** DUTTA, SUBHAJIT; LET, SUMANTA; SHARMA, SHIVANI; MAHATO, DEBANJAN; GHOSH, SUJIT K.  
**Title** Recognition and Sequestration of Toxic Inorganic Water Pollutants with Hydrolytically Stable Metal-Organic Frameworks  
**Citation** Chemical Record, 21(7), 1666-1680.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1002/tcr.202100127>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6061>  
**Date of Publication** 2021-07

**Author(s)** DUTTA, TANIYA; SHEIKH, TARIQ; NAG, ANGSHUMAN  
**Title** Temperature-Dependent Photoluminescence of Hexafluorobenzene-Intercalated Phenethylammonium Tin Iodide 2D Perovskite  
**Citation** Chemistry-An Asian Journal.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1002/asia.202100755>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6214>  
**Date of Publication** 2021-08

**Author(s)** GUPTA, RISHABH; PAITHANKAR, HARSHAD; CHUGH, JEETENDER; BOOMISHANKAR, RAMAMOORTHY  
**Title** Construction of Entropically Favored Supramolecular Metal-Ligand Trimeric Assemblies Supported by Flexible Pyridylaminophosphorus(V) Scaffolds  
**Citation** Inorganic Chemistry, 60(14), 10468-10477.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acs.inorgchem.1c01086>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6138>  
**Date of Publication** 2021-07

[Go to top](#)

**Author(s)** KULKARNI, PRADNYA; DATTA, DHRUBAJYOTI; Ramabhadran, Raghunath O.; GANESH, KRISHNA  
**Title** Gem-dimethyl peptide nucleic acid ( $\alpha/\beta/\gamma$ -gdm-PNA) monomers: synthesis and the role of gdm-substituents in preferential stabilisation of Z/E-rotamers  
**Citation** Organic & Biomolecular Chemistry, 19(29), 6534-6545.  
**Publisher** Royal Society of Chemistry  
**URI** <https://doi.org/10.1039/D1OB01097B>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6142>  
**Date of Publication** 2021-08

**Author(s)** MONDAL, ABHISHEK; MALLA, JAVID AHMAD; PAITHANKAR, HARSHAD; Sharma, Shilpy; CHUGH, JEETENDER; TALUKDAR, PINAKI  
**Title** A Pyridyl-Linked Benzimidazolyl Tautomer Facilitates Prodigious H<sup>+</sup>/Cl<sup>-</sup> Symport through a Cooperative Protonation and Chloride Ion Recognition  
**Citation** Organic Letters, 23(15), 6131-6136.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acs.orglett.1c02235>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6201>  
**Date of Publication** 2021-08

**Author(s)** PANDEY, SHALINI; SHARMA, VIRENDER KUMAR; BISWAS, ANKUR; LAHIRI, MAYURIKA; Basu, Sudipta  
**Title** Small molecule-mediated induction of endoplasmic reticulum stress in cancer cells  
**Citation** RSC Medicinal Chemistry.  
**Publisher** Royal Society of Chemistry  
**URI** <https://doi.org/10.1039/D1MD00095K>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6219>  
**Date of Publication** 2021-07

**Author(s)** REDDY, MULLAPUDI MOHAN; BATHLA, PUNITA; SANDANARAJ, BRITTO S.  
**Title** A Universal Chemical Method for Rational Design of Protein-Based Nanoreactors  
**Citation** ChemBioChem.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1002/cbic.202100315>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6164>  
**Date of Publication** 2021-08



**Author(s)** Roa, Karina; Tapiero, Yesid; THOTIYL, MUSTHAFA OTTAKAM; Sanchez, Julio  
**Title** Hydrogels Based on Poly([2-(acryloxy)ethyl] Trimethylammonium Chloride) and Nanocellulose Applied to Remove Methyl Orange Dye from Water  
**Citation** Polymers, 13(14), 2265.  
**Publisher** MDPI  
**URI** <https://doi.org/10.3390/polym13142265>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6136>  
**Date of Publication** 2021-07

**Author(s)** ROY, DEBASHREE; RAJENDRA, RANGUWAR; Tripathi, Shalini; BALLAV, NIRMALYA  
**Title** Controlling the Aspect Ratios of Au Nanocrystals with Ag<sup>+</sup> Addition Time in Seed-Mediated Synthesis: Implications for Surface-Enhanced Raman Scattering  
**Citation** ACS Applied Nano Materials, 4(7), 7426-7434.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acsanm.1c01345>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6144>  
**Date of Publication** 2021-07

**Author(s)** SEN, ARUNABHA; DUTTA, SUBHAJIT; DAM, GOURAB K.; SAMANTA, PARTHA; LET, SUMANTA; SHARMA, SHIVANI; Shirolkar, Mandar M.; GHOSH, SUJIT K  
**Title** Imidazolium-Functionalized Chemically Robust Ionic Porous Organic Polymers (iPOPs) toward Toxic Oxo-Pollutants Capture from Water  
**Citation** Chemistry-A European Journal.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1002/chem.202102399>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6172>  
**Date of Publication** 2021-08

**Author(s)** SEN, ARUNABHA; SHARMA, SHIVANI; DUTTA, SUBHAJIT; Shirolkar, Mandar M.; DAM, GOURAB K.; LET, SUMANTA; GHOSH, SUJIT K.  
**Title** Functionalized Ionic Porous Organic Polymers Exhibiting High Iodine Uptake from Both the Vapor and Aqueous Medium  
**Citation** ACS Applied Materials & Interfaces, 13(29), 34188-34196.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acсами.1c07178>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6156>  
**Date of Publication** 2021-07

**Author(s)** SHARMA, SHIVANI; DUTTA, SUBHAJIT; DAM, GOURAB K.; GHOSH, SUJIT K.  
**Title** Neutral Nitrogen Donor Ligand-based MOFs for Sensing Applications  
**Citation** Chemistry-An Asian Journal.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1002/asia.202100638>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6200>  
**Date of Publication** 2021-07

**Author(s)** SHARMA, SHIVANI; Mukherjee, Soumya; DESAI, AAMOD V.; Vandichel, Matthias; DAM, GOURAB K.; JADHAV, ASHWINI; Kociok-Köhn, Gabriele; Zaworotko, Michael J.; GHOSH, SUJIT K.  
**Title** Efficient Capture of Trace Acetylene by an Ultramicroporous Metal-Organic Framework with Purine Binding Sites  
**Citation** Chemistry of Materials, 33(14), 5800-5808.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acs.chemmater.1c01723>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6154>  
**Date of Publication** 2021-07

## Earth and Climate Science

**Author(s)** SARIN, T. S.; VINOJ, V.; SWAIN, D.; LANDU, K.; ETTAMMAL, SUHAS  
**Title** Aerosol Induced Changes in Sea Surface Temperature Over the Bay of Bengal Due to COVID-19 Lockdown  
**Citation** Frontiers in Marine Science.  
**Publisher** Frontiers Media S.A.  
**URI** <https://doi.org/10.3389/fmars.2021.648566>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6220>  
**Date of Publication** 2021-08

## Humanities and Social Sciences

**Author(s)** PAI, VENKETESWARA R.; SRIRAM, M. S.  
**Title** Nearest-Integer Continued Fractions in Drkkaaraoa  
**Citation** Ganita Bharati: Bulletin of the Indian Society for History of Mathematics, 41(1-2).  
**Publisher** Prints Publications Pvt Ltd  
**URI** <https://doi.org/10.32381/GB.2019.41.1-2.3>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6222>  
**Date of Publication** 2019-12

[Go to top](#)

## MATHEMATICS

**Author(s)** BHAGWAT, CHANDRASHEEL; MONDAL, SUDIPA  
**Title** On the growth of cuspidal cohomology of  $GL_4$   
**Citation** Journal of Number Theory, 228, 162-173.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.int.2021.04.016>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6165>  
**Date of Publication** 2021-11

## PHYSICS

**Author(s)** CMS Collaboration; Sirunyan, A. M.; DUBE, SOURABH; KANSAL, B.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.  
**Title** MUSiC: a model-unspecific search for new physics in proton-proton collisions at  $\sqrt{s} = 13\text{TeV}$   
**Citation** European Physical Journal C, 81(7), 629.  
**Publisher** Springer Nature  
**URI** <https://doi.org/10.1140/epjc/s10052-021-09236-z>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6168>  
**Date of Publication** 2021-07

**Author(s)** CMS Collaboration; Sirunyan, A. M.; DUBE, SOURABH; KANSAL, B.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.  
**Title** Search for long-lived particles using displaced jets in proton-proton collisions at  $\sqrt{s} = 13\text{TeV}$   
**Citation** Physical Review D, 104(1), 012015.  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevD.104.012015>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6174>  
**Date of Publication** 2021-07

**Author(s)** CMS Collaboration; Sirunyan, A. M.; DUBE, SOURABH; KANSAL, B.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.  
**Title** Search for top squarks in final states with two top quarks and several light-flavor jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV  
**Citation** Physical Review D, 104(3).  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevD.104.032006>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6217>  
**Date of Publication** 2021-08

**Author(s)** CMS Collaboration; Sirunyan, A. M.; DUBE, SOURABH; KANSAL, B.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.  
**Title** Search for the rare decay of the W boson into a pion and a photon in proton-proton collisions at  $\sqrt{s} = 13$  TeV  
**Citation** Physics Letters B, 819, 136409.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.physletb.2021.136409>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6159>  
**Date of Publication** 2021-08

**Author(s)** CMS Collaboration; Sirunyan, A. M.; DUBE, SOURABH; KANSAL, B.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.  
**Title** Search for singly and pair-produced leptoquarks coupling to third-generation fermions in proton-proton collisions at  $\sqrt{s} = 13$  TeV  
**Citation** Physics Letters B, 819, 136446.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.physletb.2021.136446>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6160>  
**Date of Publication** 2021-08

**Author(s)** CMS Collaboration; Sirunyan, A. M.; DUBE, SOURABH; KANSAL, B.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.  
**Title** Search for resonant and nonresonant new phenomena in high-mass dilepton final states at  $\sqrt{s} = 13$  TeV  
**Citation** Journal of High Energy Physics, 2021(7).  
**Publisher** Springer Nature  
**URI** [https://doi.org/10.1007/JHEP07\(2021\)208](https://doi.org/10.1007/JHEP07(2021)208)  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6166>  
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[Go to top](#)

**Author(s)** CMS Collaboration; Sirunyan, A. M.; ALPANA, K.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.

**Title** Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at  $\sqrt{s} = 13\text{TeV}$

**Citation** European Physical Journal C, 81(8), 723.

**Publisher** Springer Nature

**URI** <https://doi.org/10.1140/epjc/s10052-021-09472-3>

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**Author(s)** CMS Collaboration; Sirunyan, A. M.; DUBE, SOURABH; KANSAL, B.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.

**Title** Measurement of the azimuthal anisotropy of  $Y(1S)$  and  $Y(2S)$  mesons in PbPb collisions at  $\sqrt{s_{NN}} = 5.02\text{ TeV}$

**Citation** Physics Letters B, 819, 136385.

**Publisher** Elsevier B.V.

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**Author(s)** HOMKAR, SUVIDYAKUMAR; CHAND, BHARAT; RAJPUT, SHATRUHAN SINGH; Gorantla, Sandeep; Das, Tilak; BABAR, ROHIT; PATIL, SHIVPRASAD; Klingeler, Ruediger; NAIR, SUNIL; KABIR, MUKUL; BAJPAI, ASHNA

**Title** Few-Layer  $\text{SrRu}_2\text{O}_6$  Nanosheets as Non-Van der Waals Honeycomb Antiferromagnets: Implications for Two-Dimensional Spintronics

**Citation** ACS Applied Nano Materials.

**Publisher** American Chemical Society

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**Author(s)** JAIN, SACHIN; JOHN, RENJAN RAJAN; MEHTA, ABHISHEK; Nizami, Amin A.; SURESH, ADITHYA

**Title** Momentum space parity-odd CFT 3-point functions

**Citation** Journal of High Energy Physics, 2021(8), 89.

**Publisher** Springer Nature

**URI** [https://doi.org/10.1007/JHEP08\(2021\)089](https://doi.org/10.1007/JHEP08(2021)089)

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**Author(s)** LIGO Scientific Collaboration; Virgo Collaboration; KAGRA Collaboration; Abbott, R.; RAPOL, UMAKANT D.; SOURADEEP, TARUN et al.  
**Title** Upper limits on the isotropic gravitational-wave background from Advanced LIGO and Advanced Virgo's third observing run  
**Citation** Physical Review D, 104(2), 022004.  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevD.104.022004>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6145>  
**Date of Publication** 2021-07

**Author(s)** LIGO Scientific Collaboration; Virgo Collaboration; KAGRA Collaboration; Abbott, R.; RAPOL, UMAKANT D.; SOURADEEP, TARUN et al.  
**Title** Search for anisotropic gravitational-wave backgrounds using data from Advanced LIGO and Advanced Virgo's first three observing runs  
**Citation** Physical Review D, 104(2), 022005.  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevD.104.022005>  
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**Date of Publication** 2021-07

**Author(s)** Maiti, Tanmay; Agarwal, Pooja; Purkait, Suvankar; SREEJITH, G. J.; Das, Sourin; Biasiol, Giorgio; Sorba, Lucia; Karmakar, Biswajit  
**Title** Temperature-dependent equilibration of spin orthogonal quantum Hall edge modes  
**Citation** Physical Review B, 104(8), 085304.  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevB.104.085304>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6153>  
**Date of Publication** 2021-08

**Author(s)** MERULIYA, VIRAJ; MUKHI, SUNIL  
**Title** AdS<sub>3</sub> gravity and RCFT ensembles with multiple invariants  
**Citation** Journal of High Energy Physics, 2021(8), 98.  
**Publisher** Springer Nature  
**URI** [https://doi.org/10.1007/JHEP08\(2021\)098](https://doi.org/10.1007/JHEP08(2021)098)  
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[Go to top](#)

**Author(s)** NAIR, SREEJITH; VARDARAJAN, SUNEETA  
**Title** Black hole black string phase transition in Einstein-Gauss-Bonnet gravity  
**Citation** Physical Review D, 104(4), 044042.  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevD.104.044042>  
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**Date of Publication** 2021-08

**Author(s)** PATTANAYAK, NAMRATA; KUMAR, JITENDER; PATRA, PARTHA PRATIM; KUMAR, G. V. PAVAN; BAJPAI, ASHNA  
**Title** Signatures of spin-phonon coupling in hematite crystallites through dielectric and Raman spectroscopy  
**Citation** Europhysics Letters, 134(4).  
**Publisher** IOP Publishing  
**URI** <https://doi.org/10.1209/0295-5075/134/47003>  
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**Author(s)** Saha, Rafikul Ali; BANDYOPADHYAY, ABHISEK; Schiesaro, Irene; Bera, Arnab; Mondal, Mintu; Meneghini, Carlo; Ray, Sugata  
**Title** Colossal electroresistance response accompanied by metal-insulator transition in a mixed-valent vanadate  
**Citation** Physical Review B, 104(4), 045149.  
**Publisher** American Physical Society  
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**Author(s)** SAURABH, KUMAR; KUMAR, ANKIT; GHOSH, PRASENJIT; SINGH, SURJEET  
**Title** Low thermal conductivity and semimetallic behavior in some TiNiSi structure-type compounds  
**Citation** Physical Review Material, 5(8).  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevMaterials.5.085406>  
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[Go to top](#)

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