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Monthly Bulletin of Publications:  
Faculty, Scientists and Students of IISER Pune.  
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# BIOLOGY

**Author(s)** Britz, Ralf; DAHANUKAR, NEELESH; Anoop, V. K.; Philip, Siby; Clark, Brett; Raghavan, Rajeev; Ruber, Lukas

**Title** Aenigmachannidae, a new family of snakehead fishes (Teleostei: Channoidei) from subterranean waters of South India

**Citation** Scientific Reports, 10.

**Publisher** Springer Nature

**URI** <https://doi.org/10.1038/s41598-020-73129-6>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5331>

**Date of Publication** 2020-10

**Author(s)** GROTH, CASPER; VAID, POOJA; KHATPE, ADITI; PRASHALI, NELCHI; AHIYA, AVANTIKA; CHAKLADAR, MADHUMITA; NAGARKAR, SANKET; PAUL, RACHEL; KELKAR, DEVAKI; SHASHIDHARA, L. S. et al.

**Title** Genome-Wide Screen for Context-Dependent Tumor Suppressors Identified Using in Vivo Models for Neoplasia in Drosophila

**Citation** G3-Genes Genomes Genetics, 10(9), 2999-3008.

**Publisher** Genetics Society America

**URI** <https://doi.org/10.1534/g3.120.401545>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5092>

**Date of Publication** 2020-09

**Author(s)** HARNE, SHRIKANT; GAYATHRI, PANANGHAT; Béven, Laure

**Title** Exploring Spiroplasma Biology: Opportunities and Challenges

**Citation** Frontiers in Microbiology.

**Publisher** Frontiers Media S.A.

**URI** <https://doi.org/10.3389/fmicb.2020.589279>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5326>

**Date of Publication** 2020-10

**Author(s)** JOSHI, GAURAV; Eberhardt, Alexander Otto; Lange, Lisa; Winkler, René; Hoffmann, Steve; Kosan, Christian; Bierhoff, Holger

**Title** Dichotomous Impact of Myc on rRNA Gene Activation and Silencing in B Cell Lymphomagenesis

**Citation** Cancers, 12(10).

**Publisher** MDPI

**URI** <https://doi.org/10.3390/cancers12103009>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5243>

**Date of Publication** 2020-10

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**Author(s)** KHETAN, NEHA; ATHALE, CHAITANYA A.  
**Title** Aster swarming by symmetry breaking of cortical dynein transport and coupling kinesins  
**Citation** Soft Matter, 16(37), 8554-8564.  
**Publisher** Royal Society of Chemistry  
**URI** <https://doi.org/10.1039/D0SM01086C>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5133>  
**Date of Publication** 2020-10

**Author(s)** KUMAR, AMIT; KONDHARE, KIRTIKUMAR R.; MALANKAR, NILAM N.; BANERJEE, ANJAN  
**Title** StE(z)2, a Polycomb group methyltransferase and deposition of H<sub>3</sub>K27me3 and H3K4me3 regulate the expression of tuberization genes in potato  
**Citation** Journal of Experimental Botany.  
**Publisher** Oxford University Press  
**URI** <https://doi.org/10.1093/jxb/eraa468>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5132>  
**Date of Publication** 2020-10

**Author(s)** Lam, S. D.; SEN,N. et al.  
**Title** SARS-CoV-2 spike protein predicted to form complexes with host receptor protein orthologues from a broad range of mammals  
**Citation** Scientific Reports, 10.  
**Publisher** Springer Nature  
**URI** <https://doi.org/10.1038/s41598-020-71936-5>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5330>  
**Date of Publication** 2020-10

**Author(s)** NAGARKAR, SANKET; WASNIK, RUCHI; GOVADA, PRAVALLIKA; Cohen, Stephen; SHASHIDHARA, L. S.  
**Title** Promoter Proximal Pausing Limits Tumorous Growth Induced by the Yki Transcription Factor in Drosophila  
**Citation** Genetics, 216(1), 67-77.  
**Publisher** Genetics Society of America  
**URI** <https://doi.org/10.1534/genetics.120.303419>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5086>  
**Date of Publication** 2020-09

**Author(s)** Sidharthan, Arya; Raghavan, Rajeev; Anoop, Vasudevan Komalavally; Philip, Siby; DAHANUKAR, NEELESH  
**Title** Riddle on the riffle: Miocene diversification and biogeography of endemic mountain loaches in the Western Ghats Biodiversity Hotspot  
**Citation** Journal of Biogeography.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1111/jbi.13972>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5134>  
**Date of Publication** 2020-10

## CHEMISTRY

**Author(s)** BHANDARI, PAVANKUMAR JANARDHAN; SANDANARAJ, BRITTO  
**Title** Programmed and Sequential Disassembly of Multi-Responsive Supramolecular Protein Nanoassemblies: A Detailed Mechanistic Investigation  
**Citation** ChemBioChem.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1002/cbic.202000581>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5241>  
**Date of Publication** 2020-10

**Author(s)** CHAKRABORTY, DEBANJAN; NANDI, SHYAMAPADA; MAITY, RAHUL; Motkuri, Radha Kishan; Han, Kee Sung; Collins, Sean; Humble, Paul; Hayes, James C.; Woo, Tom K.; VAIDHYANATHAN, RAMANATHAN; Thallapally, Praveen K.  
**Title** An Ultra-Microporous Metal-Organic Framework with Exceptional Xe Capacity  
**Citation** Chemistry-A European Journal, 26(55), 12544-12548.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1002/chem.202002331>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5087>  
**Date of Publication** 2020-10

**Author(s)** GHOSH, BAPPA; Sarabadani, Jalal; CHAUDHURY, SRABANTI; Ala-Nissila, Tapio  
**Title** Pulling a folded polymer through a nanopore  
**Citation** Journal of Physics: Condensed Matter, 33(1).  
**Publisher** IOP Publishing  
**URI** <https://doi.org/10.1088/1361-648X/abb687>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5253>  
**Date of Publication** 2021-01

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**Author(s)** GUPTA, KRITI; Dadwal, Arun; NINAWA, PRANAY; Joy, Pattayil A.; BALLAV, NIRMALYA  
**Title** Integrating Structurally Perfect S=1/2 Kagome-Lattice with Reduced Graphene Oxide  
**Citation** Journal of Physical Chemistry C, 124(36), 19753-19759.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acs.jpcc.0c06564>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5094>  
**Date of Publication** 2020-09

**Author(s)** KUSHWAHA, RINKU; KALEESWARAN, DHANANJAYAN; HALDAR, SATTWICK; CHAKRABORTY, DEBANJAN; MULLANGI, DINESH; Borah, Aditya; Vinod, Chathakudath P.; Murugavel, Ramaswamy; VAIDHYANATHAN, RAMANATHAN  
**Title** Nanoporous Covalent Organic Framework Embedded with Fe/Fe<sub>3</sub>O<sub>4</sub> Nanoparticles as Air-Stable Low-Density Nanomagnets  
**Citation** ACS Applied Nano Materials, 3(9), 9088-9096.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acsanm.0c01762>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5247>  
**Date of Publication** 2020-09

**Author(s)** MONDAL, KINJAL; CHAUDHURY, SRABANTI  
**Title** A theoretical study of the role of bulk crowders on target search dynamics of DNA binding proteins  
**Citation** Journal of Statistical Mechanics: Theory and Experiment, 2020.  
**Publisher** IOP Publishing  
**URI** <https://doi.org/10.1088/1742-5468/abb019>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5085>  
**Date of Publication** 2020-09

**Author(s)** NAWALE, VAIBHAV V.; SHEIKH, TARIQ; NAG, ANGSHUMAN  
**Title** Dual Excitonic Emission in Hybrid 2D Layered Tin Iodide Perovskites  
**Citation** Journal of Physical Chemistry C, 124(38), 21129-21136.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acs.jpcc.0c05301>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5246>  
**Date of Publication** 2020-09

**Author(s)** Patel, Ketan; Chikkali, Samir H.; SIVARAM, SWAMINATHAN  
**Title** Ultrahigh molecular weight polyethylene: Catalysis, structure, properties, processing  
**Citation** Progress in Polymer Science, 109.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.progpolymsci.2020.101290>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5095>  
**Date of Publication** 2020-10

**Author(s)** RAJPUT, SHATRUHAN SINGH; DEOPA, SURYA PRATAP S.; YADAV, JYOTI; AHLAWAT, VIKHYAAT; Talele, Saurabh; PATIL, SHIVPRASAD  
**Title** The nano-scale viscoelasticity using atomic force microscopy in liquid environment  
**Citation** Nanotechnology  
**Publisher** IOP Publishing  
**URI** <https://doi.org/10.1088/1361-6528/abc5f3>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5338>  
**Date of Publication** 2020-10

**Author(s)** Velappan, Anand Babu; DATTA, DHRUBAJYOTI; Ma, Rui; Rana, Shiwani; Ghosh, Kalyan Sundar; Hari, Natarajan; Franzblau, Scott G.; Debnath, Joy  
**Title** 2-Aryl benzazole derived new class of anti-tubercular compounds: Endowed to eradicate mycobacterium tuberculosis in replicating and non-replicating forms  
**Citation** Bioorganic Chemistry, 103.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.bioorg.2020.104170>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5249>  
**Date of Publication** 2020-10

**Author(s)** WALUNJ, MANISHA B.; SRIVATSAN, SEERGAZHI G.  
**Title** Nucleic Acid Conformation Influences Postsynthetic Suzuki-Miyaura Labeling of Oligonucleotides  
**Citation** Bioconjugate Chemistry.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acs.bioconjchem.0c00466>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5328>  
**Date of Publication** 2020-10

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# EARTH AND CLIMATE SCIENCE

- Author(s)** BANERJEE, ARGHA  
**Title** Volume-area scaling for debris-covered glaciers  
**Citation** Journal of Glaciology, 66(259), 880-886.  
**Publisher** Cambridge University Press  
**URI** <https://doi.org/10.1017/jog.2020.69>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5088>  
**Date of Publication** 2020-10
- Author(s)** BANERJEE, ARGHA; PATIL, DISHA; JADHAV, AJINKYA  
**Title** Possible biases in scaling-based estimates of glacier change: a case study in the Himalaya  
**Citation** The Cryosphere, 14, 3235-3247.  
**Publisher** European Geosciences Union  
**URI** <https://doi.org/10.5194/tc-14-3235-2020>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5089>  
**Date of Publication** 2020-09
- Author(s)** Fernández-Blanco, David; MANNU, UTSAV; Cassola, Teodoro; Bertotti, Giovanni; Willett, Sean D.  
**Title** Sedimentation and viscosity controls on forearc high growth  
**Citation** Basin Research.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1111/bre.12518>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5097>  
**Date of Publication** 2020-10
- Author(s)** Konecky, Bronwen L.; MANAGAVE, SHREYAS R. et al.  
**Title** The Iso2k database: a global compilation of paleo-delta O-18 and delta H-2 records to aid understanding of Common Era climate  
**Citation** Earth System Science Data, 12, 2261-2288.  
**Publisher** Copernicus Publications  
**URI** <https://doi.org/10.5194/essd-12-2261-2020>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5250>  
**Date of Publication** 2020-09

## MATHEMATICS

**Author(s)** JOSHI, ROHIT; SPALLONE, STEVEN  
**Title** Spinoriality of orthogonal representations of reductive groups  
**Citation** Representation Theory, 24, 435-469.  
**Publisher** American Mathematical Society  
**URI** <https://doi.org/10.1090/ert/552>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5129>  
**Date of Publication** 2020-09

## PHYSICS

**Author(s)** Abbott, R.; RAPOL, U.D.; SOURADEEP, TARUN et al.  
**Title** Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars  
**Citation** Astrophysical Journal Letters, 902(1).  
**Publisher** IOP Publishing  
**URI** <https://doi.org/10.3847/2041-8213/abb655>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5332>  
**Date of Publication** 2020-10

**Author(s)** ANANTH, SUDARSHAN; Lechtenfeld, Olaf; Malcha, Hannes; Nicolai, Hermann; PANDEY, CHETAN; PANT, SAURABH  
**Title** Perturbative linearization of supersymmetric Yang-Mills theory  
**Citation** Journal of High Energy Physics, 2020(10).  
**Publisher** Springer  
**URI** [https://doi.org/10.1007/JHEP10\(2020\)199](https://doi.org/10.1007/JHEP10(2020)199)  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5336>  
**Date of Publication** 2020-10

**Author(s)** Ben Ltaief, L.; Shcherbinin, M.; MANDAL, S.; Krishnan, S. R.; Richter, R.; Pfeifer, T.; Mudrich, M.  
**Title** Direct inner-shell photoionization of Xe atoms embedded in helium nanodroplets  
**Citation** Journal of Physics B: Atomic, Molecular and Optical Physics, 53(20).  
**Publisher** IOP Publishing  
**URI** <https://doi.org/10.1088/1361-6455/abaafb>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5090>  
**Date of Publication** 2020-09

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**Author(s)** CMS Collaboration; Sirunyan, A. M.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; SHARMA, S.  
**Title** Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and pp Collisions at  $\sqrt{s_{NN}}=5.02\text{TeV}$   
**Citation** Physical Review Letters, 125(10).  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevLett.125.102001>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5251>  
**Date of Publication** 2020-09

**Author(s)** CMS Collaboration; Sirunyan, A. M.; DUBE, S.; KANSAL, B.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S.  
**Title** Observation of the  $B_s^0 \rightarrow X(3872)\phi$  Decay  
**Citation** Physical Review Letters, 125(15).  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevLett.125.152001>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5252>  
**Date of Publication** 2020-10

**Author(s)** CMS Collaboration; Sirunyan, A. M.; DUBE, S.; KANSAL, B.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S.  
**Title** Search for supersymmetry in proton-proton collisions at  $\sqrt{s} = 13$  TeV in events with high-momentum Z bosons and missing transverse momentum  
**Citation** Journal of High Energy Physics, 2020(9).  
**Publisher** Springer  
**URI** [https://doi.org/10.1007/JHEP09\(2020\)149](https://doi.org/10.1007/JHEP09(2020)149)  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5254>  
**Date of Publication** 2020-09

**Author(s)** CMS Collaboration; Sirunyan, A. M.; DUBE, S.; KANSAL, B.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S.  
**Title** Reconstruction of signal amplitudes in the CMS electromagnetic calorimeter in the presence of overlapping proton-proton interactions  
**Citation** Journal of Instrumentation, 15(10).  
**Publisher** IOP Publishing  
**URI** <https://doi.org/10.1088/1748-0221/15/10/P10002>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5334>  
**Date of Publication** 2020-10

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

**Title** Measurement of CKM matrix elements in single top quark t-channel production in proton-proton collisions at  $\sqrt{s} = 13$  TeV

**Citation** Physics Letters B, 808.

**Publisher** Elsevier B.V.

**URI** <https://doi.org/10.1016/j.physletb.2020.135609>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5130>

**Date of Publication** 2020-09

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

**Title** Measurement of the  $Y(1S)$  pair production cross section and search for resonances decaying to  $Y(1S)\mu^+\mu^-$  in proton-proton collisions at  $\sqrt{s} = 13$  TeV

**Citation** Physics Letters B, 808.

**Publisher** Elsevier B.V.

**URI** <https://doi.org/10.1016/j.physletb.2020.135578>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5131>

**Date of Publication** 2020-09

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

**Title** Observation of the Production of Three Massive Gauge Bosons at  $\sqrt{s}=13$ TeV

**Citation** Physical Review Letters, 125(15).

**Publisher** American Physical Society

**URI** <https://doi.org/10.1103/PhysRevLett.125.151802>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5244>

**Date of Publication** 2020-10

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

**Title** Search for a light charged Higgs boson in the  $H^\pm \rightarrow cs$  channel in proton-proton collisions at  $\sqrt{s}=13$  TeV

**Citation** Physical Review D, 102(7).

**Publisher** American Physical Society

**URI** <https://doi.org/10.1103/PhysRevD.102.072001>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5245>

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**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** Pileup mitigation at CMS in 13 TeV data  
**Citation** Journal of Instrumentation, 15(9).  
**Publisher** IOP Publishing  
**URI** <https://doi.org/10.1088/1748-0221/15/09/P09018>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5335>  
**Date of Publication** 2020-09

**Author(s)** MANDAL, R.; Hirsbrunner, M.; Roddatis, V.; Gruhl, R.; Schueler, L.; Ross, U; Merten, S.; Gegenwart, P; Moshnyaga, V.  
**Title** Strain-driven structure-ferroelectricity relationship in hexagonal TbMnO<sub>3</sub> films  
**Citation** Physical Review B, 102(10).  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevB.102.104106>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5091>  
**Date of Publication** 2020-09

**Author(s)** Mote, Ridim D.; YADAV, JYOTI; Singh, Surya Bansi; Tiwari, Mahak; Shinde Laxmikant V.; PATIL, SHIVPRASAD; Subramanyam, Deepa  
**Title** Pluripotency of embryonic stem cells lacking clathrin mediated endocytosis cannot be rescued by restoring cellular stiffness  
**Citation** Journal of Biological Chemistry.  
**Publisher** American Society for Biochemistry and Molecular Biology  
**URI** <https://doi.org/10.1074/jbc.AC120.014343>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5333>  
**Date of Publication** 2020-10

**Author(s)** RAJPUT, SHATRUHAN SINGH; DEOPA, SURYA PRATAP S.; YADAV, JYOTI; AHLAWAT, VIKHYAAT; Talele, Saurabh; PATIL, SHIVPRASAD  
**Title** The nano-scale viscoelasticity using atomic force microscopy in liquid environment  
**Citation** Nanotechnology  
**Publisher** IOP Publishing  
**URI** <https://doi.org/10.1088/1361-6528/abc5f3>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5338>  
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**Author(s)** SHARMA, GAUTAM; DATTA, SHOUVIK; GHOSH, PRASENJIT  
**Title** First Principles Investigations of Structural, Electronic and Transport Properties of  $\text{Bi}_3/\text{ZrS}_2$  van der Waals Heterostructure: A Thermoelectric Perspective  
**Citation** Journal of Electronic Materials.  
**Publisher** Springer Nature  
**URI** <https://doi.org/10.1007/s11664-020-08479-y>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5327>  
**Date of Publication** 2020-10

**Author(s)** SHARMA, MAYANK; BHATTACHARYAY, ARIJIT  
**Title** Conversion of heat to work: An efficient inchworm  
**Citation** Physica Scripta, 95(10).  
**Publisher** IOP Publishing  
**URI** <https://doi.org/10.1088/1402-4896/abb49b>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5093>  
**Date of Publication** 2020-10

**Author(s)** SRIKARA, S.; Thapliyal, Kishore; Pathak, Anirban  
**Title** Continuous variable  $B_{92}$  quantum key distribution protocol using single photon added and subtracted coherent states  
**Citation** Quantum Information Processing, 19(10).  
**Publisher** Springer Nature  
**URI** <https://doi.org/10.1007/s11128-020-02872-6>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5329>  
**Date of Publication** 2020-10

**Author(s)** Yadav, Ravindra Kumar; Liu, Wenxiao; Indukuri, S. R. K. Chaitanya; VASISTA, ADARSH B.; KUMAR, G. V. PAVAN; Agarwal, Girish S.; Basu, Jaydeep Kumar  
**Title** Observation of photonic spin-momentum locking due to coupling of achiral metamaterials and quantum dots  
**Citation** Journal of Physics-Condensed Matter, 33(1).  
**Publisher** IOP Publishing  
**URI** <https://doi.org/10.1088/1361-648X/abb650>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5248>  
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