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

Inventor/Creator BRITTO, SANDANARAJ S.; BHANDARI, PAVANKUMAR JANARDHAN; REDDY, MULLAPUDI MOHAN
Title Generation-Dependent Supramolecular Assemblies of Protein-Dendron Conjugates
Patent No. US20210163916A1
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5943>
Date of Publication 2021-06-03

BIOLOGY

Author(s) CHAVHAN, YASHRAJ; MALUSARE, SARTHAK; DEY, SUTIRTH
Title Interplay of population size and environmental fluctuations: A new explanation for fitness cost rarity in asexuals
Citation Ecology Letters.
Publisher Wiley
URI <https://doi.org/10.1111/ele.13831>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5993>
Date of Publication 2021-06

Author(s) JACOB, TRESSA; CHAKRAVARTY, ANTARA; Panchal, Ankita; PATIL, MANJIRI; Ghodadra, Gautami; SUDHAKARAN, JYOTISH; Nuesslein-Volhard, Christiane
Title Zebrafish twist2/dermo1 regulates scale shape and scale organization during skin development and regeneration
Citation Cells & Development, 166, 203684.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.cdev.2021.203684>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5977>
Date of Publication 2021-06

Author(s) KHETAN, NEHA; Pruliere, Gerard; Hebras, Celine; Chenevert, Janet; ATHALE, CHAITANYA A.
Title Self-organized optimal packing of kinesin-5-driven microtubule asters scales with cell size
Citation Journal of Cell Science, 134(10)
Publisher The Company of Biologists
URI <https://doi.org/10.1242/jcs.257543>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5992>
Date of Publication 2021-06

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Author(s) MOHANASUNDARAM, BOOMINATHAN; BHIDE, AMEY J.; PALIT, SHIRSA; CHATURVEDI, GARGI; Lingwan, Maneesh; Masakapalli, Shyam Kumar; BANERJEE, ANJAN K.

Title The unique bryophyte-specific repeat-containing protein SHORT-LEAF regulates gametophore development in moss

Citation Plant Physiology.

Publisher Oxford University Press

URI <https://doi.org/10.1093/plphys/kiab261>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5934>

Date of Publication 2021-06

Author(s) Paul, Rachel; KHAN, SOUMEN; SHASHIDHARA, L. S. et al.

Title Hox dosage contributes to flight appendage morphology in Drosophila

Citation Nature Communications, 12, 2892.

Publisher Springer Nature

URI <https://doi.org/10.1038/s41467-021-23293-8>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5994>

Date of Publication 2021-06

Author(s) PUCADYIL, THOMAS J.; Kulkarni, Kiran; Sengupta, Durba

Title Molecular Interplay at the Membrane and Impact on Cellular Physiology

Citation Journal of Membrane Biology, 254, 239-242.

Publisher Springer Nature

URI <https://doi.org/10.1007/s00232-021-00183-0>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5919>

Date of Publication 2020-05

Author(s) Sagarkar, Sneha; Choudhary, Amit G.; Balasubramanian, Nagalakshmi; Awathale, Sanjay N.; Somalwar, Amita R.; Pawar, Namrata; Kokare, Dadasaheb M.; SUBHEDAR, NISHIKANT K.; Sakharkar, Amul J.

Title LSD1-BDNF activity in lateral hypothalamus-medial forebrain bundle area is essential for reward seeking behavior

Citation Progress in Neurobiology, 202, 102048.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.pneurobio.2021.102048>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5957>

Date of Publication 2021-07

Author(s) Yadav, Pragma D.; GOPAL, ANJANI et al.
Title An Epidemiological Analysis of SARS-CoV-2 Genomic Sequences from Different Regions of India
Citation Viruses, 13(5).
Publisher MDPI
URI <https://doi.org/10.3390/v13050925>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5938>
Date of Publication 2021-05

Author(s) ZADEY, SIDDHESH; Buss, Stephanie S.; McDonald, Katherine; Press, Daniel Z.; Pascual-Leone, Alvaro; Fried, Peter J.
Title Higher motor cortical excitability linked to greater cognitive dysfunction in Alzheimer's disease: results from two independent cohorts
Citation Neurobiology of Aging.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.neurobiolaging.2021.06.007>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5978>
Date of Publication 2021-06

CHEMISTRY

Author(s) Ambalkar, Anuradha A.; Kawade, Ujjwala, V.; Sethi, Yogesh A.; KANADE, SANDIP C.; Kulkarni, Milind, V.; Adhyapak, Parag, V.; Kale, Bharat B.
Title A nanostructured SnO₂/Ni/CNT composite as an anode for Li ion batteries
Citation RSC Advances, 11(32), 19531-19540.
Publisher Royal Society of Chemistry
URI <https://doi.org/10.1039/d1ra01678d>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5980>
Date of Publication 2021-06

Author(s) BASAVARAJAPPA, ASHOKKUMAR; AMBHORE, MADAN D.; ANAND, V. G.
Title Three dimensional isophlorinoid tetrapodal molecular cage
Citation Chemical Communications, 57(35), 4299-4302.
Publisher Royal Society of Chemistry
URI <https://doi.org/10.1039/D1CC01002F>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5918>
Date of Publication 2021-05

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Author(s) BHANDARI, PAVANKUMAR JANARDHAN; REDDY, MULLAPUDI MOHAN; RAO, KASULADEVU JEGANNADHA; SANDANARAJ, BRITTO S.
Title Rapid Chemical Synthesis of Self-Assembling Semi-Synthetic Proteins
Citation Journal of Organic Chemistry.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.joc.1c00195>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5961>
Date of Publication 2021-06

Author(s) GUPTA, PRACHI; ANAND, V. G.
Title Symmetric 32 π (1.0.1.0.1.0.1) Core-Modified Heptaphyrins from Asymmetric Building Block
Citation Organic Letters, 23(9), 3481-3485.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.orglett.1c00923>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5917>
Date of Publication 2021-05

Author(s) MUKHERJEE, SOUMYA; GHOSH, SUJIT K.
Title A decade of decoding
Citation Nature Reviews Chemistry.
Publisher Springer Nature
URI <https://doi.org/10.1038/s41570-021-00298-x>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5941>
Date of Publication 2021-06

Author(s) Noy-Porat, Tal; KIKKERI, RAGHAVENDRA et al.
Title Therapeutic antibodies, targeting the SARS-CoV-2 spike N-terminal domain, protect lethally infected K18-hACE2 mice
Citation iScience, 24(5).
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.isci.2021.102479>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5964>
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Author(s) RAJASEKAR, PRABHAKARAN; Swain, Abinash; Rajaraman, Gopalan; BOOMISHANKAR, RAMAMOORTHY
Title Enantiopure Polyradical Tetrahedral Pd₁₂L₆ Cages
Citation Chemistry-A European Journal.
Publisher Wiley
URI <https://doi.org/10.1002/chem.202101239>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5930>
Date of Publication 2021-06

Author(s) SARKAR, SOHINI; BANERJEE, SNEHA; SWARNKAR, ABHISHEK; MANDAL, PANKAJ
Title Effect of Capping Ligand Engineering on Transport Properties and Carrier Dynamics in Cubic CsPbI₃ Nanocrystal Film
Citation Journal of Physical Chemistry C, 125(19), 10539-10548.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.jpcc.1c02350>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5965>
Date of Publication 2021-05

Author(s) SINGH, DIVYA; MONDAL, KINJAL; CHAUDHURY, SRABANTI
Title Effect of Memory and Inertial Contribution on Transition-Time Distributions: Theory and Simulations
Citation Journal of Physical Chemistry B, 125(17), 4536-4545.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.jpcc.1c00173>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5922>
Date of Publication 2021-05

Earth and Climate Science

Author(s) CHATTOPADHYAY, DEVAPRIYA; Sarkar, Deepjay; BHATTACHERJEE, MADHURA
Title The Distribution Pattern of Marine Bivalve Death Assemblage From the Western Margin of Bay of Bengal and Its Oceanographic Determinants
Citation Frontiers in Marine Science.
Publisher Frontiers Media S.A.
URI <https://doi.org/10.3389/fmars.2021.675344>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5931>
Date of Publication 2021-06

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Author(s) DANISH, MOHD; TRIPATHY, GYANA RANJAN; Mitra, Sirsha; ROUT, RAKESH KUMAR; Raskar, Shubhangi
Title Non-conservative removal of dissolved rhenium from a coastal lagoon: Clay adsorption versus biological uptake
Citation Chemical Geology, 580, 120378.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.chemgeo.2021.120378>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5954>
Date of Publication 2021-10

Author(s) Govind, A. Vipin; Behera, Kamalesh; Dash, Jitendra Kumar; Balakrishnan, S.; Bhutani, Rajneesh; MANAGAVE, SHREYAS; Srinivasan, Ramaswamiah
Title Trace element and isotope Geochemistry of Neoproterozoic carbonate rocks from the Dharwar craton, southern India: Implications for depositional environments and mantle influence on ocean chemistry
Citation Precambrian Research, 357, 106137.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.precamres.2021.106137>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5782>
Date of Publication 2021-06

MATHEMATICS

Author(s) BANERJEE, DEBARGHA; Saha, Arnab
Title Differential modular forms over totally real fields of integral weights
Citation Research in Number Theory, 7, 42.
Publisher Springer Nature
URI <https://doi.org/10.1007/s40993-021-00269-7>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5940>
Date of Publication 2021-06

Author(s) Dolfi, Silvio; SINGH, ANUPAM KUMAR; Yadav, Manoj K
Title p-power conjugacy classes in $U(n, q)$ and $T(n, q)$
Citation Journal of Algebra and its Applications, 20(7).
Publisher World Scientific Publishing
URI <https://doi.org/10.1142/S0219498821501218>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5981>
Date of Publication 2021-07

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Author(s) GUPTA, PARUL
Title Four-dimensional quadratic forms over $C((t))(X)$
Citation Archiv der Mathematik.
Publisher Springer Nature
URI <https://doi.org/10.1007/s00013-021-01626-9>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5932>
Date of Publication 2021-06

Author(s) KAUR, YASHPREET; Srinivasan, Varadharaj R.
Title Integration in finite terms: dilogarithmic integrals
Citation Applicable Algebra in Engineering Communication and Computing.
Publisher Springer Nature
URI <https://doi.org/10.1007/s00200-021-00518-3>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5988>
Date of Publication 2021-06

Author(s) MISHRA, MANISH
Title A note on sign of a self-dual representation
Citation Communications in Algebra.
Publisher Taylor & Francis
URI <https://doi.org/10.1080/00927872.2021.1928152>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5956>
Date of Publication 2021-06

Author(s) MISHRA, RAMA; Staffeldt, Ross
Title Polynomial invariants, knot homologies, and higher twist numbers of weaving knots $W(3,n)$
Citation Journal of Knot Theory and Its Ramifications, 30(4).
Publisher World Scientific Publishing
URI <https://doi.org/10.1142/S0218216521500255>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5972>
Date of Publication 2021-04

PHYSICS

Author(s) Abbas, A. H.; Meng, X.; PATIL, R. S.; Ross, J. A.; Truscott, A. G.; Hodgman, S. S.
Title Rapid generation of metastable helium Bose-Einstein condensates
Citation Physical Review A, 103(5).
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevA.103.053317>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5942>
Date of Publication 2021-05

Author(s) Anupam, A. H.; KHAIRNAR, ANIKET; Kundu, Arpan
Title Generalized BMS algebra at timelike infinity
Citation Physical Review D, 103(10).
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevD.103.104030>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5959>
Date of Publication 2021-05

Author(s) Bardhan, Debjyoti; GHOSH, DIPTIMOY; JAIN, PRASHAM; THALAPILLIL, ARUN M.
Title Towards constraining triple gluon operators through tops
Citation Physical Review D, 103(11).
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevD.103.115003>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5970>
Date of Publication 2021-06

Author(s) CMS Collaboration; Sirunyan, A. M.; DUBE, SOURABH; KANSAL, B.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.
Title Measurements of the differential cross sections of the production of Z + jets and γ + jets and of Z boson emission collinear with a jet in pp collisions at $\sqrt{s} = 13$ TeV
Citation Journal of High Energy Physics, 2021(5).
Publisher Springer Nature
URI [https://doi.org/10.1007/JHEP05\(2021\)285](https://doi.org/10.1007/JHEP05(2021)285)
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5969>
Date of Publication 2021-05

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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 Study of Drell-Yan dimuon production in proton-lead collisions at $\sqrt{s_{NN}} = 8.16$ TeV
Citation Journal of High Energy Physics, 2021(5).
Publisher Springer Nature
URI [https://doi.org/10.1007/JHEP05\(2021\)182](https://doi.org/10.1007/JHEP05(2021)182)
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5955>
Date of Publication 2021-05

Author(s) CMS Collaboration; Sirunyan, A. M.; DUBE, SOURABH; KANSAL, B.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.
Title Measurement of the Z boson differential production cross section using its invisible decay mode ($Z \rightarrow \nu\bar{\nu}$) in proton-proton collisions at $\sqrt{s} = 13$ TeV
Citation Journal of High Energy Physics, 2021(5).
Publisher Springer Nature
URI [https://doi.org/10.1007/JHEP05\(2021\)205](https://doi.org/10.1007/JHEP05(2021)205)
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5960>
Date of Publication 2021-05

Author(s) CMS Collaboration; Sirunyan, A. M.; DUBE, SOURABH; KANSAL, B.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.
Title Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s}=13$ TeV
Citation European Physical Journal C, 81(6).
Publisher Springer Nature
URI <https://doi.org/10.1140/epjc/s10052-021-09200-x>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5971>
Date of Publication 2021-06

Author(s) Gadde, Janardhan Rao; KARMAKAR, ANASUYA et al.
Title Two-dimensional ReS₂: Solution to the unresolved queries on its structure and inter-layer coupling leading to potential optical applications
Citation Physical Review Materials, 5(5).
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevMaterials.5.054006>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5929>
Date of Publication 2021-05

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Author(s) GHOSH, DIPTIMOY; SACHDEVA, DIVYA
Title Constraining light dark photons from GW190517_055101 and GW190426_152155
Citation Physical Review D, 103(9).
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevD.103.095028>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5962>
Date of Publication 2021-05

Author(s) Goswami, Partha Pratim; RATHOUR, RAJEEV SINGH; Goswami, Aruna
Title Spectroscopic study of CEMP-(s & r/s) stars: Revisiting classification criteria and formation scenarios, highlighting i-process nucleosynthesis
Citation Astronomy & Astrophysics, 649, A49.
Publisher EDP Sciences
URI <https://doi.org/10.1051/0004-6361/202038258>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5936>
Date of Publication 2021-05

Author(s) Hazra, Soumitra; BAG, RABINDRANATH; SINGH, SURJEET; Kini, Rajeev N.
Title Effect of doping on the pseudogap behaviour and the related terahertz modes in the hybrid chain-ladder compound, $\text{Sr}_{14}\text{Cu}_{24}\text{O}_{41}$
Citation Physics Letters A, 408, 127489.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.physleta.2021.127489>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5953>
Date of Publication 2021-08

Author(s) Kalantar, Na'im; AGARWALLA, BIJAY KUMAR; Segal, Dvira
Title Harmonic chains and the thermal diode effect
Citation Physical Review E, 103(5).
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevE.103.052130>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5935>
Date of Publication 2021-05

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Author(s) Ksoll, P.; MANDAL, R.; Meyer, C.; Schuler, L.; Roddatis, V.; Moshnyaga, V.
Title Emergent double perovskite phase at LaMnO₃/LaNiO₃ interfaces: Coupled charge transfer and structural reconstruction
Citation Physical Review B, 103(19).
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevB.103.195120>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5937>
Date of Publication 2021-05

Author(s) KULKARNI, SUMAN; Capano, Collin D.
Title Reliability of parameter estimates in the first observing run of Advanced LIGO
Citation Physical Review D, 103(10).
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevD.103.104002>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5920>
Date of Publication 2021-05

Author(s) KUMAR, AANJANEYA; Grassberger, Peter; DHAR, DEEPAK
Title Chase-Escape percolation on the 2D square lattice
Citation Physica A-Statistical Mechanics and Its Applications, 577, 126072.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.physa.2021.126072>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5991>
Date of Publication 2021-09

Author(s) LIGO Scientific Collaboration; Virgo Collaboration; KAGRA Collaboration; Abbott, R.; RAPOL, UMAKANT D.; SOURADEEP, TARUN et al.
Title Constraints on Cosmic Strings Using Data from the Third Advanced LIGO-Virgo Observing Run
Citation Physical Review Letters, 126(24), 24112.
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevLett.126.241102>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5974>
Date of Publication 2021-06

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Author(s) LIGO Scientific Collaboration; Virgo Collaboration; KAGRA Collaboration; Abbott, R.; RAPOL, UMAKANT D.; SOURADEEP, TARUN et al.
Title Tests of general relativity with binary black holes from the second LIGO-Virgo gravitational-wave transient catalog
Citation Physical Review D, 103(12), 122002.
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevD.103.122002>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5975>
Date of Publication 2021-06

Author(s) LIGO Scientific Collaboration; Virgo Collaboration; KAGRA Collaboration; Abbott, R.; RAPOL, UMAKANT D.; SOURADEEP, TARUN et al.
Title GWTC-2: Compact Binary Coalescences Observed by LIGO and Virgo during the First Half of the Third Observing Run
Citation Physical Review X, 11(2).
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevX.11.021053>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5976>
Date of Publication 2021-06

Author(s) LIGO Scientific Collaboration; Virgo Collaboration; KAGRA Collaboration; Abbott, R.; RAPOL, UMAKANT D.; SOURADEEP, TARUN et al.
Title Diving below the Spin-down Limit: Constraints on Gravitational Waves from the Energetic Young Pulsar PSR J0537-6910
Citation Astrophysical Journal Letters, 913(2).
Publisher IOP Publishing
URI <https://doi.org/10.3847/2041-8213/abffcd>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5939>
Date of Publication 2021-06

Author(s) MAHAJAN, MANI; SINGLA, GOURAV; OGALE, SATISHCHANDRA
Title Polypyrrole Encapsulated Polyoxomolybdate Decorated MXene As a Functional 2D/3D Nanohybrid for a Robust and High Performance Li-Ion Battery
Citation ACS Applied Energy Materials, 4(5), 4541-4550.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acsaem.1c00175>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5963>
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Author(s) MANDAL, S.; SEN,A.; BAPAT, BHAS et al.
Title Coincident angle-resolved state-selective photoelectron spectroscopy of acetylene molecules: a candidate system for time-resolved dynamics
Citation Faraday Discussions, 228, 242-265.
Publisher Royal Society of Chemistry
URI <https://doi.org/10.1039/d0fd00120a>
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Date of Publication 2021-05

Author(s) PAL, SOHAM; BATRA, PRIYA; Krisnanda, Tanjung; Paterek, Tomasz; MAHESH, T. S.
Title Experimental localisation of quantum entanglement through monitored classical mediator
Citation Quantum, 5, 478.
Publisher Verein zur Forderung des Open Access Publizierens in den Quantenwissenschaften
URI <https://doi.org/10.22331/q-2021-06-17-478>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5987>
Date of Publication 2021-06

Author(s) PARMAR, SWATI; BISWAS, ABHIJIT; Ray, Bishakha; Gosavi, Suresh; Datar, Suwarna; OGALE, SATISHCHANDRA
Title Stabilizing Metastable Polymorphs of van der Waals Solid MoS₂ on Single Crystal Oxide Substrates: Exploring the Possible Role of Surface Chemistry and Structure
Citation Journal of Physical Chemistry C, 125(20), 11216-11224.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.jpcc.1c02303>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5966>
Date of Publication 2021-05

Author(s) Raja, K. Sasikumar; SUBRAMANIAN, PRASAD; INGALE, MADHUSUDAN; Ramesh, R.and; Maksimovic, Milan
Title Turbulent Proton Heating Rate in the Solar Wind from 5-45 R_⊙
Citation Astrophysical Journal, 914(2).
Publisher IOP Publishing
URI <https://doi.org/10.3847/1538-4357/abfcd1>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5989>
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Author(s) Rammohan, S.; Chauhan, A. K.; NATH, REJISH; Eisfeld, A.; Wüster, S.
Title Tailoring Bose-Einstein-condensate environments for a Rydberg impurity
Citation Physical Review A, 103(6).
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevA.103.063307>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5979>
Date of Publication 2021-06

Author(s) Samantaray, Manoja K.; MISHRA, SANDEEP K.; Saidi, Aya; Basset, Jean-Marie
Title Surface organometallic chemistry: A sustainable approach in modern catalysis
Citation Journal of Organometallic Chemistry, 945, 121864.
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Author(s) Sen, Debashree; GUHA, ATANU
Title Implications of feebly interacting dark sector on neutron star properties and constraints from GW170817
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Author(s) SINGH, CHANDAN K.; KABIR, MUKUL
Title Long-range anisotropic Heisenberg ferromagnets and electrically tunable ordering
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Author(s) Tiwari, Surbhi; Arya, Neeru; MISHRA, SANDEEP KUMAR; Suryaprakash, N.
Title Competing HB acceptors: an extensive NMR investigations corroborated by single crystal XRD and DFT calculations
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Author(s) YADAV, JYOTI; KUMAR, YASHWANT; Singaraju, Gayathri S.; PATIL, SHIVPRASAD
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