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

Author(s)	KANYAL, ABHISHEK; NAHATA, SUNIL; KARMODIYA, KRISHANPAL
Chapter Title	Epigenetics in infectious disease
Book Title	Prognostic Epigenetics, Vol. 15.
Publisher	Elsevier
ISSN No	9780128142592; 9780128142608
URI	https://www.elsevier.com/books/prognostic-epigenetics/sharma/978-0-12-814259-2
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4224
Date of Publication	04-11-2019

Journal Articles

BIOLOGY

Author(s)	Brubaker, Lauren; Bhattacharjee, Debottam; GHASTE, PRAYAS; Babu, Daisy; Shit, Piuli; Bhadra, Anindita; Udell, Monique A. R.
Title	The effects of human attentional state on canine gazing behaviour: a comparison of free-ranging, shelter, and pet dogs
Citation	Animal Cognition, 22(6), 1129-1139.
Publisher	Springer
URI	https://doi.org/10.1007/s10071-019-01305-x
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4197
Date of Publication	NOV-2019

CHEMISTRY

Author(s)	Ben Ltaief, L.; MANDAL, S. et al.
Title	Charge Exchange Dominates Long-Range Interatomic Coulombic Decay of Excited Metal-Doped Helium Nanodroplets
Citation	Journal of Physical Chemistry Letters, 10(21), 6904-6909.
Publisher	American Chemical Society
URI	https://doi.org/10.1021/acs.jpcllett.9b02726
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4220
Date of Publication	18-10-2019

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Author(s) BISHT, GIRISH SINGH; GNANAPRAKASAM, BOOPATHY
Title Transition-Metal-Free Addition Reaction for the Synthesis of 3-(Aminobenzylidene/aminoalkylidene)indolin-2-ones and Its Synthetic Applications
Citation Journal of Organic Chemistry, 84(21), 13516-13527.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.joc.9b01771>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4198>
Date of Publication 26-09-2019

Author(s) DESAI, AAMOD V.; SHARMA, SHIVANI; ROY, ARKENDU; GHOSH, SUJIT K.
Title Probing the Role of Anions in Influencing the Structure, Stability, and Properties in Neutral N-Donor Linker Based Metal-Organic Frameworks
Citation Crystal Growth & Design.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.cgd.9b00873>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4209>
Date of Publication 08-11-2019

Author(s) HALDAR, SATTWICK; ROY, KINGSHUK; KUSHWAHA, RINKU; OGALE, SATISHCHANDRA; VAIDHYANATHAN, RAMANATHAN
Title Chemical Exfoliation as a Controlled Route to Enhance the Anodic Performance of COF in LIB
Citation Advanced Energy Materials.
Publisher Wiley
URI <https://doi.org/10.1002/aenm.201902428>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4214>
Date of Publication 14-11-2019

Author(s) JADHAV, ASHWINI; GUPTA, KRITI; NINAWA, PRANAY; BALLAV, NIRMALYA
Title Imparting Multifunctionality by Utilizing Biporosity in a Zirconium-Based Metal-Organic Framework
Citation Angewandte Chemie-International Edition.
Publisher Wiley
URI <https://doi.org/10.1002/anie.201910625>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4215>
Date of Publication 23-10-2019

Author(s) MORE, SHAHAJI H; GANESH, KRISHNA N.
Title Speigelmeric 4R/S-hydroxy/amino-L/D-prolyl collagen peptides: conformation and morphology of self-assembled structures
Citation Peptide Science.
Publisher Wiley
URI <https://doi.org/10.1002/pep2.24140>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4222>
Date of Publication 06-11-2019

Author(s) KUMAR, KILAPARTHI SRAVAN; Mane, Vishwanath S.; YADAV, ASHOK; Kumbhar, Avinash S.; BOOMISHANKAR, RAMAMOORTHY
Title Photochemical hydrogen evolution from water by a 1D-network of octahedral Ni6L8 cages
Citation Chemical Communications, 55(87), 13156-13159.
Publisher Royal Society of Chemistry
URI <https://doi.org/10.1039/C9CC06286F>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4216>
Date of Publication 09-10-2019

Author(s) PRASOON, ANUPAM; DHARA, BARUN; ROY, DEBASHREE; RANA, SHAMMI; BHAND, SUJIT; BALLAV, NIRMALYA
Title Achieving current rectification ratios $\geq 10^5$ across thin films of coordination polymer
Citation Chemical Science, 10(43), 10040-10047.
Publisher Royal Society of Chemistry
URI <https://doi.org/10.1039/C9SC03733K>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4213>
Date of Publication 05-09-2019

Author(s) SEN, NILANJANA; PAL, SHIV; KHADE, VIKAS VILAS; KHAN, SHABANA
Title Cyclic Four-Membered Stanna Thio and Seleno Compounds from 2-Aminopyridinato Stannylenes
Citation European Journal of Inorganic Chemistry, 2019(41), 4450-4454.
Publisher Wiley
URI <https://doi.org/10.1002/ejic.201901048>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4205>
Date of Publication 10-11-2019

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Author(s) VEERESH, KURUVA; SINGH, MANJEET; GOPI, HOSAHUDYA N.
Title Impact of substituent effects on the design of beta-sheet mimetics and beta-double helices from (E)-vinylogous gamma-amino acid oligomers
Citation Organic & Biomolecular Chemistry, 17(41), 9226-9231.
Publisher Royal Society of Chemistry
URI <https://doi.org/10.1039/c9ob01801h>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4221>
Date of Publication 07-11-2019

Earth and Climate Science

Author(s) MEERA, M.; SUHAS, E.; Sandeep, S.
Title Downstream and In Situ: Two Perspectives on the Initiation of Monsoon Low-Pressure Systems Over the Bay of Bengal
Citation Geophysical Research Letters.
Publisher American Geophysical Union
URI <https://doi.org/10.1029/2019GL084555>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4223>
Date of Publication 10-10-2019

Humanities and Social Sciences

Author(s) Shylaja, B. S.; PAI, R. VENKETESWARA
Title Observational records of stars in Indian astronomical texts - IV (Cancer and Leo)
Citation Current Science, 117(10), 1744-1747.
Publisher Indian Academy of Sciences
URI <https://www.currentscience.ac.in/Volumes/117/10/1744.pdf>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4210>
Date of Publication 25-11-2019

Mathematics

Author(s) Dubey, Umesh, V; MALLICK, VIVEK MOHAN
Title On the differential graded Eilenberg-Moore construction
Citation Journal of Algebra, 541, 174-218.
Publisher Elsevier B.V.
URL <https://doi.org/10.1016/j.jalgebra.2019.08.034>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4212>
Date of Publication 01-01-2020

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Physics

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

Title Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum

Citation Journal of High Energy Physics.

Publisher Springer

URI [https://doi.org/10.1007/JHEP10\(2019\)244](https://doi.org/10.1007/JHEP10(2019)244)

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4201>

Date of Publication 25-10-2019

Author(s) CMS Collaboration; Sirunyan, A. M.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S. et al.

Title Search for anomalous electroweak production of vector boson pairs in association with two jets in proton-proton collisions at 13 TeV

Citation Physics Letters B, 798.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.physletb.2019.134985>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4217>

Date of Publication 10-11-2019

Author(s) CMS Collaboration; Sirunyan, A. M.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S. et al.

Title Search for MSSM Higgs bosons decaying to $\mu^{+}\mu^{-}$ in proton-proton collisions at $\sqrt{s}=13\text{TeV}$

Citation Physics Letters B, 798.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.physletb.2019.134992>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4218>

Date of Publication 10-11-2019

Author(s) CMS Collaboration; Sirunyan, A. M.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S. et al.

Title Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons

Citation Physics Letters B, 798.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.physletb.2019.134952>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4219>

Date of Publication 10-11-2019

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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.; RASTOGI, A.; SHARMA, S. et al.
Title Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV
Citation European Physical Journal C, 79.
Publisher Springer
URI <https://doi.org/10.1140/epjc/s10052-019-7387-y>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4199>
Date of Publication 01-11-2019

Author(s) CMS Collaboration; Sirunyan, A. M.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S. et al.
Title Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at $\sqrt{s}=13$ TeV
Citation Journal of High Energy Physics.
Publisher Springer
URI [https://doi.org/10.1007/JHEP10\(2019\)139](https://doi.org/10.1007/JHEP10(2019)139)
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4207>
Date of Publication 10-10-2019

Author(s) KUMAR, JITENDER; MUKKATTUKAVIL, DEEPAK JOHN; Bhattacharyya, Arpan; NAIR, SUNIL
Title Investigations of the heterometallic ludwigite Ni₂AlBO₅
Citation Journal of Physics-Condensed Matter, 32(6).
Publisher IOP Publishing
URI <https://doi.org/10.1088/1361-648X/ab4f5c>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4211>
Date of Publication 04-11-2019

Author(s) HALDAR, SATTWICK; ROY, KINGSHUK; KUSHWAHA, RINKU; OGALE, SATISHCHANDRA; VAIDHYANATHAN, RAMANATHAN
Title Chemical Exfoliation as a Controlled Route to Enhance the Anodic Performance of COF in LIB
Citation Advanced Energy Materials.
Publisher Wiley
URI <https://doi.org/10.1002/aenm.201902428>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4214>
Date of Publication 14-11-2019

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Author(s) PAL, SOHAM; MAHESH, T. S.; AGARWALLA, BIJAY KUMAR
Title Experimental demonstration of the validity of the quantum heat-exchange fluctuation relation in an NMR setup
Citation Physical Review A, 100(4).
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevA.100.042119>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4202>
Date of Publication 24-10-2019

Author(s) Patel, Arun Kumar; MISHRA, SANDEEP KUMAR; Krishnamurthy, Kiran; Suryaprakash, N.
Title Retention of strong intramolecular hydrogen bonds in high polarity solvents in binaphthalene-benzamide derivatives: extensive NMR studies
Citation RSC Advances, 9(56), 32759-32770.
Publisher Royal Society of Chemistry
URI <https://doi.org/10.1039/c9ra07299c>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4206>
Date of Publication 14-10-2019

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