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

Author(s)	Balyan, Renu; Gund, Rupali; Chawla, Amanpreet Singh; KHARE, SATYAJEET P.; PRADHAN, SAURABH J.; Rane, Sanket; GALANDE, SANJEEV; Durdik, Jeannine Marie; George, Anna; BAL, VINEETA; Rath, Satyajit et al.
Title	Correlation of cell-surface CD8 levels with function, phenotype and transcriptome of naive CD8 T cells
Citation	Immunology.
Publisher	John Wiley & Sons, Inc.
URI	https://doi.org/10.1111/imm.13036
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1538
Date of Publication	17-12-2018
Author(s)	BANG, ALOK
Title	Antecedents of behavioural and reproductive dominance in pairs of the primitively eusocial wasp <i>Ropalidia marginata</i>
Citation	Behavioural Processes, Vol. 158, pp1-3.
Publisher	Elsevier B.V.
URI	https://doi.org/10.1016/j.beproc.2018.10.025
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1573
Date of Publication	JAN-2018
Author(s)	Borkar, Chandrashekhar D.; SUBHEDAR, NISHIKANT K.
Title	Neuropeptide CART prevents memory loss attributed to withdrawal of nicotine following chronic treatment in mice
Citation	Addiction Biology, Vol. 24(1), pp51-64.
Publisher	John Wiley & Sons, Inc.
URI	https://doi.org/10.1111/adb.12579
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1544
Date of Publication	JAN-2019

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Author(s) CHAPLOT, KRITI; PIMPAL, LOKESH; Ramalingam, Balaji; DEIVASIGAMANI, SENTHILKUMAR; KAMAT, SIDDHESH S.; RATNAPARKHI, GIRISH S.

Title SOD1 activity threshold and TOR signalling modulate VAP(P58S) aggregation via ROS-induced proteasomal degradation in a Drosophila model of Amyotrophic Lateral Sclerosis

Citation Disease Models & Mechanisms.

Publisher The Company of Biologists Ltd

URI <https://doi.org/10.1242/dmm.033803>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1552>

Date of Publication 11-01-2019

Author(s) KAMAT, SIDDHESH S.

Title [Understanding the role of molecular motors in living cells: an odyssey from physics to biology](#)

Citation Current Science, Vol. 116(1), pp. 14-16.

Publisher Indian Academy of Sciences

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1545>

Date of Publication 10-01-2019

Author(s) KAMERKAR, SUKRUT C.; ROY, KRISHNENDU; BHATTACHARYYA, SOUMYA; PUCADYIL, THOMAS J.

Title A Screen for Membrane Fission Catalysts Identifies the ATPase EHD1

Citation Biochemistry, Vol.58(1), pp65-71.

Publisher American Chemical Society

URI <https://doi.org/10.1021/acs.biochem.8b00925>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1562>

Date of Publication 2019

Author(s) KELKAR, DHANASHREE S.; RAVIKUMAR, GOVINDAN; MEHENDALE, NEELAY; SINGH, SHUBHAM; JOSHI, ALAUMY; SHARMA, AJAY KUMAR; MHETRE, AMOL; RAJENDRAN, ABINAYA; CHAKRAPANI, HARINATH; KAMAT, SIDDHESH S.

Title A chemical-genetic screen identifies ABHD12 as an oxidized-phosphatidylserine lipase

Citation Nature Chemical Biology, Vol. 15, pp169-178.

Publisher Springer Nature Publishing AG

URI <https://doi.org/10.1038/s41589-018-0195-0>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1555>

Date of Publication 14-01-2019

Author(s)	Kumar, Harish; UDGAONKAR, JAYANT B.
Title	Mechanistic and Structural Origins of the Asymmetric Barrier to Prion-like Cross-Seeding between Tau-3R and Tau-4R
Citation	Journal of Molecular Biology, Vol.430(24), pp5304-5312.
Publisher	Elsevier B.V.
URI	https://doi.org/10.1016/j.jmb.2018.09.010
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1550
Date of Publication	07-12-2018

Author(s)	MOHANASUNDARAM, BOOMINATHAN; RAJMANE, VYANKATESH B.; JOGDAND, SUKANYA V.; BHIDE, AMEY J.; BANERJEE, ANJAN K.
Title	Agrobacterium-mediated Tnt1 mutagenesis of moss protonemal filaments and generation of stable mutants with impaired gametophyte
Citation	Molecular Genetics and Genomics.
Publisher	Springer
URI	https://doi.org/10.1007/s00438-019-01532-4
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1567
Date of Publication	28-01-2019

Author(s)	Narayana, Yadavalli, V; RAJAN, RAGHAV et al.
Title	Clathrin-Mediated Endocytosis Regulates a Balance between Opposing Signals to Maintain the Pluripotent State of Embryonic Stem Cells
Citation	Stem Cell Reports, Vol.12(1), pp152-164.
Publisher	Elsevier B.V.
URI	https://doi.org/10.1016/j.stemcr.2018.11.018
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1546
Date of Publication	08-01-2019

Author(s)	Tripathi, Subhash K.; SHETTY, ANKITHA; GALANDE, SANJEEV et al.
Title	Quantitative proteomics reveals the dynamic protein landscape during initiation of human Th17 cell polarization
Citation	iScience, Vol.11, pp334-355.
Publisher	Elsevier B.V.
URI	https://doi.org/10.1016/j.isci.2018.12.020
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1539
Date of Publication	25-01-2019

CHEMISTRY

Author(s) ARRA, SRILATHA; BABAR, ROHIT; KABIR, MUKUL
Title Exciton in phosphorene: Strain, impurity, thickness, and heterostructure
Citation Physical Review B, Vol. 99(4).
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevB.99.045432>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1570>
Date of Publication 22-01-2019

Author(s) BORA, PRERONA; CHAUHAN, PREETI; MANNA, SUMAN; CHAKRAPANI, HARINATH
Title A vinyl-boronate ester-based persulfide donor controllable by hydrogen peroxide, a reactive oxygen species (ROS)
Citation Organic Letters, Vol. 20(24), pp7916-7920.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.orglett.8b03471>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1554>
Date of Publication 07-12-2018

Author(s) CHAUDHARI, MORESHWAR B.; GNANAPRAKASAM, BOOPATHY
Title Recent advances in the metalcatalyzed activation of amide bonds
Citation Chemistry: An Asian Journal, Vol.14(1), pp76-93.
Publisher John Wiley & Sons, Inc.
URI <https://doi.org/10.1002/asia.201801317>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1556>
Date of Publication 04-01-2019

Author(s) DUTTA, SUBHAJIT; DESAI, AAMOD, V.; SAMANTA, PARTHA; GHOSH, SUJIT K.
Title Synthesis and structural elucidation of neutral N-donor linker based bi-porous isostructural cationic metal-organic frameworks
Citation InorganicaChimicaActa, Vol. 486, pp401-405.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.ica.2018.10.052>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1548>
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Author(s) GUPTA, KRITI; RANA, SHAMMI; JHA, PLAWAN KUMAR; BALLAV, NIRMALYA et al.

Title Metamagnetism in Nanosheets of Co-II-MOF with T-N at 26 K and a Giant Hysteretic Effect at 5 K

Citation Inorganic Chemistry, Vol. 57(24), pp15044-15047.

Publisher American Chemical Society

URI <https://doi.org/10.1021/acs.inorgchem.8b03064>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1541>

Date of Publication 04-12-2018

Author(s) Harmalkar, Sarvesh S.; DESHMUKH, MAHESH S.; SRIVASTAVA, ANANT KUMAR et al.

Title Dual-site aqua mononuclear nickel(II) complexes of non-hemetetradentate ligands: Synthesis, characterization and reactivity

Citation Inorganica Chimica Acta, Vol. 486, pp425-434.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.ica.2018.10.069>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1547>

Date of Publication 24-02-2019

Author(s) KELKAR, DHANASHREE S.; RAVIKUMAR, GOVINDAN; MEHENDALE, NEELAY; SINGH, SHUBHAM; JOSHI, ALAUMY; SHARMA, AJAY KUMAR; MHETRE, AMOL; RAJENDRAN, ABINAYA; CHAKRAPANI, HARINATH; KAMAT, SIDDHESH S.

Title A chemical-genetic screen identifies ABHD12 as an oxidized-phosphatidylserine lipase

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Publisher Springer Nature Publishing AG

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DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1555>

Date of Publication 14-01-2019

Author(s) Mani, KailasamSaravana; RAVIKUMAR, GOVINDAN et al.

Title Highly Sensitive Coumarin-Pyrazolone Probe for the Detection of Cr³⁺and the Application in Living Cells

Citation ACS Omega, Vol. 3(12), pp17212-17219.

Publisher American Chemical Society

URI <https://doi.org/10.1021/acsomega.8b01907>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1551>

Date of Publication 13-12-2018

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Author(s)	SHANKER, GOLLA SHIVA; BHOSALE, RESHMA; OGALE, SATISHCHANDRA; NAG, ANGSHUMAN
Title	2D Nanocomposite of g-C3N4 and TiN embedded N-Doped graphene for photoelectrochemical reduction of water using sunlight
Citation	Advanced Materials Interfaces, Vol.5(24).
Publisher	John Wiley & Sons, Inc.
URI	https://doi.org/10.1002/admi.201801488
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1542
Date of Publication	21-12-2018

Physics

Author(s)	ARRA, SRILATHA; BABAR, ROHIT; KABIR, MUKUL
Title	Exciton in phosphorene: Strain, impurity, thickness, and heterostructure
Citation	Physical Review B, Vol. 99(4).
Publisher	American Physical Society
URI	https://doi.org/10.1103/PhysRevB.99.045432
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1570
Date of Publication	22-01-2019

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	Angular analysis of the decay $B^+ \rightarrow K^+ \mu^+(\mu^-)$ in proton-proton collisions at root $s=8$ TeV
Citation	Physical Review D Vol.98(11).
Publisher	American Physical Society
URI	https://doi.org/10.1103/PhysRevD.98.112011
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1549
Date of Publication	20-12-2018

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	Event shape variables measured using multijet final states in proton-proton collisions at $s/\sqrt{s}=13$ TeV
Citation	Journal of High Energy Physics.
Publisher	Springer
URI	https://doi.org/10.1007/JHEP12(2018)117
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1553
Date of Publication	19-12-2018

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 Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV

Citation Physical Review D Vol.98(11).

Publisher American Physical Society

URI <https://doi.org/10.1103/PhysRevD.98.112014>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1557>

Date of Publication 28-12-2018

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 Search for the Higgs Boson Decaying to Two Muons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV

Citation Physical Review Letters, Vo.122(2).

Publisher American Physical Society

URI <https://doi.org/10.1103/PhysRevLett.122.021801>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1563>

Date of Publication 14-01-2019

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 Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at $s=13\text{TeV}$

Citation European Physical Journal C, Vol.79.

Publisher Springer

URI <https://doi.org/10.1140/epjc/s10052-018-6482-9>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1564>

Date of Publication 10-01-2019

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 Search for Higgs boson pair production in the gamma gamma b(b)over-bar final state in pp collisions at root s=13 TeV

Citation Physics Letters B, Vol.788, pp7-36.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.physletb.2018.10.056>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1565>

Date of Publication 10-01-2019

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 Search for low-mass resonances decaying into bottom quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV

Citation Physical Review D, Vol.99(1).

Publisher American Physical Society

URI <https://doi.org/10.1103/PhysRevD.99.012005>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1566>

Date of Publication 09-01-2019

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 Search for Dark Matter Particles Produced in Association with a Top Quark Pair at root s=13 TeV

Citation Physical Review Letters, Vo.122(1).

Publisher American Physical Society

URI <https://doi.org/10.1103/PhysRevLett.122.011803>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1572>

Date of Publication 11-01-2019

Author(s) Dhawane, Manasi; DESHPANDE, APARNA; Jain, Ratnesh; Dandekar, Prajakta

Title Colorimetric point-of-care detection of cholesterol using chitosan nanofibers

Citation Sensors and Actuators B-Chemical Vol. 281, pp72-79.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.snb.2018.10.060>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1558>

Date of Publication 15-02-2019

Author(s) KHAMBALKAR, VAIBHAV; Birajdar, Shobha; Adhyapak, Parag; Kulkarni, Sulabha
Title Nanocomposite of polypyrrol and silica rods-gold nanoparticles core-shell as an ammonia sensor
Citation Nanotechnology, Vol. 30(10).
Publisher IOP Publishing Ltd
URI <https://doi.org/10.1088/1361-6528/aaf83d>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1571>
Date of Publication 18-01-2019

Author(s) Lecointre, Pierre; RAHMAN, ATIKUR el al.
Title Ballistics of self-jumping microdroplets
Citation Physical Review Fluids, Vol.4(1).
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevFluids.4.013601>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1559>
Date of Publication 07-01-2019

Author(s) PAL, SOHAM; Moitra, Saranyo; ANJUSHA, V. S.; Kumar, Anil; MAHESH, T. S.
Title Hybrid scheme for factorisation: Factoring 551 using a 3-qubit NMR quantum adiabatic processor
Citation Pramana.
Publisher Indian Academy of Sciences
URI <https://doi.org/10.1007/s12043-018-1684-0>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1560>
Date of Publication FEB-2019

Author(s) SHANKER, GOLLA SHIVA; BHOSALE, RESHMA; OGALE, SATISHCHANDRA; NAG, ANGSHUMAN
Title 2D Nanocomposite of g-C3N4 and TiN embedded N-Doped graphene for photoelectrochemical reduction of water using sunlight
Citation Advanced Materials Interfaces, Vol.5(24).
Publisher John Wiley & Sons, Inc.
URI <https://doi.org/10.1002/admi.201801488>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1542>
Date of Publication 21-12-2018

Author(s) SINGH, MOHIT KUMAR; BHUNIA, AMIT; DATTA, SHOUVIK et al.

Title Role of interface potential barrier, Auger recombination and temporal coherence in In_{0.5}Ga_{0.5}As/GaAs quantum dot-based p-i-n light emitting diodes

Citation Journal of Physics D: Applied Physics, Vol. 52(9).

Publisher IOP Publishing

URI <https://doi.org/10.1088/1361-6463/aaf61c>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1537>

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