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New Publications of Faculty, Scientists and Students of IISER Pune - July 2018.

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Biology

Author(s) De las Heras, Joseprime M.; Garcia-Cortes, Celia; Foronda, David; Carlos Pastor-Pareja, Jose; **Shashidhara, L. S.** and Sanchez-Herrero, Ernesto
Title The Drosophila Hox gene Ultrabithorax controls appendage shape by regulating extracellular matrix dynamics
Name of the Journal Development
Vol. No. 145
Date of Publication Jul-2018
Name of the Publisher Company Biologists Ltd.
DOI [10.1242/dev.161844](https://doi.org/10.1242/dev.161844)

Author(s) **Matange, Nishad; Bodkhe, Swapnil;** Patel, Maitri and Shah, Pooja
Title Trade-offs with stability modulate innate and mutationally acquired drug resistance in bacterial dihydrofolate reductase enzymes
Name of the Journal Biochemical Journal
Vol. No. 475
Issue No. 12
Page No. 2107-2125
Date of Publication 29-June-2018
Name of the Publisher Portland Press Ltd.
DOI [10.1042/BCJ20180249](https://doi.org/10.1042/BCJ20180249)

Author(s) **Mutalik, Sampada P.;** Joseph, Joby; Pullark, Pramod A. and **Ghose, Aurnab**
Title Cytoskeletal mechanisms of axonal contractility
Name of the Journal Biophysical Journal
Date of Publication 12-July-2018
Name of the Publisher Cell Press
DOI [10.1016/j.bpj.2018.07.007](https://doi.org/10.1016/j.bpj.2018.07.007)

Author(s) **Pradhan, Roopali; Ranade, Devika** and **Sengupta, Kundan**
Title Emerin modulates spatial organization of chromosome territories in cells on softer matrices
Name of the Journal Nucleic Acids Research
Vol. No. 46
Issue No. 11
Page No. 5561-5586
Date of Publication 20-June-2018
Name of the Publisher Oxford University Press
DOI [10.1093/nar/gky288](https://doi.org/10.1093/nar/gky288)

Author(s) **Pucadyil, Thomas J.**
Title A novel fluorescence microscopic approach to quantitatively analyse protein-induced membrane remodelling
Name of the Journal Journal of Biosciences
Vol. No. 43
Issue No. 3
Page No. 431-435
Date of Publication Jul-2018
Name of the Publisher Indian Academy of Sciences
DOI [10.1007/s12038-018-9767-0](https://doi.org/10.1007/s12038-018-9767-0)

Author(s) Rokade, Shalaka S.; Joshi, Komal A.; Mahajan, Ketakee; Patil, Saniya; Tomar, Geetanjali; **Dubal, Dnyanesh S.**; Parihar, Vijay Singh; Kitture, Rohini; Bellare, Jayesh R. and Ghosh, Sougata
Title Gloriosa superba Mediated Synthesis of Platinum and Palladium Nanoparticles for Induction of Apoptosis in Breast Cancer
Name of the Journal Bioinorganic Chemistry and Applications
Vol. No. 2018
Date of Publication 02-Jul-2018
Name of the Publisher Hindawi Ltd.
DOI [10.1155/2018/4924186](https://doi.org/10.1155/2018/4924186)

Chemistry

Author(s) Haque, Anamul; **Ravi, Vikash Kumar; Shanker, G. Shiva**; Sarkar, Indranil; **Nag, Angshuman** and Santra, Pralay K.
Title Internal Heterostructure of Anion-Exchanged Cesium Lead Halide Nanocubes
Name of the Journal Journal of Physical Chemistry C
Vol. No. 122
Issue No. 25
Page No. 13399-13406
Date of Publication 28-Jun-2018
Name of the Publisher American Chemical Society
DOI [10.1021/acs.jpcc.7b11118](https://doi.org/10.1021/acs.jpcc.7b11118)

Author(s) **Kumar, Praveen; Prakash, Prabhat**; Ramya, K. R. and **Venkatnathan, Arun**
Title Probing translational and rotational dynamics in hydrophilic/hydrophobic anion based imidazolium ionic liquid–water mixtures
Name of the Journal Soft Matter
Issue. No. 29
Page No. 6109-6118
Date of Publication 2-Jul-2018
Name of the Publisher Royal Society of Chemistry
DOI [10.1039/C8SM00765A](https://doi.org/10.1039/C8SM00765A)

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Author(s) Kumawat, Naresh Kumar; **Swarnkar, Abhishek; Nag, Angshuman**
and Kabra, Dinesh
Title Ligand Engineering to Improve the Luminance Efficiency of CsPbBr₃
Nanocrystal Based Light-Emitting Diodes
Name of the Journal Journal of Physical Chemistry C
Vol. No. 122
Issue. No. 25
Page No. 13767-13773
Date of Publication 28-Jun-2018
Name of the Publisher American Chemical Society
DOI [10.1021/acs.jpcc.8b00723](https://doi.org/10.1021/acs.jpcc.8b00723)

Author(s) **L.V.R. Babu Syamala; Mete, Trimbak B. and Bhat, Ramakrishna G.**
Title FeCl₃•6H₂O-catalyzed selective conjugate reduction of
alkylidene-β-keto esters and alkylidene-1,3-diketones
Name of the Journal Tetrahedron Letters
Vol. No. 59
Issue. No. 34
Page No. 3288-3291
Date of Publication Aug-2018
Name of the Publisher Elsevier
DOI [10.1016/j.tetlet.2018.07.041](https://doi.org/10.1016/j.tetlet.2018.07.041)

Author(s) **Manna, Sudeshna and Srivatsan, Seergazhi G.**
Title Fluorescence-based tools to probe G-quadruplexes in cell-free
and cellular environments
Name of the Journal RSC Advances
Vol. No. 8
Issue. No. 45
Page No. 25673-25694
Date of Publication 17-July-2018
Name of the Publisher Royal Society of Chemistry
DOI [10.1039/C8RA03708F](https://doi.org/10.1039/C8RA03708F)

Author(s) **Mete, Trimbak B.; Laha, Debasish and Bhat, Ramakrishna G.**
Title A One Pot Transition-Metal-Free Synthesis of Styrenyl Ethers from
2-Aryloxy/Alkoxy Acetophenones
Name of the Journal Chemistry Select
Vol. No. 3
Issue. No. 26
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Date of Publication 13-Jul-2018
Name of the Publisher Wiley
DOI [10.1002/slct.201801522](https://doi.org/10.1002/slct.201801522)

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Author(s) **Vijayakanth, Thangavel; Srivastava, Anant Kumar; Ram, Farsa; Kulkarni, Priyangi; Shanmuganathan, Kadhiraavan; Praveenkumar, Balu and Boomishankar, Ramamoorthy**
Title A Flexible Composite Mechanical Energy Harvester from a Ferro electric Organoamino Phosphonium Salt
Name of the Journal Angewandte Chemie-International Edition
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Date of Publication 16-Jul-2018
Name of the Publisher Wiley
DOI [10.1002/anie.201805479](https://doi.org/10.1002/anie.201805479)

Author(s) **Walunj, Manisha B.; Tanpure, Arun A. and Srivatsan, Seergazhi G.**
Title Post-transcriptional labeling by using Suzuki-Miyaura cross-coupling generates functional RNA probes
Name of the Journal Nucleic Acids Research
Vol. No. 46
Issue. No. 11
Date of Publication 20-Jun-2018
Name of the Publisher Oxford University Press
DOI [10.1093/nar/gky185](https://doi.org/10.1093/nar/gky185)

Author(s) **Varhade, Swapnil; Bhat, Zahid M.; Thimmappa, Ravikumar; Devendrachari, Mruthyunjayachari C.; Kottaichamy, Gautam, Manu; Shafi, Shahid P. and Thotiyl, Musthafa Ottakam**
Title A Hybrid Hydrazine Redox Flow Battery with a Reversible Electron Acceptor
Name of the Journal Physical Chemistry Chemical Physics
Date of Publication 31-Jul-2018
Name of the Publisher Royal Society of Chemistry
DOI [10.1039/C8CP03768J](https://doi.org/10.1039/C8CP03768J)

Author(s) **Chauhan, Preeti; Jos, Swetha and Chakrapani, Harinath**
Title Reactive Oxygen Species-Triggered Tunable Hydrogen Sulfide Release
Name of the Journal Organic Letters
Vol. No. 20
Issue No. 13
Date of Publication 21-June-2018
Name of the Publisher ACS Publications
DOI [10.1021/acs.orglett.8b01356](https://doi.org/10.1021/acs.orglett.8b01356)

Author(s) **Satpathi, Sagar; Das, Konoya and Hazra, Partha**
Title Silica nano-channel induced i-motif formation and stabilization at neutral and alkaline pH
Name of the Journal Chemical Communications
Vol. No. 54
Issue. No. 51
Page No. 7054-7057
Date of Publication 28-June-2018
Name of the Publisher Royal Society of Chemistry
DOI [10.1039/c8cc02811g](https://doi.org/10.1039/c8cc02811g)

Author(s) **Varhade, Swapnil; Bhat, Zahid M.; Thimmappa, Ravikumar; Devendrachari, Mruthyunjayachari C.; Kottaichamy, Alagar R.; Khaire, Siddhi; Shafi, Shahid P. and Thotiyl, Musthafa Ottakam**
Title An inherent heat driven fuel exhaling hydrazine fuel cell
Name of the Journal Chemical Physics Letters
Vol. No. 706
Page No. 553-557
Date of Publication 16-Aug-2018
Name of the Publisher Elsevier
DOI [10.1016/j.cplett.2018.07.008](https://doi.org/10.1016/j.cplett.2018.07.008)

Humanities and Social Sciences

Author(s) **Pai, Venketeswara R**
Title The Yogyādivākyas: A Numerical Table for Computing the Longitude of the Sun
Name of the Book Growth and Development of Astronomy and Astrophysics in India and the Asia-Pacific Region
Page No. 128–133
Date of Publication 2018
Name of the Publisher Tata Institute of Fundamental Research, Mumbai

Author(s) **Sancheti, Pooja**
Title [Postmodernist Poetics in Jeanette Winterson's Sexing the Cherry](#)
Name of the Journal Language, Literature, and Interdisciplinary Studies (LLIDS)
Vol. No. 1
Issue No. 4
Date of Publication 28-Jun-2018

Author(s) Shylaja, B.S. and **Pai, Venketeswara R.**
Title Stars as recorded in Indian texts
Name of the Book Growth and Development of Astronomy and Astrophysics in India and the Asia-Pacific Region
Page No. 54-58
Date of Publication 2018
Name of the Publisher Tata Institute of Fundamental Research, Mumbai

Physics

Author(s) **Ananth, Sudarshan**; Kovacs, Stefano; Sato, Yuki and Shimada, Hidehiko
Title Towards a tensionless string field theory for the $N=(2,0)$ CFT in $d=6$
Name of the Journal Journal of High Energy Physics
Vol. No. 135
Date of Publication 10-July-2018
Name of the Publisher Springer
DOI [10.1007/JHEP07\(2018\)135](https://doi.org/10.1007/JHEP07(2018)135)

Author(s) CMS Collaboration, Sirunyan, A. M. ; **Chauhan, S.; Dube, S.; Hegde, V.; Kapoor, A.; Kotheekar, K.; Pandey, S.; Rane, A.; Sharma, S.** et.al.
Title Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at $\sqrt{s}=13$ TeV
Name of the Journal Journal of High Energy Physics
Issue No. 6
Date of Publication 20-Jun-2018
Name of the Publisher Springer
DOI [10.1007/JHEP06\(2018\)102](https://doi.org/10.1007/JHEP06(2018)102)

Author(s) CMS Collaboration, Sirunyan, A. M. ; **Chauhan, S.; Dube, S.; Hegde, V.; Kapoor, A.; Kotheekar, K.; Pandey, S.; Rane, A.; Sharma, S.** et.al.
Title Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at $\sqrt{s}=13$ TeV
Name of the Journal European Physical Journal C
Vol. No. 78
Issue No. 7
Date of Publication 10-July-2018
Name of the Publisher Springer
DOI [10.1140/epjc/s10052-018-6033-4](https://doi.org/10.1140/epjc/s10052-018-6033-4)

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 high-mass resonances in dilepton final states in proton-proton collisions at root s=13 TeV
Name of the Journal Journal of High Energy Physics
Issue No. 7
Date of Publication 22-June-2018
Name of the Publisher Springer
DOI [10.1007/JHEP06\(2018\)120](https://doi.org/10.1007/JHEP06(2018)120)

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 high-mass resonances in final states with a lepton and missing transverse momentum at root s=13 TeV
Name of the Journal Journal of High Energy Physics
Issue No. 6
Date of Publication 25-June-2018
Name of the Publisher Springer
DOI [10.1007/JHEP06\(2018\)128](https://doi.org/10.1007/JHEP06(2018)128)

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 Nuclear modification factor of D-0 mesons in PbPb collisions at root s(NN)=5.02 TeV
Name of the Journal Physics Letters B
Vol. No. 782
Page No. 474-496
Date of Publication 10-July-2018
Name of the Publisher Elsevier
DOI [10.1016/j.physletb.2018.05.074](https://doi.org/10.1016/j.physletb.2018.05.074)

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 new physics in events with two soft oppositely charged leptons and missing transverse momentum in proton-proton collisions at root s=13 TeV
Name of the Journal Physics Letters B
Vol. No. 782
Page No. 440-467
Date of Publication 10-July-2018
Name of the Publisher Elsevier
DOI [10.1016/j.physletb.2018.05.062](https://doi.org/10.1016/j.physletb.2018.05.062)

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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.** et.al
Title Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at root s=13 TeV
Name of the Journal Journal of High Energy Physics
Date of Publication 05-July-2018
Name of the Publisher Springer
DOI [10.1007/JHEP07\(2018\)032](https://doi.org/10.1007/JHEP07(2018)032)

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 a heavy resonance decaying into a Z boson and a vector boson in the $v(\bar{v})\overline{q}(q)$ final state
Name of the Journal Journal of High Energy Physics
Issue No. 7
Date of Publication 11-July-2018
Name of the Publisher Springer
DOI [10.1007/JHEP07\(2018\)075](https://doi.org/10.1007/JHEP07(2018)075)

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 b hadron lifetimes in pp collisions at root s = 8TeV (vol 78, 2018)
Name of the Journal European Physical Journal C
Vol. No. 78
Issue No. 7
Date of Publication 9-July-2018
Name of the Publisher Springer
DOI [10.1140/epjc/s10052-018-6014-7](https://doi.org/10.1140/epjc/s10052-018-6014-7)

Author(s) **Panja, Soumendra Nath; Harnagea, Luminita; Kumar, Jitender; Mukharjee, I. P. K.; Nath, R.; Nigam, A. K. and Nair, Sunil**
Title Coupled magnetic and ferroelectric states in the distorted honeycomb system Fe₄Ta₂O₉
Name of the Journal Physics Letters B
Vol. No. 98
Issue No. 2
Date of Publication 12-July-2018
Name of the Publisher American Physical Society
DOI [10.1103/PhysRevB.98.024410](https://doi.org/10.1103/PhysRevB.98.024410)

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Author(s) **Panja, Soumendra Nath; Kumar, Jitender; Harnagea, Luminita; Nigam, A. K. and Nair, Sunil**

Title γ -Fe₂WO₆ – A magnetodielectric with disordered magnetic and electronic ground states

Name of the Journal Journal of Magnetism and Magnetic Materials

Vol. No. 466

Date of Publication 15-Nov-2018

Name of the Publisher Elsevier

DOI [10.1016/j.jmmm.2018.07.046](https://doi.org/10.1016/j.jmmm.2018.07.046)

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