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

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# Biology

Author(s) Bassereau, Patricia; **Pucadyil, Thomas J.** et.al.  
Title The 2018 biomembrane curvature and remodeling roadmap  
Name of the Journal Journal of Physics D-Applied Physics  
Vol. No. 51  
Issue No. 34  
Date of Publication 30-Aug-2018  
Name of the Publisher IOP Publishing  
DOI [10.1088/1361-6463/aacb98](https://doi.org/10.1088/1361-6463/aacb98)

Author(s) **Inchanalkar, Siddhi; Deshpande, Nilesh Umakant; Kasherwal, Vishakha; Jayakannan, Manickam and Balasubramanian, Nagaraj**  
Title Polymer Nanovesicle-Mediated Delivery of MLN8237 Preferentially Inhibits Aurora Kinase A To Target RalA and Anchorage-Independent Growth in Breast Cancer Cells  
Name of the Journal Molecular Pharmaceutics  
Vol. No. 15  
Issue No. 8  
Page No. 3046-3059  
Date of Publication Aug-2018  
Name of the Publisher American Chemical Society  
DOI [10.1021/acs.molpharmaceut.8b00163](https://doi.org/10.1021/acs.molpharmaceut.8b00163)

Author(s) Nakhate, Kartik T.; **Subhedar, Nishikant K.** and Kokare, Dadasaheb  
Title A role of neuropeptide CART in hyperphagia and weight gain induced  
Name of the Journal Brain Research  
Vol. No. 1695  
Page No. 45-52  
Date of Publication 15-Sep-2018  
Name of the Publisher Elsevier  
DOI [10.1016/j.brainres.2018.05.014](https://doi.org/10.1016/j.brainres.2018.05.014)

Author(s) **Nisal, Rahul; Jose, Gregor P.; Shanbhag, Chitra and Kalia, Jeet**  
Title Rapid and reversible hydrazonebioconjugation in cells without the use of extraneous catalysts  
Name of the Journal Organic & Biomolecular Chemistry  
Vol. No. 16  
Issue No. 23  
Page No. 4304-4310  
Date of Publication 21-Jun-2018  
Name of the Publisher Royal Society of Chemistry  
DOI [10.1039/C8OB00946E](https://doi.org/10.1039/C8OB00946E)

Author(s) **Sarkar, Debayan; Singh, Yashaswi and Kalia, Jeet**  
Title Protein–Lipid Interfaces Can Drive the Functions of Membrane-Embedded Protein–Protein Complexes  
Name of the Journal ACS Chemical Biology  
Date of Publication 06-Aug-2018  
Name of the Publisher American Chemical Society  
DOI [10.1021/acscchembio.8b00644](https://doi.org/10.1021/acscchembio.8b00644)

Author(s) Sharma, Aditi; Halder, Sudipta; Felix, Martina; Nisaa, Khairun;  
**Deshpande, Girish** and Prasad, Mohit  
Title Insulin signaling modulates border cell movement in Drosophila oogenesis  
Name of the Journal Development  
Vol. No. 145  
Issue No. 14  
Date of Publication 15-Jul-2018  
Name of the Publisher Company Biologists Ltd  
DOI [10.1242/dev.166165](https://doi.org/10.1242/dev.166165)

## Chemistry

Author(s) Bi, Lei; **Shafi, Shahid P.**; Da'as, EmanHusni and Traversa, Enrico  
Title Tailoring the Cathode-Electrolyte Interface with Nanoparticles for Boosting the Solid Oxide Fuel Cell Performance of Chemically Stable Proton-Conducting Electrolytes  
Name of the Journal Small  
Vol. No. 14  
Issue No. 32  
Date of Publication 09-Aug-2018  
Name of the Publisher Wiley  
DOI [10.1002/sml.201801231](https://doi.org/10.1002/sml.201801231)

Author(s) **Deshpande, Nilesh Umakant** and **Jayakannan, Manickam**  
Title Biotin-Tagged Polysaccharide Vesicular Nanocarriers for Receptor-Mediated Anticancer Drug Delivery in Cancer Cells  
Name of the Journal Biomacromolecules  
Vol. No. 19  
Issue No. 8  
Page No. 3572-3585  
Date of Publication Aug-2018  
Name of the Publisher American Chemical Society  
DOI [10.1021/acs.biomac.8b00833](https://doi.org/10.1021/acs.biomac.8b00833)

Author(s) **Inchanalkar, Siddhi; Deshpande, Nilesh Umakant; Kasherwal, Vishakha; Jayakannan, Manickam and Balasubramanian, Nagaraj**  
Title Polymer Nanovesicle-Mediated Delivery of MLN8237 Preferentially Inhibits Aurora Kinase A To Target RalA and Anchorage-Independent Growth in Breast Cancer Cells  
Name of the Journal Molecular Pharmaceutics  
Vol. No. 15  
Issue No. 8  
Page No. 3046-3059  
Date of Publication Aug-2018  
Name of the Publisher American Chemical Society  
DOI [10.1021/acs.molpharmaceut.8b00163](https://doi.org/10.1021/acs.molpharmaceut.8b00163)

Author(s) **Mukherjee, Soumya; Zeng, Zhixin; Shirolkar, Mandar; Samanta, Partha; Chaudhari, Abhijeet K.; Tan, Jin-Chong and Ghosh, Sujit K.**  
Title Self-Assembled, Fluorine-Rich Porous Organic Polymers: A Class of Mechanically Stiff and Hydrophobic Materials  
Name of the Journal Chemistry: A European Journal  
Vol. No. 24  
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Date of Publication 29-May-2018  
Name of the Publisher Wiley  
DOI [10.1002/chem.201802200](https://doi.org/10.1002/chem.201802200)

Author(s) **Nisal, Rahul; Jose, Gregor P.; Shanbhag, Chitra and Kalia, Jeet**  
Title Rapid and reversible hydrazonebioconjugation in cells without the use of extraneous catalysts  
Name of the Journal Organic & Biomolecular Chemistry  
Vol. No. 16  
Issue No. 23  
Page No. 4304-4310  
Date of Publication 21-Jun-2018  
Name of the Publisher Royal Society of Chemistry  
DOI [10.1039/C8OB00946E](https://doi.org/10.1039/C8OB00946E)

Author(s) **Ravi, Vikash Kumar; Scheidt, Rebecca A.; DuBose, Jeffrey and Kamat, Prashant, V**  
Title Hierarchical Arrays of Cesium Lead Halide PerovskiteNanocrystals through Electrophoretic Deposition  
Name of the Journal Journal of the American Chemical Society  
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Issue No. 28  
Page No. 8887-8894  
Date of Publication 18-Jul-2018  
Name of the Publisher American Chemical Society  
DOI [10.1021/jacs.8b04803](https://doi.org/10.1021/jacs.8b04803)

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Author(s) **Sarkar, Debayan; Singh, Yashaswi and Kalia, Jeet**  
Title Protein–Lipid Interfaces Can Drive the Functions of Membrane-Embedded Protein–Protein Complexes  
Name of the Journal ACS Chemical Biology  
Date of Publication 06-Aug-2018  
Name of the Publisher American Chemical Society  
DOI [10.1021/acscchembio.8b00644](https://doi.org/10.1021/acscchembio.8b00644)

Author(s) **Singhal, Nancy; Chakraborty, Rayan; Ghosh, Prasenjit and Nag, Angshuman**  
Title Low-Bandgap Cs<sub>4</sub>CuSb<sub>2</sub>Cl<sub>12</sub> Layered Double Perovskite: Synthesis, Reversible Thermal Changes, and Magnetic Interaction  
Name of the Journal Chemistry-An Asian Journal  
Vol. No. 13  
Issue No. 16  
Page No. 2085-2092  
Date of Publication 16-Aug-2018  
Name of the Publisher Wiley  
DOI [10.1002/asia.201800635](https://doi.org/10.1002/asia.201800635)

Author(s) Zhao, Hui; Klemmer, Lukas; Cowley, Michael J.; **Majumdar, Moumita**; Huch, Volker; Zimmer, Michael and Scheschkewitz, David  
Title Phenylene-bridged cross-conjugated 1,2,3-trisilacyclopentadienes  
Name of the Journal Chemical Communications  
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Page No. 8399-8402  
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Name of the Publisher Royal Society of Chemistry  
DOI [10.1039/c8cc03297a](https://doi.org/10.1039/c8cc03297a)

## Humanities and Social Sciences

Author(s) Kolachana, Aditya; **Pai, Venketeswara** et.al.  
Title A Critical Edition of the Candrārki of Dinakara: A Text Concerning Solar and Lunar Tables  
Name of the Journal History of Science in South Asia  
Issue No. 6  
Date of Publication 2018  
Name of the Publisher History of Science in South Asia  
DOI [10.18732/hssa.v6i0.35](https://doi.org/10.18732/hssa.v6i0.35)

Author(s) Shylaja, B. S. and **Pai, Venketeswara**  
Title [Observational records of stars in Indian astronomical texts](#)  
Name of the Journal Current Science  
Vol. No. 115  
Issue No. 3  
Date of Publication 10-Aug-2018  
Name of the Publisher Indian Academy Sciences

## Mathematics

Author(s) **Bhakta, Mousomi and Mukherjee, Debangana**  
Title Sign changing solutions of P-Fractional equations with concave-convex nonlinearities  
Name of the Journal Topological Methods in Nonlinear Analysis  
Vol. No. 51  
Issue No. 2  
Page No. 511-544  
Date of Publication Jun-2018  
Name of the Publisher JuliuszSchauderCtr Nonlinear Studies  
DOI [10.12775/TMNA.2017.052](#)

Author(s) **Borah, Diganta**; Haridas, Pranav and Verma, Kaushal  
Title Comments on the Green's function of a planar domain  
Name of the Journal Analysis and Mathematical Physics  
Vol. No. 8  
Issue No. 3  
Page No. 383-414  
Date of Publication Sep-2018  
Name of the Publisher Springer  
DOI [10.1007/s13324-017-0177-5](#)

Author(s) Buss, Alcides; **Holkar, Rohit D.** and Meyer, Ralf  
Title A universal property for groupoid C-\* algebras. I  
Name of the Journal Proceedings of the London Mathematical Society  
Vol. No. 117  
Page No. 345-375  
Date of Publication Aug-2018  
Name of the Publisher Wiley  
DOI [10.1112/plms.12131](#)

# Physics

- 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 a singly produced third-generation scalar leptoquark decaying to a tau lepton and a bottom quark in proton-proton collisions at  $\sqrt{s}=13$  TeV
- Name of the Journal Journal of High Energy Physics
- Issue No. 7
- Date of Publication 18-July-2018
- Name of the Publisher Springer
- DOI [10.1007/JHEP07\(2018\)115](https://doi.org/10.1007/JHEP07(2018)115)
- 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 disappearing tracks as a signature of new long-lived particles in proton-proton collisions at  $\sqrt{s}=13$  TeV
- Name of the Journal Journal of High Energy Physics
- Issue No. 8
- Date of Publication 7-Aug-2018
- Name of the Publisher Springer
- DOI [10.1007/JHEP08\(2018\)016](https://doi.org/10.1007/JHEP08(2018)016)
- Author(s) CMS Collaboration; Sirunyan, A. M.; **Dube, S.; Hegde, V.; Kapoor, A.; Kotheekar, K.; Pandey, S.; Rane, A.; Sharma, S.** et.al.
- Title Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TO TEM precision proton spectrometer
- Name of the Journal Journal of High Energy Physics
- Issue No. 7
- Date of Publication 24-Jul-2018
- Name of the Publisher Springer
- DOI [10.1007/JHEP07\(2018\)153](https://doi.org/10.1007/JHEP07(2018)153)
- Author(s) CMS Collaboration; Sirunyan, A. M.; **Dube, S.; Hegde, V.; Kapoor, A.; Kotheekar, K.; Pandey, S.; Rane, A.; Sharma, S.** et.al.
- Title Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at  $\sqrt{s}=13$  TeV
- Name of the Journal Journal of High Energy Physics
- Issue No. 8
- Date of Publication 03-Aug-2018
- Name of the Publisher Springer
- DOI [10.1007/JHEP08\(2018\)011](https://doi.org/10.1007/JHEP08(2018)011)

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Author(s) CMS Collaboration; **Sirunyan, A. M.; Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S.** et.al.  
Title Electroweak production of two jets in association with a Z boson in proton-proton collisions  $\sqrt{s}=13$  TeV  
Name of the Journal European Physical Journal C  
Vol. No. 78  
Issue No. 7  
Date of Publication 20-Jul-2018  
Name of the Publisher Springer  
DOI [10.1140/epjc/s10052-018-6049-9](https://doi.org/10.1140/epjc/s10052-018-6049-9)

Author(s) CMS Collaboration; Sirunyan, A. M.; **Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S.** et.al.  
Title Measurement of the inelastic proton-proton cross section at  $\sqrt{s}=13$  TeV  
Name of the Journal Journal of High Energy Physics  
Issue No. 7  
Date of Publication 25-Jul-2018  
Name of the Publisher Springer  
DOI [10.1007/JHEP07\(2018\)161](https://doi.org/10.1007/JHEP07(2018)161)

Author(s) Devi, Nisha; Parrey, Khursheed A.; Aziz, Anver and **Datta, Shouvik**  
Title Numerical simulations of perovskite thin-film solar cells using a CdS hole blocking layer  
Name of the Journal Journal of Vacuum Science & Technology B  
Vol. No. 36  
Issue No. 4  
Date of Publication Jul-2018  
Name of the Publisher AIP Publishing  
DOI [10.1116/1.5026163](https://doi.org/10.1116/1.5026163)

Author(s) Friedman, Hava Meira; **Agarwalla, Bijay Kumar** and Segal, Dvira  
Title Quantum energy exchange and refrigeration: a full-counting statistics approach  
Name of the Journal New Journal of Physics  
Vol. No. 20  
Date of Publication 17-Aug-2018  
Name of the Publisher IOP Publishing  
DOI [10.1088/1367-2630/aad5fc](https://doi.org/10.1088/1367-2630/aad5fc)



Author(s) **Kumar, Ankit; Mishra, Amrit K.; Bansode, Umesh; Ogale, Satishchandra and Rahman, Atikur**  
Title Anomalous effect of UV light on the humidity dependence of photocurrent in perovskite solar cells  
Name of the Journal Nanotechnology  
Vol. No. 29  
Issue No. 40  
Date of Publication 05-Oct-2018  
Name of the Publisher IOP Publishing  
DOI [10.1088/1361-6528/aad2ec](https://doi.org/10.1088/1361-6528/aad2ec)

Author(s) **Singhal, Nancy; Chakraborty, Rayan; Ghosh, Prasenjit and Nag, Angshuman**  
Title Low-Bandgap Cs<sub>4</sub>CuSb<sub>2</sub>Cl<sub>12</sub> Layered Double Perovskite: Synthesis, Reversible Thermal Changes, and Magnetic Interaction  
Name of the Journal Chemistry-An Asian Journal  
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Date of Publication 16-Aug-2018  
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DOI [10.1002/asia.201800635](https://doi.org/10.1002/asia.201800635)

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