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New Publications of Faculty, Scientists and Students of IISER Pune - Dec 2017.

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# Biology

Author(s) Rai, Priyanka; Kumar, Mukesh; Sharma, Geetika; Barak, Pradeep; Das, Saumitra; **Kamat, Siddhesh S.** and Mallik, Roop.  
Title Kinesin-dependent mechanism for controlling triglyceride secretion from the liver  
Name of the Journal Proceedings of the National Academy of Sciences of the United States of America  
Vol. No. 114  
Issue No. 49  
Page No. 12958–12963  
Date of Publication 31-Oct-2017  
Name of the Publisher National Academy of Sciences  
DOI [10.1073/pnas.1713292114](https://doi.org/10.1073/pnas.1713292114)

Author(s) **Palvai, Sandeep; Anandi, Libi;** Sarkar, Sujit; **Augustus, Meera;** Roy, Sudip; **Lahiri, Mayurika** and **Basu, Sudipta.**  
Title Drug-Triggered Self-Assembly of Linear Polymer into Nanoparticles for Simultaneous Delivery of Hydrophobic and Hydrophilic Drugs in Breast Cancer Cells  
Name of the Journal ACS Omega  
Vol. No. 2  
Issue No. 12  
Page No. 8730–8740  
Date of Publication 07-Dec-2017  
Name of the Publisher American Chemical Society  
DOI [10.1021/acsomega.7b01400](https://doi.org/10.1021/acsomega.7b01400)

Author(s) **Natarajan, Bhavani; Bhogale, Sneha** and **Banerjee, Anjan K.**  
Title The essential role of microRNAs in potato tuber development: a mini review  
Name of the Journal Indian Journal of Plant Physiology  
Vol. No. 22  
Issue No. 04  
Page No. 401-410  
Date of Publication 22-Dec-2017  
Name of the Publisher Springer  
DOI [10.1007/s40502-017-0324-x](https://doi.org/10.1007/s40502-017-0324-x)

Author(s) **Devani, Ravi Suresh;** Sinha, Sangram; **Banerjee, Jayeeta;**  
Sinha, Rabindra Kumar; Bendahmane, Abdelhafid  
and **Banerjee, Anjan K.**  
Title De novo transcriptome assembly from flower buds of dioecious,  
gynomonoecious and chemically masculinized female *Coccinia*  
*grandis* reveals genes associated with sex expression  
and modification  
Name of the Journal BMC Plant Biology  
Vol. No. 17  
Issue No. 01  
Date of Publication 12-Dec-2017  
Name of the Publisher Springer Nature  
DOI [10.1186/s12870-017-1187-z](https://doi.org/10.1186/s12870-017-1187-z)

Author(s) **Joshi, M.P.; Samanta, A.; Tripathy, G.R. and Rajamani, S.**  
Title Formation and Stability of Prebiotically Relevant Vesicular Systems  
in Terrestrial Geothermal Environments  
Name of the Journal Life  
Vol. No. 07  
Issue No. 04  
Date of Publication 30-Nov-2017  
Name of the Publisher MDPI AG, Basel  
DOI [10.3390/life7040051](https://doi.org/10.3390/life7040051)

Author(s) **Kanyal, Abhishek; Rawat, Mukul; Gurung, Pratima;**  
Choubey, Deepak; Krishanpal, Anamika and  
**Karmodiya, Krishanpal**  
Title Genome-wide survey and phylogenetic analysis of histone  
acetyltransferases and histone deacetylases of  
*Plasmodium falciparum*  
Name of the Journal BMC Plant Biology  
Date of Publication 28-Dec-2017  
Name of the Publisher Wiley  
DOI [10.1111/febs.14376](https://doi.org/10.1111/febs.14376)

## Chemistry

Author(s) **Palvai, Sandeep; Mahesh Kuman, Meenu;** Sengupta, Poulomi and  
**Basu, Sudipta.**  
Title Hyaluronic Acid Layered Chimeric Nanoparticles: Targeting  
MAPK-PI3K Signaling Hub in Colon Cancer Cells  
Name of the Journal ACS Omega  
Vol. No. 02  
Issue No. 11  
Page No. 7868–7880  
Date of Publication 14-Nov-2017  
Name of the Publisher American Chemical Society  
DOI [10.1021/acsomega.7b01315](https://doi.org/10.1021/acsomega.7b01315)

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Author(s) **Palvai, Sandeep; Anandi, Libi; Sarkar, Sujit; Augustus, Meera;**  
Roy, Sudip; **Lahiri, Mayurika** and **Basu, Sudipta.**  
Title Drug-Triggered Self-Assembly of Linear Polymer into  
Nanoparticles for Simultaneous Delivery of Hydrophobic  
and Hydrophilic Drugs in Breast Cancer Cells  
Name of the Journal ACS Omega  
Vol. No. 2  
Issue No. 12  
Page No. 8730–8740  
Date of Publication 07-Dec-2017  
Name of the Publisher American Chemical Society  
DOI [10.1021/acsomega.7b01400](https://doi.org/10.1021/acsomega.7b01400)

Author(s) Bashir, Amna; Shukla, Sudhanshu ; Lew, Jia Haur;  
Shukla, Shashwat ; Bruno, Annalisa; Gupta, Disha; Baikie, Tom;  
**Patidar, Rahul;** Akhter, Zareen; Priyadarshi, Anish;  
Mathews, Nripan and Mhaisalkar, Subodh Gautam  
Title Spinel Co<sub>3</sub>O<sub>4</sub> Nanomaterials for Efficient and Stable Large Area  
Carbon-based Printed Perovskite Solar Cells  
Name of the Journal Nanoscale  
Date of Publication 22-Dec-2017  
Name of the Publisher The Royal Society of Chemistry  
DOI [10.1039/C7NR08289D](https://doi.org/10.1039/C7NR08289D)

Author(s) **Dasgupta, Rajarshi; Panda, Atanu; Pal, Shiv;**  
Muhasina, Puthan Veetil; De, Susmita; Parameswaran, Pattiyil and  
**Khan, Shabana.**  
Title Catalyst free boron carbon bond cleavage and facile formation  
of five-membered (PNBCC)over-bar heterocycles  
Name of the Journal Dalton Transactions  
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Issue No. 44  
Page No. 15190-15194  
Date of Publication 28-Nov-2017  
Name of the Publisher The Royal Society of Chemistry  
DOI [10.1039/c7dt03565a](https://doi.org/10.1039/c7dt03565a)

## Earth and Climate Sciences

Author(s) **Joshi, M.P.; Samanta, A.; Tripathy, G.R. and Rajamani, S.**  
Title Formation and Stability of Prebiotically Relevant Vesicular  
Systems in Terrestrial Geothermal Environments  
Name of the Journal Life  
Vol. No. 07  
Issue No. 04  
Date of Publication 30-Nov-2017  
Name of the Publisher MDPI AG, Basel  
DOI [10.3390/life7040051](https://doi.org/10.3390/life7040051)

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## Mathematics

Author(s) **Akhtar, Yasmeen and Maity, Soumen.**  
Title Mixed covering arrays on 3-uniform hypergraphs  
Name of the Journal Discrete Applied Mathematics  
Vol. No. 232  
Page.No 8-22  
Date of Publication 11-Dec-2017  
Name of the Publisher Elsevier  
DOI <https://doi.org/10.1016/j.dam.2017.08.023>

## Physics

Author(s) **Pendse, Abhijit and Bhattacharyay, Arijit.**  
Title Effect of non-local interactions on the vortex solution in Bose-Einstein Condensates  
Name of the Journal European Physical Journal B  
Vol. No. 90  
Page.No 244  
Date of Publication 11-Dec-2017  
Name of the Publisher Springer  
DOI <https://doi.org/10.1140/epjb/e2017-80213-6>

Author(s) **Bhosale, Udaysinh T.**  
Title Entanglement transitions induced by large deviations  
Name of the Journal Physical Review E  
Vol. No. 96  
Issue. No. 06  
Date of Publication 28-Dec-2017  
Name of the Publisher American Physical Society  
DOI <https://doi.org/10.1103/PhysRevE.96.062149>

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