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

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Biology

Author(s) Palani S.; Chew T.G.; Ramanujam S.; Kamnev A.; **Harne S.**; Chapa-Y-Lazo B.; Hogg R.; Sevugan M.; Mishra M.; **Gayathri P.** and Balasubramanian M.K.
Title Motor Activity Dependent and Independent Functions of Myosin II Contribute to Actomyosin Ring Assembly and Contraction in *Schizosaccharomyces pombe*.
Name of the Journal Current Biology
Vol. No. 27
Issue No. 05
Page No. 751-757
Date of Publication 06-Mar-2017
Name of the Publisher Elsevier
DOI <http://dx.doi.org/10.1016/j.cub.2017.01.028>

Author(s) **Gayathri P.**
Title Bacterial Actins and Their Interactors.
Name of the Journal Current Topics in Microbiology and Immunology
Vol. No. 399
Page No. 221-242
Date of Publication 6-Nov-2016
Name of the Publisher Springer
DOI [10.1007/82_2016_31](http://dx.doi.org/10.1007/82_2016_31)

Author(s) **Mahajan, Gaurang** and Mande, Shekhar C.
Title Using structural knowledge in the protein data bank to inform the search for potential host-microbe protein interactions in sequence space: application to *Mycobacterium tuberculosis*
Name of the Journal BMC Bioinformatics
Vol. No. 18
Issue No. 201
Date of Publication 4-Apr-2017
Name of the Publisher Biomed Central
DOI [10.1186/s12859-017-1550-y](http://dx.doi.org/10.1186/s12859-017-1550-y)

Author(s) Hannapel D.J.; Sharma P.; Lin T. and **Banerjee A.K.**
Title An Update on the Tuber Activation Pathway: The multiple signals that control tuber formation.
Name of the Journal Plant Physiology.
Date of Publication 18-Apr-2017
Name of the Publisher American Society of Plant Biologists
DOI [10.1104/pp.17.00272](http://dx.doi.org/10.1104/pp.17.00272)

Author(s) Jafurulla, M.d.; Bandari, Suman; **Pucadyil, Thomas J.** and Chattopadhyay, Amitabha
Title Sphingolipids modulate the function of human serotonin(1A) receptors: Insights from sphingolipid-deficient cells
Name of the Journal Biochimica ET Biophysica Acta-Biomembranes
Vol. No. 1859
Issue No. 04
Page No. 598-604
Date of Publication 01-Apr-17
Name of the Publisher Elsevier
DOI [10.1016/j.bbamem.2016.10.016](https://doi.org/10.1016/j.bbamem.2016.10.016)

Chemistry

Author(s) **Datar, Avdhoot** and **Hazra, Anirban.**
Title Pathways for Excited-State Nonradiative Decay of 5,6-Dihydroxyindole, a Building Block of Eumelanin
Name of the Journal Journal of Physical Chemistry A
Vol. No. 212
Issue No. 14
Page No. 2790–2797
Date of Publication 17-Mar-2017
Name of the Publisher American Chemical Society
DOI [10.1021/acs.jpca.7b01110](https://doi.org/10.1021/acs.jpca.7b01110)

Author(s) **Ghosh, Bappa** and **Chaudhury, Srabanti.**
Title Fluctuation theorems for total entropy production in generalized Langevin systems
Name of the Journal Physica A: Statistical Mechanics and its Applications,
Vol. No. 466
Page No. 133-139
Date of Publication 15-Jan-2017
Name of the Publisher Elsevier
DOI <https://doi.org/10.1016/j.physa.2016.09.001>

Author(s) **Singh, Divya** and **Chaudhury, Srabanti.**
Title A stochastic theoretical approach to study the size-dependent catalytic activity of a metal nanoparticle at the single molecule level
Name of the Journal Physical Chemistry Chemical Physics
Vol. No. 19
Page No. 8889-8895
Date of Publication 03-Mar-2017
Name of the Publisher The Royal Society of Chemistry
DOI [10.1039/C6CP07895H](https://doi.org/10.1039/C6CP07895H)

Author(s) **Thimmappa, Ravikumar; Fawaz, Mohammed; Devendrachari, Mruthyunjayachari Chattanahalli; Gautam, Manu; Kottaichamy, Alagar Raja; Shafi, Shahid Pottachola; Thotiyl, Musthafa Ottakam.**

Title Anisotropic Amplification of Proton Transport in Proton Exchange Membrane Fuel Cells

Name of the Journal Chemical Physics Letters

Vol. No. 679

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Date of Publication 25-Apr-2017

Name of the Publisher Elsevier

DOI <http://doi.org/10.1016/j.cplett.2017.04.080>

Author(s) **Shinde, Sopan Valiba and Talukdar, Pinaki.**

Title A Dimeric Bis(melamine)-Substituted Bispidine for Efficient Transmembrane H⁺/Cl⁻ Cotransport

Name of the Journal Angewandte Chemie- International Edition

Vol. No. 56

Issue No. 15

Page No. 4238–4242

Date of Publication 3-Apr-2017

Name of the Publisher Wiley

DOI [10.1002/anie.201700803](http://doi.org/10.1002/anie.201700803)

Mathematics

Author(s) **Chorwadwala, Anisa M H.**

Title A glimpse of Shape Optimization Problems

Name of the Journal Current Science

Vol. No. 112

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Page No. 1474-1477

Date of Publication 10-Apr-2017

Name of the Publisher Indian Academy of Sciences

DOI [10.18520/cs/v112/i07/1474-1477](http://doi.org/10.18520/cs/v112/i07/1474-1477)

Physics

Author(s) Roy, Tuhin S. and **Thalapillil, Arun M.**

Title Augmenting collider searches and enhancing discovery potentials through stochastic jet grooming

Name of the Journal Physical Review D

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Issue No. 07

Date of Publication 5-Apr-2017

Name of the Publisher American Physical Society

DOI <https://doi.org/10.1103/PhysRevD.95.075002>

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Author(s) **Sekhon, Amandeep; Ajith, V.J. and Patil, Shivprasad.**
Title The effect of boundary slippage and nonlinear rheological response on flow of nanoconfined water
Name of the Journal Journal of Physics Condensed Matter
Vol. No. 29
Issue No. 20
Page No. 1-9
Date of Publication 13-Apr-2017
Name of the Publisher IOP Publishing
DOI <https://doi.org/10.1088/1361-648X/aa682c>

Author(s) Rondiya, Sachin ; **Wadnerkar, Nitin** ; Jadhav, Yogesh ;
Jadkar, Sandesh ; Haram, Santosh and **Kabir, Mukul.**
Title Structural, Electronic, and Optical Properties of Cu₂NiSnS₄:
A Combined Experimental and Theoretical Study toward
Photovoltaic Applications
Name of the Journal Chemistry Materials
Vol. No. 29
Issue No. 07
Page No. 3133–3142
Date of Publication 14-Mar-2017
Name of the Publisher ACS Publications
DOI [10.1021/acs.chemmater.7b00149](https://doi.org/10.1021/acs.chemmater.7b00149)

Author(s) **Raja, K. Sasikumar; Ingale, Madhusudan;** Ramesh, R.;
Subramanian, Prasad; Manoharan, P. K. and Janardhan, P.
Title Amplitude of solar wind density turbulence from 10 to 45
Name of the Journal Journal of Geophysical Research: Space Physics
Vol. No. 121
Issue No. 12
Date of Publication 20-Dec-2016
Name of the Publisher Wiley
DOI [10.1002/2016JA023254](https://doi.org/10.1002/2016JA023254)

Author(s) **Bajpai, Ashna;** Aslam, Zabeada; Hampel, Silke;
Klingeler, Ruediger and Grobert, Nicole
Title A carbon-nanotube based nano-furnace for in-situ restructuring
of a magnetoelectric oxide
Name of the Journal Carbon
Vol. No. 114
Page No. 291-300
Date of Publication 01-Apr-2017
Name of the Publisher Elsevier
DOI [10.1016/j.carbon.2016.12.008](https://doi.org/10.1016/j.carbon.2016.12.008)

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Author(s)	Bansode, Umesh and Ogale Satishchandra
Title	On-axis pulsed laser deposition of hybrid perovskite films for solar cell and broadband photo-sensor applications
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Name of the Publisher	American Institute of Physics
DOI	10.1063/1.4979865
