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# Biology

Author(s) **Chaphalkar, Anushree R.; Jain, Kunalika; Gangan, Manasi S. and Athale, Chaitanya A.**

Title Automated Multi-Peak Tracking Kymography (AMTraK): A Tool to Quantify Sub- Cellular Dynamics with Sub-Pixel Accuracy

Name of the Journal PLOS One

Vol. No. 11

Issue No. 12

Date of Publication 19-DEC-2016

Name of the Publisher PLOS

DOI <http://dx.doi.org/10.1371/journal.pone.0167620>

Author(s) Muralidharan,Bhavana; Khatri, Zeba; Maheshwari, Upasana; Gupta, Ritika; Roy, Basabdatta; **Pradhan, Saurabh J.; Karmodiya, Krishanpal;** Padmanabhan,Hari; Shetty, Ashwin; Balaji, Chinthapalli; Seetharam, Ullas Kolthur; Macklis, Jeffrey D.; **Galande, Sanjeev** and Tole, Shubha.

Title LHX2 Interacts with the NuRD Complex and Regulates Cortical Neuron Subtype Determinants Fezf2 and Sox11

Name of the Journal Journal of Neuroscience

Page No. 1-38

Date of Publication 1-DEC-2016

Name of the Publisher Society for Neuroscience

DOI <https://doi.org/10.1523/JNEUROSCI.2836-16.2016>

Author(s) **Ghate T.H.;** Sharma, P.; **Kondhare, K.R.;** Hannapel, D.J. and **Banerjee, Anjan K.**

Title The mobile RNAs, StBEL11 and StBEL29, suppress growth of tubers in potato

Name of the Journal Plant Molecular Biology

Page No. 1-16

Date of Publication 13-JAN-2017

Name of the Publisher Springer

DOI [10.1007/s11103-016-0582-4](http://dx.doi.org/10.1007/s11103-016-0582-4)

## Chemistry

Author(s) **Chauhan, Preeti; Bora, Prerona; Ravikumar, Govindan; Jos, Swetha and Chakrapani, Harinath.**  
Title Esterase Activated Carbonyl Sulfide/Hydrogen Sulfide (H<sub>2</sub>S) Donors  
Name of the Journal Organic Letters  
Volume No. 19  
Issue No. 1  
Page No. 62-65  
Date of Publication 20-DEC2016  
Name of the Publisher ACS Publications  
DOI [10.1021/acs.orglett.6b03336](https://doi.org/10.1021/acs.orglett.6b03336)

Author(s) **Aralekallu, Shambhulinga; Thimmappa, Ravikumar; Gaikwad, Pramod; Devendrachari, Mruthyunjayachari Chattanahalli; Kottaichamy, Alagar Raja; Shafi, Shahid Pottachola; Koodlur, Sannegowda Lokesh; Sánchez, Julio and Thotiyil, Musthafa Ottakam.**  
Title Tuning the Interfacial Chemistry of Redox Active Polymer for Bifunctional Probing  
Name of the Journal ChemElectroChem  
Page No. 1-18  
Date of Publication 12-JAN-2017  
Name of the Publisher Wiley  
DOI [10.1002/celec.201600775](https://doi.org/10.1002/celec.201600775)

Author(s) **Nandi, Aditi; Mallick, Abhik; More, Piyush;**  
Title Sengupta, Poulomi; **Ballav, Nirmalya and Basu, Sudipta.**  
Cisplatin-induced self-assembly of graphene oxide sheets into spherical nanoparticles for damaging sub-cellular DNA  
Name of the Journal Chemical Communications  
Volume No. 53  
Page No. 1409-1412  
Date of Publication 4-JAN-2017  
Name of the Publisher The Royal Society of Chemistry  
DOI [10.1039/C6CC09006K](https://doi.org/10.1039/C6CC09006K)

## Earth and Climate Science

Author(s) **Saikia,Utpal; Das, Ritima and Rai, S.S.**  
Title Possible magmatic underplating beneath the west coast of India and adjoining Dharwar craton: Imprint from Archean crustal evolution to breakup of India and Madagascar  
Name of the Journal Earth and Planetary Science Letters  
Volume No. 462  
Page No. 1-14  
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DOI <http://dx.doi.org/10.1016/j.epsl.2017.01.004>

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## Humanities and Social Sciences

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Issue No.	2
Page No.	63-69
Date of Publication	DEC-2016
Name of the Publisher	Journal of Islamic Architecture
DOI	<a href="https://doi.org/10.18860/jia.v4i2.3514">10.18860/jia.v4i2.3514</a>

## Mathematics

Author(s)	<b>Pai, R Venketeswara</b> ; Ramasubramanian, K.; Srinivas, M.D. and Sriram, M.S.
Title	The Candravakyas of Mādhava
Name of the Journal	Ganita Bharati
Volume No.	38
Issue No.	2
Page No.	1-29
Date of Publication	DEC-2016
Name of the Publisher	Prints Publications Pvt Ltd

## Physics

Author(s)	<b>Pai, R. Venketeswara</b> and Shylaja, B. S.
Title	Measurement of coordinates of Nakśatras in Indian astronomy
Name of the Journal	Current Science
Volume No.	111
Issue No.	9
Page No.	1551-1558
Date of Publication	10-NOV-2016
Name of the Publisher	Indian Academy of Sciences
DOI	<a href="http://www.currentscience.ac.in/Volumes/111/09/1551.pdf">http://www.currentscience.ac.in/Volumes/111/09/1551.pdf</a>

Author(s)	Jacob, Rinku; Harikrishnan, K. P.; Misra, R. and <b>Ambika, G.</b>
Title	Measure for degree heterogeneity in complex networks and its application to recurrence network analysis
Name of the Journal	Royal Society Open Science
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Date of Publication	11-JAN-2017
Name of the Publisher	The Royal Society Publishing
DOI	<a href="https://doi.org/10.1098/rsos.160757">10.1098/rsos.160757</a>

Author(s) **Bhosale, Udaysinh T. and Santhanam, M. S.**  
Title Signatures of bifurcation on quantum correlations:  
Case of the quantum kicked top  
Name of the Journal Physical Review E  
Volume No. 95  
Issue No. 1  
Date of Publication 27-JAN-2017  
Name of the Publisher American Physical Society  
DOI [10.1103/PhysRevE.95.012216](https://doi.org/10.1103/PhysRevE.95.012216)

Author(s) **Santhanam, M. S. and Kumar, Aanjaneya**  
Title Record Statistics of Equities and Market Indices  
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Future Directions  
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Name of the Publisher Springer International Publishing

Author(s) Patil, Sumati ; Kolekar, Sadhu and **Deshpande, Aparna.**  
Title Revisiting HOPG superlattices: Structure and conductance  
properties  
Name of the Journal Surface Science  
Volume No. 658  
Issue No. 9  
Page No. 55-60  
Date of Publication 23-DEC-2016  
Name of the Publisher Elsevier  
DOI <http://dx.doi.org/10.1016/j.susc.2016.12.002>

Author(s) **Pai, R Venketeswara;** Ramasubramanian, K.; Sriram, M.S. and  
Srinivas, M.D.  
Title An overview of the vakya method of computing the longitudes of  
the sun and moon  
Name of the Journal History of Indian Astronomy: A Handbook  
Page No. 430-461  
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