



SRINIVASA RAMANUJAN LIBRARY

New Publications of Faculty, Scientists and Students of IISER Pune.

Contents

Subject	Page No.
Biology	2
Chemistry	2
Humanities and Social Sciences	4
Physics	5

Biology

Author(s) Hannapel, David J. and **Banerjee, Anjan K.**
Title Multiple Mobile mRNA Signals Regulate Tuber Development in Potato
Name of the Journal Plants
Vol. No. 6
Issue No. 1
Page No. 1-17
Date of Publication 10-Feb-2017
Name of the Publisher MDPI
DOI [10.3390/plants6010008](https://doi.org/10.3390/plants6010008)

Chemistry

Author(s) **Karmakar, Avishek; Joarder, Biplab; Mallick, Abhik; Samanta, Partha; Desai, Aamod V.; Basu, Sudipta and Ghosh, Sujit K.**
Title Aqueous phase sensing of cyanide ions using a hydrolytically stable metal–organic framework
Name of the Journal Chemical Communications
Vol. No. 53
Page No. 1253-1256
Date of Publication 22-Dec-2016
Name of the Publisher The Royal Society of Chemistry
DOI [10.1039/C6CC08557A](https://doi.org/10.1039/C6CC08557A)

Author(s) **Mete, Trimbak B.; Khopade, Tushar M. and Bhat, Ramakrishna G.**
Title Transition-metal-free regioselective thiocyanation of phenols, anilines and heterocycles
Name of the Journal Tetrahedron Letters
Vol. No. 58
Issue No. 5
Page No. 415-418
Date of Publication 1-Feb-2017
Name of the Publisher Elsevier
DOI [10.1016/j.tetlet.2016.12.043](https://doi.org/10.1016/j.tetlet.2016.12.043)

Author(s) **Mohite, Amar R.; Mete, Trimbak B. and Bhat, Ramakrishna G.**
Title An expedient stereoselective synthesis of (E)- α,β -unsaturated esters and thioesters using $\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$
Name of the Journal Tetrahedron Letters
Vol. No. 58
Issue No. 8
Page No. 770-774
Date of Publication 22-Feb-2017
Name of the Publisher Elsevier
DOI [10.1016/j.tetlet.2017.01.024](https://doi.org/10.1016/j.tetlet.2017.01.024)

Author(s) **Thimmappa, Ravikumar; Devendrachari, Mruthyunjayachari Chattanahalli; Kottaichamy, Alagar Raja; Aralekallu, Shambhulinga; Gautam, Manu; Shafi, Shahid Pottachola; Bhat, Zahid Manzoor and Thotiyl, Musthafa Ottakam.**
Title 2.6 V Aqueous Battery with a Freely Diffusing Electron Acceptor
Name of the Journal The Journal of Physical Chemistry C
Vol. No. 121
Issue No. 7
Page No. 3703-3713
Date of Publication 2-Feb-2017
Name of the Publisher ACS Publications
DOI [10.1021/acs.jpcc.6b11180](https://doi.org/10.1021/acs.jpcc.6b11180)

Author(s) **George, Jerrin Thomas and Srivatsan, Seergazhi G.**
Title Posttranscriptional chemical labeling of RNA by using bioorthogonal chemistry
Name of the Journal Methods
Date of Publication 17-Feb-2017
Name of the Publisher Elsevier
DOI [10.1016/j.ymeth.2017.02.004](https://doi.org/10.1016/j.ymeth.2017.02.004)

Author(s) **Nuthanakanti, Ashok; Boerneke, Mark A.; Hermann, Thomas and Srivatsan, Seergazhi G.**
Title Structure of the Ribosomal RNA Decoding Site Containing a Selenium-Modified Responsive Fluorescent Ribonucleoside Probe
Name of the Journal Angewandte Chemie
Vol. No. 56
Issue No. 10
Page No. 2640-2644
Date of Publication 3-Feb-2017
Name of the Publisher Wiley
DOI [10.1002/anie.201611700](https://doi.org/10.1002/anie.201611700)

Author(s) **Gautam, Manu; Devendrachari, Mruthyunjayachari Chattanahalli; Thimmappa, Ravikumar; Kottaichamy, Alagar Raja; Shafi, Shahid Pottachola; Gaikwad, Pramod;**
Harish Makri Nimbegondi Kotresh and **Thotiyl, Musthafa Ottakam.**

Title Polarity governed selective amplification of through plane proton shuttling in proton exchange membrane fuel cells

Name of the Journal Physical Chemistry Chemical Physics

Date of Publication 20-Feb-2017

Name of the Publisher The Royal Society of Chemistry

DOI [10.1039/C6CP07724B](https://doi.org/10.1039/C6CP07724B)

Author(s) Ghosh, Soumadwip; Dey, Souvik; **Patel, Mahendra** and Chakrabarti, Rajarshi.

Title Can Ammonium-Based Room Temperature Ionic Liquid Counteract the Urea – Induced Denaturation of a Small Peptide?

Name of the Journal Physical Chemistry Chemical Physics

Date of Publication 22-Feb-2017

Name of the Publisher The Royal Society of Chemistry

DOI [10.1039/C6CP08842B](https://doi.org/10.1039/C6CP08842B)

Author(s) **Roy, Arundhati; Biswas, Oindrila** and **Talukdar, Pinaki.**

Title Bis(sulfonamide) transmembrane carriers allow pH-gated inversion of ion selectivity

Name of the Journal Chemical Communications

Vol. No. 53

Page No. 3122-3125

Date of Publication 20-Feb-2017

Name of the Publisher The Royal Society of Chemistry

DOI [10.1039/C7CC00165G](https://doi.org/10.1039/C7CC00165G)

Humanities and Social Sciences

Author(s) **Pai, R Venketeswara;** Ramasubramanian, K.; Srinivas, M.D. and Sriram, M.S.

Title The Candravakyas of Mād̥hava

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

Author(s) **Pai, R. Venketeswara 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

Author(s) Anusha, R.; Nithya, C.; **Pai, R. Venketeswara** and Ramanathan, V.
Title Coding the encoded: automatic decryption of kaTapayAdi and AryabhaTa's systems of numeration
Name of the Journal Current Science
Vol. No. 112
Issue No. 3
Page No. 588-591
Date of Publication 10-Feb-2017
Name of the Publisher Current Science Association in collaboration with the Indian Academy of Sciences
DOI <http://www.currentscience.ac.in/Volumes/112/03/0588.pdf>

Physics

Author(s) **Tripathi, Ravi P. N.; Vasista, Adarsh B.; Chikkaraddy, Rohit and Pavan Kumar, G. V.**
Title Radiative Channeling of Nanowire Frenkel Exciton-Polaritons through Surface Plasmons
Name of the Journal Advanced Optical Material
Vol. No. 5
Issue No. 4
Date of Publication 27-Jan-2017
Name of the Publisher John Wiley & Sons
DOI [10.1002/adom.201600873](https://doi.org/10.1002/adom.201600873)

Author(s) **Mukherjee, B.; Kaushik, N.; Tripathi, Ravi P. N.; Joseph, A. M.; Mohapatra, P. K.; Dhar, S.; Singh, B. P.; Pavan Kumar, G. V.; Simsek, E. and Lodha, S.**
Title Exciton Emission Intensity Modulation of Monolayer MoS₂ via Au Plasmon Coupling
Name of the Journal Scientific Reports
Volume No. 7
Article No. 41175
Date of Publication 30-Jan-2017
Name of the Publisher Macmillan Publishers Limited
DOI [10.1038/srep41175](https://doi.org/10.1038/srep41175)

Go to top

Author(s) **Kumar, Jitender; Panja, Soumendranath; Dengre, Shanu and Nair, Sunil.**
Title Identification of a Griffiths singularity in a geometrically frustrated antiferromagnet
Name of the Journal Physical Review B
Vol. No. 95
Issue No. 5
Date of Publication 1-Feb-2017
Name of the Publisher American Physical Society.
DOI [10.1103/PhysRevB.95.054401](https://doi.org/10.1103/PhysRevB.95.054401)

Author(s) Brauner, Tomáš and **Kadam, Saurabh V.**
Title Anomalous electrodynamics of neutral pion matter in strong magnetic fields
Name of the Journal Journal of High Energy Physics
Date of Publication 3-Mar- 2017
Name of the Publisher Springer
DOI [10.1007/JHEP03\(2017\)015](https://doi.org/10.1007/JHEP03(2017)015)

Author(s) **Verma, Gunjan; Vishwakarma, Chetan; Dharmadhikari, C. V. and Rapol, Umakant D.**
Title A compact atomic beam based system for Doppler-free laser spectroscopy of Strontium atoms
Name of the Journal Review of Scientific Instruments
Volume No. 88
Date of Publication 8-Mar-2017
Name of the Publisher American Institute of Physics
DOI [10.1063/1.4977593](https://doi.org/10.1063/1.4977593)

Author(s) **Jacob, Rinku; Harikrishnan, K. P.; Misra, R. and Ambika, G.**
Title Cross over of recurrence networks to random graphs and random geometric graphs
Name of the Journal Pramana
Vol. No. 88
Issue No. 37
Date of Publication 27-Jan-2017
Name of the Publisher Springer
DOI [10.1007/s12043-016-1339-y](https://doi.org/10.1007/s12043-016-1339-y)
