



SRINIVASA RAMANUJAN LIBRARY

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

Contents

Subject	Page No.
Biology	2
Chemistry	3
Physics	5

Biology

Author(s) **Bang, Alok**; Luque, Gloria M. and Courchamp, Franck.
Title Live-in if you must: density-dependent nest-sharing between two competitive ant species
Name of the Journal Current Science
Vol. No. 112
Issue No. 08
Page No. 1631-1632
Date of Publication 25-Apr-2017
Name of the Publisher Indian Academy of Sciences
DOI <http://www.currentscience.ac.in/Volumes/112/08/1631.pdf>

Author(s) **Soni, Neelesh** and **Madhusudhan, M.S.**
Title Computational modeling of protein assemblies
Name of the Journal Current Opinion in Structural Biology
Vol. No. 44
Page No. 179-189
Date of Publication Jun-2017
Name of the Publisher Elsevier
DOI [10.1016/j.sbi.2017.04.006](https://doi.org/10.1016/j.sbi.2017.04.006)

Author(s) **Farheena, Nida**; **Sen, Neeladri**; **Nair, Sanjana**; Tan, Kuan Pern and **Madhusudhan, M.S.**
Title Depth dependent amino acid substitution matrices and their use in predicting deleterious mutations
Name of the Journal Progress in Biophysics and Molecular Biology
Date of Publication 15-Feb-2017
Name of the Publisher Elsevier
DOI [10.1016/j.pbiomolbio.2017.02.004](https://doi.org/10.1016/j.pbiomolbio.2017.02.004)

Author(s) Sahoo, Manas Ranjan; Gaikwad, Swati; Khuperkar, Deepak; Maitreyi Ashok, Mary Helen, Yadav, Santosh Kumar; Singh, Aditi; Magre, Indrasen; Deshmukh, Prachi; Dhanvijay, Supriya; Sahoo, Pabitra Kumar; **Ramtirtha, Yogendra**; **Madhusudhan, Mallur Srivatsan**; **Pananghat, Gayathri**; Seshadri, Vasudevan and Joseph, Jomon
Title Nup358 binds to AGO proteins through its SUMO-interacting motifs and promotes the association of target mRNA with miRISC
Name of the Journal Embo Reports
Vol. No. 18
Issue No. 02
Page No. 241-263
Date of Publication 01-Feb-2017
Name of the Publisher Wiley
DOI [10.15252/embr.201642386](https://doi.org/10.15252/embr.201642386)

Go to top

Author(s) Short, Judith M.; Liu, Yang; Chen, Shaoxia; **Soni, Neelesh; Madhusudhan, Mallur S.**; Shivji, Mahmud K.K. and Venkitaraman, Ashok R.

Title High-resolution structure of the presynaptic RAD51 filament on single-stranded DNA by electron cryo-microscopy

Name of the Journal Nucleic Acids Research

Vol. No. 44

Issue No. 19

Page No. 9017-9030

Date of Publication 5-Sept-2016

Name of the Publisher Oxford University Press

DOI [10.1093/nar/gkw783](https://doi.org/10.1093/nar/gkw783)

Chemistry

Author(s) **Singh, Divya and Chaudhury, Srabanti.**

Title Statistical properties of fluctuating enzymes with dynamic cooperativity using a first passage time distribution formalism

Name of the Journal The Journal of Chemical Physics

Vol. No. 146

Issue No. 14

Date of Publication 14-Apr-2017

Name of the Publisher American Institute of Physics

DOI [10.1063/1.4979945](https://doi.org/10.1063/1.4979945)

Author(s) Lustig, William P.; **Mukherjee, Soumya**; Rudd, Nathan D.; **Desai, Aamod V.**; Li, Jing and **Gosh Sujit K.**

Title Metal-organic frameworks: functional luminescent and photonic materials for sensing applications

Name of the Journal Chemical Society Reviews

Date of Publication 02-May-2017

Name of the Publisher Royal Society of Chemistry

DOI [10.1039/C6CS00930A](https://doi.org/10.1039/C6CS00930A)

Author(s) Mondal, Sohidul Islam; Sen, Saumik; **Hazra, Anirban** and Patwari, G. Naresh

Title π -Stacked Dimers of Fluorophenylacetylenes: Role of Dipole Moment

Name of the Journal The Journal of Physical Chemistry A

Vol.No 121

Issue No. 18

Page No. 3383-3391

Date of Publication 13-Apr-2017

Name of the Publisher American Chemical Society

DOI [10.1021/acs.jpca.7b00209](https://doi.org/10.1021/acs.jpca.7b00209)

Go to top

Author(s) Shukla, Prashant; **Khodade, Vinayak S.**; **Sharath Chandra, Mallojjala; Chauhan, Preeti** ; Mishra, Saurabh;
Siddaramappa, Shivakumara; Bulagonda, Eswarappa Pradeep;
Singh, Amit and **Chakrapani, Harinath**

Title On Demand" Redox Buffering by H₂S Contributes to Antibiotic Resistance Revealed by a Bacteria-Specific H₂S Donor

Name of the Journal Chemical Science

Page No. 1-3

Date of Publication 27-Apr-2017

Name of the Publisher Royal Society of Chemistry

DOI [10.1039/C7SC00873B](https://doi.org/10.1039/C7SC00873B)

Author(s) **Ravikumar, Govindan; Bagheri, Meisam; Saini, Deepak K.**
and **Chakrapani, Harinath**

Title FLUORO/NO, a Nitric Oxide Donor with a Fluorescence Reporter

Name of the Journal ChemBioChem

Date of Publication 4-May-2017

Name of the Publisher John Wiley & Sons

DOI [10.1002/cbic.201700155](https://doi.org/10.1002/cbic.201700155)

Author(s) **Mullangi, Dinesh; Shalini, Sorout; Nandi, Shyamapada;**
Choksi, Bhavin and **Vaidhyanathan, Ramanathan**

Title Super-hydrophobic covalent organic frameworks for chemical resistant coatings and hydrophobic paper and textile composites

Name of the Journal Journal of Materials Chemistry A

Vol. No. 5

Issue No. 8

Page No. 8376-8384

Date of Publication 14-May-2017

Name of the Publisher Royal Society of Chemistry

DOI [10.1039/c7ta01302g](https://doi.org/10.1039/c7ta01302g)

Author(s) **Nandi, Shyamapada;** Rother, Jens; **Chakraborty, Debanjan;**
Maity, Rahul; Werner-Zwanziger, Ulrike and
Vaidhyanathan, Ramanathan

Title Exceptionally stable Bakelite-type polymers for efficient pre-combustion CO₂ capture and H₂ purification

Name of the Journal Journal of Materials Chemistry A

Vol. No. 5

Issue No. 18

Page No. 8431-8439

Date of Publication 14-May-2017

Name of the Publisher Royal Society of Chemistry

DOI [10.1039/c7ta01979c](https://doi.org/10.1039/c7ta01979c)

[Go to top](#)

Author(s) **Devatha, Gayathri; Roy, Soumendu; Rao, Anish; Mallick, Abhik; Basu, Sudipta and Pillai, Pramod P.**
Title Electrostatically driven resonance energy transfer in “cationic” biocompatible indium phosphide quantum dots
Name of the Journal Chemical Science
Vol. No. 8
Issue No. 5
Page No. 3879-3884
Date of Publication 1-May-2017
Name of the Publisher Royal Society of Chemistry
DOI [10.1039/c7sc00592j](https://doi.org/10.1039/c7sc00592j)

Physics

Author(s) **Pande, Varad R.** and Shajib, Anil.
Title Minimum disturbance rewards with maximum possible classical correlations
Name of the Journal Physics Letters A
Vol. No. 381
Issue No. 25 & 26
Page No. 2045–2049
Date of Publication 28-Apr-2017
Name of the Publisher Elsevier
DOI [10.1016/j.physleta.2017.04.036](https://doi.org/10.1016/j.physleta.2017.04.036)

Author(s) **Singh, Danveer; Sharma, Deepak Kumar; Chaubey, Shailendra and Pavan Kumar. G. V.**
Title Angular Emission from 1D and 2D Meso- and Nano-Structures: Probed by Dual-Channel Fourier-Plane Microscopy
Name of the Journal Optics Communications
Vol. No. 398
Page No. 112-121
Date of Publication 01-Sept-2017
Name of the Publisher Elsevier
DOI [10.1016/j.optcom.2017.04.037](https://doi.org/10.1016/j.optcom.2017.04.037)

Author(s) Ganguly, Shreemoyee; **Kabir, Mukul** and Saha-Dasgupta, Tanusree
Title Magnetic and electronic crossovers in graphene nanoflakes
Name of the Journal Physical Review B
Vol. No. 95
Issue No. 17
Date of Publication 1-May-2017
Name of the Publisher American Physical Society
DOI [10.1103/PhysRevB.95.174419](https://doi.org/10.1103/PhysRevB.95.174419)

Go to top