



LIBRARY

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

September 2015

Contents

Subject	Page No.
Biology	2
Chemistry	2
Earth and Climate Sciences	5
Mathematics	5
Physics	6

Biology

Author(s) **Karmodiya, Krishanpal; Pradhan, Saurabh J.; Joshi, Bhagyashree; Jangid, Rahul; Chandramouli Reddy, Puli and Galande, Sanjeev**

Title A comprehensive epigenome map of Plasmodium falciparum reveals unique mechanisms of transcriptional regulation and identifies H3K36me2 as a global mark of gene suppression

Name of the Journal Epigenetics & Chromatin

Volume No. 8

Issue No. 32

Date of Publication 17-SEP-2015

Name of the Publisher Springer

DOI 10.1186/s13072-015-0029-1

Author(s) **Sawant, A. A.; Tanpure, A. A.; Mukherjee, P. P.; Athavale, S.; Kelkar, A.; Galande, S. and Srivatsan, S. G.**

Title A versatile toolbox for posttranscriptional chemical labeling and imaging of RNA

Name of the Journal Nucleic Acids Research

Date of Publication 17-SEP-2015

Name of the Publisher Oxford University Press

DOI 10.1093/nar/gkv903

Author(s) **Bapat, Niraja V. and Rajamani, Sudha**

Title Effect of Co-solutes on Template-Directed Nonenzymatic Replication of Nucleic Acids

Name of the Journal Journal of Molecular Evolution

Date of Publication 06-OCT-2015

Name of the Publisher Springer

DOI 10.1007/s00239-015-9700-1

Chemistry

Author(s) **Tanpure, A. A. and Srivatsan, S. G**

Title Conformation-sensitive nucleoside analogues as topology-specific fluorescence turn-on probes for DNA and RNA G-quadruplexes

Name of the Journal Nucleic Acids Research

Date of Publication 2015

Name of the Publisher Oxford University Press

DOI 10.1093/nar/gkv743

[Go to top](#)

Author(s) **Sawant, A. A.; Tanpure, A. A.; Mukherjee, P. P.; Athavale, S.; Kelkar, A.; Galande, S. and Srivatsan, S. G.**
Title A versatile toolbox for posttranscriptional chemical labeling and imaging of RNA
Name of the Journal Nucleic Acids Research
Date of Publication 17-SEP-2015
Name of the Publisher Oxford University Press
DOI 10.1093/nar/gkv903

Author(s) **Karmakar, Avishek; Desai, Aamod V. and Ghosh, Sujit K.**
Title Ionic metal-organic frameworks (iMOFs): Design principles and applications
Name of the Journal Coordination Chemistry Reviews
Date of Publication 10-SEP-2015
Name of the Publisher Elsevier
DOI 10.1016/j.ccr.2015.08.007

Author(s) **Manna, Biplab; Mukherjee, Soumya; Desai, Aamod; Sharma, V Shivani; Krishna, Rajamani and Ghosh, Sujit K.**
Title A π -electron deficient diaminotriazine functionalized MOF for selective sorption of benzene over cyclohexane.
Name of the Journal Chemical Communications
Volume No. 51
Page No. 15386-15389
Date of Publication 25-AUG-2015
Name of the Publisher Royal Society of Chemistry
DOI 10.1039/C5CC06128H

Author(s) **Islam, Maidu; Gayatri, Gaddamanugu and Hotha, Srinivas**
Title Influence of Steric Crowding on Diastereoselective Arabinofuranosylations.
Name of the Journal Journal of Organic Chemistry
Volume No. 80
Issue No. 16
Page No. 7937-7945
Date of Publication 21-JUL2015
Name of the Publisher American Chemical Society
DOI 10.1039/C5RA13298C

Author(s) **Gavvala, Krishna; Satpathi, Sagar and Hazra, Partha**
Title Ultrafast Dynamics of a Molecular Rotor in Chemical and Biological Nano-Cavities
Name of the Journal RSC Advances
Volume No. 5
Issue No. 89
Page No. 72793–72800
Date of Publication 11-AUG-2015
Name of the Publisher Royal Society of Chemistry
DOI 10.1039/C5RA13298C

Author(s) Pal, Sagar; Patra, Abhay Shankar; Ghorai, Soumitra; Sarkar, Amit Kumar; Mahato, Vivekananda; Sarkar, Supriyo and **Singh, R. P.**
Title Efficient and rapid adsorption characteristics of templating modified guar gum and silica nanocomposite toward removal of toxic reactive blue and Congo red dyes.
Name of the Journal Bioresource Technology
Volume No. 191
Page No. 291–299
Date of Publication SEP-2015
Name of the Publisher Elsevier Science Ltd.
DOI 10.1016/j.biortech.2015.04.099

Author(s) **Kumar, Mothukuri Ganesh** and **Gopi, Hosahudya N**
Title γ - and β -Peptide Foldamers from Common Multifaceted Building Blocks: Synthesis and Structural Characterization.
Name of the Journal Organic Letters
Volume No. 17
Issue No. 19
Page No. 4738–4741
Date of Publication 16-SEP-2015
Name of the Publisher American Chemical Society
DOI 10.1021/acs.orglett.5b02263

Author(s) **Kumar, Mothukuri Ganesh; Benke, Sushil N.; Raja, K. Muruga Poopathi** and **Gopi, Hosahudya N.**
Title Engineering polypeptide folding through trans double bonds: transformation of miniature β -meanders to hybrid helices
Name of the Journal Chemical Communications
Volume No. 51
Page No. 13397-13399
Date of Publication 15-JUL-2015
Name of the Publisher Royal Society of Chemistry
DOI 10.1039/C5CC04523A

[Go to top](#)

Earth and Climate Sciences

Author(s)	Das, Ritima ; Saikia, Utpal and Rai, S S
Title	The deep geology of South India inferred from Moho depth and Vp/Vs ratio
Name of the Journal	Geophysical Journal International
Volume No.	203
Issue No.	2
Page No.	910-926
Date of Publication	NOV-2015
Name of the Publisher	Oxford University Press
DOI	10.1093/gji/ggv351

Mathematics

Author(s)	Shekatkar, Snehal M. ; Bhagwat, Chandrasheel and Ambika, G.
Title	Divisibility patterns of natural numbers on a complex network
Name of the Journal	Scientific Reports
Volume No.	5
Date of Publication	16 September 2015
Name of the Publisher	Nature Publishing Group
DOI	10.1038/srep14280

AuAuthor(s)	Sebastian, Ronnie
Title	Examples of smash nilpotent cycles on rationally connected varieties
Name of the Journal	Journal of Algebra
Volume No.	438
Page No.	119-129
Date of Publication	15 September 2015
Name of the Publisher	Academic Press Inc Elsevier Science
DOI	10.1016/j.jalgebra.2015.05.006

Author(s) **Bhagwat, Chandrasheel and Pisolkar, Supriya**
Title On uniform lattices in real semisimple groups
Name of the Journal Proceedings of the American Mathematical Society
Date of Publication 15-Sep-2015
Name of the Publisher American Mathematical Society
URL <http://arxiv.org/pdf/1507.00653v2.pdf>

Physics

Author(s) **Ananth, Sudarshan; Brink, Lars and Mali, Mahendra**
Title Yang-Mills theories and quadratic forms
Name of the Journal Journal of High Energy Physics
Volume No. 153
Date of Publication 31-AUG-2015
Name of the Publisher Springer
DOI 10.1088/0004-637X/809/2/158

Author(s) **Shekatkar, Snehal M.; Bhagwat, Chandrasheel and Ambika, G.**
Title Divisibility patterns of natural numbers on a complex network
Name of the Journal Scientific Reports
Volume No. 5
Date of Publication 16 September 2015
Name of the Publisher Nature Publishing Group
DOI 10.1038/srep14280

Author(s) **Rejaul S. K.; Shirolkar, Mandar M; Dhara, Barun; Kulkarni, Sulabha and Deshpande, Aparna**
Title Enhancing the thermopower and tuning the resistivity in Bi₂Se₃ with Fe-doping
Name of the Journal Chemical Physics Letters
Volume No. 638
Page No. 94–98
Date of Publication 01-OCT-2015
Name of the Publisher Elsevier
DOI 10.1016/j.cplett.2015.08.029

Author(s) **Mukhi, Sunil**
Title Goals, models, frameworks and the scientific method
Name of the Journal Current Science
Volume No. 109
Issue No. 5
Page No. 851-854
Date of Publication 10-Sep-2015
Name of the Publisher Indian Academy of Science
URL <http://www.currentscience.ac.in/Volumes/109/05/0851.pdf>

Author(s) Khachatryan, V.; **Sharma, S.** et.al.
Title Search for heavy Majorana neutrinos in $\mu(+/-)\mu(+/-)$ + jets events in proton-proton collisions at $\sqrt{s}=8\text{TeV}$
Name of the Journal Physics Letters B
Volume No. 748
Page No. 144-166
Date of Publication 02-Sep-2015
Name of the Publisher Elsevier Science
DOI 10.1016/j.physletb.2015.06.070

Author(s) **Shekatkar, Snehal M.** and **Ambika, G.**
Title Complex networks with scale-free nature and hierarchical modularity
Name of the Journal The European Physical Journal B
Volume No. 88
Issue No. 227
Date of Publication 14-SEP-2015
Name of the Publisher Springer
DOI 10.1140/epjb/e2015-60501-y

Author(s) **George, Sandip V.; Ambika, G.** and Misra, R.
Title Effect of data gaps on correlation dimension computed from light curves of variable stars
Name of the Journal Astrophysics and Space Science
Volume No. 360
Issue No. 5
Date of Publication NOV-2015
Name of the Publisher Springer
DOI 10.1007/s10509-015-2516-z

[Go to top](#)

Author(s) Khachatryan, V.; **Sharma, S.** et.al.
Title Search for a pseudoscalar boson decaying into a Z boson and the 125 GeV Higgs boson in $l^{+}l^{-}b\bar{b}$ final states
Name of the Journal Physics Letters B
Volume No. 748
Page No. 221-243
Date of Publication 02-Sep-2015
Name of the Publisher Elsevier Science
DOI 10.1016/j.physletb.2015.07.010

Author(s) Khachatryan, V.; **Sharma, S.** et.al.
Title Search for narrow high-mass resonances in proton-proton collisions at $\sqrt{s}=8$ TeV decaying to a Z and a Higgs boson
Name of the Journal Physics Letters B
Volume No. 748
Page No. 255-277
Date of Publication 02-Sep-2015
Name of the Publisher Elsevier Science
DOI 10.1016/j.physletb.2015.07.011

Author(s) **Ananda, Deepika B.**; Bhattacharya, Sourav and Das, Tapas K.
Title Acoustic geometry through perturbation of mass accretion rate: radial flow in static spacetimes
Name of the Journal General Relativity and Gravitation
Volume No. 47
Issue No. 96
Date of Publication Sep- 2015
Name of the Publisher Springer/Plenum Publishers
DOI 10.1007/s10714-015-1940-2

Author(s) **Gopannagari, Madhusudana** and **Chaturvedi, Harsh**
Title Light induced aggregation of specific single walled carbon nanotubes
Name of the Journal Nanoscale
Date of Publication 14-Sep- 2015
Name of the Publisher Royal Society of Chemistry
DOI 10.1039/C5NR03091A

[Go to top](#)