



LIBRARY

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

November 2016

Contents

Subject	Page No.
Biology	2
Chemistry	3
Physics	4

Biology

Author(s) **Dar, S. and Pucadyil, T.J.**
Title The pleckstrin-homology domain of dynamin is dispensable for membrane constriction and fission
Name of the Journal Molecular Biology of the Cell
Date of Publication 09-Nov-2016
Name of the Publisher The American Society for Cell Biology

Author(s) **Dar, S.; Kamerkar, S.S. and Pucadyil, T.J.**
Title Using the supported membrane tubes (SMrT) assay system for real-time analysis of membrane fission reactions
Name of the Journal Nature Protocols
Date of Publication 2016
Name of the Publisher Macmillan Publishers Limited

Author(s) **Bayani, Abhijeet and Watve, Milind.**
Title Differences in behaviour of the nilgai (*Boselaphus tragocamelus*) during foraging in forest versus in agricultural land
Name of the Journal Journal of Tropical Ecology
Volume No. 32
Issue No. 6
Page No. 469-481
Date of Publication 4-Nov-2016
Name of the Publisher Cambridge University Press
DOI [10.1017/S0266467416000420](https://doi.org/10.1017/S0266467416000420)

Author(s) Knight, J. D. Marcus; Rai, Ashwin; D'Souza, Ronald K. P.; Philip, Siby and **Dahanukar, Neelesh.**
Title *Hypselobarbus bicolor*, a new species of large barb (Teleostei: Cyprinidae) from the Western Ghats of India
Name of the Journal Zootaxa
Volume No. 4184
Issue No. 2
Page No. 316-328
Date of Publication 4-Nov-2016
Name of the Publisher Magnolia Press
DOI [10.11646/zootaxa.4184.2.4](https://doi.org/10.11646/zootaxa.4184.2.4)

[Go to top](#)

Chemistry

Author(s) Mandlik, Vineetha; **Patil, Sohan**; Bopanna, Ramanamurthy;
Basu, Sudipta and Singh, Shailza.
Title Biological Activity of Coumarin Derivatives as Anti-Leishmanial
Agents
Name of the Journal PLOS One
Volume No. 11
Issue No. 10
Date of Publication 21-Oct-2016
Name of the Publisher Public Library Science
DOI [10.1371/journal.pone.0164585](https://doi.org/10.1371/journal.pone.0164585)

AAuthor(s) **Roy, Arundhati; Saha, Debasis**; Mandal, Prashant Sahebrao;
Mukherjee, Arnab and **Talukdar, Pinaki**.
Title pH-Gated Chloride Transport by Triazine-based Tripodal Semicage
Name of the Journal Chemistry - A European Journal
Date of Publication 16-Nov-2016
Name of the Publisher John Wiley & Sons, Inc.
DOI [10.1002/chem.201605033](https://doi.org/10.1002/chem.201605033)

Author(s) **Saha, Debasis; Kulkarni, Mandar** and **Mukherjee, Arnab**.
Title Water modulates the ultraslow dynamics of hydrated ionic liquids
near CG rich DNA: consequences for DNA stability
Name of the Journal Physical Chemistry Chemical Physics
Date of Publication 2-Nov-2016
Name of the Publisher Royal Society Chemistry
DOI [10.1039/C6CP05959G](https://doi.org/10.1039/C6CP05959G)

Author(s) **Swarnkar, Abhishek**; Marshall, Ashley R.; Sanehira, Erin M.;
Chernomordik, Boris D.; Moore, David T.; Christians,
Jeffrey A.; Chakrabarti, Tamoghna and Luther, Joseph M.
Title Quantum-dot induced phase stabilization of a-CsPbI₃ perovskite for
high-efficiency photovoltaics
Name of the Journal Science
Volume No. 354
Issue No. 6308
Page No. 92-95
Date of Publication 6-Oct-2016
Name of the Publisher American Association for Advancement of Science
DOI [10.1126/science.aag2700](https://doi.org/10.1126/science.aag2700)

Author(s) **Bavireddi, H.; Vasudeva, Murthy R.; Gade, M.; Sangabathuni, S.; Chaudhary, P.M.; Alex, C.;** Lepenies, B. and **Kikkeri, R.**
Title Understanding carbohydrate-protein interactions using homologous supramolecular chiral Ru(ii)-glyconanoclusters.
Name of the Journal Nanoscale
Date of Publication 22-Nov-2016
Name of the Publisher Royal Society Chemistry
DOI [10.1039/C6NR06431K](https://doi.org/10.1039/C6NR06431K)

Author(s) **Yadav, R.;** Leviatan, Ben-Arye S.; **Subramani, B.;** Padler-Karavani, V. and **Kikkeri, R.**
Title Screening of Neu5Ac α (2-6)gal isomer preferences of siglecs with a sialic acid microarray.
Name of the Journal Organic & Biomolecular Chemistry
Volume No. 14
Issue No. 46
Page No. 10812-10815
Date of Publication 22-Nov-2016
Name of the Publisher Royal Society Chemistry
DOI [10.1039/C6OB01688J](https://doi.org/10.1039/C6OB01688J)

Author(s) **Bavireddi, H.; Murthy, R.V.; Gade, M.; Sivakoti, S. and Kikkeri, R.**
Title Supramolecular metalloglycodendrimers selectively modulate lectin binding and delivery of Ru(ii) complexes into mammalian cells.
Name of the Journal Organic & Biomolecular Chemistry
Volume No. 14
Issue No. 46
Page No. 10816-10821
Date of Publication 22-Nov-2016
Name of the Publisher Royal Society Chemistry
DOI [10.1039/C6OB01546H](https://doi.org/10.1039/C6OB01546H)

Physics

Author(s) **Bhunia, Amit; Bansal, Kanika;** Henini, Mohamed ; Alshammari, Marzook S. and **Datta, Shouvik.**
Title Negative activation energy and dielectric signatures of excitons and excitonic Mott transitions in quantum confined laser structures
Name of the Journal Journal of Applied Physics
Volume No. 120
Date of Publication 13-Oct-16
Name of the Publisher AIP Publishing
DOI <http://dx.doi.org/10.1063/1.4964850>

Go to top

Author(s) **Bag, Rabindranath; Karmakar, Koushik and Singh, Surjeet.**
Title Travelling-solvent floating-zone growth of the dilutely Co-doped spin-ladder compound Sr₁₄(Cu, Co)₂₄O₄₁
Name of the Journal Journal of Crystal Growth
Volume No. 458
Page No. 16-26
Date of Publication 15-Jan-2017
Name of the Publisher Elsevier
DOI <http://dx.doi.org/10.1016/j.jcrysgro.2016.10.034>

Author(s) **Kanjilal, Som; Muralidhara, Girish and Home, Dipankar.**
Title Manifestation of pointer-state correlations in complex weak values of quantum observables
Name of the Journal Physical Review A
Volume No. 94
Issue No. 05
Date of Publication 11-Nov-2016
Name of the Publisher American Physical Society
DOI <https://doi.org/10.1103/PhysRevA.94.052110>
