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# Biology

Author(s) **Rangarajan, Nivedita;** Fox, Zach; Singh, Abhyudai; Kulkarni, Prakash and Rangarajan, Govindan  
Title Disorder oscillatory dynamics and state switching: the role of c-Myc  
Name of the Journal Journal of Theoretical Biology  
Volume No. 386  
Page No. 105-114  
Date of Publication 07-DEC-15  
Name of the Publisher Academic Press Ltd- Elsevier Science Ltd  
DOI [10.1016/j.jtbi.2015.09.013](https://doi.org/10.1016/j.jtbi.2015.09.013)

Author(s) **Rawat, Mukul; Bhosale, Madhvi A. and Karmodiya, Krishanpal**  
Title Plasmodium falciparum epigenome: A distinct dynamic epigenetic regulation of gene expression  
Name of the Journal Genomics Data  
Vol. No. 7  
Page No. 79-81  
Date of Publication 01-DEC-2015  
Name of the Publisher Elsevier  
DOI [10.1016/j.gdata.2015.11.026](https://doi.org/10.1016/j.gdata.2015.11.026)

Author(s) Botre, Chaitali; Shahu, A.; Adkar, N.; **Shouche, Yogesh;** Ghaskadbi, Saroj and Ashma, Richa  
Title Superoxide dismutase 2 polymorphisms and osteoporosis in asianindians: a genetic association analysis  
Name of the Journal Cellular & Molecular Biology Letters  
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Name of the Publisher Walter De GruyterGmbh  
DOI [10.1515/cmble-2015-0041](https://doi.org/10.1515/cmble-2015-0041)

Author(s) **Keskar, A.;** Kumkar, P.; Katwate, U.; Ali, A.; Raghavan, R.; **Dahanukar, N.**  
Title Redescription of *Nemachilichthys rueppelli*, a senior synonym of *N. shimogensis* (Teleostei: Nemacheilidae)  
Name of the Journal Zootaxa  
Volume No. 4059  
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Name of the Publisher Magnolia Press  
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Author(s) **Keskar, Ashwini**; Kumkar, Pradeep; Paingankar, Mandar S.; Padhye, Anand and **Dahanukar, Neelesh**  
Title Length-weight and length-length relationships of seven loach species (Teleostei: Cypriniformes) from five localities in northern Western Ghats, India  
Name of the Journal Journal of Threatened Taxa  
Volume No. 7  
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Date of Publication 26-DEC-2015  
Name of the Publisher Journal of Threatened Taxa  
DOI <http://dx.doi.org/10.11609/jott.2462.7.15.8025-8220>

## Chemistry

Author(s) **Vangala, Madhuri** and **Shinde, Ganesh P.**  
Title Synthesis of D-fructose-derived spirocyclic 2-substituted-2-oxazoline ribosides  
Name of the Journal Beilstein Journal of Organic Chemistry  
Volume No. 11  
Page No. 2289-2296  
Date of Publication 24-NOV-2015  
Name of the Publisher Beilstein-Institut  
DOI [10.3762/bjoc.11.249](http://dx.doi.org/10.3762/bjoc.11.249)

Author(s) **Khan, Shabana**; Ahirwar, Saurabh K.; **Pal, Shiv**; **Parvin, Nasrina** and **Kathewad, Neha**  
Title Silicon(II) Bis(trimethylsilyl)amide (LSiN(SiMe<sub>3</sub>)(2), L = PhC(NtBu)<sub>2</sub>) Supported Copper, Silver, and Gold Complexes  
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DOI [10.1021/acs.organomet.5b00745](http://dx.doi.org/10.1021/acs.organomet.5b00745)

Author(s) **Rao, BodduVenkateswara; Manmode, Sujit and Hotha, Srinivas**  
Title Propargyl 1, 2-orthoesters for stereoselective synthesis of thiogcosides and 1-thiotrehaloses  
Name of the Journal Carbohydrate Research  
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DOI [10.1016/j.carres.2015.09.009](https://doi.org/10.1016/j.carres.2015.09.009)

Author(s) Das, Anusheela and **Chaudhury, Srabanti**  
Title Modeling the heterogeneous catalytic activity of a single nanoparticle using a first passage time distribution formalism  
Name of the Journal Chemical Physics Letters  
Volume No. 641  
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Date of Publication 16-NOV-2015  
Name of the Publisher Elsevier Science Ltd.  
DOI [10.1016/j.cplett.2015.10.063](https://doi.org/10.1016/j.cplett.2015.10.063)

Author(s) **Basu, Sudipta; Palvai, Sandeep; More, Piyush; Mapara, Nikunj; Nagraj, Jyothi and Chowdhury, Rajdeep**  
Title Self-assembled oleic acid nanoparticle mediated inhibition of mitogen activated protein kinase signalling in combination with DNA damage in cancer cells  
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DOI [10.1002/cnma.201500195](https://doi.org/10.1002/cnma.201500195)

Author(s) **Thimmappa, Ravikumar; Devendrachari, Mruthyunjayachari Chattanahalli; Kottaichamy, Alagar Raja; Tiwari, Omshanker; Gaikwad, Pramod; Paswan, Bhuneshwar and Thotiyl, Musthafa Ottakam**  
Title Stereochemistry-Dependent Proton Conduction in Proton Exchange Membrane Fuel Cells  
Name of the Journal Langmuir  
Date of Publication 12-DEC-2015  
Name of the Publisher American Chemical Society  
DOI [10.1021/acs.langmuir.5b03984](https://doi.org/10.1021/acs.langmuir.5b03984)

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## Mathematics

Author(s) Murty, Ram M. and **Sinha, Kaneenika**  
Title The generalized Dedekind determinant, in SCHOLAR---a Scientific Celebration Highlighting Open Lines of Arithmetic Research  
Name of the Journal Contemporary Mathematics  
Volume No. 655  
Page No. 153-164  
Date of Publication 2015  
Name of the Publisher American Mathematical Society  
ISBN 978-1-4704-1457-3  
URL <http://bookstore.ams.org/CONM-655>

## Physics

Author(s) **Kumar, Vished**; Patil, Vithoba; **Apte, Amey**; Harale, Namdev; **Kulkarni, Sulabha**; Patil, Pramod  
Title Ultrasensitive Gold Nanostar-Polyaniline Composite for Ammonia Gas Sensing  
Name of the Journal Langmuir  
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Page No. 13247-13256  
Date of Publication 08-DEC-2015  
Name of the Publisher American Chemical Society  
DOI [10.1021/acs.langmuir.5b03018](https://doi.org/10.1021/acs.langmuir.5b03018)

Author(s) Khachatryan, V.; Sirunyan, A. M.; Tumasyan, A.; **Sharma, S.** et al  
Title Production of leading charged particles and leading charged particle jets at small transverse momenta in pp collisions at  $\sqrt{s}=8$  TeV  
Name of the Journal Physical Review D  
Volume No. 92  
Issue No. 11  
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DOI [10.1103/PhysRevD.92.112001](https://doi.org/10.1103/PhysRevD.92.112001)

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Author(s) Khachatryan, V.; **Chauhan, S.**; **Dube, S.**; **Sharma, S.** et al  
Title Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at root s=8TeV  
Name of the Journal Journal of High Energy Physics  
Issue No. 11  
Date of Publication 27-NOV-2015  
Name of the Publisher Springer  
DOI [10.1007/JHEP11\(2015\)189](https://doi.org/10.1007/JHEP11(2015)189)

Author(s) Goswami, Bedartha; **Shekatkar, Snehal M.**; Rheinwalt, Aljoscha; **Ambika, G.** and Kurths, Juergen  
Title A random interacting network model for complex networks  
Name of the Journal Scientific Reports  
Issue No. 5  
Date of Publication 11-DEC-2015  
Name of the Publisher Nature Publishing Group  
DOI [10.1038/srep18183](https://doi.org/10.1038/srep18183)

Author(s) **Mahesh, T. S.**; **Shukla, Abhishek**; **Hegde, Swathi**; **Kumar, C. S. Sudheer**; **Katiyar, Hemant**; **Joshi, Sharad** and Rao, K. R. Koteswara  
Title Ancilla-assisted measurements on quantum ensembles: general protocols and applications in NMR quantum information processing  
Name of the Journal Current Science  
Volume No. 109  
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Name of the Publisher Indian Academy of Science  
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