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New Publications of
Faculty, Scientists and
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July 2015

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Biology

Author(s) **Nettimi, Ravindra Palavalli and Iyer, Priya**
Title Patch fidelity in *Camponotus compressus* ants foraging on honey dew secreted by treehoppers.
Name of the Journal Current Science
Volume No. 109
Issue No. 2
Page No. 362-366
Date of Publication 25-JUL-2015
Name of the Publisher Indian Academy of Science
URL <http://www.currentscience.ac.in/Volumes/109/02/0362.pdf>

Author(s) **Mir, R.; Pradhan, S J; Patil, P; Mulherkar, R. and Galande, S.**
Title Wnt/ β -catenin signaling regulated SATB1 promotes colorectal cancer tumorigenesis and progression.
Name of the Journal Oncogene
Page No. 1-13
Date of Publication 13-JUL-2015
Name of the Publisher Macmillan Publishers Limited
DOI 10.1038/onc.2015.232

Author(s) Varma, Varun; **Barua, Deepak** et.al.
Title Perceptions of priority issues in the conservation of biodiversity and ecosystems in India.
Name of the Journal Biological Conservation
Volume No. 187
Page No. 201-211
Date of Publication JUL-2015
Name of the Publisher Elsevier
DOI 10.1016/j.biocon.2015.04.031

Author(s) **Herlekar, Ipsita and Watve, Milind**
Title Milind Watve
Name of the Journal Current Science
Volume No. 108
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Date of Publication 25-MAY-2015
Name of the Publisher Indian Academy of Science
URL <http://www.currentscience.ac.in/Volumes/108/10/1840.pdf>

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Author(s) Mangalam, Madhur and **Karve, Shraddha Madhav**
Title Comment on “Number-space mapping in the newborn chick resembles humans’ mental number line”.
Name of the Journal Science
Volume No. 348
Issue No. 6242
Page No. 1438
Date of Publication 26-JUN-2015
Name of the Publisher American Association for the Advancement of Science
DOI 10.1126/science.aaa8577

Chemistry

Author(s) **Joarder, Biplab; Mukherjee, Soumya; Patil, Mahendra;**
Title Shufang, Xue; Tang, Jinkui and **Ghosh, Sujit K.**
Chiral biomolecule based dodecanuclear dysprosium(III)–copper(II) clusters: structural analyses and magnetic properties.
Name of the Journal Inorganic Chemistry Frontiers
Date of Publication 07-JUL-2015
Name of the Publisher Royal Society of Chemistry
DOI 10.1039/C5QI00090D

Author(s) **M Bala Gopal**
Title Ag and Cu doped colloidal CdSe nanocrystals: partial cation exchange and luminescence.
Name of the Journal Materials Research Express
Vol. No. 2
Issue No. 8
Name of the Publisher IOP Science
DOI 10.1088/2053-1591/2/8/085004

Author(s) **Karnawat, V and Puranik, M**
Title Solution structure of ligands involved in purine salvage pathway.
Name of the Journal Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy
Date of Publication 03-JUL-2015
Name of the Publisher Elsevier
URL 10.1016/j.saa.2015.07.013

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Author(s) **Yadav, Rohan; Murthy, Raghavendra Vasudeva; and Kikkeri, Raghavendra**
Title Sialic Acid Hydroxamate: A Potential Antioxidant and Inhibitor of Metal-Induced -Amyloid Aggregates.
Name of the Journal ChemBioChem
Vol. No. 16
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Page No. 1448-1453
Date of Publication 06-JUL-2015
Name of the Publisher Wiley
DOI 10.1002/cbic.201500162

Author(s) Tyagi, Priyanka; **Dharmaraja, Allimuthu T.**; Bhaskar, Ashima; **Chakrapani, Harinath** and Singh, Amit
Title Mycobacterium tuberculosis has diminished capacity to counteract redox stress induced by elevated levels of endogenous superoxide.
Name of the Journal Free Radical Biology and Medicine
Vol. No. 84
Page No. 344-354
Date of Publication JUL-2015
Name of the Publisher Elsevier
DOI 10.1016/j.freeradbiomed.2015.03.008

Author(s) **Pardeshi, Kundansingh A.; Malwal, Satish R.**; Banerjee, Ankita; Lahiri, Surobhi; Rangarajan, Radha and **Chakrapani, Harinath**
Title Thiol activated prodrugs of sulfur dioxide (SO₂) as MRSA inhibitors.
Name of the Journal Bioorganic & Medicinal Chemistry Letters
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Date of Publication 01-JUL-2015
Name of the Publisher Elsevier
DOI 10.1016/j.bmcl.2015.04.046

Author(s) **More, Nagnath Yadav and Jeganmohan, Masilamani**
Title Oxidative Cross-Coupling of Two Different Phenols: An Efficient Route to Unsymmetrical Biphenols.
Name of the Journal Organic Letters
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Name of the Publisher American Chemical Society
DOI 10.1021/acs.orglett.5b01324

Author(s) **Satpathi Sagar; Krishna, Gavvala and Hazra, Partha**
Title Fluorescence switching of sanguinarine in micellar environments.
Name of the Journal Physical Chemistry Chemical Physics
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Date of Publication 20-JUL-2015
Name of the Publisher Royal Society of Chemistry
DOI 10.1039/C5CP02818C

Physics

Author(s) **Nath, R;** Dalmonte, M; Glaetzle, A W; Zoller,P.; Schmidt-Kaler, F; and Gerritsma, R.
Title Hexagonal plaquette spin–spin interactions and quantum magnetism in a two-dimensional ion crystal.
Name of the Journal New Journal of Physics
Volume No. 17
Date of Publication 25-JUN-2015
Name of the Publisher IOP Science
DOI 10.1088/1367-2630/17/6/065018

Author(s) Kamra, A. K. and **Nair, A. A.**
Title The impact of the Western Ghats on lightning activity on the western coast of India.
Name of the Journal Atmospheric Research
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DOI 10.1016/j.atmosres.2015.03.006

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Author(s) **Lokhande, Sagar F. and Mukhi, Sunil**
Title Modular invariance and entanglement entropy.
Name of the Journal Journal of High Energy Physics
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Date of Publication 17-JUN-2015
Name of the Publisher Springer
DOI 10.1007/JHEP06(2015)106

Author(s) Khachatryan, V.; **Sharma, S. et.al**
Title Search for third-generation scalar leptoquarks in the t tau channel in proton-proton collisions at root s=8 TeV.
Name of the Journal Journal of High Energy Physics
Volume No. 7
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Date of Publication 09-JUL-2015
Name of the Publisher Springer
DOI 10.1007/JHEP07(2015)042

Author(s) Khachatryan, V.; **Sharma, S. et. al**
Title Evidence for Collective Multiparticle Correlations in p-Pb Collisions.
Name of the Journal Physical Review Letters
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Date of Publication 03-JUL-2015
Name of the Publisher American Physical Society
DOI 10.1103/PhysRevLett.115.012301

Author(s) Khachatryan, V.; **Sharma, S. et. al**
Title Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure.
Name of the Journal Journal of High Energy Physics
Volume No. 6
Date of Publication 12-JUN-2015
Name of the Publisher Springer
DOI 10.1007/JHEP06(2015)080

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Author(s) **Raghunandan, Meghana; Mishra, Chinmayee; Lakomy, Kazimierz; Pedri, Paolo; Santos, Luis and Nath, Rejish**
Title Two dimensional bright solitons in dipolar Bose-Einstein condensates with tilted dipoles.
Name of the Journal Physical Review A
Volume No. 92
Issue No. 1
Date of Publication JUL-2015
Name of the Publisher American Physical Society
DOI <http://dx.doi.org/10.1103/PhysRevA.92.013637>

General

Author(s) **Ganesh, Krishna N.**
Title Indian science and higher education: the way forward
Name of the Journal Current Science
Volume No. 108
Issue No. 12
Page No. 2135-2136
Date of Publication 25-JUN-2015
Name of the Publisher Indian Academy of Science
URL <http://www.currentscience.ac.in/Volumes/108/12/2135.pdf>

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