



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

April 2015

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Biology

Author(s) Raghavan, Rajeev; **Dahanukar, Neelesh**; Philip, Siby; Iyer, Priyanka; Kumar, Brawin; Daniel, Bexel and Molur, Sanjay
Title The conservation status of decapod crustaceans in the Western Ghats of India: an exceptional region of freshwater biodiversity.
Name of the Journal Aquatic Conservation-Marine and Freshwater Ecosystems
Volume No. 25
Issue No. 2
Pages 259-275
Date of Publication APR-15
Name of the Publisher Wiley-Blackwell
DOI 10.1002/aqc.2490

Author(s) **Dahanukar, Neelesh**; Kumkar, Pradeep; Katwate, Unmesh; Raghavan, Rajeev
Title Badis britzi, a new percomorph fish (Teleostei: Badidae) from the Western Ghats of India
Name of the Journal Zootaxa
Volume No. 3941
Issue No. 3
Pages 429-436
Date of Publication APR-15
Name of the Publisher Magnolia Press
DOI <http://dx.doi.org/10.11646/zootaxa.3941.3.9>

Author(s) Raghavan, Rajeev and **Dahanukar, Neelesh**
Title Taxonomy matters
Name of the Journal Current science
Volume No. 108
Issue No. 8
Pages 1416-1418
Date of Publication APR-15
Name of the Publisher Indian Academy of Science
URL <http://www.currentscience.ac.in/Volumes/108/08/1416.pdf>

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Author(s) **Holkar, Sachin S.; Kamerkar, Sukrut C. and Pucadyil, Thomas J.**
Title Spatial control of epsin-induced clathrin assembly by membrane curvature
Name of the Journal Journal of Biological Chemistry
Date of Publication 02- APR-15
Name of the Publisher American Society for Biochemistry and Molecular Biology
DOI 10.1074/jbc.M115.653394

Author(s) Mitra, A.; Nettimi, **Palavalli R.**; Ramachandran, A.; Saha, P.;
Gadagkar, R.
Title Males and females of the social wasp *Ropalidia marginata* do not differ in their cuticular hydrocarbon profiles and do not seem to use any long-distance volatile mate attraction cues
Name of the Journal Insectes Sociaux
Date of Publication 21-APR-2015
Name of the Publisher Springer Basel
DOI 10.1007/s00040-015-0408-4

Chemistry

Author(s) **Satpathi, Sagar; Sengupta, Abhigyan; Hridya, V. M.; Gavvala, Krishna; Koninti, Raj Kumar; Roy, Bibhisan and Hazra, Partha**
Title A Green Solvent Induced DNA Package
Name of the Journal Scientific Reports
Volume No. 5
Date of Publication 16-MAR-15
Name of the Publisher Nature Publishing Group
DOI 10.1038/srep09137

Author(s) **Pramod, P. S.; Shah, Ruchira and Jayakannan, Manickam**
Title Dual stimuli polysaccharide nanovesicles for conjugated and physically loaded doxorubicin delivery in breast cancer cells
Name of the Journal Nanoscale
Volume No. 7
Issue No. 15
Pages 6636-6652
Date of Publication 09-MAR-15
Name of the Publisher Royal Society of Chemistry
DOI 10.1039/C5NR00799B

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Author(s) **Sultane, Prakash R.; Mete, Trimbak B. and Bhat, Ramakrishna G.**
Title A convenient protocol for the deprotection of N-benzyloxycarbonyl (Cbz) and benzyl ester groups
Name of the Journal Tetrahedron Letters
Volume No. 56
Issue No. 16
Pages 2067–2070
Date of Publication 15-APR-15
Name of the Publisher Elsevier
DOI 10.1016/j.tetlet.2015.02.131

Author(s) **Murthy, R.V.; Bavireddi, Harikrishna; Gade, Madhuri and Kikkeri, Raghavendra**
Title Exploiting the Lactose–GM3 Interaction for Drug Delivery
Name of the Journal ChemMedChem
Volume No. 10
Issue No. 5
Pages 792–796
Date of Publication 20-MAR-15
Name of the Publisher Wiley-VCH Verlag
DOI 10.1002/cmdc.201500046

Author(s) **Gade, Madhuri; Paul, Ajay; Alex, Catherine; Choudhury, Devika; Thulasiram, Hirekodathakallu V. and Kikkeri, Raghavendra**
Title Supramolecular scaffolds on glass slides as sugar based rewritable sensors for bacteria
Name of the Journal Chemical Communications
Volume No. 51
Issue No. 29
Pages 6346-6349
Date of Publication MAR-15
Name of the Publisher Royal Society of Chemistry
DOI 10.1039/C5CC01019E

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Author(s) **Chaudhary, Preeti Madhukar; Murthy, Raghavendra Vasudeva; Yadav, Rohan and Kikkeri, Raghavendra**

Title A rationally designed peptidomimetic biosensor for sialic acid on cell surfaces

Name of the Journal Chemical Communications

Volume No. 51

Issue No. 38

Pages 8112-8115

Date of Publication 02-APR-15

Name of the Publisher Royal Society of Chemistry

DOI 10.1039/C5CC01662B

Author(s) **Gupta, Arvind K.; Yadav, Ashok; Srivastava, Anant Kumar; Ramya, Kormathmadam Raghupathy; Paithankar, Harshad; Nandi, Shyamapada; Chugh, Jeetender and Boomishankar, Ramamoorthy**

Title A neutral cluster cage with a Tetrahedral [Pd12IIL6] Framework: Crystal Structures and Host–Guest Studies

Name of the Journal Inorganic Chemistry

Volume No. 54

Issue No. 7

Pages 3196–3202

Date of Publication 17-MAR-2015

Name of the Publisher American Chemical Society

DOI 10.1021/ic502798r

Author(s) **G. Shiva Shanker; Swarnkar, Abhishek ; Chatterjee, Arindom; Chakraborty, S.; Phukan, Manabjyoti; Parveen, Naziy; Biswas, Kanishka and Nag, Angshuman**

Title Electronic grade and flexible semiconductor film employing oriented attachment of colloidal ligand-free PbS and PbSe nanocrystals at room temperature

Name of the Journal Nanoscale

Date of Publication 10-APR-2015

Name of the Publisher Royal Society of Chemistry

DOI 10.1039/C5NR01016K

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Earth Sciences

Author(s)	V. Pavan Kumar; Prakasam, K.S.; Rai, S.S. and Gupta, Sandeep
Title	Upper-mantle anisotropy beneath the south Indian Shield: Influenced by ancient and recent Earth processes
Name of the Journal	Lithosphere
Volume No.	7
Pages	108-116
Date of Publication	APR-15
Name of the Publisher	Geological Society of America
DOI	10.1130/L405

Physics

Author(s)	Akshay, Y. S. and Ananth, Sudarshan
Title	Fermi-Bose cubic couplings in light-cone field theories
Name of the Journal	Physical Review D91
Date of Publication	APR-15
Name of the Publisher	American Physical Society
DOI	10.1103/PhysRevD.91.085029

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