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New Publications of Faculty, Scientists and Students of IISER Pune - Mar 2018.

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Biology

Author(s) Katwate, Unmesh; Kumkar, Pradeep; Britz, Ralf; Raghavan, Rajeev and **Dahanukar, Neelesh.**
Title The identity of Aplocheilusandamanicus (Kohler, 1906) (Teleostei: Cyprinodontiformes), an endemic Killifish from the Andaman Islands, with notes on Odontopsisarmata van Hasselt
Name of the Journal Zootaxa
Vol. No. 4382
Issue No. 01
Page No. 159-174
Date of Publication 20-Feb-2018
Name of the Publisher Magnolia Press
DOI [10.11646/zootaxa.4382.1.6](https://doi.org/10.11646/zootaxa.4382.1.6)

Author(s) Kapur, Arvinder; Beres, Thomas; Rathi, Kavya; **Nayak, Amruta P.**; Czarnecki, Austin; Felder, Mildred; Gillette, Amani ; Ericksen, Spencer S. Sampene, Emmanuel; Skala, Melissa C.; Barroilhet, Lisa & Patankar, Manish S.
Title Oxidative stress via inhibition of the mitochondrial electron transport and Nrf-2-mediated anti-oxidative response regulate the cytotoxic activity of plumbagin
Name of the Journal Scientific Reports
Vol. No. 08
Date of Publication 18-Jan-2018
Name of the Publisher Springer Nature
DOI [10.1038/s41598-018-19261-w](https://doi.org/10.1038/s41598-018-19261-w)

Chemistry

Author(s) **Das, Konoya; Satpathi, Sagar and Hazra, Partha.**
Title Effect of Bile Salt Aggregates on the Prototropic Equilibria of Harmine, a Fluorescent beta-Carboline Alkaloid
Name of the Journal Chemistry Select
Vol. No. 03
Issue No. 06
Page No. 1697-1707
Date of Publication 14-Feb-2018
Name of the Publisher John Wiley and Sons
DOI [10.1002/slct.201702817](https://doi.org/10.1002/slct.201702817)

Author(s) **Mandal, Tarak Nath; Karmakar, Avishek; Sharma, Shivani and Ghosh, Sujit K.**
Title Metal-Organic Frameworks (MOFs) as Functional Supramolecular Architectures for Anion Recognition and Sensing
Name of the Journal Chemical Record
Vol. No. 18
Issue No. 02
Page No. 154-164
Date of Publication Feb-2018
Name of the Publisher John Wiley and Sons
DOI [10.1002/tcr.201700033](https://doi.org/10.1002/tcr.201700033)

Author(s) **Prakash, Prabhat;** Aguirre, Jordan; Van Vliet, Megan. M.; Chinnam, Parameswara Rao; Dikin, Dmitriy A.; Zdilla, Michael J.; Wunder, Stephanie L. and **Venkatnathan, Arun.**
Title Unravelling the structural and dynamical complexity of the equilibrium liquid grain-binding layer in highly conductive organic crystalline electrolytes.
Name of the Journal Journal of Materials Chemistry A
Vol. No. 06
Issue No. 10
Page No. 4394-4404
Date of Publication 07-Feb-2018
Name of the Publisher John Wiley and Sons
DOI [10.1002/tcr.201700033](https://doi.org/10.1002/tcr.201700033)

Author(s) **Khaire, Siddhi; Gaikwad, Pramod; Devendrachari, Mruthyunjayachari Chattanahalli; Kottaichamy, Alagar Raja; Bhat, Zahid Manzoor; Varhade, Swapnil; Shafi, Shahid Pottachola; Thimmappa, Ravikumar and Thotiy, Musthafa Ottakam.**
Title An Electrochemical Wind Velocity Sensor
Name of the Journal Analytical Chemistry
Vol No. 90
Issue No. 07
Page No. 4501-4506
Date of Publication 13-Mar-2018
Name of the Publisher American Chemical Society
DOI [10.1021/acs.analchem.7b04841](https://doi.org/10.1021/acs.analchem.7b04841)

Author(s) **Swarnkar, Abhishek; Mir, Wasim J. and Nag, Angshuman.**
Title Can B-Site Doping or Alloying Improve Thermal- and Phase-Stability of All-Inorganic CsPbX₃ (X = Cl, Br, I) Perovskites?
Name of the Journal ACS Energy Letters
Vol. No. 03
Issue No. 02
Page No. 286-289
Date of Publication 05-Jan-2018
Name of the Publisher American Chemical Society
DOI [10.1021/acsenergylett.7b01197](https://doi.org/10.1021/acsenergylett.7b01197)

Author(s) **Walunj, M. B.; Tanpure, A. A. and Srivatsan, S. G.**
Title Posttranscriptional labeling by using Suzuki-Miyaura cross-coupling generates functional RNA probes
Name of the Journal Nucleic Acids Research
Date of Publication 13-Mar-2018
Name of the Publisher Oxford University Press
DOI <https://doi.org/10.1093/nar/gky185>

Author(s) **Sabale, Pramod M.; Ambi, Uddhav B. and Srivatsan, S. G.**
Title A Lucifer-based environment-sensitive fluorescent PNA probe for imaging poly(A) RNAs
Name of the Journal ChemBioChem
Vol No. 19
Page No. 1-11
Date of Publication 13-Mar-2018
Name of the Publisher John Wiley and Sons
DOI <https://doi.org/10.1002/cbic.201700661>

Author(s) **Arra, Srilatha; Ramya, Kormathmadam Raghupathy; Babar, Rohit and Kabir, Mukul.**
Title Photocatalytic Activity of Phosphorene Derivatives: Coverage, Electronic, Optical and Excitonic Properties
Name of the Journal Journal of Physical C
Date of Publication 12-Mar-2018
Name of the Publisher American Chemical Society
DOI <https://pubs.acs.org/doi/pdf/10.1021/acs.jpcc.7b12649>

Earth and Climate Science

Author(s) Kim, Jinwon; Waliser, Duane E.; Cesana, Gregory V.; Jiang, Xianan; L'Ecuyer, Tristan and **Neena, J. M.**
Title Cloud and radiative heating profiles associated with the boreal summer intraseasonal oscillation
Name of the Journal Climate Dynamics
Vol. No. 50
Issue No. 5 & 6
Page No. 1485-1494
Date of Publication 03-Mar-2018
Name of the Publisher Springer Nature
DOI [10.1007/s00382-017-3700-3](https://doi.org/10.1007/s00382-017-3700-3)

Physics

Author(s) **Harnagea, Luminita; Mani, Giri; Kumar, Rohit and Singh, Surjeet.**
Title Magnetic disorder and gap symmetry in the optimally electron-doped Sr(Fe,Co)₂As₂ superconductor
Name of the Journal Physical Review B
Vol. No. 97
Issue No. 05
Page No. 650-655
Date of Publication 20-Feb-2018
Name of the Publisher American Physical Society
DOI <https://doi.org/10.1103/PhysRevB.97.054514>

Author(s) **Arra, Srilatha; Ramya, Kormathmadam Raghupathy; Babar, Rohit and Kabir, Mukul.**
Title Photocatalytic Activity of Phosphorene Derivatives: Coverage, Electronic, Optical and Excitonic Properties
Name of the Journal Journal of Physical C
Date of Publication 12-Mar-2018
Name of the Publisher American Chemical Society
DOI <https://pubs.acs.org/doi/pdf/10.1021/acs.jpcc.7b12649>

Author(s) Das, Arindam; Konar, Partha and **Thalapillil, Arun.**
Title Jet substructure shedding light on heavy Majorana neutrinos at the LHC
Name of the Journal Journal of High Energy Physics
Vol. No. 83
Date of Publication 14-Feb-2018
Name of the Publisher Springer Nature
DOI [https://doi.org/10.1007/JHEP02\(2018\)083](https://doi.org/10.1007/JHEP02(2018)083)

Author(s) **Kapoor, Aakanksha; Singh, Nitesh;** Dey, Arka Bikash;
Nigam, A. K. and **Bajpai, Ashna.**
Title 3d transition metals and oxides within carbon nanotubes by
co-pyrolysis of metallocene & camphor: High filling efficiency
and self-organized structures
Name of the Journal Carbon
Vol. No. 132
Page No. 733-745
Date of Publication 26-Feb-2018
Name of the Publisher Elsevier
DOI <https://doi.org/10.1016/j.carbon.2018.02.092>

Author(s) **Basak, Sagarika; Chougale, Yashwant** and **Nath, Rejish.**
Title Periodically Driven Array of Single Rydberg Atoms
Name of the Journal Physical Review Letters
Vol. No. 120
Issue No. 12
Date of Publication 23-Mar-2018
Name of the Publisher American Physical Society
DOI <https://doi.org/10.1103/PhysRevLett.120.123204>

Author(s) **Pendse, Abhijit.**
Title Effect of finite range interactions on roton mode softening in
a multi-component BEC
Name of the Journal Journal of Physics B: Atomic, Molecular and Optical Physics
Vol. No. 51
Issue No. 08
Date of Publication 29-Mar-2018
Name of the Publisher IOP Science
DOI <https://doi.org/10.1088/1361-6455/aab413>

Author(s) **Agarwal, Tejal;** Manjunath, G. P.; Habib, Farhat and
Chatterji, Apratim.
Title Origin of spatial organization of DNA-polymer in bacterial
chromosomes
Name of the Journal European Physics Letters
Vol. No. 121
Issue No. 01
Date of Publication 07-Mar-2018
Name of the Publisher IOP Science
DOI <https://doi.org/10.1209/0295-5075/121/18004>

Author(s) Kolekar, Sadhu; Patole, Shashikant P. ; Yoo, Ji-Beom and **Dharmadhikari, Chandrakant V.**
Title Investigation of Electron Transport Across Vertically Grown CNTs Using Combination of Proximity Field Emission Microscopy and Scanning Probe Image Processing Techniques
Name of the Journal Electronic Materials Letters
Vol. No. 14
Issue No. 02
Page No. 173-180
Date of Publication 01-Mar-2018
Name of the Publisher Springer Nature
DOI <https://doi.org/10.1007/s13391-018-0009-2>

Author(s) **Dharmadhikari, C.V.**
Title Contemporary Undergrad Physics Laboratory: Hands-on versus Automation
Name of the Journal Physics Education
Vol. No. 33
Issue No. 05
Date of Publication Jan-Mar -2018
Name of the Publisher Physics Education India
DOI <http://www.physedu.in/publication/webspecials/PE-WS18-01-090>

Author(s) **Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A. and Sharma, S.**
Title Search for ZZ resonances in the 2l2v final state in proton-proton collisions at 13 TeV
Name of the Journal Journal of High Energy Physics
Date of Publication 16-Mar-2018
Name of the Publisher Springer Nature
DOI <https://arxiv.org/pdf/1803.06292.pdf>

Author(s) **Basu, Aniruddha; Kour, Prachi; Parmar, Swati; Naphade, Rounak; Ogale, Satishchandra.**
Title Flex-Mode Mechatronic Functionality of Lead Iodide Hybrid Perovskite Systems
Name of the Journal Journal of Physical Chemistry C
Vol. No. 122
Issue No. 09
Page No. 4802-4804
Date of Publication 15-Feb-2018
Name of the Publisher American Chemical Society
DOI [10.1021/acs.jpcc.8b00192](https://doi.org/10.1021/acs.jpcc.8b00192)

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