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

Contents

Subject	Page No.
Biology	2
Chemistry	3
Humanities and Social Sciences	6
Physics	6

Biology

Author(s) Lee, Wu-Jung; Falk, Benjamin; Chiu, Chen; **Krishnan, Anand**; Arbour, Jessica H. and Moss, Cynthia F.

Title Tongue-driven sonar beam steering by a lingual-echolocating fruit bat

Name of the Journal PLOS Biology

Vol. No. 15

Issue No. 12

Page No. 1-15

Date of Publication 15-Dec-2017

Name of the Publisher PLOS

DOI <https://doi.org/10.1371/journal.pbio.2003148>

Author(s) **Tung, Sudipta; Mishra, Abhishek; Shreenidhi, P. M.; Sadiq, Mohammed Aamir; Joshi, Sripad; Shree Sruti, V. R. and Dey, Sutirth.**

Title Simultaneous evolution of multiple dispersal components and kernel

Name of the Journal Oikos

Vol. No. 127

Issue No. 01

Page No. 34-44

Date of Publication 1-Jan-2018

Name of the Publisher John Wiley and Sons

DOI [10.1111/oik.04618](https://doi.org/10.1111/oik.04618)

Author(s) **Kondhare, Kirtikumar R.; Kumar, Amit;** Hannapel, David J. and **Banerjee, Anjan K.**

Title Conservation of polypyrimidine tract binding proteins and their putative target RNAs in several storage root crops

Name of the Journal BMC Genomics

Vol. No. 19

Issue No. 124

Page No. 1-13

Date of Publication 07-Feb -2018

Name of the Publisher Springer Nature

DOI <https://doi.org/10.1186/s12864-018-4502-7>

Go to top

Chemistry

- Author(s) **Ghosh, B. and Chaudhury, S.**
Title Influence of the Location of Attractive Polymer–Pore Interactions on Translocation Dynamics
Name of the Journal Journal of Physical Chemistry B
Vol. No. 122
Page No. 360-368
Date of Publication Dec-2017
Name of the Publisher American Chemical Society
DOI [10.1021/acs.jpccb.7b09208](https://doi.org/10.1021/acs.jpccb.7b09208)
- Author(s) **Chaudhari, Moreshwar B.; Moorthy, Suresh; Patil, Sohan; Bisht, Girish Singh; Mohamed, Haneef; Basu, Sudipta and Gnanaprakasam, Boopathy.**
Title Iron-Catalyzed Batch/Continuous Flow C–H Functionalization Module for the Synthesis of Anticancer Peroxides
Name of the Journal The Journal of Organic Chemistry
Vol. No. 83
Issue No. 03
Page No. 1358-1368
Date of Publication 21-Dec-2017
Name of the Publisher American Chemical Society
DOI [10.1021/acs.joc.7b02854](https://doi.org/10.1021/acs.joc.7b02854)
- Author(s) **Saha, Debasis and Mukherjee, Arnab**
Title Effect of water and ionic liquids on biomolecules
Name of the Journal Biophysical Reviews
Page No. 1-14
Date of Publication 08-Feb-2018
Name of the Publisher Springer Nature
DOI <https://doi.org/10.1007/s12551-018-0399-2>
- Author(s) **Gaikwad, Pramod; Misal, Mahavir; Khaire, Siddhi; Raafik, Abdul; Aralekallu, Shambhulinga; Varhade, Swapnil; Bhat, Zahid Manzoor; Kottaichamy, Alagar Raja; Devendrachari, Mruthyunjayachari Chattanahalli; Gautam, Manu and Thotiyil, Musthafa Ottakam.**
Title A Redox-Active Electrochemical Decoder
Name of the Journal Advanced Materials Technologies
Date of Publication 31-Jan-2018
Name of the Publisher John Wiley and Sons
DOI [10.1002/admt.201700337](https://doi.org/10.1002/admt.201700337)

Author(s) Sen, Mani; Jiang, Naisheng; Endoh, Maya K.; Koga, Tadanori; Ribbe, Alexander; **Rahman, Atikur**; Kawaguchi, Daisuke; Tanaka, Keiji and Smilgies, Detlef-M.

Title Locally Favored Two-Dimensional Structures of Block Copolymer Melts on Nonneutral Surfaces

Name of the Journal Macromolecules

Vol. No. 51

Issue No. 02

Page.No 520-528

Date of Publication 23-Jan-2018

Name of the Publisher American Chemical Society

DOI [10.1021/acs.macromol.7b02506](https://doi.org/10.1021/acs.macromol.7b02506)

Author(s) Bashir, Amna; Shukla, Sudhanshu; Lew, Jia Haur; Shukla, Shashwat; Bruno, Annalisa; Gupta, Disha; Baikie, Tom; **Patidar, Rahul**; Akhter, Zareen; Priyadarshi, Anish; Mathews, Nripan; Mhaisalkar, and Subodh G.

Title Spinel Co₃O₄ nanomaterials for efficient and stable large area carbon-based printed perovskite solar cells

Name of the Journal Nanoscale

Vol. No. 10

Issue No. 05

Page.No 2341-2350

Date of Publication 07-Feb-2018

Name of the Publisher Royal Society of Chemistry

DOI [10.1039/c7nr08289d](https://doi.org/10.1039/c7nr08289d)

Author(s) **Banerjee, Pallavi**; Roy, Sudip; Nair, Nitish

Title Coarse-Grained Molecular Dynamics Force-Field for Polyacrylamide in Infinite Dilution Derived from Iterative Boltzmann Inversion and MARTINI Force-Field

Name of the Journal Journal of Physical Chemistry B

Vol. No. 122

Issue No. 04

Page.No 1516-1524

Date of Publication 01-Feb-2018

Name of the Publisher American Chemical Society

DOI [10.1021/acs.jpcc.7b09019](https://doi.org/10.1021/acs.jpcc.7b09019)

Author(s) **Rajasekar, Prabhakaran; Pandey, Swechchha; Paithankar, Harshad; Chugh, Jeetender ; Steiner, Alexander and Boomishankar, Ramamoorthy.**

Title Imido-P(V) trianion supported enantiopure neutral tetrahedral Pd(II) cages

Name of the Journal Chemical Communications

Vol. No. 54

Issue No. 15

Page.No 1873-1876

Date of Publication 21-Feb-2018

Name of the Publisher Royal Society of Chemistry

DOI [10.1039/c8cc00207j](https://doi.org/10.1039/c8cc00207j)

Author(s) **Narayanan, Remya; Dewana, Anweshi and Chakraborty, Debanjan**

Title Complimentary effects of annealing temperature on optimal tuning of functionalized carbon–V₂O₅ hybrid nanobelts for targeted dual applications in electrochromic and supercapacitor devices

Name of the Journal RSC Advances

Vol. No. 08

Page No. 8596-8606

Date of Publication 26-Feb-2018

Name of the Publisher Royal Society of Chemistry

DOI [10.1039/C7RA13357J](https://doi.org/10.1039/C7RA13357J)

Author(s) **Wahid, Malik; Puthusseri, Dhanya; Gawli, Yogesh; Sharma, Neha; Ogale, Satishchandra.**

Title Hard Carbons for Sodium-Ion Battery Anodes: Synthetic Strategies, Material Properties, and Storage Mechanisms

Name of the Journal ChemSusChem

Vol. No. 11

Issue .No. 03

Page No. 506–526

Date of Publication 9-Feb-2018

Name of the Publisher John Wiley and Sons

DOI <https://doi.org/10.1103/PhysRevB.97.054514>

Humanities and Social Sciences

Author(s) Brandt, Carmen and **Sohoni, Pushkar.**
Title Script and identity – the politics of writing in South Asia: an introduction
Name of the Journal South Asian History and Culture
Vol. No. 09
Issue No. 01
Page.No 1-25
Date of Publication 26-Dec-2017
Name of the Publisher Taylor and Francis
DOI <https://doi.org/10.1080/19472498.2017.1411048>

Author(s) **Sohoni, Pushkar.**
Title Colonial and postcolonial debates about polygraphia in Marathi
Name of the Journal South Asian History and Culture
Vol. No. 09
Issue No. 01
Page.No 38-46
Date of Publication 14-Dec-2017
Name of the Publisher Taylor and Francis
DOI <https://doi.org/10.1080/19472498.2017.1411053>

Physics

Author(s) **Vasista, Adarsh B.; Jog, Harshvardhan;** Heilpern, Tal; Sykes, M.E.; **Tiwari, Sunny; Sharma, Deepak K.; Chaubey, Shailendra K.;** Wiederrecht, G.P.; Gray, S.K. and **Kumar, G.V. Pavan.**
Title Differential Wavevector Distribution of Surface-Enhanced Raman Scattering and Fluorescence in a Film-Coupled Plasmonic Nanowire Cavity
Name of the Journal Nano Letters
Vol. No. 18
Issue No. 01
Page No. 650-655
Date of Publication Jan-2018
Name of the Publisher American Chemical Society
DOI [10.1021/acs.nanolett.7b05080](https://doi.org/10.1021/acs.nanolett.7b05080)

Author(s) **Vasista, Adarsh B.;** Tripathi, Ravi P. N.; **Chaubey, Shailendra K.;**
Tiwari, Sunny and **Kumar, G. V. Pavan.**
Title Doughnut-shaped emission from vertical organic nanowire coupled
to thin plasmonic film
Name of the Journal Optics Letters
Vol. No. 43
Issue No. 04
Page No. 923-926
Date of Publication 15-Feb-2018
Name of the Publisher The Optical Society
DOI <https://doi.org/10.1364/OL.43.000923>

Author(s) **Bhunja, Amit; Singh, Mohit Kumar;** Gobato, Y. Galvão;
Henini, Mohamed and **Datta, Shouvik.**
Title Experimental evidences of quantum confined 2D indirect
excitons in single barrier GaAs/AlAs/GaAs heterostructure using
photocapacitance at room temperature
Name of the Journal Journal of Applied Physics
Vol. No. 123
Issue .No. 04
Date of Publication 31-Jan-2018
Name of the Publisher American Institute of Physics
DOI <https://doi.org/10.1063/1.5007820>

Author(s) S k, Rejaul; Arra, Srilatha; Dhara, Barun; Miller, Joel S. ;
Kabir, Mukul and **Deshpande, Aparna.**
Title Enhancing Intermolecular Interaction by Cyano Substitution in
Copper Phthalocyanine
Name of the Journal The Journal of Physical Chemistry C
Vol. No. 122
Issue .No. 01
Page No. 429–437
Date of Publication 15-Dec-2017
Name of the Publisher American Chemical Society
DOI [10.1021/acs.jpcc.7b09225](https://doi.org/10.1021/acs.jpcc.7b09225)

Author(s) Patil, Sumati; Datar, Suwarna; **Dharmadhikari, C. V.**
Title Temperature Dependent Electron Transport Properties
of Gold Nanoparticles and Composites: Scanning
Tunneling Spectroscopy Investigations
Name of the Journal Journal of Nanoscience and Nanotechnology.
Vol. No. 18
Issue .No. 03
Page No. 1626-1635
Date of Publication 3-Mar-2018
Name of the Publisher American Scientific Publishers
DOI <https://doi.org/10.1166/jnn.2018.14257>

Author(s) Patil, Sumati; Kolekar, Sadhu; Kumar, Arvind; Alegaonkar, Prashant; Datar, Suwarna; and **Dharmadhikari, C.V.**
Title Investigation of Disorder in Mixed Phase, sp^2 - sp^3 Bonded Graphene-Like Nanocarbon.
Name of the Journal Journal of Nanoscience and Nanotechnology.
Vol. No. 18
Issue .No. 04
Page No. 2504-2512
Date of Publication Apr-2018
Name of the Publisher American Scientific Publishers
DOI <https://doi.org/10.1166/jnn.2018.14312>

Author(s) Kolekar, Sadhu ; Patole, S.P.; Patil, Sumati; Yoo, J.B. and **Dharmadhikari, C.V**
Title Study of thermal-field emission properties and investigation of temperature dependent noise in the field emission current from vertical carbon nanotube emitters
Name of the Journal Surface Science
Vol. No. 664
Page No. 76-81
Date of Publication Oct-2017
Name of the Publisher Elsevier
DOI <https://doi.org/10.1016/j.susc.2017.05.002>

Author(s) **Wahid, Malik; Puthusseri, Dhanya; Gawli, Yogesh; Sharma, Neha; Ogale, Satishchandra.**
Title Hard Carbons for Sodium-Ion Battery Anodes: Synthetic Strategies, Material Properties, and Storage Mechanisms
Name of the Journal ChemSusChem
Vol. No. 11
Issue .No. 03
Page No. 506–526
Date of Publication 9-Feb-2018
Name of the Publisher John Wiley and Sons
DOI <https://doi.org/10.1103/PhysRevB.97.054514>

Author(s) **Narayanan, Remya; Dewana, Anweshi and Chakraborty, Debanjan.**
Title Complimentary effects of annealing temperature on optimal tuning of functionalized carbon–V₂O₅ hybrid nanobelts for targeted dual applications in electrochromic and supercapacitor devices
Name of the Journal RSC Advances
Vol. No. 08
Page No. 8596-8606
Date of Publication 26-Feb-2018
Name of the Publisher Royal Society of Chemistry
DOI [10.1039/C7RA13357J](https://doi.org/10.1039/C7RA13357J)

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.	054514-1 -- 054514-11
Date of Publication	20-FEB-2018
Name of the Publisher	American Physical Society
DOI	10.1103/PhysRevB.97.054514

[Go to top](#)