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New Publications of Faculty, Scientists and Students of IISER Pune - Oct 2017.

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Biology

Author(s) **Bhave, Rachana;** Deodhar, Shreekant and Isvaran, Kavita.
Title Intrinsic factors are relatively more important than habitat features in modulating risk perception in a tropical lizard
Name of the Journal Behavioural Ecology & Sociobiology
Vol. No. 71
Issue No. 10
Date of Publication 01-Oct-2017
Name of the Publisher Springer
DOI <https://doi.org/10.1007/s00265-017-2372-7>

Author(s) Muralidharan, Bhavana.; Keruzore, Marc.; **Pradhan, Saurabh J.;** Roy, Basabdatta.; Shetty, Ashwin S.; Kinare, Veena.; D'Souza, Leora.; Maheshwari, Upasana.; **Karmodiya, Krishanpal;** Suresh, Agasthya.; **Galande, Sanjeev;** Bellefroid, Eric J. and Tole, Shubha.
Title Dmrt5, a novel neurogenic factor, reciprocally regulates Lhx2 to control the neuron-glia cell fate switch in the developing hippocampus
Name of the Journal Journal of Neuroscience
Page No. 1535-17
Date of Publication 12-Oct-2017
Name of the Publisher Society for Neuroscience
DOI <https://doi.org/10.1523/JNEUROSCI.1535-17.2017>

Author(s) **Chouhan, Nitin Singh; Mohan, Krithika and Ghose, Aurnab.**
Title cAMP signaling mediates behavioral flexibility and consolidation of social status in Drosophila aggression
Name of the Journal Journal of Experimental Biology
Date of Publication 09-Oct-2017
Name of the Publisher The Company of Biologists
DOI <https://doi.org/10.1242/jeb.165811>

Author(s) **Bayani, Abhijeet** and Dandekar, Nikhil.
Title A revised avian checklist of Tadoba Andhari Tiger Reserve (TATR), Chandrapur, Maharashtra, India
Name of the Journal Indian Birds
Vol. No. 13
Issue No. 05
Page No. 113-124
Date of Publication 16-Oct-2017
Name of the Publisher New Ornithological Foundation
DOI http://indianbirds.in/pdfs/IB_13_5_Bayani_Dandekar_Tadoba

Author(s) Raghunathan, Anu and **Athale, Chaitanya A.**
Title Modelling natural and synthetic biological networks
Name of the Journal Current Science
Vol. No. 113
Issue No. 07
Page No. 1221-1222
Date of Publication 10-Oct-2017
Name of the Publisher Indian Academy of Sciences
DOI <http://www.currentscience.ac.in/Volumes/113/07/1221.pdf>

Chemistry

Author(s) **Roy, Soumendu; Rao, Anish; Devatha, Gayathri**
and **Pillai, Pramod P.**
Title Revealing the Role of Electrostatics in Gold-Nanoparticle-Catalyzed
Reduction of Charged Substrates
Name of the Journal ACS Catalysis
Vol. No. 07
Issue No. 10
Page No. 7141-7145
Date of Publication 19-Sept-2017
Name of the Publisher American Chemical Society
DOI [10.1021/acscatal.7b02292](https://doi.org/10.1021/acscatal.7b02292)

Author(s) **More, N.Y.** and Jeganmohan, M
Title Solvent-controlled selective synthesis of biphenols and quinones
via oxidative coupling of phenols
Name of the Journal Chemical Communications
Vol. No. 53
Issue No. 69
Page No. 9616-9619
Date of Publication 07-Sept-2017
Name of the Publisher Royal Society of Chemistry
DOI [10.1039/c7cc04829g](https://doi.org/10.1039/c7cc04829g)

Author(s) **Kulkarni, Bhagyashree** and **Jayakannan, Manickam.**
Title Fluorescent-Tagged Biodegradable Polycaprolactone Block
Copolymer FRET Probe for Intracellular Bioimaging in Cancer Cells
Name of the Journal ACS Biomaterials Science & Engineering
Vol. No. 03
Issue No. 09
Page No. 2185-2197
Date of Publication 01-Sept-2017
Name of the Publisher American Chemical Society
DOI [10.1021/acsbiomaterials.7b00426](https://doi.org/10.1021/acsbiomaterials.7b00426)

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Author(s) **Sarkar, Sohini; Ravi, Vikash Kumar; Banerjee, Sneha; Yettapu, Gurivi Reddy; Markad, Ganesh B.; Nag, Angshuman and Mandal, Pankaj.**

Title Terahertz Spectroscopic Probe of Hot Electron and Hole Transfer from Colloidal CsPbBr₃ Perovskite Nanocrystals

Name of the Journal Nano Letters

Vol. No. 17

Issue No. 09

Page.No 5402-5407

Date of Publication 23-Aug-2017

Name of the Publisher American Chemical Society

DOI [10.1021/acs.nanolett.7b02003](https://doi.org/10.1021/acs.nanolett.7b02003)

Author(s) **Yadav, Ashok; Deshmukh, Mahesh S. and Boomishankar, Ramamoorthy.**

Title Cationic and neutral copper(I) iodide cluster MOFs derived from tridentate N-donor functionalized P(V) ligands: synthesis, structure and photophysical properties

Name of the Journal Journal of Chemical Sciences

Vol. No. 128

Issue No. 08

Page.No 1093-1103

Date of Publication 01-Aug-2017

Name of the Publisher Indian Academy of Sciences

DOI [10.1007/s12039-017-1284-4](https://doi.org/10.1007/s12039-017-1284-4)

Author(s) **Yadav, Ashok; Srivastava, Anant Kumar; Kulkarni, Priyangi; Divya, Pillutla; Steiner, Alexander, Praveenkumar, B. and Boomishankar, Ramamoorthy.**

Title Anion-induced ferroelectric polarization in a luminescent metal–organic cage compound

Name of the Journal Journal of Materials Chemistry C

Vol. No. 05

Issue. No. 40

Page No. 10624-10629

Date of Publication 29-Sept-2017

Name of the Publisher Royal Society of Chemistry

DOI [10.1039/C7TC03375C](https://doi.org/10.1039/C7TC03375C)

Author(s) **Yadav, Ashok; Gupta, Arvind K.; Steiner, Alexander and Boomishankar, Ramamoorthy.**

Title Mapping the Assembly of Metal-organic Cages into Complex Coordination Networks

Name of the Journal Chemistry - A European Journal

Date of Publication 27-Oct-2017

Name of the Publisher Wiley

DOI [10.1002/chem.201704585](https://doi.org/10.1002/chem.201704585)

Author(s) **Benke, Sushil N.;** Thulasiram, Hirekodathakallu V. and **Gopi, Hosahudya N.**
Title Potent Antimicrobial Activity of Lipidated Short alpha, gamma-Hybrid Peptides
Name of the Journal ChemMedChem
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Issue. No. 19
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Date of Publication 09-Oct-2017
Name of the Publisher Wiley
DOI [10.1002/cmdc.201700370](https://doi.org/10.1002/cmdc.201700370)

Humanities and Social Sciences

Author(s) **Pai R, Venketeswara;** Ramasubramanian, K.; Sriram, M S. and Srinivas, M D
Title Karaṇapaddhati of Putumana Somayāji, translation with detailed explanatory notes
Name of the Journal Culture and History of Mathematics
Date of Publication 2017
Name of the Publisher Hindustan Book Agency
DOI [Karanapaddhati of Putumana Somayāji](https://doi.org/10.1002/cmdc.201700370)

Physics

Author(s) **Dube, Sourabh; Gadkari, Divya** and **Thalapillil, Arun M.**
Title Lepton jets and low-mass sterile neutrinos at hadron colliders
Name of the Journal Physical Review D
Vol. No. 96
Issue .No. 05
Page No. 1-14
Date of Publication 22-Sept-2017
Name of the Publisher American Physical Society
DOI <https://doi.org/10.1103/PhysRevD.96.055031>

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 [10.1016/j.susc.2017.05.002](https://doi.org/10.1016/j.susc.2017.05.002)

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Author(s) Tathavadekar, Mukta; Krishnamurthy, Shrreya; **Banerjee, Aparna**; Nagane, Satyawan; Gawli, Yogesh; **Suryawanshi, Anil**; Bhat, Suresh; **Puthusseri, Dhanya**; Mohite, Aditya D. and **Ogale, Satishchandra**.

Title Low-dimensional hybrid perovskites as high performance anodes for alkali-ion batteries

Name of the Journal Journal of Chemistry A

Vol. No. 05

Issue .No. 35

Page No. 18634-18642

Date of Publication 21-Sept-2017

Name of the Publisher Royal Society of Chemistry

DOI [10.1039/c7ta04529h](https://doi.org/10.1039/c7ta04529h)

Author(s) Utz, Yannic; Hammerath, Franziska; Kraus, Roberto; Ritschel, Tobias; Geck, Jochen; Hozoi, Liviu; van den Brink, Jeroen; Mohan, Ashwin; Hess, Christian; **Karmakar, Koushik**; **Singh, Surjeet**; Bounoua, Dalila; Saint-Martin, Romuald; Pinsard-Gaudart, Loreynne; Revcolevschi, Alexandre; Buechner, Bernd and Grafe, Hans-Joachim

Title Effect of different in-chain impurities on the magnetic properties of the spin chain compound SrCuO₂ probed by NMR

Name of the Journal Physical Review B

Vol. No. 96

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Date of Publication 19-Sept-2017

Name of the Publisher American Physical Society

DOI [10.1103/PhysRevB.96.115135](https://doi.org/10.1103/PhysRevB.96.115135)

Author(s) **Chauhan, S.**; **Dube, S.**; **Hegde, V.**; **Kapoor, A.**; **Kothekar, K.**; **Pandey, S.**; **Rane, A.** and **Sharma, S.**

Title Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at $\sqrt{s}=13$ TeV

Name of the Journal Physical Review Letters

Vol. No. 119

Issue .No. 11

Date of Publication 15-Sept-2017

Name of the Publisher American Physical Society

DOI [10.1103/PhysRevLett.119.111802](https://doi.org/10.1103/PhysRevLett.119.111802)

Author(s) **Naphade, Rounak**; Zhao, Baodan; Richter, Johannes M.; Booker, Edward; **Krishnamurthy, Shreya**; Friend, Richard H.; Sadhanala, Aditya and **Ogale, Satishchandra.**

Title High Quality Hybrid Perovskite Semiconductor Thin Films with Remarkably Enhanced Luminescence and Defect Suppression via Quaternary Alkyl Ammonium Salt Based Treatment

Name of the Journal Advanced Interface Materials

Vol. No. 04

Issue .No. 19

Date of Publication 09-Oct-Sept-2017

Name of the Publisher Wiley

DOI [10.1002/admi.201700562](https://doi.org/10.1002/admi.201700562)

Author(s) **Naphade, Rounak; Nagane, Satyawan**; Bansode, Umesh; Tathavadekar, Mukta; Sadhanala, Aditya and **Ogale, Satishchandra.**

Title Synthetic Manipulation of Hybrid Perovskite Systems in Search of New and Enhanced Functionalities

Name of the Journal ChemSusChem

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Issue .No. 19

Page No. 3722-3739

Date of Publication 09-Oct-2017

Name of the Publisher Wiley

DOI [10.1002/cssc.201701093](https://doi.org/10.1002/cssc.201701093)

Author(s) **Sachdeva, Nishtha; Subramanian, Prasad**; Vourlidis, Angelos and Bothmer, Volker

Title CME Dynamics Using STEREO and LASCO Observations: The Relative Importance of Lorentz Forces and SolarWind Drag

Name of the Journal Solar Physics

Vol. No. 292

Issue .No. 09

Date of Publication Sept-2017

Name of the Publisher Springer

DOI [10.1007/s11207-017-1137-9](https://doi.org/10.1007/s11207-017-1137-9)
