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

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Biology

Author(s) **Rale,Abhishek; Shendye, Ninad; Bodas, Devika S. Subhedar, Nishikant and Ghose, Aurnab**
Title CART neuropeptide modulates the extended amygdalar CeA-vBNST circuit to gate expression of innate fear
Name of the Journal Psychoneuroendocrinology
Date of Publication 12-Aug-2017
Name of the Publisher Elsevier
DOI <https://doi.org/10.1016/j.psyneuen.2017.08.012>

Author(s) **Ubhe, Suyog; Rawat, Mukul;** Verma Srikant; Anamika Krishanpal and **Karmodiya, Krishanpal**
Title Genome-wide identification of novel intergenic enhancer-like elements: implications in the regulation of transcription in Plasmodium falciparum
Name of the Journal BMC Genomics
Date of Publication 23-Aug-2017
Name of the Publisher BMC Genomics
DOI <https://doi.org/10.1186/s12864-017-4052-4>

Author(s) Akkaya, Munir; Akkaya, Billur; Miozzo, Pietro; **Rawat, Mukul;** Pena, Mirna; **Chaturvedi, Akanksha** and Pierce , Susan K.
Title B Cells Produce Type 1 IFNs in Response to the TLR9 Agonist CpG-A Conjugated to Cationic Lipids
Name of the Journal Journal of Immunology
Vol. No. 199
Issue No. 3
Page No. 931-940
Date of Publication 01-Aug-2017
Name of the Publisher The American Association of Immunologists
DOI [10.4049/jimmunol.1700348](https://doi.org/10.4049/jimmunol.1700348)

Author(s) **Kulkarni, Shubhankar;** Sharda, Sakshi; **Watve, Milind**
Title Bi-stability in type 2 diabetes mellitus multi-organ signalling network
Name of the Journal PLOS ONE
Vol. No. 12
Issue No. 8
Date of Publication 02-Aug-2017
Name of the Publisher PLOS
DOI [10.1371/journal.pone.0181536](https://doi.org/10.1371/journal.pone.0181536)

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Author(s) **Dutta, Priyanka;** Das, Swagata; Maiti, Sankar
Title Non diaphanous formin delphilin acts as a barbed end capping protein
Name of the Journal Experimental Cell Research
Vol. No. 357
Issue No. 2
Page No. 163-169
Date of Publication 15-Aug-2017
Name of the Publisher Elsevier
DOI [10.1016/j.yexcr.2017.05.014](https://doi.org/10.1016/j.yexcr.2017.05.014)

Chemistry

Author(s) **Chaudhari, Moreshwar B.; Sutar, Yogesh; Malpathak, Shreyas; Hazra, Anirban and Gnanaprakasam, Boopathy**
Title Transition-Metal-Free C–H Hydroxylation of Carbonyl Compounds
Name of the Journal Organic Letters
Vol. No. 19
Issue No. 13
Page No. 3628–3631
Date of Publication 26-Jun-2017
Name of the Publisher American Chemical Society
DOI [10.1021/acs.orglett.7b01616](https://doi.org/10.1021/acs.orglett.7b01616)

Author(s) Mahne, Nika ; Fontaine, Olivier; **Thotiyl, Muhammed M. Ottakam;** Wilkening, Martin and Freunberger, Stefan A
Title Mechanism and performance of lithium-oxygen batteries – a perspective
Name of the Journal Chemical Science
Date of Publication 31-Jul-2017
Name of the Publisher Royal Society of Chemistry
DOI [10.1039/C7SC02519J](https://doi.org/10.1039/C7SC02519J)

Author(s) **Thimmappa, Ravikumar; Aralekallu, Shambhulinga; Devendrachari, Mruthyunjayachari Chattanahalli; Kottaichamy, Alagar Raja ; Bhat,Zahid Manzoor; Shafi,Shahid Pottachola; Lokesh, Koodlur Sannegowda and Thotiyl, Musthafa Ottakam**
Title A Single Chamber Direct Methanol Fuel Cell
Name of the Journal Advanced Material Interfaces
Date of Publication 10-Aug-2017
Name of the Publisher Wiley
DOI [10.1002/admi.201700321](https://doi.org/10.1002/admi.201700321)

Author(s) Gaikwad, Pramod; Kadlag, Kavita; Nambiar, Manasa; Devendrachri, Mruthyunjayachari Chattanahalli; Aralekallu, Shambhulinga; Kottaichamy, Alagar Raja; Bhat, Zahid Manzoor; Thimmappa, Ravikumar; Shafi, Shahid Pottachola; **Thotiyl, Musthafa Ottakam**

Title Redox Active Binary Logic Gate Circuit for Homeland Security

Name of the Journal Analytical Chemistry

Vol. No. 89

Issue No. 15

Page No. 7893-7899

Date of Publication Aug-2017

Name of the Publisher American Chemical Society

DOI [10.1021/acs.analchem.7b00823](https://doi.org/10.1021/acs.analchem.7b00823)

Author(s) **Manna, Sudeshna; Panse, Cornelia H.; Sontakke, Vyankat A. Sangamesh, Sarangamath; Srivatsan, Seergazhi G.**

Title Probing Human Telomeric DNA and RNA Topology and Ligand Binding in a Cellular Model by Using Responsive Fluorescent Nucleoside Probes

Name of the Journal Chembiochem

Vol. No. 18

Issue No. 16

Page No. 1604-1615

Date of Publication 17-Aug-2017

Name of the Publisher Wiley

DOI [10.1002/cbic.201700283](https://doi.org/10.1002/cbic.201700283)

Author(s) **More, Nagnath Yadav; Jeganmohan, Masilamani**

Title Oxidative Cross-Coupling of Substituted Phenols with Unactivated Aromatics

Name of the Journal European Journal of Organic Chemistry

Vol. No. 29

Page No. 4305-4312

Date of Publication 10-Aug-2017

Name of the Publisher Wiley

DOI [10.1002/ejoc.201700666](https://doi.org/10.1002/ejoc.201700666)

Author(s) **Misra, Rajkumar; Sharma, Aman; Shiras, Anjali; Gopi, HosahudyaN.**

Title Backbone Engineered gamma-Peptide Amphitropic Gels for Immobilization of Semiconductor Quantum Dots and 2D Cell Culture

Name of the Journal Langmuir

Vol. No. 33

Issue No. 31

Page No. 7762-7768

Date of Publication 08-Aug-2017

Name of the Publisher American Chemical Society

DOI [10.1021/acs.langmuir.7b01283](https://doi.org/10.1021/acs.langmuir.7b01283)

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Author(s) Dhara, Debabrata; **Vijayakanth, Thangavel**; Barman, Milan Kr.; Naik, Khevath Praveen Kumar; Chrysochos, Nicolas; Yildiz, Cem B.; **Boomishankar, Ramamoorthy**; Schulzke, Carola; Chandrasekhar, Vadapalli; Jana, Anukul
Title NHC-stabilized 1-hydrosilamine: synthesis, structure and reactivity
Name of the Journal Chemical Communications
Vol. No. 53
Issue No. 61
Page No. 8592-8595
Date of Publication 7-Aug-2017
Name of the Publisher Royal Society of Chemistry
DOI [10.1039/c7cc03912c](https://doi.org/10.1039/c7cc03912c)

Author(s) **Srivastava, Anant Kumar; Vijayakanth, Thangavel**; Divya, Pillutla; Praveenkumar, B; Steiner, Alexander; **Boomishankar, Ramamoorthy**
Title Altering polarization attributes in ferroelectric metallo-cavitands by varying hydrated alkali-metal guest cations
Name of the Journal Journal of Materials Chemistry C
Vol. No. 5
Issue No. 29
Page No. 7352-7359
Date of Publication 07-Aug-2017
Name of the Publisher Royal Society of Chemistry
DOI [10.1039/c7tc01758h](https://doi.org/10.1039/c7tc01758h)

Author(s) **Ravikumar, Govindan**; Bagheri, Meisam; Saini, Deepak Kumar; **Chakrapani, Harinath**
Title FLUORO/NO: A Nitric Oxide Donor with a Fluorescence Reporter
Name of the Journal Chembiochem
Vol. No. 18
Issue No. 15
Page No. 1529-1534
Date of Publication 04-Aug-2017
Name of the Publisher WILEY
DOI [10.1002/cbic.201700155](https://doi.org/10.1002/cbic.201700155)

Author(s) Akram, Mohd.; Anwar, Sana; **Bhat, Imtiyaz Ahmad**; Kabir-ud-Din
Title In vitro evaluation of the non-covalent interactions of hemoglobin with distinctively modified gemini surfactants: Effect of structural variation
Name of the Journal Colloids and Surfaces A-Physicochemical and Engineering Aspects
Vol. No. 527
Page No. 145-157
Date of Publication 20-Aug-2017
Name of the Publisher Elsevier
DOI [10.1016/j.colsurfa.2017.05.021](https://doi.org/10.1016/j.colsurfa.2017.05.021)

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Author(s) **Manikandan, Rajendran; Jeganmohan, Masilamani**
Title Recent advances in the ruthenium(II)-catalyzed chelation-assisted C-H olefination of substituted aromatics, alkenes and heteroaromatics with alkenes via the deprotonation pathway
Name of the Journal Chemical Communications
Vol. No. 53
Issue No. 64
Page No. 8931-8947
Date of Publication 18-Aug-2017
Name of the Publisher Royal Society of Chemistry
DOI [10.1039/c7cc03213g](https://doi.org/10.1039/c7cc03213g)

Mathematics

Author(s) Ayyer, Arvind; Prasad, Amritanshu; **Spallone, Steven**
Title Representations of symmetric groups with non-trivial determinant
Name of the Journal Journal of Combinatorial Theory Series A
Vol. No. 150
Page No. 208-232
Date of Publication Aug-2017
Name of the Publisher Academic Press
DOI [10.1016/j.jcta.2017.03.004](https://doi.org/10.1016/j.jcta.2017.03.004)

Physics

Author(s) Alencherry, Tinto; **Naveen, A. R.**; Ghosh, Somnath; Daniel, Jency; Venkataraghavan, R.
Title Effect of increasing electrical conductivity and hydrophilicity on the electrosorption capacity of activated carbon electrodes for capacitive deionization
Name of the Journal Desalination
Vol. No. 415
Page No. 14-19
Date of Publication Aug-2017
Name of the Publisher Elsevier
DOI [10.1016/j.desal.2017.04.001](https://doi.org/10.1016/j.desal.2017.04.001)

Author(s) Wu, Ying-Hai; Shi, Tao; **Sreejith, G. J.**; and Liu, Zheng-Xin
Title Fermionic symmetry-protected topological state in strained graphene
Name of the Journal Physical Review B
Date of Publication 27-Aug-2017
Name of the Publisher American Physical Society
DOI [10.1103/PhysRevB.96.085138](https://doi.org/10.1103/PhysRevB.96.085138)

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Author(s) Dabhade, Pratik; Gaikwad, Madhuri; Bagchi, Joydeep; Pandey-Pommier, M.; **Sankhyayan, Shishir**; Raychaudhury, Somak
Title Discovery of giant radio galaxies from NVSS: radio and infrared properties
Name of the Journal Monthly Notices of the Royal Astronomical Society
Vol. No. 469
Issue No. 3
Page No. 2886-2906
Date of Publication Aug-2017
Name of the Publisher Oxford University Press
DOI [10.1093/mnras/stx860](https://doi.org/10.1093/mnras/stx860)

Author(s) Edler, D.; **Mishra, C.**; Waechtler, F.; **Nath, R.**; Sinha, S.; Santos, L.
Title Quantum Fluctuations in Quasi-One-Dimensional Dipolar Bose-Einstein Condensates
Name of the Journal Physical Review Letters
Vol. No. 119
Issue No. 5
Date of Publication 02-Aug-2017
Name of the Publisher American Physical Society
DOI [10.1103/PhysRevLett.119.050403](https://doi.org/10.1103/PhysRevLett.119.050403)

Author(s) **Agarwalla, Bijay Kumar**; Segal, Dvira
Title The Anderson impurity model out-of-equilibrium: Assessing the accuracy of simulation techniques with an exact current-occupation relation
Name of the Journal Journal of Chemical Physics
Vol. No. 147
Issue No. 5
Date of Publication 07-Aug-2017
Name of the Publisher Amer Inst Physics
DOI [10.1063/1.4996562](https://doi.org/10.1063/1.4996562)
