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

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# Biology

Author(s) Abhyankar, Varada; **Kaduskar, Bhagyashree; Kamat, Siddhesh S.**; Deobagkar, Deepti and **Ratnaparkhi, Girish S.**  
Title *Drosophila* DNA/RNA methyltransferase contributes to robust host defense in ageing animals by regulating sphingolipid metabolism.  
Name of the Journal Journal of Experimental Biology  
Date of Publication 25-Sep-2018  
Name of the Publisher The Company of Biologists Ltd  
DOI [10.1242/jeb.187989](https://doi.org/10.1242/jeb.187989)

Author(s) **Bisht, Girish Singh; Pandey, Akanksha M.; Chaudhari, Moreshwar B.; Agalave, Sandip G.; Kanyal, Abhishek; Karmodiya, Krishanpal** and **Gnanaprakasam, Boopathy**  
Title Ru-Catalyzed dehydrogenative synthesis of antimalarial arylideneox indoles  
Name of the Journal Organic and Bimolecular Chemistry  
Date of Publication 18-Sep-2018  
Name of the Publisher Royal Society of Chemistry  
DOI [10.1039/C8OB01852A](https://doi.org/10.1039/C8OB01852A)

Author(s) **Joshi, Alaumy; Shaikh, Minhaj; Singh, Shubham; Rajendran, Abinaya; Mhetre, Amol** and **Kamat, Siddhesh S.**  
Title Biochemical characterization of the PHARC associated serine hydrolase ABHD12 reveals its preference for very long chain lipids  
Name of the Journal Journal of Biological Chemistry  
Date of Publication 20-Sep-2018  
Name of the Publisher American Society for Biochemistry and Molecular Biology  
DOI [10.1074/jbc.RA118.005640](https://doi.org/10.1074/jbc.RA118.005640)

Author(s) **Karve, Shraddha M.; Bhave, Devika** and **Dey, Sutirth**  
Title Extent of adaptation is not limited by unpredictability of the environment in laboratory populations of *Escherichia coli*  
Name of the Journal Journal of Evolutionary Biology  
Vol. No. 31  
Issue No. 9  
Page No. 1420-1426  
Date of Publication Sep-2018  
Name of the Publisher Wiley  
DOI [10.1111/jeb.13338](https://doi.org/10.1111/jeb.13338)

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Author(s) **Manna, S.; Sarkar, D. and Srivatsan, S. G.**  
Title A Dual-app nucleoside probe provides structural insights into the human telomeric overhang in live cells  
Name of the Journal Journal of American Chemical Society.  
Vol. No. 140  
Issue No. 39  
Page No. 12622-12633  
Date of Publication 03-Oct-2018  
Name of the Publisher ACS Publications  
DOI [10.1021/jacs.8b08436](https://doi.org/10.1021/jacs.8b08436).

Author(s) **Mishra, Abhishek; Tung, Sudipta; Shreenidhi, P. M; Sadiq, Mohammed Aamir; Sruti, V. R. Shree; Chakraborty, Partha Pratim and Dey, Sutirth**  
Title Sex differences in dispersal syndrome are modulated by environment and evolution  
Name of the Journal Philosophical Transactions of the Royal Society B-Biological Sciences  
Vol. No. 373  
Issue No. 1757  
Date of Publication 05-Oct-2018  
Name of the Publisher TheRoyal Society  
DOI [10.1098/rstb.2017.0428](https://doi.org/10.1098/rstb.2017.0428)

Author(s) Somalwar, Amita; **Subhedar, Nishikant K.** et.al.  
Title Cocaine- and amphetamine-regulated transcript peptide (CART) induced reward behavior is mediated via G(i/o) dependent phosphorylation of PKA/ERK/CREB pathway  
Name of the Journal Behavioural Brain Research  
Vol. No. 348  
Page No. 9-21  
Date of Publication 01-Aug-2018  
Name of the Publisher Elsevier  
DOI [10.1016/j.bbr.2018.03.035](https://doi.org/10.1016/j.bbr.2018.03.035)

Author(s) **Tung, Sudipta; Mishra, Abhishek;** Gogna, Navdeep; **Sadiq, Mohammed Aamir; Shreenidhi, P. M.; Sruti V. R. Shree;** Dorai, Kavita and **Dey, Sutirth**  
Title Evolution of dispersal syndrome and its corresponding metabolomic changes  
Name of the Journal Evolution: International Journal of Organic Evolution  
Vol. No. 72  
Issue No. 9  
Page No. 1890-1903  
Date of Publication Sep-2018  
Name of the Publisher Wiley  
DOI [10.1111/evo.13560](https://doi.org/10.1111/evo.13560)

# Chemistry

Author(s) **Battu, Shateesh; Itagi, Mahesh; Bhat, Zahid Manzoor; Khaire, Siddhi; Kottaichamy, Alagar Raja; Sannegowda, Lokesh Koodlur; Thimmappa, Ravikumar and Thotiyl, Musthafa Ottakam**

Title A Metal Coordination Polymer Framework Governed by Heat of Hydration for Non-invasive Differentiation of Alkali Metal Series

Name of the Journal Analytical Chemistry

Date of Publication 05-Oct-2018

Name of the Publisher American Chemical Society

DOI [10.1021/acs.analchem.8b03541](https://doi.org/10.1021/acs.analchem.8b03541)

Author(s) **Bisht, Girish Singh; Pandey, Akanksha M.; Chaudhari, Moreshwar B.; Agalave, Sandip G.; Kanyal, Abhishek; Karmodiya, Krishanpal and Gnanaprakasam, Boopathy**

Title Ru-Catalyzed dehydrogenative synthesis of antimalarial arylideneoxindoles

Name of the Journal Organic and Biomolecular Chemistry

Date of Publication 18-Sep-2018

Name of the Publisher Royal Society of Chemistry

DOI [10.1039/C8OB01852A](https://doi.org/10.1039/C8OB01852A)

Author(s) **Itagi, Mahesh; Battu, Shateesh; Devendrachari, Mruthyunjayachari Chattanahalli; Bhat, Zahid Manzoor; Kottaichamy, Alagar Raja; Pandit, Deepraj; Gautam, Manu; Thimmappa, Ravikumar; Sannegowda, Lokesh Koodlur and Thotiyl, Musthafa Ottakam**

Title A Zinc Battery Driven by an Electro-organic Reactor Cathode

Name of the Journal ACS Sustainable Chemistry & Engineering

Date of Publication 20-Sep-2018

Name of the Publisher American Chemical Society

DOI [10.1021/acssuschemeng.8b03486](https://doi.org/10.1021/acssuschemeng.8b03486)

Author(s) **Kulkarni, Amogh; Sharma, Ajay Kumar and Chakrapani, Harinath**

Title Redox-guided small molecule antimycobacterials

Name of the Journal IUBMB Life

Vol. No. 70

Issue No. 9

Page No. 826-835

Date of Publication Sep-2018

Name of the Publisher John Wiley

DOI [10.1002/iub.1867](https://doi.org/10.1002/iub.1867)

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Author(s) **Manna, S.; Sarkar, D. and Srivatsan, S. G.**  
Title A Dual-app nucleoside probe provides structural insights into the human telomeric overhang in live cells  
Name of the Journal Journal of American Chemical Society.  
Vol. No. 140  
Issue No. 39  
Page No. 12622-12633  
Date of Publication 03-Oct-2018  
Name of the Publisher ACS Publications  
DOI [10.1021/jacs.8b08436](https://doi.org/10.1021/jacs.8b08436).

Author(s) **Manna, S. and Srivatsan, S. G.**  
Title Fluorescence-based tools to probe G-quadruplexes in cell-free and cellular environments  
Name of the Journal RSC Advances  
Issue No. 45  
Date of Publication 2018  
Page No. 25673-25694  
Name of the Publisher Royal Society of Chemistry  
DOI [10.1039/C8RA03708F](https://doi.org/10.1039/C8RA03708F)

Author(s) **Mondal, Anirban; Aneesh, J.; Ravi, Vikash Kumar; Sharma, Rituraj; Mir, Wasim J.; Beard, Mathew C.; Nag, Angshuman and Adarsh, K. V.**  
Title Ultrafast exciton many-body interactions and hot-phonon bottle neck in colloidal cesium lead halide perovskitenanocrystals  
Name of the Journal Physical Review B  
Vol. No. 98  
Issue No. 11  
Date of Publication 15-Sep-2018  
Name of the Publisher American Physical Society  
DOI [10.1103/PhysRevB.98.115418](https://doi.org/10.1103/PhysRevB.98.115418)

Author(s) **Mullangi, Dinesh; Chakraborty, Debanjan; Pradeep, Anu; Koshti, Vijay; Vinod, Chathakudath P.; Panja, Soumendranath; Nair, Sunil and Vaidhyanathan, Ramanathan**  
Title Highly Stable COF-Supported Co/Co(OH)(2) Nanoparticles Heterogeneous Catalyst for Reduction of Nitrile/Nitro Compounds under Mild Conditions  
Name of the Journal Small  
Vol. No. 14  
Issue No. 37  
Date of Publication 13-Sep-2018  
Name of the Publisher Wiley  
DOI [10.1002/smll.201801233](https://doi.org/10.1002/smll.201801233)

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Author(s) **Pal, Shiv; Manae, Meghna A.; Khade, Vikas V. and Khan, Shabana**  
Title [Reactivity of N-heterocyclic carbene, 1,3-bis\(2,6-diisopropylphenyl\)imidazol-2-ylidene, towards heavier halogens \(Br-2 and I-2\)](#)  
Name of the Journal Journal of the Indian Chemical Society  
Vol. No. 95  
Issue No. 7  
Page No. 765-770  
Date of Publication Jul-2018  
Name of the Publisher Scientific Publication India

Author(s) **Sahu, Amit; Mondal, Krishnakanta and Ghosh, Prasenjit**  
Title Microscopic understanding of electrocatalytic reduction of CO<sub>2</sub> on Pd-polyaniline composite: an ab initio study  
Name of the Journal Journal of Molecular Modeling  
Vol. No. 24  
Issue No. 9  
Date of Publication Sep-2018  
Name of the Publisher Springer  
DOI [10.1007/s00894-018-3762-0](https://doi.org/10.1007/s00894-018-3762-0)

Author(s) **Shinde, Sopan Valiba and Talukdar, Pinaki**  
Title An anion receptor that facilitates transmembrane proton-anion symport by deprotonating its sulfonamide N-H proton  
Name of the Journal Chemical Communications  
Vol. No. 54  
Issue No. 73  
Page No. 10351-10354  
Date of Publication 09-Aug-2018  
Name of the Publisher Royal Society of chemistry  
DOI [10.1039/c8cc04044c](https://doi.org/10.1039/c8cc04044c)

Author(s) **Sur, Soumodip; Kottaichamy, Alagar Raja; Bhat, Zahid Manzoor; Devendrachari, Mruthyunjayachari Chattanahalli; Thimmappa, Ravikumar and Thotiyl, Musthafa Ottakam**  
Title A pH dependent high voltage aqueous supercapacitor with dual electrolytes  
Name of the Journal Chemical Physics Letters  
Vol. No. 712  
Page No. 160-164  
Date of Publication 16-Nov-2018  
Name of the Publisher Elsevier  
DOI [10.1016/j.cplett.2018.10.001](https://doi.org/10.1016/j.cplett.2018.10.001)

Author(s) **Yadav, Rohan; Chaudhary, Preeti Madhukar; Subramani, Balamurugan; Toraskar, Suraj; Bavireddi, Harikrishna; Murthy, Raghavendra Vasudeva; Sangabathuni, Sivakoti and Kikkeri, Raghavendra**

Title Imaging and Targeting of the alpha(2-6) and alpha(2-3) Linked Sialic Acid Quantum Dots in Zebrafish and Mouse Models

Name of the Journal ACS Applied Materials & Interfaces

Vol. No. 10

Issue No. 34

Page No. 28322–28330

Date of Publication 29-Aug-2018

Name of the Publisher American Chemical Society

DOI [10.1021/acsami.8b07668](https://doi.org/10.1021/acsami.8b07668)

## Earth and Climate Science

Author(s) **Banerjee, Argha; Shirsat, Tejal and Kumari, Reshama**

Title Prevalence of Power Law Profiles in Passive Margin Escarpments

Name of the Journal Journal of Geophysical Research-Earth Surface

Vol. No. 123

Issue No. 8

Page No. 1699-1709

Date of Publication Aug-2018

Name of the Publisher American Geophysical Union

DOI [10.1029/2018JF004621](https://doi.org/10.1029/2018JF004621)

Author(s) Chakravarty, Kaustav; **Goswami, Bhupendra Nath** et.al.

Title Unraveling of cloud types during phases of monsoon intra-seasonal oscillations by a Ka-band Doppler weather radar

Name of the Journal Atmospheric Science Letters

Vol. No. 19

Issue No. 9

Date of Publication Sep-2018

Name of the Publisher Wiley

DOI [10.1002/asl.847](https://doi.org/10.1002/asl.847)

## Humanities and Social Sciences

Author(s) Kolachana, Aditya; **Pai, Venketeswara** et. al.  
Title The Candrārki of Dinakara: A Text Related to Solar and Lunar Tables  
Name of the Journal Journal for History of Astronomy  
Vol. No. 49  
Issue No. 3  
Page No. 306 -344  
Date of Publication 5-Sep-2018  
Name of the Publisher Sage Publications Pvt.Ltd.  
DOI [10.1177/0021828618787556](https://doi.org/10.1177/0021828618787556)

## Mathematics

Author(s) Arapostathis, Ari; **Biswas, Anup** and Borkar, Vivek S.  
Title Controlled Equilibrium Selection in Stochastically Perturbed Dynamics  
Name of the Journal Annals of Probability  
Vol. No. 46  
Issue No. 5  
Page No. 2749-2799  
Date of Publication Sep-2018  
Name of the Publisher Institute of Mathematical Statistics  
DOI 10.1214/17-AOP1238

Author(s) **Das, Milan Kumar; Goswami, Anindya** and **Patankar, Tanmay S.**  
Title Pricing derivatives in a regime switching market with time inhomogenous volatility  
Name of the Journal Stochastic Analysis and Applications  
Vol. No. 36  
Issue No. 4  
Page No. 700-725  
Date of Publication 2018  
Name of the Publisher T&F  
DOI [10.1080/07362994.2018.1448996](https://doi.org/10.1080/07362994.2018.1448996)



# Physics

Author(s) **Babar, Rohit and Kabir, Mukul**  
Title Gate-dependent vacancy diffusion in graphene  
Name of the Journal Physical Review B  
Vol. No. 98  
Issue No. 7  
Date of Publication 31-Aug-2018  
Name of the Publisher American Physical Society  
DOI [10.1103/PhysRevB.98.075439](https://doi.org/10.1103/PhysRevB.98.075439)

Author(s) CMS Collaboration; Sirunyan, A. M.; **Chauhan, S.; Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S.** et.al.  
Title Elliptic Flow of Charm and Strange Hadrons in High-Multiplicity p plus Pb Collisions at  $\sqrt{s_{NN}}=8.16$  TeV  
Name of the Journal Physical Review Letters  
Vol. No. 121  
Issue No. 8  
Date of Publication 21-Aug-2018  
Name of the Publisher American Physical Society  
DOI [10.1103/PhysRevLett.121.082301](https://doi.org/10.1103/PhysRevLett.121.082301)

Author(s) CMS Collaboration; Sirunyan, A. M.; **Chauhan, S.; Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S.** et.al.  
Title Observation of the  $\chi(b1)(3P)$  and  $\chi(b2)(3P)$  and Measurement of their Masses  
Name of the Journal Physical Review Letters  
Vol. No. 121  
Issue No. 9  
Date of Publication 29-Aug-2018  
Name of the Publisher American Physical Society  
DOI [10.1103/PhysRevLett.121.092002](https://doi.org/10.1103/PhysRevLett.121.092002)

Author(s) CMS Collaboration; Sirunyan, A. M.; **Chauhan, S.; Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S.** et.al.  
Title Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in pp collisions at 8 TeV  
Name of the Journal European Physical Journal C  
Vol. No. 78  
Issue No. 9  
Date of Publication 01-Sep-2018  
Name of the Publisher Springer  
DOI [10.1140/epjc/s10052-018-6148-7](https://doi.org/10.1140/epjc/s10052-018-6148-7)

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Author(s) CMS Collaboration; Sirunyan, A. M.; **Chauhan, S.; Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S. et.al.**

Title Search for additional neutral MSSM Higgs bosons in the tau tau final state in proton-proton collisions at root s=13 TeV

Name of the Journal Journal of High Energy Physics

Issue No. 7

Date of Publication 03-Sep-2018

Name of the Publisher Springer

DOI [10.1007/JHEP09\(2018\)007](https://doi.org/10.1007/JHEP09(2018)007)

Author(s) CMS Collaboration; Sirunyan, A. M.; **Chauhan, S.; Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S. et.al.**

Title Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at root s =13 TeV

Name of the Journal European Physical Journal C

Vol. No. 78

Issue No. 9

Date of Publication Sep-2018

Name of the Publisher Springer

DOI [10.1140/epjc/s10052-018-6144-y](https://doi.org/10.1140/epjc/s10052-018-6144-y)

Author(s) CMS Collaboration; Sirunyan, A. M.; **Chauhan, S.; Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S. et.al.**

Title Search for dark matter produced in association with a Higgs boson decaying to gamma gamma or tau(+)tau(-) at root s=13 TeV

Name of the Journal Journal of High Energy Physics

Issue No. 9

Date of Publication 10-Sep-2018

Name of the Publisher Springer

DOI [10.1007/JHEP09\(2018\)046](https://doi.org/10.1007/JHEP09(2018)046)

Author(s) CMS Collaboration; Sirunyan, A. M.; **Chauhan, S.; Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S. et.al.**

Title Search for third-generation scalar leptoquarks decaying to a top quark and a tau lepton at root s=13 TeV

Name of the Journal European Physical Journal C

Vol. No. 78

Issue No. 9

Date of Publication 03-Sep-2018

Name of the Publisher Springer

DOI [10.1140/epjc/s10052-018-6143-z](https://doi.org/10.1140/epjc/s10052-018-6143-z)

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Author(s) CMS Collaboration; Sirunyan, A. M.; **Chauhan, S.; Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S.** et.al.  
Title Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV  
Name of the Journal Journal of High Energy Physics  
Issue No. 8  
Date of Publication 23-Aug-2018  
Name of the Publisher Springer  
DOI [10.1007/JHEP08\(2018\)152](https://doi.org/10.1007/JHEP08(2018)152)

Author(s) CMS Collaboration; Sirunyan, A. M.; **Chauhan, S.; Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S.** et.al.  
Title Search for narrow and broad dijet resonances in proton-proton collisions at root s=13 TeV and constraints on dark matter mediators and other new particles  
Name of the Journal Journal of High Energy Physics  
Vol. No. 8  
Issue No. 130  
Date of Publication 21-Aug-2018  
Name of the Publisher Springer  
DOI [10.1007/JHEP08\(2018\)130](https://doi.org/10.1007/JHEP08(2018)130)

Author(s) CMS Collaboration; Sirunyan, A. M.; **Chauhan, S.; Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S.** et.al.  
Title Measurement of the Z/gamma\* -> tau tau cross section in pp collisions at root s=13 TeV and validation of tau lepton analysis techniques  
Name of the Journal European Physical Journal C  
Vol. No. 78  
Issue No. 9  
Date of Publication 03-Sep-2018  
Name of the Publisher Springer  
DOI [10.1140/epjc/s10052-018-6146-9](https://doi.org/10.1140/epjc/s10052-018-6146-9)

Author(s) CMS Collaboration; Sirunyan, A. M.; **Chauhan, S.; Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S.** et.al.  
Title Search for vector-like T and B quark pairs in final states with leptons at root s=13 TeV  
Name of the Journal Journal of High Energy Physics  
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Issue. No. 177  
Date of Publication 28-Aug-2018  
Name of the Publisher Springer  
DOI [10.1007/JHEP08\(2018\)177](https://doi.org/10.1007/JHEP08(2018)177)

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Author(s) **Garg, Charu; Kumar, Jitender and Nair, Sunil**  
Title Absence of a multiglass state in some transition metal doped quantum paraelectrics  
Name of the Journal Physical Review Materials  
Vol. No. 2  
Issue. No. 9  
Date of Publication 26-Sep-2018  
Name of the Publisher American Physical Society  
DOI [10.1103/PhysRevMaterials.2.094409](https://doi.org/10.1103/PhysRevMaterials.2.094409)

Author(s) Gopal, R.; **Sen, A.**; Sahu, S. R.; Venkatachalam, A. S.; Anand, M. and Sharma, V.  
Title Note: An ion imaging spectrometer for studying photo-induced fragmentation in small molecules  
Name of the Journal Review of Scientific Instruments  
Vol. No. 89  
Issue. No. 8  
Date of Publication Sep-2018  
Name of the Publisher American Institute of Physics  
DOI [10.1063/1.5049844](https://doi.org/10.1063/1.5049844)

Author(s) **Harnagea, Luminita; Kumar, Rohit; Singh, Surjeet**; Wurmehl, S; Wolter, Anja U B and Buchner, B  
Title Evolution of the magnetic order of Fe and Eusublattices in  $\text{Eu}_{1-x}\text{Ca}_x\text{Fe}_2\text{As}_2$  ( $0 \leq x \leq 1$ ) single crystals  
Name of the Journal Journal of Physics: Condensed Matter  
Vol. No. 30  
Issue. No. 41  
Date of Publication 24-Sep-2018  
Name of the Publisher IOP Publishing Ltd  
DOI [10.1088/1361-648X/aadea6](https://doi.org/10.1088/1361-648X/aadea6)

Author(s) **Khanapurkar, Swanand** and Singh, Tejinder P.  
Title A duality between curvature and torsion  
Name of the Journal International Journal of Modern Physics D  
Name of the Publisher World Scientific  
Date of Publication Sep-2018  
DOI [10.1142/S0218271818470089](https://doi.org/10.1142/S0218271818470089)

Author(s) **Khanapurkar, Swanand**; Varma, Abhinav; Mittal, Nehal; Gupta, Navya and Singh, Tejinder P.  
Title Einstein-Cartan-Dirac equations in the Newman-Penrose formalism  
Name of the Journal Physical Review D  
Vol. No. 98  
Issue. No. 6  
Date of Publication 15-Sep-2018  
Name of the Publisher American Physical Society  
DOI [10.1103/PhysRevD.98.064046](https://doi.org/10.1103/PhysRevD.98.064046)

Author(s) **Kour, Prachi; Reddy, Mallu Chenna; Naphade, Rounak and Ogale, Satishchandra**  
Title Quaternary alkylammonium salt incorporated 2D/3D mixed halide perovskite with highly enhanced photoluminescence and arrested iodide/bromide phase segregation  
Name of the Journal APL Materials  
Vol. No. 6  
Issue. No. 8  
Date of Publication Aug-2018  
Name of the Publisher American Institute Physics  
DOI [10.1063/1.5042449](https://doi.org/10.1063/1.5042449)

Author(s) **Mullangi, Dinesh; Chakraborty, Debanjan; Pradeep, Anu;** Koshti, Vijay; Vinod, Chathakudath P.; **Panja, Soumendranath; Nair, Suniland and Vaidhyanathan, Ramanathan**  
Title Highly Stable COF-Supported Co/Co(OH)(2) Nanoparticles Heterogeneous Catalyst for Reduction of Nitrile/Nitro Compounds under Mild Conditions  
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Date of Publication 13-Sep-2018  
Name of the Publisher Wiley  
DOI [10.1002/smll.201801233](https://doi.org/10.1002/smll.201801233)

Author(s) **Sahu, Amit; Mondal, Krishnakanta and Ghosh, Prasenjit**  
Title Microscopic understanding of electrocatalytic reduction of CO<sub>2</sub> on Pd-polyaniline composite: an ab initio study  
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Date of Publication Sep-2018  
Name of the Publisher Springer  
DOI [10.1007/s00894-018-3762-0](https://doi.org/10.1007/s00894-018-3762-0)

Author(s) **Sharma, Deepak; Bapat, Bhas;** Bhatt, Pragya and Safvan, C. P.  
Title Anisotropy in multiple ionisation of CO by ion collisions at intermediate interaction strengths  
Name of the Journal Journal of Physics B-Atomic Molecular and Optical Physics  
Vol. No. 51  
Issue. No. 19  
Date of Publication 14-Oct-2018  
Name of the Publisher IOP Publishing Ltd  
DOI [10.1088/1361-6455/aadc93](https://doi.org/10.1088/1361-6455/aadc93)

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Author(s) **Sk, Rejaul; Mulani, Imrankhan and Deshpande, Aparna**  
Title Emergent Properties of Organic Molecule-Topological Insulator Hybrid Interface: Cu-Phthalocyanine on Bi<sub>2</sub>Se<sub>3</sub>  
Name of the Journal Journal of Physical Chemistry C  
Date of Publication 19-Sep-2018  
Name of the Publisher ACS  
DOI [10.1021/acs.jpcc.8b06584](https://doi.org/10.1021/acs.jpcc.8b06584)

Author(s) **Vasista, Adarsh B.; Sharma, Deepak K. and Kumar, G.V. Pavan**  
Title Fourier plane optical microscopy and spectroscopy  
Name of the Journal Encyclopedia of Applied Physics  
Date of Publication Sep-2018  
Name of the Publisher Wiley

Author(s) **Vasista, Adarsh B.; Tiwari, Sunny; Sharma, Deepak K.; Chaubey, Shailendra K. and Kumar, G.V. Pavan**  
Title Vectorial Fluorescence Emission from Microsphere Coupled to Gold Mirror  
Name of the Journal Advanced Optical Materials  
Date of Publication 24-Sep-2018  
Name of the Publisher Wiley  
DOI [10.1002/adom.201801025](https://doi.org/10.1002/adom.201801025)

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