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

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# Biology

Author(s) **Ahmad, Ishtiyag; Kulkarni, Manasi; Gopinath, Aathira and Saikrishnan, Kayarat**  
Title Single-site DNA cleavage by Type III restriction endonuclease requires a site-bound enzyme and a trans-acting enzyme that are ATPase-activated  
Name of the Journal Nucleic Acids Research  
Date of Publication 26-May-2018  
Name of the Publisher Oxford University Press  
DOI <https://doi.org/10.1093/nar/gky344>

Author(s) Britz, Ralf; Anoop, V. K. and **Dahanukar, Neelesh**  
Title Dario neela, a new species of badid fish from the Western Ghats of India (Teleostei: Percomorpha: Badidae)  
Name of the Journal Zootaxa  
Vol. No. 4429  
Issue No. 1  
Page No. 141-148  
Date of Publication 05-Jun-2018  
Name of the Publisher Magnolia Press  
DOI <http://dx.doi.org/10.11646/zootaxa.4429.1.6>

Author(s) **Goel, Pranay**; Parkhi, Durga; Barua, Amlan; Shah, Mita; Ghaskadbi, Saroj  
Title A Minimal Model Approach for Analyzing Continuous Glucose Monitoring in Type 2 Diabetes  
Name of the Journal Frontiers in Physiology  
Vol. No. 9  
Date of Publication 04-June-2018  
Name of the Publisher Frontiers Media  
DOI [10.3389/fphys.2018.00673](https://doi.org/10.3389/fphys.2018.00673)

Author(s) Pathak, Divya; **Mehendale, Neelay; Singh, Shubham**; Mallik, Roop and **Kamat, Siddhesh S.**  
Title Lipidomics suggests a new role for ceramide synthase in phagocytosis  
Name of the Journal ACS Chemical Biology  
Date of Publication 02-Jul-2018  
Name of the Publisher American Chemical Society  
DOI [10.1021/acscchembio.8b00438](https://doi.org/10.1021/acscchembio.8b00438)

Author(s) **Rajan, Raghav**  
Title Pre-Bout Neural Activity Changes in Premotor Nucleus HVC Correlate with Successful Initiation of Learned Song Sequence  
Name of the Journal Journal of Neuroscience  
Vol. No. 38  
Issue No. 26  
Page No. 5925-5938  
Date of Publication 27-Jun-2018  
Name of the Publisher The Society for Neuroscience  
DOI [10.1523/JNEUROSCI.3003-17.2018](https://doi.org/10.1523/JNEUROSCI.3003-17.2018)

Author(s) **Shukla, Vallari; Dhiman, Neena; Nayak, Prajna; Dahanukar, Neelesh;** Deshpande, Girish; **Ratnaparkhi, Girish S.**  
Title Stonewall and Brickwall: Two Partially Redundant Determinants Required for the Maintenance of Female Germline in Drosophila  
Name of the Journal G3-Genes Genomes Genetics  
Vol. No. 8  
Issue No. 7  
Page No. 2027-2041  
Date of Publication 01-June-2018  
Name of the Publisher Genetics Society of America  
DOI <https://doi.org/10.1534/g3.118.200192>

## Chemistry

Author(s) **Bhat, Imtiyaz Ahmad; Roy, Bibhisan and Kabir-ud-Din**  
Title Synthesis and biophysical analysis of a novel gemini surfactant with lysozyme: Industrial perspective  
Name of the Journal Journal of Industrial and Engineering Chemistry  
Vol. No. 63  
Page No. 348-358  
Date of Publication 25-Jul-2018  
Name of the Publisher Elsevier  
DOI [10.1016/j.jiec.2018.02.035](https://doi.org/10.1016/j.jiec.2018.02.035)

Author(s) **Devendrachari, Mruthyunjayachari Chattanahalli; Thimmappa, Ravikumar; Bhat, Zahid Manzoor; Shafi, Shahid Pottachola;** Kotresh, Harish Makri Nimbegondi; **Kottaichamy, Alagar Raja; Reddy, Kallam Ramareddy Venugopala; Thotiyl, Musthafa Ottakam**  
Title A Vitamin C Fuel Cell with a Non-bonded Cathodic Interface  
Name of the Journal Sustainable Energy & Fuels  
Date of Publication 19-June 2018  
Name of the Publisher Royal Society of Chemistry  
DOI [10.1039/C8SE00221E](https://doi.org/10.1039/C8SE00221E)

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Author(s) **Prakash, Prabhat and Venkatnathan, Arun**  
Title Site-Specific Interactions in CO<sub>2</sub> Capture by Lysinate Anion and Role of Water Using Density Functional Theory  
Name of the Journal Journal of Physical Chemistry C  
Vol. No. 122  
Issue No. 24  
Page No. 12647–12656  
Date of Publication 04-June-2018  
Name of the Publisher American Chemical Society  
DOI [10.1021/acs.jpcc.8b03882](https://doi.org/10.1021/acs.jpcc.8b03882)

Author(s) **Sabale, Pramod M.; Tanpure, Arun A.; Srivatsan, Seergazhi G.**  
Title Probing the competition between duplex and G-quadruplex/i-motif structures using a conformation-sensitive fluorescent nucleoside probe  
Name of the Journal Organic & Biomolecular Chemistry  
Vol. No. 16  
Issue No. 22  
Page No. 4141–4150  
Date of Publication 21-May-2018  
Name of the Publisher Royal Society of Chemistry  
DOI [10.1039/C8OB00646F](https://doi.org/10.1039/C8OB00646F)

Author(s) **Thripuranthaka, M.; Sharma, Neha; Das, Tilak; Varhade, Swapnil; Badadhe, Satish S.; Thotiyl, Musthafa Ottakam; Kabir, Mukul and Ogale, Satishchandra**  
Title A Combined Experimental and Computational Study of Gas Sensing by Cu<sub>3</sub>SnS<sub>4</sub> Nanoparticulate Film: High Selectivity, Stability, and Reversibility for Room Temperature H<sub>2</sub>S Sensing  
Name of the Journal Advanced Materials Interfaces  
Vol. No. 5  
Issue. No. 10  
Date of Publication 23-May-2018  
Name of the Publisher Wiley  
DOI [10.1002/admi.201701492](https://doi.org/10.1002/admi.201701492)

Author(s) **Walunj, Manisha B.; Sabale, Pramod M. and Srivatsan, Seergazhi G.**  
Title Advances in the application of Pd-mediated transformations in nucleotides and oligonucleotides: a book chapter in Palladium-catalyzed modification of nucleosides, nucleotides and oligonucleotides  
Name of the Journal Palladium-Catalyzed Modification of Nucleosides, Nucleotides and Oligonucleotides  
Page No. 269–293  
Date of Publication 2018  
Name of the Publisher Elsevier  
DOI <https://doi.org/10.1016/B978-0-12-811292-2.00009-X>

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## Earth and Climate Science

Author(s) **Banerjee, Argha and Wani, Bilal Ahmad**  
Title Exponentially decreasing erosion rates protect the high-elevation crests of the Himalaya  
Name of the Journal Earth and Planetary Science Letters  
Vol. No. 497  
Page No. 22-28  
Date of Publication 01-Sep-2018  
Name of the Publisher Elsevier  
DOI <https://doi.org/10.1016/j.epsl.2018.06.001>

Author(s) Mishra, Aditya; Negi, B. D. S.; **Banerjee, Argha**; Nainwal, H. C. and Shankar, R.  
Title Estimation of ice thickness of the Satopanth Glacier, Central Himalaya using ground penetrating radar  
Name of the Journal Current Science  
Vol. No. 114  
Issue No. 4  
Page No. 785-791  
Date of Publication 25-Feb-2018  
Name of the Publisher Indian Academy of Sciences  
DOI [10.18520/cs/v114/i04/785-791](https://doi.org/10.18520/cs/v114/i04/785-791)

## General

Author(s) Tole, Shubha and **Shashidhara, L.S.**  
Title Gender-sensitization in Indian science: attitudes and action items  
Name of the Journal Current Science  
Vol. No. 114  
Issue No. 12  
Page No. 2425-2427  
Date of Publication 25-Jun-2018  
Name of the Publisher Indian Academy Sciences  
DOI [10.18520/cs/v114/i12/2425-2427](https://doi.org/10.18520/cs/v114/i12/2425-2427)

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# 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. 9  
Issue No. 1  
Page No. 1-15  
Date of Publication 26-Dec- 2017  
Name of the Publisher Taylor & Francis  
DOI <https://doi.org/10.1080/19472498.2017.1411048>

Author(s) **Sohoni, Pushkar**  
Title Building History: Historiography of Architectural History in South Asia  
Name of the Journal History Compass  
Vol. No. 16  
Issue No. 6  
Date of Publication Jun- 2018  
Name of the Publisher Wiley  
DOI [10.1111/hic3.12450](https://doi.org/10.1111/hic3.12450)

Author(s) **Sohoni, Pushkar**  
Title Imbrication and Implication: Early Maratha Architecture and the Deccan Sultanates  
Name of the Journal Archives of Asian Art  
Vol. No. 68  
Issue No. 1  
Page No. 33-46  
Date of Publication Apr- 2018  
Name of the Publisher Duke University Press  
DOI <https://doi.org/10.1215/00666637-4342393>

Author(s) **Sohoni, Pushkar**  
Title Translocated Colonial Subjects in Collaboration: Animals and Human Knowledge  
Name of the Journal Transfers: Interdisciplinary Journal of Mobility Studies  
Vol. No. 8  
Issue No. 1  
Page No. 1-14  
Date of Publication 01-Mar- 2018  
Name of the Publisher Berghahn  
DOI [10.3167/TRANS.2018.080102](https://doi.org/10.3167/TRANS.2018.080102)

# Mathematics

- Author(s) Atar, Rami; **Biswas, Anup** and Kaspi, Haya  
Title Law of large numbers for the many-server earliest-deadline-first queue  
Name of the Journal Stochastic Processes and Their Applications  
Vol. No. 128  
Issue No. 7  
Page No. 2270-2296  
Date of Publication Jul-2018  
Name of the Publisher Elsevier  
DOI [10.1016/j.spa.2017.09.009](https://doi.org/10.1016/j.spa.2017.09.009)
- Author(s) **Hogadi, Amit** and **Pisolkar, Supriya**  
Title On the comparison of two constructions of Witt vectors of non-commutative rings  
Name of the Journal Journal of Algebra  
Vol. No. 506  
Page No. 379-396  
Date of Publication 15-Jul-2018  
Name of the Publisher Elsevier  
DOI <https://doi.org/10.1016/j.jalgebra.2018.03.021>
- Author(s) **Das, Milan Kumar; Goswami, Anindya** and Rana, Nimit  
Title Risk sensitive portfolio optimization in a jump diffusion model with regimes  
Name of the Journal SIAM Journal on Control and Optimization  
Vol. No. 56  
Issue No. 2  
Page No. 1550-1576  
Date of Publication 2018  
Name of the Publisher Society for Industrial and Applied Mathematics  
DOI <https://doi.org/10.1137/17M1121809>
- Author(s) **Kaipa, Krishna**  
Title An Improvement of the Asymptotic Elias Bound for Non-Binary Codes  
Name of the Journal IEEE Transactions on Information Theory  
Vol. No. 64  
Issue No. 7  
Page No. 5170 - 5178  
Date of Publication Jul-2018  
Name of the Publisher IEEE  
DOI [10.1109/TIT.2018.2806968](https://doi.org/10.1109/TIT.2018.2806968)

# Physics

- Author(s) Ansari, S.M.; **Suryawanshi, S.R.**; More, M.A.; Sen, D.; Kolekar, Y.D.; Ramana, C.V.
- Title Field emission properties of nano-structured cobalt ferrite (CoFe<sub>2</sub>O<sub>4</sub>) synthesized by low-temperature chemical method
- Name of the Journal Chemical Physics Letters
- Vol. No. 701
- Page No. 151-156
- Date of Publication Jun-2018
- Name of the Publisher Elsevier
- DOI <https://doi.org/10.1016/j.cplett.2018.04.027>
- Author(s) Aslam, Mohammad; **Singh, Chandan K.**; Das, Shekhar; Kumar, Ritesh; Datta, Soumya; Halder, Soumyadip; Gayen, Sirshendu; **Kabir, Mukul**; Sheet, Goutam
- Title Large enhancement of superconductivity in Zr point contacts
- Name of the Journal Journal of Physics-Condensed Matter
- Vol. No. 30
- Issue No. 25
- Date of Publication 27-Jun-2018
- Name of the Publisher IOP Publishing Ltd
- DOI [10.1088/1361-648X/aac154](https://doi.org/10.1088/1361-648X/aac154)
- Author(s) Jagtap, Siddheshwar B; Patil, Vishal D., Suresh, Karthika; Ram, Farsa; Mohan, Muthu Subramanian; **Rajput, Shatruhan S.**; **Patil, Shivprasad**; Shukla, Parshuram G. and Shanmuganathan, Kadhiravan
- Title Functionalized carbon nanotube reinforced polymer nanocomposite microcapsules with enhanced stiffness
- Name of the Journal Colloids and Surfaces A-Physicochemical and Engineering Aspects
- Vol. No. 550
- Page No. 82-89
- Date of Publication 05-Aug-2018
- Name of the Publisher Elsevier
- DOI [10.1016/j.colsurfa.2018.04.028](https://doi.org/10.1016/j.colsurfa.2018.04.028)
- Author(s) **Sekhar, Srikrishna** and **Athreya, Ramana**
- Title Two Procedures to Flag Radio Frequency Interference in the UV Plane
- Name of the Journal Astronomical Journal
- Vol. No. 156
- Issue. No. 1
- Date of Publication 11-Jun-2018
- Name of the Publisher IOP Publishing Ltd.
- DOI [10.3847/1538-3881/aac16e](https://doi.org/10.3847/1538-3881/aac16e)



Author(s) **Sharma, Deepak K.; Kumar, Vijay; Vasista, Adarsh B.; Chaubey, Shailendra K.; Kumar, G. V. Pavan**  
Title Spin-Hall effect in the scattering of structured light from plasmonic nanowire  
Name of the Journal Optics Letters  
Vol. No. 43  
Issue. No. 11  
Page No. 2474-2477  
Date of Publication 01-Jun-2018  
Name of the Publisher The Optical Society  
DOI [10.1364/OL.43.002474](https://doi.org/10.1364/OL.43.002474)

Author(s) **Sharma, Deepak; Chaubey, Shailendra; Vasista, Adarsh; Jose, Jesil; Tripathi, Ravi; Bouhelier, Alexandre and Kumar, G.V. Pavan**  
Title [Directional Second Harmonic Generation Controlled by Sub-wavelength Facets of an Organic Mesowire](#)  
Name of the Journal Applied Optic  
Date of Publication 10-Jul-2018  
Name of the Publisher The Optical Society

Author(s) Sirunyan, A. M.; **Chauhan, S.; Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S. et.al.**  
Title Measurement of b hadron lifetimes in pp collisions at root s=8TeV  
Name of the Journal European Physical Journal C  
Vol. No. 78  
Issue No. 06  
Date of Publication 07-Jun-2018  
Name of the Publisher Springer  
DOI [10.1140/epjc/s10052-018-5929-3](https://doi.org/10.1140/epjc/s10052-018-5929-3)

Author(s) Sirunyan, A. M.; **Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S. et.al.**  
Title Search for the X(5568) State Decaying into B-s(0)pi(+/-) in Proton-Proton Collisions at root s=8 TeV  
Name of the Journal Physical Review Letters  
Vol. No. 120  
Issue. No. 20  
Date of Publication 18-May-2018  
Name of the Publisher American Physical Society  
DOI [10.1103/PhysRevLett.120.202005](https://doi.org/10.1103/PhysRevLett.120.202005)

Author(s) Sirunyan, A. M.; **Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S.** et.al.  
Title Measurement of Prompt D-0 Meson Azimuthal Anisotropy in Pb-Pb Collisions at root S-NN=5.02 TeV  
Name of the Journal Physical Review Letters  
Vol. No. 120  
Issue No. 20  
Date of Publication 16-May-2018  
Name of the Publisher American Physical Society  
DOI [10.1103/PhysRevLett.120.202301](https://doi.org/10.1103/PhysRevLett.120.202301)

Author(s) Sirunyan, A. M.; **Chauhan, S.; Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S.** et.al.  
Title Measurement of Prompt D-0 Meson Azimuthal Anisotropy in Pb-Pb Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at root s=13 TeV  
Name of the Journal Journal of High Energy Physics  
Issue No. 6  
Date of Publication 01-Jun-2018  
Name of the Publisher Springer  
DOI [10.1007/JHEP06\(2018\)002](https://doi.org/10.1007/JHEP06(2018)002)

Author(s) Sirunyan, A. M.; **Chauhan, S.; Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S.** et.al.  
Title Observation of  $(t\bar{t})$  Production  
Name of the Journal Physical Review Letters  
Vol. No. 120  
Issue No. 23  
Date of Publication 04-Jun-2018  
Name of the Publisher American Physical Society  
DOI <https://doi.org/10.1103/PhysRevLett.120.231801>

Author(s) Sirunyan, A. M.; **Chauhan, S.; Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S.** et.al.  
Title Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets root s at=13 TeV  
Name of the Journal Journal of High Energy Physics  
Vol. No. 5  
Date of Publication 24-May-2018  
Name of the Publisher Springer  
DOI [10.1007/JHEP05\(2018\)148](https://doi.org/10.1007/JHEP05(2018)148)

Author(s) Sirunyan, A. M.; **Chauhan, S.; Dube, S; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S.** et.al.  
Title Search for lepton flavour violating decays of the Higgs boson to mu tau and e tau in proton-proton collisions at root s=13 TeV  
Name of the Journal Journal of High Energy Physics  
Issue. No. 6  
Date of Publication 01-Jun-2018  
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DOI [10.1007/JHEP06\(2018\)002](https://doi.org/10.1007/JHEP06(2018)002)

Author(s) Sirunyan, A. M.; **Dube, S; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S.** et.al.  
Title Search for Narrow Resonances in the b-Tagged Dijet Mass Spectrum in Proton-Proton Collisions at root s=8 TeV  
Name of the Journal Physical Review Letters  
Vol. No. 120  
Issue. No. 20  
Date of Publication 14-May-2018  
Name of the Publisher American Physical Society  
DOI [10.1103/PhysRevLett.120.201801](https://doi.org/10.1103/PhysRevLett.120.201801)

Author(s) Sirunyan, A. M.; **Chauhan, S.; Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S.** et.al.  
Title Search for new physics in final states with an energetic jet or a hadronically decaying W or Z boson and transverse momentum imbalance at root s=13 TeV  
Name of the Journal Physical Review D  
Vol. No. 97  
Issue. No. 9  
Date of Publication 21-May-2018  
Name of the Publisher American Physical Society  
DOI [10.1103/PhysRevD.97.092005](https://doi.org/10.1103/PhysRevD.97.092005)

Author(s) Sirunyan, A. M.; **Chauhan, S.; Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey, S.; Rane, A.; Sharma, S.** et.al.  
Title Search for Physics Beyond the Standard Model in Events with High-Momentum Higgs Bosons and Missing Transverse Momentum in Proton-Proton Collisions at 13 TeV  
Name of the Journal Physical Review Letters  
Vol. No. 120  
Issue. No. 24  
Date of Publication 11-Jun-2018  
Name of the Publisher American Physical Society  
DOI [10.1103/PhysRevLett.120.241801](https://doi.org/10.1103/PhysRevLett.120.241801)

Author(s) **Telang, Prachi; Mishra, Kshiti; Sood, A. K. and Singh, Surjeet**  
Title Dilute stuffing in the pyrochlore iridate  $\text{Eu}_2\text{Ir}_2\text{O}_7$   
Name of the Journal Physical Review B  
Vol. No. 97  
Issue No. 23  
Date of Publication 15-Jun-2018  
Name of the Publisher American Physical Society  
DOI <https://doi.org/10.1103/PhysRevB.97.235118>

Author(s) **Thripuranthaka, M.; Sharma, Neha; Das, Tilak; Varhade, Swapnil; Badadhe, Satish S.; Thotiyil, Musthafa Ottakam; Kabir, Mukul and Ogale, Satishchandra**  
Title A Combined Experimental and Computational Study of Gas Sensing by  $\text{Cu}_3\text{SnS}_4$  Nanoparticulate Film: High Selectivity, Stability, and Reversibility for Room Temperature  $\text{H}_2\text{S}$  Sensing  
Name of the Journal Advanced Materials Interfaces  
Vol. No. 5  
Issue. No. 10  
Date of Publication 23-May-2018  
Name of the Publisher Wiley  
DOI [10.1002/admi.201701492](https://doi.org/10.1002/admi.201701492)

Author(s) **Vasista, Adarsh B.; Tripathi, Ravi; 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. 4  
Page No. 923-926  
Date of Publication 15-Feb-2018  
Name of the Publisher Optical Society of America  
DOI <https://doi.org/10.1364/OL.43.000923>

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