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New Publications of
Faculty, Scientists and
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March 2016

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Biology

Author(s) Upadhyia, Manoj A.; Shelkar, Gajanan P.; **Subhedar, Nishikant K.** and Kokare, Dadasaheb M.
Title CART modulates the effects of levodopa in rat model of Parkinson's disease
Name of the Journal Behavioural Brain Research
Volume No. 301
Page No. 262-272
Date of Publication 15-MAR-2016
Name of the Publisher Elsevier Science
DOI [10.1016/j.bbr.2015.12.031](https://doi.org/10.1016/j.bbr.2015.12.031)

Author(s) Stantcheva, Kalina K; Iovino, Loredana; Dhandapani, Rahul; Martinez, Concepcion; Castaldi, Laura; Nocchi, Linda; Perlas, Emerald; Portulano, Carla; Pesaresi, Martina; **Shirlekar, Kalyanee S.**; Reis, Fernanda de Castro; Paparountas, Triantafillos; Bilbao, Daniel and Heppenstall, Paul A
Title A subpopulation of itch-sensing neurons marked by Ret and somatostatin expression
Name of the Journal EMBO reports
Volume No. 17
Page No. 585-600
Date of Publication 2016
Name of the Publisher Wiley
DOI [10.15252/embr.201540983](https://doi.org/10.15252/embr.201540983)

Author(s) Pusalkar, Madhavi; Suri, Deepika; **Kelkar, Ashwin;** Bhattacharya, Amrita; **Galande, Sanjeev;** Vaidya, Vidita A.
Title Early stress evokes dysregulation of histone modifiers in the medial prefrontal cortex across the life span
Name of the Journal Developmental Psychobiology
Volume No. 52
Issue No. 2
Page No. 198-210
Date of Publication MAR-2016
Name of the Publisher Wiley
DOI [10.1002/dev.21365](https://doi.org/10.1002/dev.21365)

Author(s) **Karve, Shraddha Madhav** and Mangalam, Madhur
Title Hasty publication compromises rigour
Name of the Journal Nature
Volume No. 531
Issue No. 7594
Page No. 305-305
Date of Publication 17-MAR-2016
Name of the Publisher Nature Publishing Group
DOI [10.1038/531305d](https://doi.org/10.1038/531305d)

Author(s) **Baig, Ulfat I; Sunny, Ron; Watve, Milind G.** and **Lele, Uttara N**
Title Cumulative cell division time asymmetry in Staphylococcus aureus
Name of the Journal Matters
Date of Publication 15-MAR-2016
Name of the Publisher Sciencematters
URL <https://www.sciencematters.io/articles/201603000022>

Chemistry

Author(s) Pandey, Suchita; **Kumar, Jitender** and Awasthi, A. M.
Title Magneto-thermally activated spin-state transition in La_{0.95}Ca_{0.05}CoO₃: magnetically-tunable dipolar glass and giant magneto-electricity
Name of the Journal Physical Chemistry Chemical Physics
Volume No. 18
Issue No. 9
Page No. 6569-6579
Date of Publication 07-MAR-2016
Name of the Publisher Royal Society of Chemistry
DOI [10.1039/c5cp06932g](https://doi.org/10.1039/c5cp06932g)

Author(s) **Gavvala, Krishna** and **Satpathi, Sagar**
Title Acetylcholine induced interplay of proflavine between cucurbit[7]uril and DNA
Name of the Journal Journal of Luminescence
Volume No. 171
Page No. 234-237
Date of Publication MAR-2016
Name of the Publisher Elsevier Science
DOI [10.1016/j.jlumin.2015.11.034](https://doi.org/10.1016/j.jlumin.2015.11.034)

Author(s) Agarwal, Rashmi A. and **Mukherjee, Soumya**
Title One dimensional coordination polymers of Cd(II) and Zn(II):
Synthesis, structure, polar packing through strong inter-chain
hydrogen bonding and gas adsorption studies
Name of the Journal Polyhedron
Volume No. 106
Page No. 163-170
Date of Publication 26-FEB-2016
Name of the Publisher Pergamon-Elsevier Science Ltd
DOI [10.1016/j.poly.2015.12.061](https://doi.org/10.1016/j.poly.2015.12.061)

Author(s) **Pillai, Pramod P.**; Kowalczyk, Bartlomiej; Pudlo, Wojciech J. and
Grzybowski, Bartosz A.
Title Electrostatic Titrations Reveal Surface Compositions of Mixed,
On-Nanoparticle Monolayers Comprising Positively and Negatively
Charged Ligands
Name of the Journal Journal of Physical Chemistry C
Volume No. 120
Issue No. 7
Page No. 4139-4144
Date of Publication 25-FEB-2016
Name of the Publisher American Chemical Society
DOI [10.1021/acs.jpcc.5b12599](https://doi.org/10.1021/acs.jpcc.5b12599)

Earth and Climate Sciences

Author(s) Samanta, Dhruvajyoti; Dash, M. K; **Goswami, B. N.** and
Pandey, P. C.
Title Extratropical anticyclonic Rossby wave breaking and Indian
summer monsoon failure
Name of the Journal Climate Dynamics
Volume No. 46
Issue No. 5-6
Page No. 1547-1562
Date of Publication MAR-2016
Name of the Publisher Springer
DOI [10.1007/s00382-015-2661-7](https://doi.org/10.1007/s00382-015-2661-7)

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Physics

Author(s) Ravi P.N.; Tripathi, Arindam; Dasgupta, Rohit; Cikkeraddy, Partha. P.; Patra, Adarsh B.V.; **G. V. Pavan Kumar**
Title [Optics of an individual organic molecular mesowire waveguide](#) : Directional light emission and anomalous refractive index
Name of the Journal Journal of Optics
Date of Publication 2016
Name of the Publisher IOP Science

Author(s) Tripathi, Ravi P. N.; Chikkeraddy, Rohit; Dasgupta, Arindam and **G. V. Pavan Kumar**
Title Directional exciton-polariton photoluminescence emission from terminals of a microsphere-coupled organic waveguide
Name of the Journal Applied Physics Letters
Volume No. 108
Issue No. 3
Date of Publication MAR-2016
Name of the Publisher AIP Publishing
DOI [10.1063/1.4939980](#)

Author(s) **Ananth, Sudarshan**; Brink, Lars and **Majumdar, Sucheta**
Title Exceptional versus superPoincare algebra as the defining symmetry of maximal supergravity
Name of the Journal Journal of High Energy Physics
Volume No. 51
Date of Publication 2016
Name of the Publisher Springer
DOI [10.1007/JHEP03\(2016\)051](#)

Author(s) Dash, S.; **Joshi, N.**; Drera, G.; **Ghosh, P** et. al
Title Cation diffusion and hybridization effects at the Mn-GaSe(0001) reacted interface: Ab initio calculations and soft x-ray electron spectroscopy studies
Name of the Journal Physical Review B
Volume No. 93
Issue No. 11
Date of Publication 09-MAR-2016
Name of the Publisher American Physical Society
DOI [10.1103/PhysRevB.93.115304](#)

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Author(s) Khachatryan, V.; **Sharma, S.** et al.
Title Search for pair production of first and second generation leptoquarks in proton-proton collisions at $\sqrt{s}=8$ TeV
Name of the Journal Physical Review D
Volume No. 93
Issue No. 03
Date of Publication 24-FEB-2016
Name of the Publisher American Physical Society
DOI [10.1103/PhysRevD.93.032004](https://doi.org/10.1103/PhysRevD.93.032004)

Author(s) Khachatryan, V.; **Sharma, S.** et al.
Title Search for single production of scalar leptoquarks in proton-proton collisions at $\sqrt{s}=8$ TeV
Name of the Journal Physical Review D
Volume No. 93
Issue No. 03
Date of Publication 24-FEB-2016
Name of the Publisher American Physical Society
DOI [10.1103/PhysRevD.93.032005](https://doi.org/10.1103/PhysRevD.93.032005)

Author(s) Khachatryan, V.; **Sharma, S.** et al.
Title Search for single production of scalar leptoquarks in proton-proton collisions at $\sqrt{s}=8$ TeV
Name of the Journal Physical Review D
Volume No. 93
Issue No. 03
Date of Publication 24-FEB-2016
Name of the Publisher American Physical Society
DOI [10.1103/PhysRevD.93.032005](https://doi.org/10.1103/PhysRevD.93.032005)

Author(s) Khachatryan, V.; **Chauhan, S.; Dube, S.; Kapoor, A.; Kothekar, K.; Sharma, S.** et al.
Title Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at $\sqrt{s}=13$ TeV
Name of the Journal Physical Review Letters
Volume No. 116
Issue No. 07
Date of Publication 18-FEB-2016
Name of the Publisher American Physical Society
DOI [10.1103/PhysRevLett.116.071801](https://doi.org/10.1103/PhysRevLett.116.071801)

Author(s)	Khachatryan, V.; Chauhan, S.; Dube, S.; Sharma, S. et al.
Title	Measurement of the charge asymmetry in top quark pair production in pp collisions at root s=8 TeV using a template method
Name of the Journal	Physical Review D
Volume No.	93
Issue No.	03
Date of Publication	18-FEB-2016
Name of the Publisher	American Physical Society
DOI	10.1103/PhysRevD.93.034014

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