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Biology

- Author(s) Mangalam, Madhur; **Desai, Nisarg** and Singh, Mewa
Title Self-organization of laterally asymmetrical movements as a consequence of space-time optimization
Name of the Journal Journal of Theoretical Biology
Volume No. 390
Page No. 50-60
Date of Publication 07-FEB-2016
Name of the Publisher Academic Press Ltd
DOI [10.1016/j.jtbi.2015.10.038](https://doi.org/10.1016/j.jtbi.2015.10.038)
- Author(s) Raghavan, Rajeev; Siby Philip; Ali, Anvar; Katwate, Unmesh and **Dahanukar, Neelesh**
Title Fishery, biology, aquaculture and conservation of the threatened Asian Sun catfish
Name of the Journal Reviews in Fish Biology and Fisheries
Date of Publication 02-FEB-2016
Name of the Publisher Springer International Publishing
DOI [10.1007/s11160-016-9418-1](https://doi.org/10.1007/s11160-016-9418-1)
- Author(s) Bae, Chanhyung; Anselmi, Claudio; **Kalia, Jeet**; Jara-Oseguera, Andres; Schwieters, Charles D.; Krepkiy, Dmitriy; Lee, Chul Won; Kim, Eun-Hee; Kim, Jae Il; Faraldo-Gomez, Jose D.; Swartz, Kenton J.
Title Structural insights into the mechanism of activation of the TRPV1 channel by a membrane-bound tarantula toxin
Name of the Journal Elife
Volume No. 5
Date of Publication 10-FEB-2016
Name of the Publisher Elife Sciences Publications Ltd
DOI [10.7554/elife.11273.001](https://doi.org/10.7554/elife.11273.001)

Chemistry

Author(s) **Jha, Plawan Kumar;** Singh, Santosh K.; Gatla, Suresh; Mathon, Olivier; Kurungot, Sreekumar and **Ballav, Nirmalya**
Title Pb²⁺-N Bonding Chemistry: Recycling of Polyaniline-Pb Nanocrystals Waste for Generating High-Performance Supercapacitor Electrodes
Name of the Journal Journal of Physical Chemistry C
Volume No. 120
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Page No. 911-918
Date of Publication 21-JAN-2016
Name of the Publisher American Chemical Society
DOI [10.1021/acs.jpcc.5b11217](https://doi.org/10.1021/acs.jpcc.5b11217)

Author(s) **Kumar, Nandha** and **Ghosh, Prasenjit**
Title Structure and stability of clean and adsorbate covered intermetallic PdGa surfaces: A first principles study
Name of the Journal Surface Science
Volume No. 644
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Date of Publication FEB-2016
Name of the Publisher Elsevier
DOI [10.1016/j.susc.2015.09.005](https://doi.org/10.1016/j.susc.2015.09.005)

Author(s) **Nuthanakanti, Ashok** and **Srivatsan, Seergazhi G**
Title Hierarchical self-assembly of switchable nucleolipid supramolecular gels based on environmentally-sensitive fluorescent nucleoside analogs
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Name of the Publisher Royal Society Chemistry
DOI [10.1039/c5nr07490h](https://doi.org/10.1039/c5nr07490h)

Mathematics

Author(s) **Banerjee, Debargha** and Krishnamoorthy, Srilakshmi
Title The eisenstein elements of modular symbols for level product of two distinct odd primes
Name of the Journal Pacific Journal of Mathematics
Volume No. 281
Issue No. 2
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Date of Publication APR-2016
Name of the Publisher Pacific Journal of Mathematics
DOI [10.2140/pjm.2016.281-2](https://doi.org/10.2140/pjm.2016.281-2)

Physics

Author(s) Nafday,Dhani; **Kabir, Mukul** and Saha-Dasgupta, Tanusri
Title Controlling adatom magnetism on bilayer graphene by external field
Name of the Journal Physical Review B
Volume No. 93
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Date of Publication 29-JAN-2016
Name of the Publisher American Physical Society
DOI [10.1103/PhysRevB.93.045433](https://doi.org/10.1103/PhysRevB.93.045433)

Author(s) **Kabir, Mukul** and Vliet, Krystyn. J. Van
Title Kinetics of Topological Stone-Wales Defect Formation in Single Walled Carbon Nanotube
Name of the Journal The Journal of Physical Chemistry C
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Name of the Publisher American Chemical Society
DOI [10.1021/acs.jpcc.5b11682](https://doi.org/10.1021/acs.jpcc.5b11682)

Author(s) Swallow, Jessica G.; Kim, Jae Jin; **Kabir, Mukul**; Smith, James F.; Tuller, Harry L.; Bishop, Sean R. and Vliet, Krystyn J. Van
Title Operando reduction of elastic modulus in (Pr, Ce)O₂-d thin films
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DOI [10.1016/j.actamat.2015.12.007](https://doi.org/10.1016/j.actamat.2015.12.007)

Author(s) Bagchi, Arjun; **Chakraborty, Shankhadeep** and **Parekh, Pulastya**
Title Tensionless strings from worldsheet symmetries
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Author(s) **Sarkar, Supratik** and **Bhattacharyay, Arijit**
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Author(s) Anothumakkool, Bihag; Agrawal, Ishita; Bhanghe, Siddheshwar N.; Soni, Roby; Game, Onkar; **Ogale, Satishchandra B.** and Kurungot, Sreekumar
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DOI [10.1021/acsami.5b09579](https://doi.org/10.1021/acsami.5b09579)

Author(s) Naphade, Rounak; Nagane, Satyawan; **Shanker, G. Shiva;**
Fernandes, Rohan; Kothari, Dushyant; Zhou, Yuanyuan;
Padture, Nitin P.; **Ogale, Satishchandra**
Title Hybrid Perovskite Quantum Nanostructures Synthesized by
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DOI [10.1021/acsami.5b10208](https://doi.org/10.1021/acsami.5b10208)

Author(s) Gawli, Yogesh; Banerjee, Abhik; Dhakras, Dipti; Deo, Meenal;
Bulani, Dinesh; Wadgaonkar, Prakash; Shelke, Manjusha and
Ogale, Satishchandra
Title 3D Polyaniline Architecture by Concurrent Inorganic and Organic
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Author(s) **Anjusha, V. S.; Hegde, Swathi S. and Mahesh, T. S.**
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Author(s) Khachatryan, V.; **Chauhan, S.; Dube, S.; Sharma, S.** et al.
Title Study of B Meson Production in p plus Pb Collisions at root
s(NN)=5.02 TeV Using Exclusive Hadronic Decays
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DOI [10.1103/PhysRevLett.116.032301](https://doi.org/10.1103/PhysRevLett.116.032301)

Author(s) Khachatryan, V.; **Chauhan, S.**; **Dube, S.**; **Sharma, S.** et al.
Title Search for vectorlike charge $2/3$ T quarks in proton-proton collisions at $\sqrt{s}=8$ TeV
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Date of Publication 19-JAN-2016
Name of the Publisher American Physical Society
DOI [10.1103/PhysRevD.93.012003](https://doi.org/10.1103/PhysRevD.93.012003)

Author(s) Khachatryan, V.; **Chauhan, S.**; **Dube, S.**; **Sharma, S.** et al.
Title Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into tau leptons in pp collisions at $\sqrt{s}=8$ TeV
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DOI [10.1007/JHEP01\(2016\)079](https://doi.org/10.1007/JHEP01(2016)079)

Author(s) Khachatryan, V.; **Sharma, S.** et al.
Title Search for a Higgs boson decaying into $\gamma^*\gamma \rightarrow \ell\ell$ with low dilepton mass in pp collisions at $\sqrt{s}=8$ TeV
Name of the Journal Physics Letters B
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DOI [10.1016/j.physletb.2015.12.039](https://doi.org/10.1016/j.physletb.2015.12.039)

Author(s) Khachatryan, V.; **Chauhan, S.**; **Dube, S.**; **Sharma, S.** et al.
Title Search for exotic decays of a Higgs boson into undetectable particles and one or more photons
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DOI [10.1016/j.physletb.2015.12.017](https://doi.org/10.1016/j.physletb.2015.12.017)

Author(s) Khachatryan, V.; **Chauhan, S.**; **Dube, S.**; **Sharma, S.** et al.
Title Angular analysis of the decay $B^0 \rightarrow K^{*0} \mu^+ \mu^-$ from pp collisions at $\sqrt{s}=8$ TeV
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DOI [10.1016/j.physletb.2015.12.020](https://doi.org/10.1016/j.physletb.2015.12.020)

Author(s) Khachatryan, V.; **Chauhan, S.**; **Dube, S.**; **Kapoor, A.**; **Kothekar, K.**; **Sharma, S.** et al.
Title Measurement of the Top Quark Pair Production Cross Section in Proton-Proton Collisions at $\sqrt{s}=13$ TeV
Name of the Journal Physical Review Letters
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Date of Publication 05-FEB-2016
Name of the Publisher American Physical Society
DOI [10.1103/PhysRevLett.116.052002](https://doi.org/10.1103/PhysRevLett.116.052002)

Author(s) **Kumar, Nandha** and **Ghosh, Prasenjit**
Title Structure and stability of clean and adsorbate covered intermetallic PdGa surfaces: A first principles study
Name of the Journal Surface Science
Volume No. 644
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DOI [10.1016/j.susc.2015.09.005](https://doi.org/10.1016/j.susc.2015.09.005)
