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## PATENT

**Author(s)** BRITTO, SANDANARAJ SELVARAJ; REDDY, MULLAPUDI MOHAN; BHANDARI, PAVANKUMAR JANARDHAN; RAO, KASULADEVU JAGANNADHA

**Title** Hydrophobin Mimics: Process for preparation thereof

**Patent No** US 10,188,136 B2

**Patent Office** US Patent and Trademark Office

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2123>

**Date of Publication** 29-01-2019

## BIOLOGY

**Author(s)** Anju, ChakkalatharaVenu; DAHANUKAR, NEELESH; Sidharthan, Arya; Ranjeet, Kutty; Raghavan, Rajeev

**Title** Demographics of Lagocephalusinermis in the Arabian Sea unveils complex conservation challenges

**Citation** Journal of Fish Biology, 94(1), 187-190.

**Publisher** John Wiley & Sons

**URI** <https://doi.org/10.1111/jfb.13873>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1911>

**Date of Publication** JAN-2019

**Author(s)** JAIN, KUNALIKA; KHETAN, NEHA; ATHALE, CHAITANYA A.

**Title** Collective effects of yeast cytoplasmic dynein based microtubule transport

**Citation** Soft Matter, 15(7), 1571-1581.

**Publisher** Royal Society of Chemistry

**URI** <https://doi.org/10.1039/c8sm01434e>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2122>

**Date of Publication** 08-01-2019

**Author(s)** Krishnan, Lalitha; BARUA, DEEPAK; Sankaran, Mahesh  
**Title** Dry-forest tree species with large seeds and low stem specific density show greater survival under drought  
**Citation** Journal of Tropical Ecology, 35(1), 26-33.  
**Publisher** Cambridge University Press  
**URI** <https://doi.org/10.1017/S0266467418000421>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2120>  
**Date of Publication** 26-01-2019

**Author(s)** MULEY, VIJAYKUMAR YOGESH; Akhter, Yusuf; GALANDE, SANJEEV  
**Title** PDZ Domains across the microbial world: Molecular Link to the Proteases, Stress Response and Protein Synthesis  
**Citation** Genome Biology and Evolution  
**Publisher** Oxford Academy  
**URI** <https://doi.org/10.1093/gbe/evz023>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2126>  
**Date of Publication** 29-01-2019

**Author(s)** Nandwani, Neha; Surana, Parag; Negi, Hitendra; Mascarenhas, Nahren M.; UDGAONKAR, JAYANT B.; Das, Ranabir; Gosavi, Shachi  
**Title** A five-residue motif for the design of domain swapping in proteins  
**Citation** Nature Communications, 10.  
**Publisher** Nature Publishing Group  
**URI** <https://doi.org/10.1038/s41467-019-08295-x>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1892>  
**Date of Publication** 28-01-2019

**Author(s)** Nguyen, Minh N.; SEN, NEELADRI; MADHUSUDHAN, M. S. et al.  
**Title** Discovering Putative Protein Targets of Small Molecules: A Study of the p53 Activator Nutlin  
**Citation** The Journal of Chemical Information and Modeling  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acs.jcim.8b00762>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2124>  
**Date of Publication** 22-02-2019

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# CHEMISTRY

**Author(s)** BHAT, IMTIYAZ AHMAD; ROY, BIBHISAN; HAZRA, PARTHA; Kabir-ud-Din  
**Title** Conformational and solution dynamics of hemoglobin (Hb) in presence of a cleavable gemini surfactant: Insights from spectroscopy, atomic force microscopy, molecular docking and density functional theory  
**Citation** Journal of Colloid and Interface Science, 538, 489-498.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.jcis.2018.12.008>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2121>  
**Date of Publication** 07-03-2019

**Author(s)** MANAE, MEGHNA A.; HAZRA, ANIRBAN  
**Title** Graphical Representation of Hydrogenic Orbitals: Incorporating Both Radial and Angular Parts of the Wave Function  
**Citation** Journal of Chemical Education, 96(1), 187-190.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acs.jchemed.8b00372>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1889>  
**Date of Publication** JAN-2019

**Author(s)** MISRA, RAJKUMAR; SASEENDRAN, ABHIJITH; DEY, SANJIT; GOPI, HOSAHUDYA N.  
**Title** Metal-Helix Frameworks from Short Hybrid Peptide Foldamers  
**Citation** Angewandte Chemie, 58(8), 2251-2255.  
**Publisher** Wiley-VCH  
**URI** <https://doi.org/10.1002/anie.201810849>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2119>  
**Date of Publication** 18-02-2019

**Author(s)** MOLLICK, SAMRAJ; MANDAL, TARAK NATH; Jana, Atanu; FAJAL, SAHEL; DESAI, AAMOD V.; GHOSH, SUJIT K.  
**Title** Ultrastable Luminescent Hybrid Bromide Perovskite@MOFNanocomposites for the Degradation of Organic Pollutants in Water  
**Citation** ACS Applied Nano Materials  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acsanm.8b02214>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1914>  
**Date of Publication** 01-02-2019

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**Author(s)** MOLLICK, SAMRAJ; MUKHERJEE, SOUMYA; Kim, Dongwook; ZhiweiQiao; DESAI, AAMOD V.; Saha, Rajat; MORE, YOGESHWAR D.; Jiang, Jianwen; Lah, MyoungSoo; GHOSH, SUJIT K.

**Title** Hydrophobic Shielding of Outer Surface: Enhancing the Chemical Stability of Metal-Organic Polyhedra

**Citation** AngewandteChemie, 58(4), 1041-1045.

**Publisher** Wiley-VCH

**URI** <https://doi.org/10.1002/anie.201811037>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1883>

**Date of Publication** 21-01-2019

**Author(s)** Saha, Avijit; SOHONI, SIDDHARTHA; Viswanatha, Ranjani

**Title** Interface Modeling Leading to Giant Exchange Bias from the CoO/CoFe<sub>2</sub>O<sub>4</sub> Quantum Dot Heterostructure

**Citation** Journal of Physical Chemistry C, 123(4), 2421-2427.

**Publisher** American Chemical Society

**URI** <https://10.1021/acs.jpcc.8b11124>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1917>

**Date of Publication** 02-01-2019

**Author(s)** SHARMA, NEHA; Phase,Deodatta; THOTIYL, MUSTHAFA OTTAKAM; OGALE, SATISHCHANDRA

**Title** Single-Phase Cu<sub>3</sub>SnS<sub>4</sub> Nanoparticles for Robust High Capacity Lithium-Ion Battery Anodes

**Citation** ChemElectroChem

**Publisher** Wiley-VCH

**URI** <https://doi.org/10.1002/celc.201801772>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1884>

**Date of Publication** 27-12-2018

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## MATHEMATICS

**Author(s)** CHORWADWALA, ANISA M. H.; Roy, Souvik  
**Title** How to Place an Obstacle Having a Dihedral Symmetry Inside a Disk so as to Optimize the Fundamental Dirichlet Eigenvalue  
**Citation** Journal of Optimization Theory and Applications  
**Publisher** Springer Nature  
**URI** <https://doi.org/10.1007/s10957-019-01483-1>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1912>  
**Date of Publication** 14-02-2019

**Author(s)** KAUR, DILPREET; Kulshrestha, Amit  
**Title** Quadratic forms in characteristic 2 and a Wedderburn decomposition over rationals  
**Citation** Journal of Algebra and Its Applications, 18(1).  
**Publisher** World Scientific Publishing Co Pte Ltd  
**URI** <https://doi.org/10.1142/S0219498819500105>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1918>  
**Date of Publication** 2019

## PHYSICS

**Author(s)** BAG, RABINDRANATH; Hazra, Soumitra; Kini, Rajeev N.; SINGH, SURJEET  
**Title** Excess specific heat from the gapped sliding phonon modes in the incommensurate composite crystal Sr<sub>14</sub>Cu<sub>24</sub>O<sub>41</sub>  
**Citation** Physical Review B, 99(5).  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevB.99.054305>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1905>  
**Date of Publication** 13-02-2019

**Author(s)** Banerjee, Nabamita; BHATTACHARJEE, ARINDAM; Lodato, Ivano; NEOGI, TURMOLI  
**Title** Maximally  $N$ -extended super-BMS3 algebras and generalized 3D gravity solutions  
**Citation** Journal of High Energy Physics  
**Publisher** Springer Nature  
**URI** [https://doi.org/10.1007/JHEP01\(2019\)115](https://doi.org/10.1007/JHEP01(2019)115)  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1886>  
**Date of Publication** 14-01-2019

**Author(s)** BHALERAO, RAJEEV S.; Giacalone, Giuliano; Ollitrault, Jean-Yves  
**Title** Kurtosis of elliptic flow fluctuations  
**Citation** Physical Review C, 99(1).  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevC.99.014907>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1891>  
**Date of Publication** 30-01-2019

**Author(s)** BISWAS, ABHIJIT; Talha, Muhammad; Kashir, Alireza; Jeong, Yoon Hee  
**Title** A thin film perspective on quantum functional oxides  
**Citation** Current Applied Physics, 19(3), 207-214.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.cap.2018.07.013>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1919>  
**Date of Publication** 19-03-2019

**Author(s)** CMS Collaboration; d'Enterria, David; SARKAR, T.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; SHARMA, S. et al.  
**Title** Evidence for light-by-light scattering in ultraperipheralPbPb collisions at root  $S_{NN}=5.02$  TeV  
**Citation** Nuclear Physics A, 982, 791-794.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.nuclphysa.2018.10.018>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2118>  
**Date of Publication** FEB-2019

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**Author(s)** CMS Collaboration; Diab, Batoul; SARKAR, T.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; SHARMA, S. et al.  
**Title** Fragmentation of J/psi in jets in pp collisions at root s=5.02 TeV Batoul Diab  
**Citation** Nuclear Physics A, 982, 186-188.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.nuclphysa.2018.09.049>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2115>  
**Date of Publication** FEB-2019

**Author(s)** CMS Collaboration; Diab, Batoul; SARKAR, T.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; SHARMA, S. et al.  
**Title** Beyond nPDFs effects : Prompt J/psi and psi(2S) production in pPb and pp collisions  
**Citation** Nuclear Physics A, 982, 743-746.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.nuclphysa.2018.10.028>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2113>  
**Date of Publication** FEB-2019

**Author(s)** CMS Collaboration; Shi, Zhaozhong; SARKAR, T.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; SHARMA, S. et al.  
**Title** D-0-Meson R-AA in PbPb Collisions at root s(NN)=5.02 TeV and Elliptic Flow in pPb Collisions at root s(NN)=8.16 TeV with CMS  
**Citation** Nuclear Physics A, 982, 647-650.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.nuclphysa.2018.08.029>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2114>  
**Date of Publication** FEB-2019

**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 heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV  
**Citation** Journal of High Energy Physics  
**Publisher** Springer Nature  
**URI** [https://doi.org/10.1007/JHEP01\(2019\)051](https://doi.org/10.1007/JHEP01(2019)051)  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1885>  
**Date of Publication** 07-01-2019

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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 production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV

**Citation** Journal of High Energy Physics

**Publisher** Springer Nature

**URI** [https://doi.org/10.1007/JHEP01\(2019\)040](https://doi.org/10.1007/JHEP01(2019)040)

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**Date of Publication** 04-01-2019

**Author(s)** CMS Collaboration; Sirunyan, A. M.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S. et al.

**Title** Search for pair-produced three-jet resonances in proton-proton collisions at  $\sqrt{s} = 13$  TeV

**Citation** Physical Review D, 99(1).

**Publisher** American Physical Society

**URI** <https://doi.org/10.1103/PhysRevD.99.012010>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1898>

**Date of Publication** 22-01-2019

**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 supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV

**Citation** Journal of High Energy Physics.

**Publisher** Springer Nature

**URI** [https://doi.org/10.1007/JHEP01\(2019\)154](https://doi.org/10.1007/JHEP01(2019)154)

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1899>

**Date of Publication** 18-01-2019

**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 heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at  $\sqrt{s} = 13$  TeV

**Citation** Journal of High Energy Physics.

**Publisher** Springer Nature

**URI** [https://doi.org/10.1007/JHEP01\(2019\)122](https://doi.org/10.1007/JHEP01(2019)122)

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1900>

**Date of Publication** 15-01-2019

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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** Measurement of inclusive and differential Higgs boson production cross sections in the diphoton decay channel in proton-proton collisions at  $\sqrt{s}=13$  TeV

**Citation** Journal of High Energy Physics.

**Publisher** Springer Nature

**URI** [https://doi.org/10.1007/JHEP01\(2019\)183](https://doi.org/10.1007/JHEP01(2019)183)

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1903>

**Date of Publication** 24-01-2019

**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 differential cross sections for Z boson pair production in association with jets at root s=8 and 13 TeV

**Citation** Physics Letters B, 789, 19-44.

**Publisher** Elsevier B.V.

**URI** <https://doi.org/10.1016/j.physletb.2018.11.007>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1906>

**Date of Publication** 10-02-2019

**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** Non-Gaussian elliptic-flow fluctuations in PbPb collisions at root S-NN=5.02 TeV

**Citation** Physics Letters B, 789, 643-665.

**Publisher** Elsevier B.V.

**URI** <https://doi.org/10.1016/j.physletb.2018.11.063>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1907>

**Date of Publication** 10-02-2019

**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 single production of vector-like quarks decaying to a top quark and a WW boson in proton-proton collisions at  $\sqrt{s}=13$ TeV

**Citation** The European Physical Journal C

**Publisher** Springer Nature

**URI** <https://doi.org/10.1140/epjc/s10052-019-6556-3>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1908>

**Date of Publication** 30-01-2019

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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 rare decays of ZZ and Higgs bosons to  $J/\psi J/\psi$  and a photon in proton-proton collisions at  $\sqrt{s} = 13\text{TeV}$

**Citation** The European Physical Journal C

**Publisher** Springer Nature

**URI** <https://doi.org/10.1140/epjc/s10052-019-6562-5>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1909>

**Date of Publication** 30-01-2019

**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** Study of the underlying event in top quark pair production in  $p\bar{p}$  collisions at  $\sqrt{s} = 13\text{TeV}$

**Citation** The European Physical Journal C

**Publisher** Springer Nature

**URI** <https://doi.org/10.1140/epjc/s10052-019-6620-z>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2111>

**Date of Publication** 07-02-2019

**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 anisotropic flow in XeXe collisions at 5.44 TeV with the CMS experiment

**Citation** Nuclear Physics A, 982, 395-398.

**Publisher** Elsevier B.V.

**URI** <https://doi.org/10.1016/j.nuclphysa.2018.09.085>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2117>

**Date of Publication** FEB-2019

**Author(s)** CMS Collaboration; Tu, Zhoudunming; SARKAR, T.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; SHARMA, S. et al.

**Title** Search for the chiral magnetic effect at the LHC with the CMS experiment

**Citation** Nuclear Physics A, 982, 527-530.

**Publisher** Elsevier B.V.

**URI** <https://doi.org/10.1016/j.nuclphysa.2018.08.032>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2116>

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**Author(s)** CMS Collaboration; Wang, Quan|SARKAR, T.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; SHARMA, S. et al.  
**Title** Multiparticle correlations and higher order harmonics in pPb collisions at root s(NN)=8.16 TeV  
**Citation** Nuclear Physics A, 982, 375-378.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.nuclphysa.2018.09.064>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2112>  
**Date of Publication** FEB-2019

**Author(s)** GHOSH, ARUP; Rawat, Rajeev; Bhattacharyya, Arpan; Mandal, Guruprasad; Nigam, A.K.; NAIR, SUNIL et al.  
**Title** Measurement independent magnetocaloric effect in Mn-rich Mn-Fe-Ni-Sn (Sb/In) Heusler alloys  
**Citation** Journal of Magnetism and Magnetic Materials, 476, 92-99.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.jmmm.2018.12.010>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1901>  
**Date of Publication** 15-04-2019

**Author(s)** KHURANA, DEEPAK; AGARWALLA, BIJAY KUMAR; MAHESH, T. S.  
**Title** Experimental emulation of quantum non-Markovian dynamics and coherence protection in the presence of information backflow  
**Citation** Physical Review A, 99(2).  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevA.99.022107>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1916>  
**Date of Publication** 07-02-2019

**Author(s)** KUMAR, ROHIT; SINGH, SURJEET; NAIR, SUNIL  
**Title** Scaling of magnetotransport in the Ba(Fe<sub>1-x</sub>Co<sub>x</sub>)<sub>2</sub>As<sub>2</sub> series  
**Citation** Journal of Physics-Condensed Matter, 31(11).  
**Publisher** IOP Publishing Ltd  
**URI** <https://doi.org/10.1088/1361-648X/aafcff>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1890>  
**Date of Publication** 25-01-2019

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**Author(s)** MANDAL, RAJESH; BABAR, ROHIT; Tripathi, Malvika; DATTA, SHOUVIK; Rawat, Rajeev Choudhary, R.J.; KABIR, MUKUL; OGALE, SATISHCHANDRA  
**Title** Modulation of ferromagnetism and transport in BxCyNz thin films via nitrogen doping and defects  
**Citation** Journal of Magnetism and Magnetic Materials, 479, 67-73.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.jmmm.2019.02.014>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/1893>  
**Date of Publication** 01-06-2019

**Author(s)** Raja, K. Sasikumar; SUBRAMANIAN, PRASAD; INGALE, MADHUSUDAN; Ramesh, R.  
**Title** Dissipation Scale Lengths of Solar Wind Turbulence  
**Citation** The Astrophysical Journal, 872(1).  
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**URI** <https://doi.org/10.3847/1538-4357/aafd33>  
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**Author(s)** SHARMA, DEEPAK K.; KUMAR, VIJAY; VASISTA, ADARSH B.; PAUL, DIPTABRATA; CHAUBEY, SHAILENDRA K.; KUMAR, G. V. PAVAN  
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**Author(s)** SHARMA, NEHA; Deodatta Phase, Deodatta; THOTIYL, MUSTHAFA OTTAKAM; OGALE, SATISHCHANDRA  
**Title** Single-Phase Cu<sub>3</sub>SnS<sub>4</sub> Nanoparticles for Robust High Capacity Lithium-Ion Battery Anodes  
**Citation** ChemElectroChem  
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**URI** <https://doi.org/10.1002/celec.201801772>  
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**Author(s)** SREEJITH, G.J.; Powell, Stephen; Nahum, Adam  
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**Author(s)** VASISTA, ADARSH B.; TIWARI, SUNNY; KUMAR, G. V. PAVAN  
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**Citation** Journal of Optics, 21(3).  
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**URI** <https://doi.org/10.1088/2040-8986/ab026b>  
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