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## Biology

Author(s) **Pucadyil, Thomas J. and Holkar, Sachin S.**  
Title Comparative analysis of adaptor-mediated clathrin assembly reveals general principles for adaptor clustering.  
Name of the Journal Molecular Biology of the Cell  
Date of Publication 24-Aug-2016  
Name of the Publisher The American Society for Cell Biology  
DOI [10.1091/mbc.E16-06-0399](https://doi.org/10.1091/mbc.E16-06-0399)

Author(s) Santin, Franco; **Bhogale, Sneha**; Fantino, Elisa ; Grandellis, Carolina; **Banerjee, Anjan K.** and Ulloa, Rita M.  
Title Solanum tuberosum StCDPK1 is regulated by miR390 at the post transcriptional level and phosphorylates the auxin efflux carrier StPIN4 in vitro, a potential downstream target in potato development.  
Name of the Journal Physiologia Plantarum  
Date of Publication 7-Oct-2016  
Name of the Publisher Wiley  
DOI [10.1111/ppl.12517](https://doi.org/10.1111/ppl.12517)

## Chemistry

Author(s) **Singh, Santosh K.; Das, Alope** and Breton, Gary W.  
Title An ab Initio Study of the Effect of Substituents on the  $n \rightarrow \pi^*$  Interactions between 7-Azaindole and 2,6-Difluorosubstituted Pyridines  
Name of the Journal The Journal of Physical Chemistry A  
Volume No. 120  
Issue No. 31  
Page No. 6258-6269  
Date of Publication 18-Jul-2016  
Name of the Publisher American Chemical Society  
DOI [10.1021/acs.jpca.6b03119](https://doi.org/10.1021/acs.jpca.6b03119)

Author(s) **Singh, Santosh K.**; Vaishnav, Jamuna K. and **Das, Alope.**  
Title Experimental observation of structures with subtle balance between strong hydrogen bond and weak  $n \rightarrow \pi^*$  interaction: Gas phase laser spectroscopy of 7-azaindole- $\alpha$ -fluorosubstituted pyridines  
Name of the Journal The Journal of Chemical Physics  
Volume No. 45  
Issue No. 10  
Date of Publication 2016  
Name of the Publisher AIP Publishing  
DOI <http://dx.doi.org/10.1063/1.4962358>

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Author(s) **Ghosh, Chandramouli;** Gupta, Neha; **More, Piyush;** Sengupta, Poulomi; **Mallick, Abhik;** Santra, Manas Kumar and **Basu, Sudipta.**  
Title Engineering and In Vitro Evaluation of Acid Labile Cholesterol Tethered MG132 Nanoparticle for Targeting Ubiquitin-Proteasome System in Cancer  
Name of the Journal ChemistrySelect  
Volume No. 1  
Issue No. 16  
Page No. 5099-5106  
Date of Publication 1-Oct-2016  
Name of the Publisher John Wiley & Sons, Inc.  
DOI [10.1002/slct.201601117](https://doi.org/10.1002/slct.201601117)

Author(s) **Mukherjee, Soumya;** Lu, Jingjing; Velmurugan, Gunasekaran; **Singh, Shweta;** Rajaraman, Gopalan; Tang, Jinkui and **Ghosh, Sujit K.**  
Title Influence of Tuned Linker Functionality on Modulation of Magnetic Properties and Relaxation Dynamics in a Family of Six Isotypic Ln<sub>2</sub> (Ln = Dy and Gd) Complexes  
Name of the Journal Inorganic Chemistry  
Date of Publication 11-Oct-2016  
Name of the Publisher American Chemical Society  
DOI [10.1021/acs.inorgchem.6b01863](https://doi.org/10.1021/acs.inorgchem.6b01863)

Author(s) Ghara, Manas; Pan, Sudip; **Kumar, Anand;** Merino, Gabriel and Chattaraj, Pratim K.  
Title Structure, stability, and nature of bonding in carbon monoxide bound EX<sub>3</sub><sup>+</sup> complexes (E=group 14 element; X=H, F, Cl, Br, I)  
Name of the Journal Journal of Computational Chemistry  
Volume No. 37  
Issue No. 24  
Page No. 2202-2211  
Date of Publication 15-Sept-2016  
Name of the Publisher Wiley  
DOI [10.1002/jcc.24446](https://doi.org/10.1002/jcc.24446)

Author(s) **Samanta, Partha;** **Chandra, P.** and **Ghosh, Sujit K.**  
Title Hydroxy-functionalized hyper-cross-linked ultra-microporous Organic polymers for selective CO<sub>2</sub> capture at room temperature  
Name of the Journal Beilstein Journal of Organic Chemistry  
Volume No. 12  
Page No. 1981-1986  
Date of Publication 2-Sept-2016  
Name of the Publisher Beilstein Institute  
DOI [10.3762/bjoc.12.185](https://doi.org/10.3762/bjoc.12.185)

# Physics

Author(s) Agarkar, Shruti; Yadav, P.; Fernandes, R.; Kothari, D.; Suryawanshi, A and **Ogale, S.**  
Title Minute-made activated porous carbon from agro-waste for Li-ion battery anode using a low power microwave oven  
Name of the Journal Electrochimica Acta  
Volume No. 212  
Page No. 535-544  
Date of Publication 10-Sept-2016  
Name of the Publisher Elsevier  
DOI [10.1016/j.electacta.2016.07.011](https://doi.org/10.1016/j.electacta.2016.07.011)

Author(s) Sawane, Yogesh B.; **Ogale, Satishchandra B.** and Banpurkar, Arun G.  
Title Low Voltage Electrowetting on Ferroelectric PVDF-HFP Insulator with Highly Tunable Contact Angle Range  
Name of the Journal ACS Applied Materials & Interfaces  
Volume No. 8  
Issue No. 36  
Page No. 24049-24056  
Date of Publication 14-Sept-2016  
Name of the Publisher American Chemical Society  
DOI [10.1021/acsami.6b05958](https://doi.org/10.1021/acsami.6b05958)

Author(s) Bhaskar, Ankush; **Subramanian, Prasad** and Vichare, Geeta.  
Title Relative contribution of the magnetic field barrier and solar wind speed in icme-associated forrush decreases  
Name of the Journal The Astrophysical Journal  
Volume No. 828  
Issue No. 2  
Date of Publication 8-Sept-2016  
Name of the Publisher IOP Publishing Ltd

Author(s) **Mishra, Chinmayee** and **Nath, Rejish.**  
Title Dipolar condensates with tilted dipoles in a pancake-shaped Confinement  
Name of the Journal Physical Review A  
Volume No. 94  
Date of Publication 28-Sept-2016  
Name of the Publisher American Physical Society  
DOI [10.1103/PhysRevA.94.033633](https://doi.org/10.1103/PhysRevA.94.033633)

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Author(s) Ghule, S. S.; Garde, C. S.; Ramakrishnan, S.; **Singh, S.**;  
Rajarajan, A. K. and Laad, M.  
Title Synthesis, physical properties and band structure of non-magnetic  
Y3AlC  
Name of the Journal Physica B-Condensed Matter  
Volume No. 498  
Page No. 98-103  
Date of Publication 1-Oct-2016  
Name of the Publisher Elsevier  
DOI [10.1016/j.physb.2016.06.027](https://doi.org/10.1016/j.physb.2016.06.027)

Author(s) **Panja, Soumendra Nath; Kumar, Jitender; Dengre, Shanu and  
Nair, Sunil.**  
Title Relieving geometrical frustration through doping in the Dy<sub>1-x</sub>Ca<sub>x</sub>  
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Name of the Journal Journal of Physics: Condensed Matter  
Volume No. 28  
Issue No. 48  
Date of Publication 26-Sept-2016  
Name of the Publisher IOP Publishing Ltd  
DOI [10.1088/0953-8984/28/48/486001](https://doi.org/10.1088/0953-8984/28/48/486001)

Author(s) Khachatryan, V.; **Dube, S.; Kapoor, A.; Kothekar, K. and Sharma, S.**  
Title Search for R-parity violating decays of a top squark in  
proton-proton collisions at root s=8TeV  
Name of the Journal Physics Letters B  
Volume No. 760  
Page No. 178-201  
Date of Publication 10-Sept-2016  
Name of the Publisher Elsevier  
DOI [10.1016/j.physletb.2016.06.039](https://doi.org/10.1016/j.physletb.2016.06.039)

Author(s) Khachatryan, V.; **Dube, S.; Kapoor, A.; Kothekar, K.; Rane, A. and  
Sharma, S.**  
Title Measurements of t(t)over-bar charge asymmetry using dilepton  
final states in pp collisions at root s=8 TeV  
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Page No. 365-386  
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DOI [10.1016/j.physletb.2016.07.006](https://doi.org/10.1016/j.physletb.2016.07.006)

Author(s) Khachatryan, V.; **Dube, S.; Kapoor, A.; Kotheekar, K.** and **Sharma, S.**  
Title Measurement of the Z gamma  $\rightarrow$   $\nu(\bar{\nu})\gamma$  production cross section in pp collisions at  $\sqrt{s}=8$  TeV and limits on anomalous ZZ gamma and Z gamma gamma trilinear gauge boson couplings  
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Page No. 448-468  
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Name of the Publisher Elsevier  
DOI [10.1016/j.physletb.2016.06.080](https://doi.org/10.1016/j.physletb.2016.06.080)

Author(s) Khachatryan, V.; **Dube, S.; Kapoor, A.; Kotheekar, K.; Rane, A.** and **Sharma, S.**  
Title Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width  
Name of the Journal Journal of High Energy Physics  
Date of Publication 9-Sept-2016  
Name of the Publisher Springer  
DOI [10.1007/JHEP09\(2016\)051](https://doi.org/10.1007/JHEP09(2016)051)

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