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New Publications of Faculty, Scientists and Students of IISER Pune - June 2017.

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## Biology

Author(s)	Thanh-Binh Nguyen; Jayaraman, Priya; Bergseng, Elin; <b>Madhusudhan, M. S.</b> ; Kim, Chu-Young and Sollid, Ludvig M.
Title	Unraveling the structural basis for the unusually rich association of human leukocyte antigen DQ2.5 with class-II-associated invariant chain peptides
Name of the Journal	Journal of Biological Chemistry
Vol. No.	292
Issue No.	22
Page No.	9218-9228
Date of Publication	2-Jun-2017
Name of the Publisher	American Society for Biochemistry and Molecular Biology
DOI	<a href="https://doi.org/10.1074/jbc.M117.785139">10.1074/jbc.M117.785139</a>

## Earth and Climate Sciences

Author(s)	Sivaram, K.; Gade, Maheshreddy; Raghukanth, S. T. G.; <b>Saikia, Utpal</b> and Kanna, Nagaraju.
Title	Estimation of strong ground motion in Southern Peninsular India by empirical Green's function method
Name of the Journal	Current Science
Vol. No.	112
Issue No.	11
Page No.	2273-2283
Date of Publication	10-Jun-2017
Name of the Publisher	Indian Academy of Sciences
DOI	<a href="https://doi.org/10.18520/cs/v112/i11/2273-2283">10.18520/cs/v112/i11/2273-2283</a>

## Chemistry

Author(s)	Palvai, Sandeep; Kuman, Meenu Mahesh; and <b>Basu, Sudipta</b> .
Title	Hyaluronic acid cloaked oleic acid nanoparticles inhibit MAPK signaling with sub-cellular DNA damage in colon cancer cells
Name of the Journal	Journal of Materials Chemistry B
Vol. No.	5
Page No.	3658-3666
Date of Publication	31-Mar-2017
Name of the Publisher	Royal Society of Chemistry
DOI	<a href="https://doi.org/10.1039/C7TB00656J">10.1039/C7TB00656J</a>

Author(s) **George, Jerrin Thomas and Srivatsan, Seergazhi G.**  
Title Vinyluridine as a Versatile Chemoselective Handle for the Post-transcriptional Chemical Functionalization of RNA  
Name of the Journal Bioconjugate Chemistry  
Vol. No. 28  
Issue No. 05  
Page No. 1529–1536  
Date of Publication 13-Apr-17  
Name of the Publisher American Chemical Society  
DOI [10.1021/acs.bioconjchem.7b00169](https://doi.org/10.1021/acs.bioconjchem.7b00169)

Author(s) **Mukherjee, Soumya; Babarao, Ravichandar; Desai, Aamod V.; Manna, Biplab and Ghosh, Sujit K.**  
Title Polar pore surface guided selective CO<sub>2</sub> adsorption in a pre-functionalized metal-organic framework  
Name of the Journal Crystal Growth & Design  
Date of Publication 15-Jun-17  
Name of the Publisher American Chemical Society  
DOI [10.1021/acs.cgd.7b00141](https://doi.org/10.1021/acs.cgd.7b00141)

Author(s) **Manna, Biplab; Sharma, Shivani; Mukherjee, Soumya; Desai, Aamod V. and Ghosh, Sujit K.**  
Title Toxic Aromatics Induced Responsive Facets for a Pore Surface Functionalized Luminescent Coordination Polymer  
Name of the Journal Inorganic Chemistry  
Vol. No. 56  
Issue No. 12  
Page No. 6864–6869  
Date of Publication 31-May-2017  
Name of the Publisher American Chemical Society  
DOI [10.1021/acs.inorgchem.7b00215](https://doi.org/10.1021/acs.inorgchem.7b00215)

Author(s) **Saha, Debasis and Mukherjee, Arnab.**  
Title Connecting diffusion and entropy of bulk water at the single particle level  
Name of the Journal Journal of Chemical Sciences  
Page No. 1-8  
Date of Publication 15-Jun-2017  
Name of the Publisher Springer  
DOI [10.1007/s12039-017-1317-z](https://doi.org/10.1007/s12039-017-1317-z)

Author(s) **Manna, S.; Panse, C. H.; Sontakke, V. A.; Sangamesh, S.; Srivatsan, S. G.**  
Title Probing Human Telomeric DNA and RNA Topology and Ligand-Binding in a Cellular Model Using Responsive Fluorescent Nucleoside Probes  
Name of the Journal ChemBioChem  
Date of Publication 1-Jun-2017  
Name of the Publisher Wiley  
DOI [10.1002/cbic.201700283](https://doi.org/10.1002/cbic.201700283).

Author(s) **Nuthanakanti, A. and Srivatsan, S. G.**  
Title Surface-Tuned and Metal ion-Responsive Supramolecular Gels based on Nucleolipids  
Name of the Journal Applied Materials Interfaces  
Date of Publication 14-Jun-2017  
Name of the Publisher American Chemical Society  
DOI [10.1021/acsami.7b06037](https://doi.org/10.1021/acsami.7b06037)

Author(s) **Sarkar, Sohini; Saha, Debasis; Banerjee, Sneha; Mukherjee, Arnab and Mandal, Pankaj.**  
Title Broadband terahertz dielectric spectroscopy of alcohols  
Name of the Journal Chemical Physics Letters  
Vol. No. 678  
Page No. 65-71  
Date of Publication 16-Jun-2017  
Name of the Publisher Elsevier  
DOI [10.1016/j.cplett.2017.04.026](https://doi.org/10.1016/j.cplett.2017.04.026)

Author(s) **Chauhan, Dinesh Pratapsinh; Varma, Sreejith J.; Gudem, Mahesh; Panigrahi, Nihar; Singh, Khushboo; Hazra, Anirban and Talukdar, Pinaki.**  
Title Intramolecular cascade rearrangements of enynamine derived ketenimines: access to acyclic and cyclic amidines  
Name of the Journal Organic and Biomolecular Chemistry  
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Date of Publication 9-May-2017  
Name of the Publisher Royal Society of Chemistry  
DOI 10.1039/c7ob00499k

Author(s) Pradhan, Narayan; Das Adhikari, Samrat;  
**Nag, Angshuman** and Sarma, D. D.  
Title Luminescence, Plasmonic, and Magnetic Properties of Doped  
Semiconductor Nanocrystals  
Name of the Journal Angewandte chemie- International Edition  
Vol. No. 56  
Issue No. 25  
Page No. 7038-7054  
Date of Publication 12-Jun-2017  
Name of the Publisher Wiley  
DOI [10.1002/anie.201611526](https://doi.org/10.1002/anie.201611526)

Author(s) **Dhara, Barun; Jha, Plawan Kumar; Gupta, Kriti; Bind,**  
**Vimlesh Kumar** and **Ballav, Nirmalya.**  
Title Diamagnetic Molecules Exhibiting Room-Temperature  
Ferromagnetism in Supramolecular Aggregates  
Name of the Journal Journal of Physical Chemistry C  
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Issue No. 22  
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Date of Publication 8-Jun-2017  
Name of the Publisher American Chemical Society  
DOI [10.1021/acs.jpcc.7b02145](https://doi.org/10.1021/acs.jpcc.7b02145)

Author(s) Burade, Sachin S.; **Shinde, Sopan Valiba;** Bhuma,  
Naresh; Kumbhar, Navanath; Kotmale, Amol;  
Rajamohanam, Pattuparambil R.; Gonnade, Rajesh G.;  
**Talukdar, Pinaki** and Dhavale, Dilip D.  
Title Acyclic alpha gamma alpha-Tripeptides with Fluorinated- and  
Nonfluorinated-Furanoid Sugar Framework: Importance of  
Fluoro Substituent in Reverse-Turn Induced Self-Assembly and  
Transmembrane Ion-Transport Activity  
Name of the Journal Journal of Organic Chemistry  
Vol. No. 82  
Issue No. 11  
Date of Publication 2-Jun-2017  
Name of the Publisher American Chemical Society  
DOI [10.1021/acs.joc.7b00661](https://doi.org/10.1021/acs.joc.7b00661)

# Physics

Author(s) **Chauhan, S.; Dube, S.; Hegde, V.; Kapoor, A.; Kothekar, K.; Pandey S.; Rane, A. and Sharma, S.**

Title Search for supersymmetry in events with photons and missing transverse energy in pp collisions at 13 TeV

Name of the Journal Physics Letters B

Vol. No. 769

Page No. 391-412

Date of Publication 10-Jun-2017

Name of the Publisher Elsevier

DOI [10.1016/j.physletb.2017.04.005](https://doi.org/10.1016/j.physletb.2017.04.005)

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