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

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Biology

Author(s) Kasbekar, P.U.; **Goel, P.** and Jadhav, S.P.
Title A Decision Tree Analysis of Diabetic Foot Amputation Risk in Indian Patients
Name of the Journal Frontiers in Endocrinology
Vol. No. 8
Date of Publication 17-Feb-2017
Name of the Publisher Frontiers Media SA
DOI [10.3389/fendo.2017.00025](https://doi.org/10.3389/fendo.2017.00025)

Chemistry

Author(s) **Samanta, Partha; Chandra, Priyanshu; Desai, Aamod V. and Ghosh, Sujit K.**
Title Chemically stable microporous hyper-cross-linked polymer (HCP): an efficient selective cationic dye scavenger from an aqueous medium
Name of the Journal Materials Chemistry Frontiers
Date of Publication 20-Feb-2017
Name of the Publisher Royal Society of Chemistry
DOI [10.1039/C6QM00362A](https://doi.org/10.1039/C6QM00362A)

Author(s) **Kumar, Sumit; Singh, Santosh K.; Vaishnav, Jamuna, K.; Hill, J. and Das, Aloke.**
Grant
Title Interplay among Electrostatic, Dispersion, and Steric Interactions: Spectroscopy and Quantum Chemical Calculations of π -Hydrogen Bonded Complexes
Name of the Journal Chem Phys Chem
Vol. No. 18
Page No. 1-12
Date of Publication 7-Mar-2017
Name of the Publisher Wiley
DOI [10.1002/cphc.201601405](https://doi.org/10.1002/cphc.201601405)

Author(s) Jana. Manoj K.; Pal, Koushik; **Warankar, Avinash; Mandal, Pankaj;** Waghmare, Umesh V. and Biswas, Kanishka.
Title Intrinsic Rattler-Induced Low Thermal Conductivity in Zintl Type TlInTe₂
Name of the Journal Journal of American Chemical Society
Vol. No. 139
Issue No. 12
Page No. 4350–4353
Date of Publication 06-Mar-2017
Name of the Publisher American Chemical Society
DOI [10.1021/jacs.7b01434](https://doi.org/10.1021/jacs.7b01434)

Author(s) Aneesh, J.; **Swarnkar, A.**; **Ravi, V.K.**; Sharma, R.; **Nag, A.** and Adarsht, K.V.
Title Ultrafast Exciton Dynamics in Colloidal CsPbBr₃ Perovskite Nanocrystals: Biexciton Effect and Auger Recombination
Name of the Journal The Journal of Physical Chemistry C
Vol. No. 121
Issue No. 7
Page No. 4734-4739
Date of Publication 02-Mar-2017
Name of the Publisher American Chemical Society
DOI [10.1021/acs.jpcc.7b00762](https://doi.org/10.1021/acs.jpcc.7b00762)

Author(s) **Nuthanakanti, A.**; Boerneke, M.A.; Hermann, T. and **Srivatsan, S.G.**
Title Structure of the Ribosomal RNA Decoding Site Containing a Selenium-Modified Responsive Fluorescent Ribonucleoside Probe
Name of the Journal Angewandte Chemie- International Edition
Vol. No. 56
Issue No. 10
Page No. 2640-2644
Date of Publication 01-Mar-2017
Name of the Publisher Wiley
DOI [10.1002/anie.201611700](https://doi.org/10.1002/anie.201611700)

Author(s) **Nandi, S.**; Collins, S.; **Chakraborty, D.**; Banerjee, D.; Thallapally, P.K.; Woo, T.K. and **Vaidhyanathan, R.**
Title Ultralow Parasitic Energy for Postcombustion CO₂ Capture Realized in a Nickel Isonicotinate Metal-Organic Framework with Excellent Moisture Stability
Name of the Journal Journal of the American Chemical Society
Vol. No. 139
Issue No. 5
Page No. 1734-1737
Date of Publication 08-Feb-2017
Name of the Publisher American Chemical Society
DOI [10.1021/jacs.6b10455](https://doi.org/10.1021/jacs.6b10455)

Author(s) **Pant, Rakesh**; Kumar, Milan and **Venkatnathan, Arun**
Title Quantum Mechanical Investigation of Proton Transport in Imidazolium Methanesulfonate Ionic liquid
Name of the Journal The Journal of Physical Chemistry C
Date of Publication 21-Mar-2017
Name of the Publisher American Chemical Society
DOI [10.1021/acs.jpcc.6b11997](https://doi.org/10.1021/acs.jpcc.6b11997)

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Earth and Climate Sciences

Author(s) **Banerjee, Argha.**
Title Brief communication: Thinning of debris-covered and debris-free glaciers in a warming climate
Name of the Journal The Cryosphere
Vol. No. 11
Issue No. 1
Page No. 133-138
Date of Publication 18-Jan-2017
Name of the Publisher European Geosciences Union
DOI [10.5194/tc-11-133-2017](https://doi.org/10.5194/tc-11-133-2017)

Mathematics

Author(s) **Raundal, Hitesh and Mishra, Rama**
Title Some spaces of polynomial knots
Name of the Journal Topology and its Applications
Vol. No. 218
Issue No. 1
Page No. 66-92
Date of Publication 1-Mar-2017
Name of the Publisher Elsevier
DOI [10.1016/j.topol.2016.12.020](https://doi.org/10.1016/j.topol.2016.12.020)

Physics

Author(s) Wadgaonkar, Indrajit and **Chatterji, Apratim.**
Title Network formation and gelation in telechelic star polymers
Name of the Journal The Journal of Chemical Physics
Vol. No. 146
Issue No. 8
Date of Publication 28-Feb-2017
Name of the Publisher American Institute of Physics
DOI [10.1063/1.4975691](https://doi.org/10.1063/1.4975691)

Author(s) **Karmakar, Koushik**; Skoulatos, Markos; Prando, Giacomo; Roessli, Bertran; Stuhr, Uwe; Hammerath, Franziska; Rüegg, Christian and **Singh, Surjeet.**
Title Effects of Quantum Spin-1/2 Impurities on the Magnetic Properties of Zigzag Spin Chains
Name of the Journal Physical Review Letters
Vol. No. 118
Issue No. 10
Date of Publication 10-Mar-2017
Name of the Publisher American Physical Society
DOI [10.1103/PhysRevLett.118.107201](https://doi.org/10.1103/PhysRevLett.118.107201)

Author(s) **George, Sandip V.; Ambika,G.** and Misra, R.
Title Detecting dynamical states from noisy time series using
bicoherence
Name of the Journal Nonlinear Dynamics
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Date of Publication 13-Mar-2017
Name of the Publisher Springer
DOI [10.1007/s11071-017-3465-6](https://doi.org/10.1007/s11071-017-3465-6)

Author(s) **Pendse, Abhijeet.**
Title Long-Range S-Wave Interactions in Bose-Einstein Condensates:
An Exact Correspondence between Truncated Free Energy
and Dynamics
Name of the Journal International Journal of Theoretical Physics.
Date of Publication 2016
Name of the Publisher Springer
DOI [10.1007/s10773-017-3351-5](https://doi.org/10.1007/s10773-017-3351-5)

Author(s) **Ananth, Sudarshan;** Brink, Lars; **Majumdar, Sucheta;**
Mali, Mahendra and **Shah, Nabha.**
Title Gravitation and quadratic forms
Name of the Journal Journal of High Energy Physics
Date of Publication 31-Mar-2017
Name of the Publisher Springer
DOI [10.1007/JHEP03\(2017\)169](https://doi.org/10.1007/JHEP03(2017)169)
