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

Contents

Subject	Page No.
Biology	2
Chemistry	2
Earth and Climate Sciences	3
Mathematics	4
Physics	4

Biology

Author(s) **Anandi, Libi.; Chakravarty, Vaishali.; Ashiq, K. A.; Bodakuntla, Satish and Lahiri, Mayurika.**
Title DNA-PK plays a central role in transformation of breast epithelial cells following alkylation damage.
Name of the Journal Journal of Cell Science
Date of Publication 14-Sept-2017
Name of the Publisher The Company of Biologists
DOI <https://doi.org/10.1242/jcs.203034>

Author(s) **Sastry, Aniruddh and Barua, Deepak.**
Title Leaf thermotolerance in tropical trees from a seasonally dry climate varies along the slow-fast resource acquisition spectrum
Name of the Journal Scientific Reports
Vol. No. 07
Issue No. 01
Date of Publication 12-Sept-2017
Name of the Publisher Nature Publishing Group
DOI 10.1038/s41598-017-11343-5

Author(s) Raghavan, Rajeev.; **Dahanukar, Neelesh** and Britz, Ralf.
Title The type locality of Tor mosal (Hamilton, 1822) (Teleostei: Cyprinidae)
Name of the Journal Zootaxa
Vol. No. 4317
Issue No. 03
Page No. 593-596
Date of Publication 5-Sept-2017
Name of the Publisher Magnolia Press
DOI [10.11646/zootaxa.4317.3.12](https://doi.org/10.11646/zootaxa.4317.3.12)

Chemistry

Author(s) **Mishra, Kamal K.;** Singh, Santosh K.; Ghosh, Paulami.; Ghoshand, Debashree and **Das, Alope.**
Title The nature of selenium hydrogen bonding: gasphase spectroscopy and quantum chemistry calculations
Name of the Journal Physical Chemistry Chemical Physics
Vol. No. 19
Issue No. 35
Page No. 24179-24187
Date of Publication 15-Aug-2017
Name of the Publisher Royal Society of Chemistry
DOI [10.1039/c7cp05265k](https://doi.org/10.1039/c7cp05265k)

[Go to top](#)

Author(s) **Deshmukh, Mahesh S.; Chaudhary, Atul.;** Zolotarev, Pavel N. and **Boomishankar, Ramamoorthy.**
Title A 3D Coordination Network Built from CuII4Cl3(H2O)2 Linear Clusters and Tetrapyridyl Tetrahedral Silane Ligands: Reversible Iodine Uptake and Friedel–Crafts Alkylation Reactions
Name of the Journal Inorganic Chemistry
Vol. No. 56
Issue No. 19
Page No. 11762–11767
Date of Publication 21-Sept-2017
Name of the Publisher American Chemical Society
DOI [10.1021/acs.inorgchem.7b01781](https://doi.org/10.1021/acs.inorgchem.7b01781)

Author(s) Swamy, V. S. V. S. N.; **Parvin, N.;** Raj, K.V.; Vanka, K. and Sen, S.S
Title C(sp(3))-F, C(sp(2))-F and C(sp(3))-H bond activation at silicon(II) centers
Name of the Journal Chemical Communications
Vol. No. 53
Issue No. 71
Page No. 9850-9853
Date of Publication 10-Aug-2017
Name of the Publisher Royal Society of Chemistry
DOI [10.1039/C7CC05145J](https://doi.org/10.1039/C7CC05145J)

Author(s) **Khopade, Tushar M.; Sonawane, Amol D.; Arora, Jyotsna S. and Bhat, Ramakrishna G.**
Title Direct Organocatalytic Multicomponent Synthesis of Enantiopure γ -Butyrolactones via Tandem Knoevenagel-Michael-Lactonization Sequence
Name of the Journal Advanced Synthesis and Catalysis
Vol. No. 359
Page No. 1-7
Date of Publication 20-Sept-2017
Name of the Publisher Wiley
DOI [10.1002/adsc.201701084](https://doi.org/10.1002/adsc.201701084)

Earth and Climate Sciences

Author(s) **Laha, Sourav.; Kumari, Reshama.;** Singh, Sunil.; Mishra, Aditya.; Sharma, Tushar.; **Banerjee, Argha.;** Nainwal, Harish Chandra and Shankar, R.
Title Evaluating the contribution of avalanching to the mass balance of Himalayan glaciers
Name of the Journal Annals of Glaciology
Page No. 1-9
Date of Publication 21-Sept-2017
Name of the Publisher Cambridge University Press
DOI [10.1017/aog.2017.27](https://doi.org/10.1017/aog.2017.27)

[Go to top](#)

Mathematics

Author(s) **Bhakta, Mousomi** and Santra, Sanjiban
Title On singular equations with critical and supercritical components
Name of the Journal Journal of Differential Equations
Vol. No. 263
Issue No. 05
Page.No 2886-2953
Date of Publication 5-Sept-2017
Name of the Publisher Elsevier
DOI [10.1016/j.jde.2017.04.018](https://doi.org/10.1016/j.jde.2017.04.018)

Physics

Author(s) James, Tomin.; **Subramanian, Prasad** and Kontar, Eduard P.
Title Small electron acceleration episodes in the solar corona
Name of the Journal Monthly Notices of the Royal Astronomical Society
Vol. No. 471
Issue No. 01
Page.No 89-99
Date of Publication 11-Oct-2017
Name of the Publisher Oxford University Press
DOI <https://doi.org/10.1093/mnras/stx1460>

Author(s) Wu,Ying-Hai; Tu, Hong-Hao and **Sreejith, G. J.**
Title Fractional quantum Hall states of bosons on cones
Name of the Journal Physical Review A
Vol. No. 96
Issue. No. 03
Page No. 441-634
Date of Publication 18-Sept-2017
Name of the Publisher American Physical Society
DOI [10.1103/PhysRevA.96.033622](https://doi.org/10.1103/PhysRevA.96.033622)

Author(s) **Pattanayak, Namrata.**; Bhattacharyya, Arpan.; Nigam, A. K.;
Cheong, Sang-Wook and **Bajpai, Ashna.**
Title Quasi-static remanence in Dzyaloshinskii-Moriya interaction driven weak ferromagnets and piezomagnets
Name of the Journal Physical Review B
Vol. No. 96
Issue. No. 10
Page No. 104422-31
Date of Publication 18-Sept-2017
Name of the Publisher American Physical Society
DOI [10.1103/PhysRevB.96.104422](https://doi.org/10.1103/PhysRevB.96.104422)

[Go to top](#)

Author(s) **Sreejith, G. J.;** Zhang, Yuhe and Jain, J. K
Title Surprising robustness of particle-hole symmetry for composite-fermion liquids
Name of the Journal Physical Review B
Vol. No. 96
Issue. No. 12
Page No. 1-7
Date of Publication 15-Sept-2017
Name of the Publisher American Physical Society
DOI [10.1103/PhysRevB.96.125149](https://doi.org/10.1103/PhysRevB.96.125149)

Author(s) **Agarwalla, Bijay Kumar.;** Jiang, Jian-Hua and Segal, Dvira
Title Quantum efficiency bound for continuous heat engines coupled to noncanonical reservoirs
Name of the Journal Physical Review B
Vol. No. 96
Issue. No. 10
Page No. 1-6
Date of Publication 15-Sept-2017
Name of the Publisher American Physical Society
DOI [10.1103/PhysRevB.96.104304](https://doi.org/10.1103/PhysRevB.96.104304)

Author(s) **Sarkar, Supratik and Bhattacharyay, A.**
Title Quantum potential induced UV-IR coupling in analogue Hawking radiation: From Bose-Einstein condensates to canonical acoustic black holes
Name of the Journal Physical Review D
Vol. No. 96
Issue No. 06
Page No. 1-22
Date of Publication 15-Sept-2017
Name of the Publisher American Physical Society
DOI [10.1103/PhysRevD.96.064027](https://doi.org/10.1103/PhysRevD.96.064027)

Author(s) Virpal.; **Kumar, Jitender.;** Thangaraj, R.; Sharma, S. and Singh, R.C
Title Enhanced dielectric permittivity and photoluminescence in Cr doped ZnS nanoparticles
Name of the Journal Applied Surface Science
Vol. No. 416
Page No. 296-301
Date of Publication 15-Sept-2017
Name of the Publisher Elsevier
DOI [10.1016/j.apsusc.2017.04.180](https://doi.org/10.1016/j.apsusc.2017.04.180)