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Monthly Bulletin of Publications:  
Faculty, Scientists and Students of IISER Pune.  
February 2020

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## Book

Author(s)	RAGHURAM, ANANTHARAM; Harder, Günter
Book Title	Eisenstein Cohomology for $GL_N$ and the Special Values of Rankin-Selberg L-Functions: (AMS-203)
Publisher	Princeton University Press
ISBN No	9780691197883
URI	<a href="https://press.princeton.edu/books/hardcover/9780691197883/eisenstein-cohomology-for-gln-and-the-special-values-of-rankin">https://press.princeton.edu/books/hardcover/9780691197883/eisenstein-cohomology-for-gln-and-the-special-values-of-rankin</a>
DR URI	<a href="http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4463">http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4463</a>
Date of Publication	2019-03

## BIOLOGY

Author(s)	Gharat, Sachin A.; Shinde, Balkrishna A.; Mule, Ravindra D.; Punekar, Sachin A.; DHOLAKIA, BHUSHAN B.; Jayaramaiah, Ramesha H.; Ramaswamy, Gopalakrishna; Giri, Ashok P.
Title	High-throughput metabolomic and transcriptomic analyses vet the potential route of cerpegin biosynthesis in two varieties of <i>Ceropegia bulbosa</i> Roxb
Citation	Planta, 251(1).
Publisher	Springer
URI	<a href="https://doi.org/10.1007/s00425-019-03319-8">https://doi.org/10.1007/s00425-019-03319-8</a>
DR URI	<a href="http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4460">http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4460</a>
Date of Publication	2020-01

Author(s)	JOSHI, YASH J.; JAWALE, YASH K.; ATHALE, CHAITANYA A.
Title	Modeling the tunability of the dual-feedback genetic oscillator
Citation	Physical Review E, 101(1).
Publisher	American Physical Society
URI	<a href="https://doi.org/10.1103/PhysRevE.101.012417">https://doi.org/10.1103/PhysRevE.101.012417</a>
DR URI	<a href="http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4450">http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4450</a>
Date of Publication	2020-01

**Author(s)** Kawade, Harish M.; Borkar, Chandrashekhar D.; Shambharkar, Ashwini S.; Singh, Omprakash; Singru, Praful S.; SUBHEDAR, NISHIKANT K.; Kokare, Dadasaheb M.  
**Title** Intracellular mechanisms and behavioral changes in mouse model of attention deficit hyperactivity disorder: Importance of age-specific NMDA receptor blockade  
**Citation** Pharmacology Biochemistry and Behavior, 188.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.pbb.2019.172830>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4458>  
**Date of Publication** 2020-01

**Author(s)** Lloyd, K. C. Kent; GALANDE, SANJEEV et al.  
**Title** The Deep Genome Project  
**Citation** Genome Biology, 21.  
**Publisher** BioMed Central Ltd  
**URI** <https://doi.org/10.1186/s13059-020-1931-9>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4440>  
**Date of Publication** 2020-02

**Author(s)** Narlikar, Geeta; GALANDE, SANJEEV  
**Title** Topical collection on Chromatin Biology and Epigenetics  
**Citation** Journal of Biosciences, 45(1).  
**Publisher** Indian Academy of Sciences  
**URI** <https://doi.org/10.1007/s12038-019-9988-x>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4446>  
**Date of Publication** 2020-12

**Author(s)** Somalwar, Amita R.; Choudhary, Amit G.; Balasubramanian, Nagalakshmi; Sakharkar, Amul J.; SUBHEDAR, NISHIKANT K.; Kokare, Dadasaheb M.  
**Title** Cocaine- and amphetamine-regulated transcript peptide promotes reward seeking behavior in socially isolated rats  
**Citation** Brain Research, 1728.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.brainres.2019.146595>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4451>  
**Date of Publication** 2020-02

# CHEMISTRY

**Author(s)** Bakthavatsalam, Rangarajan; SHARMA, SHIVANI et al.  
**Title** Ligand Structure Directed Dimensionality Reduction (2D -> 1D) in Lead Bromide Perovskite  
**Citation** Journal of Physical Chemistry C, 124(3), 1888-1897.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acs.jpcc.9b11033>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4455>  
**Date of Publication** 2020-01

**Author(s)** DHARPURE, PANKAJ D.; BHOWMICK, ANINDITA; WARGHUDE, PRAKASH K.; BHAT, RAMAKRISHNA G.  
**Title** Visible-light mediated facile dithiane deprotection under metal free conditions  
**Citation** Tetrahedron Letters, 61(3).  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.tetlet.2019.151407>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4457>  
**Date of Publication** 2020-01

**Author(s)** FAJAL, SAHEL; SAMANTA, PARTHA; DUTTA, SUBHAJIT; GHOSH, SUJIT K.  
**Title** Selective and sensitive recognition of Fe<sup>3+</sup> ion by a Lewis basic functionalized chemically stable metal-organic framework (MOF)  
**Citation** Inorganica Chimica Acta, 502.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.ica.2019.119359>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4441>  
**Date of Publication** 2020-03

**Author(s)** KOTTAICHAMY, ALAGAR RAJA; BEGUM, SHABBAH; DEVENDRACHARI, MRUTHYUNJAYACHAR CHATTANAHALLI; BHAT, ZAHID MANZOOR; THIMMAPPA, RAVIKUMAR; Kotresh, Harish Makri Nimbegondi; Vinod, Chathakudath Prabhakaran; THOTIYL, MUSTHAFA OTTAKAM  
**Title** Geometrical Isomerism Directed Electrochemical Sensing  
**Citation** Analytical Chemistry.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acs.analchem.9b05753>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4442>  
**Date of Publication** 2020-02

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**Author(s)** MAURYA, DEVESH; Karmakar, Joy; SAHOO, PADMINI; RAUT, RAVINDRA K.; MAJUMDAR, MOUMITA  
**Title** Versatile binding modes of acyclic N<sub>2</sub>X<sub>2</sub> (X = O, S and P) ligands towards [GeCl]<sup>+</sup> and AuCl units  
**Citation** Inorganica Chimica Acta, 503.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.ica.2019.119380>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4444>  
**Date of Publication** 2020-04

**Author(s)** MIR, WASIM J.; SHEIKH, TARIQ; ARFIN, HABIBUL; Xia, Zhiguo; NAG, ANGSHUMAN  
**Title** Lanthanide doping in metal halide perovskite nanocrystals: spectral shifting, quantum cutting and optoelectronic applications  
**Citation** NPG Asia Materials, 12.  
**Publisher** Nature Publishing Group  
**URI** <https://doi.org/10.1038/s41427-019-0192-0>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4443>  
**Date of Publication** 2020-01

**Author(s)** MORE, SHAHAJI H; GANESH, KRISHNA N.  
**Title** Spiegelmeric 4R/S-hydroxy/amino-L/D-prolyl collagen peptides: conformation and morphology of self-assembled structures  
**Citation** Peptide Science, 112(1).  
**Publisher** Wiley  
**URI** <https://doi.org/10.1002/pep2.24140>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4222>  
**Date of Publication** 2020-01

## Earth and Climate Science

**Author(s)** Lee, Wei -Liang; Li, Jui -Lin Frank; Xu, Kuan -Man; SUHAS, ETTAMAL; Jiang, Jonathan H.; Wang, Yi-Hui; Stephens, Graeme; Fetzer, Eric; Yu, Jia-Yuh  
**Title** Relating Precipitating Ice Radiative Effects to Surface Energy Balance and Temperature Biases Over the Tibetan Plateau in Winter  
**Citation** Journal of Geophysical Research-Atmospheres, 124(23), 12455-12467.  
**Publisher** American Geophysical Union  
**URI** <https://doi.org/10.1029/2018JD030204>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4402>  
**Date of Publication** 2019-12

## Humanities and Social Sciences

**Author(s)** Swatuk, Larry A.; THOMAS, BEJOY K.; Wirkus, Lars; Krampe, Florian; Silva, Luis Paulo Batista da  
**Title** The 'boomerang effect': insights for improved climate action  
**Citation** Climate and Development.  
**Publisher** Taylor & Francis  
**URI** <https://doi.org/10.1080/17565529.2020.1723470>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4439>  
**Date of Publication** 2020-02

## Mathematics

**Author(s)** BISWAS, ANUP; Saha, Subhamay  
**Title** Zero-Sum Stochastic Differential Games with Risk-Sensitive Cost  
**Citation** Applied Mathematics and Optimization, 81(1), 113-140.  
**Publisher** Springer  
**URI** <https://doi.org/10.1007/s00245-018-9479-8>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4445>  
**Date of Publication** 2020-02

**Author(s)** HOGADI, AMIT; KULKARNI, GIRISH  
**Title** Gabber's presentation lemma for finite fields  
**Citation** Journal Fur Die Reine Und Angewandte Mathematik, 2020(759), 265-289.  
**Publisher** Walter de Gruyter GmbH  
**URI** <https://doi.org/10.1515/crelle-2017-0049>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4461>  
**Date of Publication** 2020-02

**Author(s)** Lemaire, Bertrand; MISHRA, MANISH  
**Title** Matching of orbital integrals (transfer) and Roche Hecke algebra isomorphisms  
**Citation** Compositio Mathematica, 156(3), 533-603.  
**Publisher** Cambridge University Press  
**URI** <https://doi.org/10.1112/S0010437X19007838>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4456>  
**Date of Publication** 2020-03

**Author(s)** PAL, RATNA  
**Title** Further remarks on rigidity of Henon maps  
**Citation** Journal of Mathematical Analysis and Applications, 484(2).  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.jmaa.2019.123658>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4454>  
**Date of Publication** 2020-04

## Physics

**Author(s)** Bhatt, Bhavya; Chander, Manish Ram; PATIL, RAJ; Mishra, Ruchira; Nahar, Shlok; Singh, Tejinder P.  
**Title** Path Integrals, Spontaneous Localisation, and the Classical Limit  
**Citation** Zeitschrift Fur Naturforschung A: A Journal of Physical Sciences, 75(2), 131-141.  
**Publisher** Walter de Gruyter GmbH  
**URI** <https://doi.org/10.1515/zna-2019-0251>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4401>  
**Date of Publication** 2020-02

**Author(s)** CMS Collaboration; Sirunyan, A. M.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KANSAL, B.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S. et al.  
**Title** Multiparticle correlation studies in pPb collisions root s(NN)=8.16 TeV  
**Citation** Physical Review C, 101(1).  
**Publisher** American Physical Society  
**URL** <https://doi.org/10.1103/PhysRevC.101.014912>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4459>  
**Date of Publication** 2020-01

**Author(s)** CMS Collaboration; Sirunyan, A. M.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KANSAL, B.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S. et al.  
**Title** Study of the  $B^+ \rightarrow J/\psi \Lambda^- p B^+ \rightarrow J/\psi \Lambda^- p$  decay in proton-proton collisions at  $\sqrt{s} = 8$  TeV  
**Citation** Journal of High Energy Physics, 2019(12).  
**Publisher** Springer  
**URL** [https://doi.org/10.1007/JHEP12\(2019\)100](https://doi.org/10.1007/JHEP12(2019)100)  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4447>  
**Date of Publication** 2019-12

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