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**Monthly Bulletin of Publications:
Faculty, Scientists and Students of IISER Pune.
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Contents

Subject	Page No.
Biology	2
Chemistry	4
Earth and Climate Science	6
Humanities and Social Sciences	7
Mathematics	8
Physics	9

Journal Articles

BIOLOGY

Author(s) KASHERWAL, VISHAKHA; Bhatavadekar, Neel B.; BALASUBRAMANIAN, NAGARAJ
Title Evaluating Mouse Fibroblast Interaction with Implant Surfaces in a 3D Microenvironment
Citation International Journal of Oral & Maxillofacial Implants, 36(6), 1121-1128.
Publisher Quintessence Publishing Co, Inc
URI <https://doi.org/10.11607/jomi.9183>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6511>
Date of Publication 2021-12

Author(s) Majumdar, Arnab; Upadhyay, Munish Kumar; OJHA, MEGHA; Afsal, Fathima; Giri, Biswajit; Srivastava, Sudhakar; Bose, Sutapa
Title Enhanced phytoremediation of Metal(loid)s via spiked ZVI nanoparticles: An urban clean-up strategy with ornamental plants
Citation Chemosphere, 288, 132588.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.chemosphere.2021.132588>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6510>
Date of Publication 2022-02

Author(s) Vashum, Yaongamphi; Kottaiswamy, Amuthavalli; Bupesh, Giridharan; SINGH, RIYA P.; Kalaiselvan, Parkavi; Thiagarajan, K.; Samuel, Shila
Title Inhibitory Effects of Cathepsin K Inhibitor (ODN-MK-0822) on the Paracrine Pro-Osteoclast Factors of Breast Cancer Cells
Citation Current Molecular Pharmacology, 14(6), 1134-1145.
Publisher Bentham Science
URI <https://doi.org/10.2174/1874467214666210211162118>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6515>
Date of Publication 2021-12

[Go to top](#)

Author(s) Venkitachalam, Srikant; DAS, SRIJAN; Deep, Auroi; Joshi, Amitabh
Title Density-dependent selection in Drosophila: evolution of egg size and hatching time
Citation Journal of Genetics, 101(1).
Publisher Springer Nature
URI <https://doi.org/10.1007/s12041-021-01355-6>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6545>
Date of Publication 2022-01

[Go to top](#)

CHEMISTRY

Author(s) KHADE, VIKAS V.; THUBE, ARCHANA S.; DHARPURE, PANKAJ D.; BHAT, RAMAKRISHNA G.

Title Direct synthesis of 1,3-dithiolanes from terminal alkynes via visible light photoredox catalysis

Citation Organic & Biomolecular Chemistry.

Publisher Royal Society of Chemistry

URI <https://doi.org/10.1039/D1OB02154K>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6543>

Date of Publication 2022-01

Author(s) KOHLI, KANIKA; Bhattacharya, Somesh Kr.; Ueda, Kyosuke; Narushima, Takayuki; Sahara, Ryoji; GHOSH, PRASENJIT

Title Electronegativity Difference as a Descriptor for the Oxidation-Inhibiting Effect of the Alloying Element during the Early Stages of Titanium Oxidation

Citation Langmuir.

Publisher American Chemical Society

URI <https://doi.org/10.1021/acs.langmuir.1c02633>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6544>

Date of Publication 2022-01

Author(s) Lin, Jian-Bin; VAIDHYANATHAN, RAMANATHAN et al.

Title A scalable metal-organic framework as a durable physisorbent for carbon dioxide capture

Citation Science, 374(6574), 1464-1469.

Publisher American Association for the Advancement of Science

URI <https://doi.org/10.1126/science.abi7281>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6518>

Date of Publication 2021-12

[Go to top](#)

Author(s) MONDAL, DEBASHIS; AHMAD, MANZOOR; PANWARIA, PRAKASH; UPADHYAY, AVISIKTA; TALUKDAR, PINAKI

Title Anion Recognition through Multivalent C-H Hydrogen Bonds: Anion-Induced Foldamer Formation and Transport across Phospholipid Membranes

Citation Journal of Organic Chemistry, 87(1), 10-17.

Publisher American Chemical Society

URI <https://doi.org/10.1021/acs.joc.1c01408>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6509>

Date of Publication 2022-01

Author(s) SARKAR, MEGHAMALA; RAJASEKAR, PRABHAKARAN; JOSE, CAVYA; BOOMISHANKAR RAMAMOORTHY

Title Polyanionic Imido-P(V) Ligands: From Transition Metal Complexes to Coordination Driven Self-Assemblies

Citation Chemical Record.

Publisher Wiley

URI <https://doi.org/10.1002/tcr.202100281>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6512>

Date of Publication 2021-12

Author(s) VIJAYAKANTH, THANGAVEL; Liptrot, David J.; Gazit, Ehud; BOOMISHANKAR, RAMAMOORTHY; Bowen, Chris R.

Title Recent Advances in Organic and Organic-Inorganic Hybrid Materials for Piezoelectric Mechanical Energy Harvesting

Citation Advanced Functional Materials.

Publisher Wiley

URI <https://doi.org/10.1002/adfm.202109492>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6536>

Date of Publication 2022-01

[Go to top](#)

EARTH AND CLIMATE SCIENCE

Author(s) DANISH, MOHD; TRIPATHY, GYANA RANJAN
Title Sources and internal cycling of dissolved barium in a tropical coastal lagoon (Chilika lagoon, India) system
Citation Marine Chemistry, 240, 104083.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.marchem.2021.104083>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6538>
Date of Publication 2022-03

Author(s) Raja, Nussaibah B.; Dunne, Emma M.; Matiwane, Aviwe; Khan, Tasnuva Ming; Naetscher, Paulina S.; Ghilardi, Aline M.; CHATTOPADHYAY, DEVAPRIYA
Title Colonial history and global economics distort our understanding of deep-time biodiversity
Citation Nature Ecology & Evolution.
Publisher Springer Nature
URI <https://doi.org/10.1038/s41559-021-01608-8>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6517>
Date of Publication 2021-12

[Go to top](#)

Humanities and Social Sciences

Author(s) LELE, SHARACHCHANDRA; Jamwal, Priyanka; Menon, Mahesh
Title Challenges in Regulating Water Pollution in India: Standards, Monitoring, Enforcement and Accountability
Citation Economic & Political Weekly, 56(52), 46-52.
Publisher Sameeksha Trust (India)
URI <https://www.epw.in/journal/2021/52/review-environment-and-development/challenges-regulating-water-pollution-india.html>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6514>
Date of Publication 2021-12

Author(s) LELE, SHARACHCHANDRA; Sahu, Geetanjay
Title Environmental Regulation and Governance
Citation Economic & Political Weekly, 56(52), 36-37.
Publisher Sameeksha Trust (India)
URI <https://www.epw.in/journal/2021/52/review-environment-and-development/environmental-regulation-and-governance.html>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6514>
Date of Publication 2021-12

[Go to top](#)

MATHEMATICS

Author(s) BHIMANI, DIVYANG G.; Haque, Saikatul
Title Norm Inflation for Benjamin-Bona-Mahony Equation in Fourier Amalgam and Wiener Amalgam Spaces with Negative Regularity
Citation Mathematics, 9(23), 3145.
Publisher MDPI
URI <https://doi.org/10.3390/math9233145>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6540>
Date of Publication 2021-12

Author(s) DESHMUKH, NEERAJ; Kulkarni, Girish; YADAV, SURAJ
Title A Nisnevich local Bloch-Ogus theorem over a general base
Citation Journal of Pure and Applied Algebra, 226(6), 106978.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.jpaa.2021.106978>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6547>
Date of Publication 2021-06

[Go to top](#)

PHYSICS

Author(s) AJITH, V. J.; PATIL, SHIVPRASAD
Title Translational Diffusion of a Fluorescent Tracer Molecule in Nanoconfined Water
Citation Langmuir, 38(3), 1034-1044.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.langmuir.1c02550>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6541>
Date of Publication 2022-01

Author(s) Basak, Jaydeep Kumar; Basu, Debarshi; MALVIMAT, VINAY; Parihar, Himanshu; Sengupta, Gautam
Title Islands for entanglement negativity
Citation Scipost Physics, 12(1).
Publisher SciPost Foundation
URI <https://doi.org/10.21468/SciPostPhys.12.1.003>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6534>
Date of Publication 2022-01

Author(s) Basak, Jaydeep Kumar; Basu, Debarshi; MALVIMAT, VINAY; Parihar, Himanshu; Sengupta, Gautam
Title Page curve for entanglement negativity through geometric evaporation
Citation Scipost Physics, 12(1).
Publisher SciPost Foundation
URI <https://doi.org/10.21468/SciPostPhys.12.1.004>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6535>
Date of Publication 2022-01

Author(s) CHOWDHURY, TAMAGHNA; TANEJA, CHETNA; Vasdev, Aastha; GHOSH, PRASENJIT; Sheet, Goutam; KUMAR, G. V. PAVAN; RAHMAN, ATKUR
Title Stacking Engineered Room Temperature Ferroelectricity in Twisted Germanium Sulfide Nanowires
Citation Advanced Electronic Materials.
Publisher Wiley
URI <https://doi.org/10.1002/aelm.202101158>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6539>
Date of Publication 2022-01

[Go to top](#)

Author(s) CMS Collaboration; Tumasyan, A.; ALPANA, K.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.
Title Measurement of the top quark mass using events with a single reconstructed top quark in pp collisions at $\sqrt{s} = 13$ TeV
Citation Journal of High Energy Physics, 2021(12).
Publisher Springer Nature
URI [https://doi.org/10.1007/JHEP12\(2021\)161](https://doi.org/10.1007/JHEP12(2021)161)
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6516>
Date of Publication 2021-12

Author(s) KOHLI, KANIKA; Bhattacharya, Somesh Kr.; Ueda, Kyosuke; Narushima, Takayuki; Sahara, Ryoji; GHOSH, PRASENJIT
Title Electronegativity Difference as a Descriptor for the Oxidation-Inhibiting Effect of the Alloying Element during the Early Stages of Titanium Oxidation
Citation Langmuir.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.langmuir.1c02633>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6544>
Date of Publication 2022-01

Author(s) RAHMAN, AYESHA; RAHMAN, ATIKUR
Title Silver Oxide-Decorated Silica Nanoparticles for Visible-Light-Driven Photolytic Pollutant Degradation and Water-Oil Separation
Citation ACS Applied Nano Materials, 5(1), 939-947.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acsnm.1c03606>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6546>
Date of Publication 2022-01

Author(s) Sen, Sanket; MANDAL, S.; SEN, ARNAB et al.
Title Fragmentation dynamics of doubly charged camphor molecule following C 1s Auger decay
Citation Physical Chemistry Chemical Physics.
Publisher Royal Society of Chemistry
URI <https://doi.org/10.1039/D1CP05176H>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6548>
Date of Publication 2022-01

[Go to top](#)

Author(s) SRIVASTAV, SUMIT; BAPAT, BHAS
Title Electron-impact-like feature in triple fragmentation of CO_2^{3+} under slow proton impact
Citation Physical Review, 105(1).
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevA.105.012801>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6537>
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[Go to top](#)
