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

Subject	Page No.
<u>Biology</u>	2
<u>Chemistry</u>	4
<u>Mathematics</u>	5
<u>Physics</u>	5

BIOLOGY

Author(s)	BHATTACHARJEE, ANINDYA S.; Joshi, Samir V.; Naik, Shilpa; Sangle, Shashikala; ABRAHAM, NIXON M.
Title	Quantitative assessment of olfactory dysfunction accurately detects asymptomatic COVID-19 carriers
Citation	EClinical Medicine, 28.
Publisher	Elsevier B.V.
URI	https://doi.org/10.1016/j.eclinm.2020.100575
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5388
Date of Publication	2020-11

Author(s)	BUWA, NATASHA; MAZUMDAR, DEBASMITA; BALASUBRAMANIAN, NAGARAJ
Title	Caveolin1 Tyrosine-14 Phosphorylation: Role in Cellular Responsiveness to Mechanical Cues
Citation	The Journal of Membrane Biology, 253, 509-534.
Publisher	Springer
URI	https://doi.org/10.1007/s00232-020-00143-0
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5349
Date of Publication	2020-10

Author(s)	DESHPANDE, JHELM N.; Kaltz, Oliver; Fronhofer, Emanuel A.
Title	Host-parasite dynamics set the ecological theatre for the evolution of state- and context-dependent dispersal in hosts
Citation	OIKOS.
Publisher	Wiley
URI	https://doi.org/10.1111/oik.07512
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5378
Date of Publication	2020-09

Author(s)	GHATE, KETAKEE; MUTALIK, SAMPADA P.; Sthanam, Lakshmi Kavitha; Sen, Shamik; GHOSE, AURNAB
Title	Fmn2 Regulates Growth Cone Motility by Mediating a Molecular Clutch to Generate Traction Forces
Citation	Neuroscience, 448, 160-171.
Publisher	Elsevier B.V.
URI	https://doi.org/10.1016/j.neuroscience.2020.09.046
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5350
Date of Publication	2020-11

[Go to top](#)

Author(s)	Gurav, Tanuja P.; Jayaramaiah, Ramesha H.; Punekar, Sachin A.; DHOLAKIA, BHUSHAN B.; Giri, Ashok P.
Title	Generation of novelties in the genus Ocimum as a result of natural hybridization: A morphological, genetical and chemical appraisal
Citation	Industrial Crops and Products, 156.
Publisher	Elsevier B.V.
URI	https://doi.org/10.1016/j.indcrop.2020.112859
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5390
Date of Publication	2020-11
Author(s)	Jodar, Tiffany Ona; Lage-Rupprecht, Vanessa; ABRAHAM, NIXON M.; Rose, Christine R.; Egger, Veronica
Title	Local Postsynaptic Signaling on Slow Time Scales in Reciprocal Olfactory Bulb Granule Cell Spines Matches Asynchronous Release
Citation	Frontiers in Synaptic Neuroscience.
Publisher	Frontiers Media S.A.
URI	https://doi.org/10.3389/fnsyn.2020.551691
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5389
Date of Publication	2020-11
Author(s)	Kinatkara, Priyadarshan; SINGH, SHUBHAM; MHETRE, AMOL; KAMAT, SIDDHESH S. et al.
Title	Peri-natal growth retardation rate and fat mass accumulation in mice lacking Dip ₂ A is dependent on the dietary composition
Citation	Transgenic Research, 29, 553-562.
Publisher	Springer Nature
URI	https://doi.org/10.1007/s11248-020-00219-6
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5360
Date of Publication	2020-11

Author(s)	Lote-Oke, Rashmi; Pawar, Jwala; Kulkarni, Shriram; Sanas, Prasanna; Kajale, Neha; Gondhalekar, Ketan; Khadilkar, Vaman; KAMAT, SIDDHESH; Khadilkar, Anuradha
Title	A LC-MS method for 25-hydroxy-vitamin D3 measurements from dried blood spots for an epidemiological survey in India
Citation	Scientific Reports, 10.
Publisher	Springer Nature
URI	https://doi.org/10.1038/s41598-020-76955-w
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5373
Date of Publication	2020-11

CHEMISTRY

Author(s)	Ahmed, Naushad; Tripathi, Shalini; Sarkar, Arup; Ansari, Kamal Uddin; Das, Chinmoy; PRAJESH, NEETU; Horike, Satoshi; BOOMISHANKAR, RAMAMOORTHY; Shanmugam, Maheswaran
Title	Chiral tetranuclear copper(ii) complexes: synthesis, optical and magnetic properties
Citation	New Journal of Chemistry, 44(39), 16845-16855.
Publisher	Royal Society of Chemistry
URI	https://doi.org/10.1039/DONJ02856H
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5374
Date of Publication	2020-10

Author(s)	DEWAN, ANWESHI; HALDAR, SATTWICK; Narayanan, Remya
Title	Multi-shelled NiO hollow microspheres as bifunctional materials for electrochromic smart window and non-enzymatic glucose sensor
Citation	Journal of Solid State Electrochemistry.
Publisher	Springer Nature
URI	https://doi.org/10.1007/s10008-020-04861-2
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5385
Date of Publication	2020-11

Author(s)	SAMANTA, MRITYUNJAY; CHAUDHURY, SRABANTI
Title	Coarse-grained molecular dynamics simulations study of the conformational properties of single polyelectrolyte diblock copolymers
Citation	Biophysical Chemistry, 266.
Publisher	Elsevier B.V.
URI	https://doi.org/10.1016/j.bpc.2020.106437
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5354
Date of Publication	2020-11

[Go to top](#)

Author(s)	DESWAL, SWATI; SINGH, SACHIN KUMAR; Pandey, Richa; NASA, PARVEEN; Kabra, Dinesh; Praveenkumar, Balu; OGALE, SATISHCHANDRA B.; BOOMISHANKAR, RAMAMOORTHY
Title	Neutral 1D Perovskite-Type ABX ₃ Ferroelectrics with High Mechanical Energy Harvesting Performance
Citation	Chemistry of Materials, 32(19), 8333-8341.
Publisher	American Chemical Society
URI	https://doi.org/10.1021/acs.chemmater.0c02179
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5377
Date of Publication	2020-10

MATHEMATICS

Author(s)	Balakumar, G. P.; BORAH, DIGANTA; Mahajan, Prachi; Verma, Kaushal
Title	Further remarks on the higher dimensional Saito conjecture
Citation	Annales Polonici Mathematici, 125(2), 101-115.
Publisher	The Institute of Mathematics of the Polish Academy of Sciences
URI	https://doi.org/10.4064/ap200203-21-4
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5355
Date of Publication	2020

PHYSICS

Author(s)	BHATKAR, SAYALI ATUL
Title	Ward identity for loop level soft photon theorem for massless QED coupled to gravity
Citation	Journal of High Energy Physics, 2020(10).
Publisher	Springer Nature
URI	https://doi.org/10.1007/JHEP10(2020)110
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5356
Date of Publication	2020-10

Author(s)	Bhattacharjee, Kaustav; BISWAS, KORAK; Prasad, Bhagavatula L. V.
Title	Unraveling the Role of Excess Ligand in Nanoparticle Pattern Formation from an Evaporatively Dewetting Nanofluid Droplet
Citation	Journal of Physical Chemistry C, 124(42), 23446-23453.
Publisher	American Chemical Society
URI	https://doi.org/10.1021/acs.jpcc.0c07259
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5376
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[Go to top](#)

Author(s)	CMS Collaboration; Sirunyan, A. M.; DUBE, S.; KANSAL, A.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S.
Title	W^+W^- boson pair production in proton-proton collisions at $\sqrt{s} = 13$ TeV
Citation	Physical Review D, 102(9).
Publisher	American Physical Society
URI	https://doi.org/10.1103/PhysRevD.102.092001
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5375
Date of Publication	2020-11
Author(s)	CMS Collaboration; Sirunyan, A. M.; DUBE, S.; KANSAL, B.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S. et al.
Title	Measurement of the cross section for $t\bar{t}$ production with additional jets and b jets in pp collisions at $\sqrt{s} = 13$ TeV
Citation	Journal of High Energy Physics, 2020(11).
Publisher	Springer Nature
URI	https://doi.org/10.1007/JHEP07(2020)125
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4942
Date of Publication	2020-07
Author(s)	CMS Collaboration; Sirunyan, A. M.; DUBE, S.; KANSAL, B.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S.
Title	Measurements of production cross sections of WZ and same-sign WW boson pairs in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV
Citation	Physics Letters B, 809.
Publisher	Elsevier B.V.
URI	https://doi.org/10.1016/j.physletb.2020.135710
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5382
Date of Publication	2020-10
Author(s)	CMS Collaboration; Sirunyan, A. M.; DUBE, S.; KANSAL, B.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S.
Title	Measurement of $B_c(2S)^+$ and $B_c^*(2S)^+$ cross section ratios in proton-proton collisions at $\sqrt{s} = 13$ TeV
Citation	Physical Review D, 102(9).
Publisher	American Physical Society
URI	https://doi.org/10.1103/PhysRevD.102.092007
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5391
Date of Publication	2020-11

Author(s)	Dabhade, P.; SANKHYAYAN, S. et al.
Title	Search and analysis of giant radio galaxies with associated nuclei (SAGAN) I. New sample and multi-wavelength studies
Citation	Astronomy & Astrophysics, 642.
Publisher	EDP Sciences
URI	https://doi.org/10.1051/0004-6361/202038344
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5379
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Author(s)	DEWAN, ANWESHI; HALDAR, SATTWICK; Narayanan, Remya
Title	Multi-shelled NiO hollow microspheres as bifunctional materials for electrochromic smart window and non-enzymatic glucose sensor
Citation	Journal of Solid State Electrochemistry.
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Author(s)	DESWAL, SWATI; SINGH, SACHIN KUMAR; Pandey, Richa; NASA, PARVEEN; Kabra, Dinesh; Praveenkumar, Balu; OGALE, SATISHCHANDRA B.; BOOMISHANKAR, RAMAMOORTHY
Title	Neutral 1D Perovskite-Type ABX ₃ Ferroelectrics with High Mechanical Energy Harvesting Performance
Citation	Chemistry of Materials, 32(19), 8333-8341.
Publisher	American Chemical Society
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DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5377
Date of Publication	2020-10

Author(s)	Kar, Indrani; HARNAGEA, LUMINITA; Banik, Soma; SINGH, SURJEET; Thirupathaiah, Setti
Title	Observation of surface Dirac state in transition metal dichalcogenide NiTe ₂ using ARPES
Citation	AIP Conference Proceedings, 2265(1).
Publisher	AIP Publishing
URI	https://doi.org/10.1063/5.0016745
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5351
Date of Publication	2020-11

Author(s)	Kushnirenko, Y. S.; Evtushinsky, D. V.; Kim, T. K.; Morozov, I.; HARNAGEA, LUMINITA; Wurmehl, S.; Aswartham, S.; Büchner, B.; Chubukov, A. V.; Borisenko, S. V.
Title	Nematic superconductivity in LiFeAs
Citation	Physical Review B, 102(18).
Publisher	American Physical Society
URI	https://doi.org/10.1103/PhysRevB.102.184502
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5347
Date of Publication	2020-11

Author(s)	MANGAONKAR, JAY; VISHWAKARMA, CHETAN; MAURYA, S. SAGAR; SARKAR, SUMIT; MacLennan, Jamie L.; DUTTA, PRANAB; RAPOL, UMAKANT D.
Title	Effects of finite momentum width on the reversal dynamics in a BEC based atom optics delta-kicked rotor
Citation	Journal of Physics B: Atomic, Molecular and Optical Physics, 53(23).
Publisher	IOP Publishing Ltd
URI	https://doi.org/10.1088/1361-6455/abbf43
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5383
Date of Publication	2020-11

Author(s)	MENON, DHANYA S.; VARDARAJAN, SUNEETA
Title	Nonlinear perturbations of higher dimensional anti-de Sitter spacetime
Citation	Physical Review D, 102(10).
Publisher	American Physical Society
URI	https://doi.org/10.1103/PhysRevD.102.104026
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5353
Date of Publication	2020-11

Author(s)	MITTAL, K. M.; Giraud, O.; Ullmo, D.
Title	Semiclassical evaluation of expectation values
Citation	Physical Review E, 102(4).
Publisher	American Physical Society
URI	https://doi.org/10.1103/PhysRevE.102.042211
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5346
Date of Publication	2020-10

Author(s)	Pal, Sukanya; Grover, Shivani; HARNAGEA, LUMINITA; TELANG, PRACHI; SINGH, ANUPAM; Muthu, D. V. S.; Waghmare, U. V.; Sood, A. K.
Title	Destabilizing excitonic insulator phase by pressure tuning of exciton-phonon coupling
Citation	Physical Review Research, 2(4).
Publisher	American Physical Society
URI	https://doi.org/10.1103/PhysRevResearch.2.043182
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5348
Date of Publication	2020-11
Author(s)	ROUT, DIBYATA; MUDI, SANCHAYETA RANAJIT; Hoffmann, Marco; Spachmann, Sven; Klingeler, Rüdiger; SINGH, SURJEET
Title	Structural and physical properties of trilayernickelates $R_4Ni_3O_{10}$ (R =La, Pr, and Nd)
Citation	Physical Review B, 102(19).
Publisher	American Physical Society
URI	https://doi.org/10.1103/PhysRevB.102.195144
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5384
Date of Publication	2020-11
Author(s)	Tekur, S. Harshini; SANTHANAM, M. S.
Title	Symmetry deduction from spectral fluctuations in complex quantum systems
Citation	Physical Review Research, 2(3).
Publisher	American Physical Society
URI	https://doi.org/10.1103/PhysRevResearch.2.032063
DR URI	http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5345
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[Go to top](#)
