



SRINIVASA RAMANUJAN LIBRARY
Indian Institute of Science Education and Research Pune
Dr. Homi Bhabha Road, Pune - 411008. India.
e-mail: libraryservices@iiserpune.ac.in

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

Contents

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

BIOLOGY

Author(s) BAIG, ULFAT; LAXMI, VIDHYA; OJHA, AKANKSHA; Watve, Milind
Title Geriatric infections: Decreased immunity or evolved opportunists?
Citation Journal of Biosciences, 45(1).
Publisher Indian Academy of Sciences
URI <https://doi.org/10.1007/s12038-020-0025-x>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4567>
Date of Publication 2020-04

Author(s) BAPAT, NIRAJA V.; PAITHANKAR, HARSHAD; CHUGH, JEETENDER; RAJAMANI, SUDHA
Title NMR analysis of nucleotide π -stacking in prebiotically relevant crowded environment
Citation Communications Chemistry, 3.
Publisher Nature Publishing Group
URI <https://doi.org/10.1038/s42004-020-0300-7>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4581>
Date of Publication 2020-04

Author(s) BHATTACHARYYA, SOUMYA; PUCADYIL, THOMAS J.
Title Cellular functions and intrinsic attributes of the ATP-binding Eps15 homology domain-containing proteins
Citation Protein Science.
Publisher Wiley
URI <https://doi.org/10.1002/pro.3860>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4556>
Date of Publication 2020-03

Author(s) CHAVHAN, YASHRAJ; MALUSARE, SARTHAK; DEY, SUTIRTH
Title Larger bacterial populations evolve heavier fitness trade-offs and undergo greater ecological specialization
Citation Heredity.
Publisher Nature Publishing Group
URI <https://doi.org/10.1038/s41437-020-0308-x>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4530>
Date of Publication 2020-03

Author(s) Kedia, Shekhar; RAMAKRISHNA, PRATYUSH; Netrakanti, Pallavi Rao; Jose, Mini; Sibarita, Jean-Baptiste; NADKARNI, SUHITA; Nair, Deepak
Title Real-time Nanoscale Organization of Amyloid Precursor Protein
Citation Nanoscale, 12(15), 8200-8215.
Publisher Royal Society of Chemistry
URI <https://doi.org/10.1039/D0NR00052C>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4532>
Date of Publication 2020-03

Author(s) NATARAJAN, BHAVANI; BANERJEE, ANJAN K.
Title MicroRNA160 regulates leaf curvature in potato (*Solanum tuberosum* L. cv. Désirée)
Citation Plant Signaling & Behavior.
Publisher Taylor & Francis
URI <https://doi.org/10.1080/15592324.2020.1744373>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4544>
Date of Publication 2020-04

Author(s) SARKAR, SUSOVAN; DAGAR, SHIKHA; VERMA, AJAY; RAJAMANI, SUDHA
Title Compositional heterogeneity confers selective advantage to model protocellular membranes during the origins of cellular life
Citation Scientific Reports, 10.
Publisher Nature Publishing Group
URI <https://doi.org/10.1038/s41598-020-61372-w>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4576>
Date of Publication 2020-03

Author(s) SHARMA, ROHAN; NADKARNI, SUHITA
Title Biophysical basis of alpha rhythm disruption in Alzheimer's Disease
Citation eNeuro,7(2).
Publisher The Society for Neuroscience
URI <https://doi.org/10.1523/ENEURO.0293-19.2020>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4533>
Date of Publication 2020-03

Author(s) UPADHYA, MANOJ A.; Upadhy, Harshita M.; Borkar, Chandrashekhar D.; CHOUDHARY, AMIT G.; Singh, Uday; Chavan, Priyanka; Sakharkar, Amul; Singru, Praful; SUBHEDAR, NISHIKANT K.; Kokare, Dadasaheb M.

Title Nicotine-induced Brain Stimulation Reward is Modulated by Melanocortin-4 Receptors in Ovariectomized Rats

Citation Neuroscience, 431, 205-221.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.neuroscience.2020.01.035>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4539>

Date of Publication 2020-04

CHEMISTRY

Author(s) ARFIN, HABIBUL; Kaur, Jagjit; SHEIKH, TARIQ; Chakraborty, Sudip; NAG, ANGSUMAN

Title Bi³⁺-Er³⁺ and Bi³⁺-Yb³⁺ Codoped Cs₂AgInCl₆ Double Perovskite Near Infrared Emitters

Citation Angewandte Chemie.

Publisher Wiley

URI <https://doi.org/10.1002/ange.202002721>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4545>

Date of Publication 2020-03

Author(s) BAPAT, NIRAJA V.; PAITHANKAR, HARSHAD; CHUGH, JEETENDER; RAJAMANI, SUDHA

Title NMR analysis of nucleotide π -stacking in prebiotically relevant crowded environment

Citation Communications Chemistry, 3.

Publisher Nature Publishing Group

URI <https://doi.org/10.1038/s42004-020-0300-7>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4581>

Date of Publication 2020-04

Author(s) CHAUDHURY, SRABANTI; SINGH, DIVYA; Kolomeisky, Anatoly B.

Title Theoretical Investigations of the Dynamics of Chemical Reactions on Nanocatalysts with Multiple Active Sites

Citation Journal of Physical Chemistry Letters, 11(6), 2330-2335.

Publisher American Chemical Society

URI <https://doi.org/10.1021/acs.jpcllett.0c00316>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4578>

Date of Publication 2020-03

[Go to top](#)

Author(s) DAS, KONOYA; SAPPATI, SUBRAHMANYAM; HAZRA, PARTHA
Title Peculiar hydrogen bonding behaviour of water molecules inside the aqueous nanochannels of lyotropic liquid crystals
Citation Physical Chemistry Chemical Physics, 22(11), 6210-6221.
Publisher Royal Society of Chemistry
URI <https://doi.org/10.1039/C9CP06405B>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4553>
Date of Publication 2020-03

Author(s) LAHA, DEBASISH; BHAT, RAMAKRISHNA G.
Title Silver-Catalyzed Epoxidation of Aldehydes Using Donor-/ Acceptor-type Vinyl Diazosuccinimides to Access Spiro-Pyrrolidinedioneoxiranes
Citation Asian Journal of Organic Chemistry.
Publisher Wiley
URI <https://doi.org/10.1002/ajoc.202000123>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4562>
Date of Publication 2020-03

Author(s) MAHAJAN, MANI; ROY, KINGSHUK; PARMAR, SWATI; Singla, Gourav; Pandey, O.P.; Singh, K.; VAIDHYANATHAN, RAMANATHAN; OGALE, SATISHCHANDRA
Title Room temperature processed in-situ carbon-coated vanadium carbide (VC@C) as a high capacity robust Li/Na battery anode material
Citation Carbon, 161, 108-116.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.carbon.2020.01.057>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4554>
Date of Publication 2020-05

Author(s) PATEL, MAHENDRA; Haroon, Haamid; KUMAR, AJAY; Ahmad, Jahangir; Bhat, Gulzar A.; Lone, Saifullah; PUTTHUSSERI, DHANYA; Majid, Kowsar; Wahid, Malik
Title High Na⁺ Mobility in rGO Wrapped High Aspect Ratio 1D SbSe Nano Structure Renders Better Electrochemical Na⁺ Battery Performance
Citation ChemPhysChem, 21(8), 814-820.
Publisher Wiley
URI <https://doi.org/10.1002/cphc.201901011>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4579>
Date of Publication 2020-04

Author(s) REJA, RAHI M.; KUMAR, VIVEK; George, Gijo; PATEL, RAJAT; KUMAR, DRGKOPPALU R. PUNEETH; Raghothama, Srinivasarao; GOPI, HOSAHUDYA N.

Title Structural Investigation of Hybrid Peptide Foldamers Composed of α -Dipeptide Equivalent β -Oxy- δ^5 -amino Acids

Citation Chemistry: A European Journal, 26(19), 4304-4309.

Publisher Wiley

URI <https://doi.org/10.1002/chem.201904780>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4550>

Date of Publication 2020-04

Author(s) SHANKER, G. SHIVA; PANCHAL, REENA A.; OGALE, SATISHCHANDRA; NAG, ANGSHUMAN

Title g-C₃N₄:Sn-doped In₂O₃ (ITO) nanocomposite for photoelectrochemical reduction of water using solar light

Citation Journal of Solid State Chemistry, 285.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.jssc.2020.121187>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4537>

Date of Publication 2020-05

Author(s) VIJAYAKANTH, THANGAVEL; Ram, Farsa; Praveenkumar, Balu; Shanmuganathan, Kadhiraavan; BOOMISHANKAR, RAMAMOORTHY

Title Piezoelectric Energy Harvesting from a Ferroelectric Hybrid Salt [Ph₃MeP]₄[Ni(NCS)₆] Embedded in a Polymer Matrix

Citation Angewandte Chemie International Edition.

Publisher Wiley

URI <https://doi.org/10.1002/anie.202001250>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4580>

Date of Publication 2020-03

Humanities and Social Sciences

Author(s) SANCHETI, POOJA

Title Locating Ben Okri's The Age of Magic in a Cosmopolitan Framework

Citation HyperCultura, 8.

Publisher Hyperion University of Bucharest, Romania

URI <http://litere.hyperion.ro/hypercultura/wp-content/uploads/2020/04/Sancheti-Pooja.pdf>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4561>

Date of Publication 2020-03

Mathematics

Author(s) Berchio, Elvise; GANGULY, DEBDIP; Grillo, Gabriele
Title Improved multipolar Poincaré-Hardy inequalities on Cartan-Hadamard manifolds
Citation Annali di Matematica Pura ed Applicata (1923 -), 199, 65-80.
Publisher Springer
URI <https://doi.org/10.1007/s10231-019-00866-5>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4557>
Date of Publication 2020-05

Author(s) Bhunia, Sushil; MAHALANOBIS, AYAN; SHINDE, PRALHAD; SINGH, ANUPAM
Title Algorithms in Linear Algebraic Groups
Citation Advances in Applied Clifford Algebras, 30(3).
Publisher Springer
URI <https://doi.org/10.1007/s00006-020-01054-y>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4568>
Date of Publication 2020-04

Author(s) Garge, Shripad M.; SINGH, ANUPAM
Title Finiteness of z-classes in reductive groups
Citation Journal of Algebra, 554, 41-53.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.jalgebra.2020.01.010>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4569>
Date of Publication 2020-07

Author(s) Ganguly, Jyotirmoy; Prasad, Amritanshu; SPALLONE, STEVEN
Title On the Divisibility of Character Values of the Symmetric Group
Citation The Electronic Journal of Combinatorics, 27(2).
Publisher The Electronic Journal of Combinatorics
URI <https://doi.org/10.37236/8693>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4565>
Date of Publication 2020-04

Physics

Author(s) AJITH, V. J.; PATIL, SHIVPRASAD
Title A new method for measurement and quantification of tracer diffusion in nanoconfined liquids
Citation Review of Scientific Instruments, 91(1).
Publisher AIP Publishing
URL <https://doi.org/10.1063/1.5119321>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4529>
Date of Publication 2020-01

Author(s) BHATTACHARYAY, ARIJIT
Title Generalization of Stokes-Einstein relation to coordinate dependent damping and diffusivity: an apparent conflict
Citation Journal of Physics A: Mathematical and Theoretical, 53(7).
Publisher IOP Publishing
URL <https://doi.org/10.1088/1751-8121/ab63a4>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4528>
Date of Publication 2020-02

Author(s) CHANDRA, P. V. S. PAVAN; Korwar, Mrunal; THALAPILLIL, ARUN M.
Title Continuous gravitational waves and magnetic monopole signatures from single neutron stars
Citation Physical Review D, 101(7).
Publisher American Physical Society
URL <https://doi.org/10.1103/PhysRevD.101.075028>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4566>
Date of Publication 2020-04

Author(s) CMS Collaboration; Sirunyan, A. M.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S. et al.
Title Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\mu\tau$ and $e\tau$ in proton-proton collisions at $\sqrt{s} = 13$ TeV
Citation Journal of High Energy Physics, 2020(3).
Publisher Springer
URL [https://doi.org/10.1007/JHEP03\(2020\)103](https://doi.org/10.1007/JHEP03(2020)103)
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4540>
Date of Publication 2020-03

[Go to top](#)

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 A search for the standard model Higgs boson decaying to charm quarks

Citation Journal of High Energy Physics, 2020(3).

Publisher Springer

URL [https://doi.org/10.1007/JHEP03\(2020\)131](https://doi.org/10.1007/JHEP03(2020)131)

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4549>

Date of Publication 2020-03

Author(s) CMS Collaboration; Sirunyan, A. M.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; SHARMA, S. et al.

Title Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s} = 13$ TeV

Citation Journal of High Energy Physics, 2020(3).

Publisher Springer

URL [https://doi.org/10.1007/JHEP03\(2020\)014](https://doi.org/10.1007/JHEP03(2020)014)

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4536>

Date of Publication 2020-03

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 top quark pair production cross section in dilepton final states containing one τ lepton in pp collisions at $\sqrt{s} = 13$ TeV

Citation Journal of High Energy Physics, 2020(3).

Publisher Springer

URL [https://doi.org/10.1007/JHEP02\(2020\)191](https://doi.org/10.1007/JHEP02(2020)191)

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4543>

Date of Publication 2020-02

Author(s) CMS Collaboration; Sirunyan, A. M.; DUBE, S.; KANSAL, A.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S. et al.

Title Running of the top quark mass from proton-proton collisions at $\sqrt{s}=13$ TeV

Citation Physics Letters B, 803.

Publisher Elsevier B.V.

URL <https://doi.org/10.1016/j.physletb.2020.135263>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4551>

Date of Publication 2020-04

Author(s) CMS Collaboration; Sirunyan, A. M.; DUBE, S.; KANSAL, A.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S. et al.

Title Study of excited Λ_b^0 states decaying to $\Lambda_b^0\pi^+\pi^-$ in proton-proton collisions at $\sqrt{s}=13\text{TeV}$

Citation Physics Letters B, 803.

Publisher Elsevier B.V.

URL <https://doi.org/10.1016/j.physletb.2020.135345>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4552>

Date of Publication 2020-04

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 Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $\sqrt{s}=13\text{TeV}$

Citation Journal of High Energy Physics, 2020(30).

Publisher Springer

URL [https://doi.org/10.1007/JHEP03\(2020\)051](https://doi.org/10.1007/JHEP03(2020)051)

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4531>

Date of Publication 2020-03

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 Observation of the $\Lambda(0)(b) \rightarrow J/\psi \Lambda \phi$ decay in proton-proton collisions at $\sqrt{s}=13\text{TeV}$

Citation Physics Letter B, 802.

Publisher Elsevier B.V.

URL <https://doi.org/10.1016/j.physletb.2020.135203>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4546>

Date of Publication 2020-03

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 Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s}=13\text{TeV}$

Citation Physics Review Letters, 124(13).

Publisher Elsevier B.V.

URL <https://doi.org/10.1103/PhysRevLett.124.131802>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4572>

Date of Publication 2020-04

[Go to top](#)

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 Measurement of the $tt\bar{b}b\bar{b}$ production cross section in the all-jet final state in pp collisions at $\sqrt{s}=13$ TeV
Citation Physics Letters B, 803.
Publisher Elsevier B.V.
URL <https://doi.org/10.1016/j.physletb.2020.135285>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4570>
Date of Publication 2020-04

Author(s) CMS Collaboration; Sirunyan, A. M.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.;SHARMA, S. et al.
Title Production of Λ_c^+ baryons in proton-proton and lead-lead collisions at $\sqrt{S_{NN}}=5.02$ TeV
Citation Physics Letters B, 803.
Publisher Elsevier B.V.
URL <https://doi.org/10.1016/j.physletb.2020.135328>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4571>
Date of Publication 2020-04

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 Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV
Citation Physical Review Letters, 124(13).
Publisher American Physical Society
URL <https://doi.org/10.1103/PhysRevLett.124.131802>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4563>
Date of Publication 2020-04

Author(s) Hazra, Soumitra; BAG, RABINDRANATH; SINGH, SURJEET; Kini, Rajeev N.
Title Terahertz spectroscopic signature of the charge density wave in the spin-ladder compound, $Sr_{14}Cu_{24}O_{41}$
Citation Journal of Physics: Condensed Matter, 32(27).
Publisher IOP Publishing
URL <https://doi.org/10.1088/1361-648X/ab7e5e>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4555>
Date of Publication 2020-06

[Go to top](#)

Author(s) KANJILAL, PROJWAL K.; BHATTACHARYAY, ARIJIT
Title Spin domains in ground state of a trapped spin-1 condensate: a general study under Thomas-Fermi approximation
Citation Physica Scripta, 95(4).
Publisher IOP Publishing
URL <https://doi.org/10.1088/1402-4896/ab5e95>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4560>
Date of Publication 2020-04

Author(s) Kar, Indrani; Chatterjee, Joydeep; HARNAGEA, LUMINITA; Kushnirenko, Y.; Fedorov, A. V.; Shrivastava, Deepika; Büchner, B.; Mahadevan, P.; Thirupathaiah, S.
Title Metal-chalcogen bond-length induced electronic phase transition from semiconductor to topological semimetal in ZrX_2 (X=Se and Te)
Citation Physical Review B, 101(16).
Publisher American Physical Society
URL <https://doi.org/10.1103/PhysRevB.101.165122>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4558>
Date of Publication 2020-04

Author(s) KUMAR, AANJANEYA; DHAR, DEEPAK
Title TASEP speed process: an effective medium approach
Citation Journal of Statistical Mechanics: Theory and Experiment, 2020.
Publisher IOP Publishing
URL <https://doi.org/10.1088/1742-5468/ab5b8a>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4527>
Date of Publication 2020-01

Author(s) KUMAR, AANJANEYA; KULKARNI, SUMAN; SANTHANAM, M. S.
Title Extreme events in stochastic transport on networks
Citation Chaos: An Interdisciplinary Journal of Nonlinear Science, 30(4).
Publisher AIP Publishing
URL <https://doi.org/10.1063/1.5139018>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4577>
Date of Publication 2020-04

[Go to top](#)

Author(s) MAHAJAN, MANI; ROY, KINGSHUK; PARMAR, SWATI; Singla, Gourav; Pandey, O.P.; Singh, K.; VAIDHYANATHAN, RAMANATHAN; OGALE, SATISHCHANDRA
Title Room temperature processed in-situ carbon-coated vanadium carbide (VC@C) as a high capacity robust Li/Na battery anode material
Citation Carbon, 161, 108-116.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.carbon.2020.01.057>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4554>
Date of Publication 2020-05

Author(s) NISHAD, NAVEEN; SREEJITH, G. J.
Title Scaling of Loschmidt echo in a boundary-driven critical Z_3 Potts model
Citation Physical Review B, 101(14).
Publisher American Physical Society
URL <https://doi.org/10.1103/PhysRevB.101.144302>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4541>
Date of Publication 2020-04

Author(s) Pal, Sukanya; Arora, Raagya; Roychowdhury, Subhajit; HARNAGEA, LUMINITA; SAURABH, KUMAR; Shenoy, Sandhya; Muthu, D. V. S.; Biswas, Kanishka; Waghmare, U. V.; Sood, A. K.
Title Pressure-induced phase transitions in the topological crystalline insulator SnTe and its comparison with semiconducting SnSe: Raman and first-principles studies
Citation Physical Review B, 101(15).
Publisher American Physical Society
URL <https://doi.org/10.1103/PhysRevB.101.155202>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4547>
Date of Publication 2020-04

Author(s) SACHDEVA, DIVYA; Sadhukhan, Soumya
Title Discussing 125 GeV and 95 GeV excess in light radion model
Citation Physical Review D, 101(5).
Publisher American Physical Society
URL <https://doi.org/10.1103/PhysRevD.101.055045>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4548>
Date of Publication 2020-03

[Go to top](#)

Author(s) SHANKER, G. SHIVA; PANCHAL, REENA A.; OGALE, SATISHCHANDRA; NAG, ANGSUMAN
Title g-C₃N₄: Sn-doped In₂O₃ (ITO) nanocomposite for photoelectrochemical reduction of water using solar light
Citation Journal of Solid State Chemistry, 285.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.jssc.2020.121187>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4537>
Date of Publication 2020-05

Author(s) SRIKARA, S.; Thapliyal, Kishore; Pathak, Anirban
Title Continuous variable direct secure quantum communication using Gaussian states
Citation Quantum Information Processing, 19(5).
Publisher Springer
URL <https://doi.org/10.1007/s11128-020-02627-3>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4538>
Date of Publication 2020-03

Author(s) TIWARI, SUNNY; TANEJA, CHETNA; SHARMA, VANDANA; VASISTA, ADARSH
BHASKAR; PAUL, DIPTABRATA; KUMAR, G. V. PAVAN
Title Dielectric Microsphere Coupled to a Plasmonic Nanowire: A Self-Assembled Hybrid Optical Antenna
Citation Advanced Optical Materials.
Publisher Wiley
URL <https://doi.org/10.1002/adom.201901672>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4542>
Date of Publication 2020-03

[Go to top](#)
