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BIOLOGY

Author(s) KHARE, SATYAJEET P.; SHETTY, ANKITHA; BIRADAR, RAHUL; PATTAN, INDUMATHI; Chen, Zhi Jane; SATHE, AMEYA V.; REDDY, PULI HANDRAMOULI; Lahesmaa, Riitta; GALANDE, SANJEEV

Title NF- κ B Signaling and IL-4 Signaling Regulate SATB1 Expression via Alternative Promoter Usage During Th2 Differentiation

Citation Frontiers in Immunology.

Publisher Frontiers Media S.A.

URI <https://doi.org/10.3389/fimmu.2019.00667>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2446>

Date of Publication 02-04-2019

Author(s) NATARAJAN, BHAVANI; KONDHARE, KIRTIKUMAR R.; Hannapel, David J.; BANERJEE, ANJAN K.

Title Mobile RNAs and proteins: Prospects in storage organ development of tuber and root crops

Citation Plant Science, 284, 73-81.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.plantsci.2019.03.019>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2482>

Date of Publication JUL-2019

Author(s) RAO, DIVYA; Kojima, Satoshi; RAJAN, RAGHAV

Title Sensory feedback independent pre-song vocalizations correlate with time to song initiation

Citation Journal of Experimental Biology, 222.

Publisher The Company of Biologists Ltd

URI <https://doi.org/10.1242/jeb.199042>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2888>

Date of Publication 09-04-2019

Author(s) YOUSF, SALEEM; Sardesai, Devika M.; Mathew, Abraham B.; Khandelwal, Rashi; Acharya, Jhankar D.; Sharma, Shilpy; CHUGH, JEETENDER

Title Metabolic signatures suggest *o*-phosphocholine to UDP-*N*-acetylglucosamine ratio as a potential biomarker for high-glucose and/or palmitate exposure in pancreatic B-cells

Citation Metabolomics, 15(4).

Publisher Springer

URI <https://doi.org/10.1007/s11306-019-1516-3>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2473>

Date of Publication APR-2019

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CHEMISTRY

Author(s) CHAKRABORTY, INDRA NARAYAN; ROY, SOUMENDU; DEVATHA, GAYATHRI; RAO, ANISH; PILLAI, PRAMOD P.
Title InP/ZnS Quantum Dots as Efficient Visible-Light Photocatalysts for Redox and Carbon-Carbon Coupling Reactions
Citation Chemistry of Materials, 31(7), 2258-2262.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.chemmater.9b00086>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2885>
Date of Publication 18-03-2018

Author(s) CHAKRABORTY, DEBANJAN; NANDI, SHYAMAPADA; Sinnwell, Michael A.; Liu, Jian; KUSHWAHA, RINKU; Thallapally, Praveen K.; VAIDHYANATHAN, RAMANATHAN
Title Hyper-Cross-linked Porous Organic Frameworks with Ultramicropores for Selective Xenon Capture
Citation ACS Applied Materials & Interfaces, 11(14), 13279-13284.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acsami.9b01619>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2891>
Date of Publication 19-03-2019

Author(s) DASGUPTA, RAJARSHI; Das, Shubhajit; HIWASE, SHWETA; Pati, Swapan K.; KHAN, SHABANA
Title N-Heterocyclic Germylene and Stannylene Catalyzed Cyanosilylation and Hydroboration of Aldehydes
Citation Organometallics, 38(7), 1429-1435.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.organomet.8b00673>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2886>
Date of Publication 11-03-2019

Author(s) Kumar, Ravi V.; SIVARAM, S.
Title Bhaskar Dattatraya Kulkarni (1949-2019)
Citation Current Science, 116(7), 1261-1262.
Publisher Indian Academy of Sciences
URI <https://www.currentscience.ac.in/Volumes/116/07/1261.pdf>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2487>
Date of Publication 10-04-2019

Author(s) MALPATHAK, SHREYAS; Hase, William L.
Title Unimolecular Rate Constants versus Energy and Pressure as a Convolution of Unimolecular Lifetime and Collisional Deactivation Probabilities. Analyses of Intrinsic Non-RRKM Dynamics
Citation Journal of Physical Chemistry A, 123(10), 1923-1928.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.jpca.9b00184>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2449>
Date of Publication 22-02-2019

Author(s) RAUT, RAVINDRA K.; MAJUMDAR, MOUMITA
Title A pyramidal Tin(II) dication and its reactivity studies
Citation Journal of Organometallic Chemistry, 887, 18-23.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.jorganchem.2019.02.019>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2451>
Date of Publication 01-05-2019

Author(s) SAMANTA, PARTHA; DESAI, AAMOD V.; LET, SUMANTA; GHOSH, SUJIT K.
Title Advanced Porous Materials for Sensing, Capture and Detoxification of Organic Pollutants toward Water Remediation
Citation ACS Sustainable Chemistry Engineering, 7(8), 7456-7478.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acssuschemeng.9b00155>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2445>
Date of Publication 20-03-2019

Author(s) TANDON, BHARAT; Agrawal, Ankit; Heo, Sungyeon; Milliron, Delia J.
Title Competition between Depletion Effects and Coupling in the Plasmon Modulation of Doped Metal Oxide Nanocrystals
Citation Nano Letters, 19(3), 2012-2019.
Publisher American Chemical Society
URI <https://doi.org/10.1021/acs.nanolett.9b00079>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2450>
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Author(s) YOUSF, SALEEM; Sardesai, Devika M.; Mathew, Abraham B.; Khandelwal, Rashi; Acharya, Jhankar D.; Sharma, Shilpy; CHUGH, JEETENDER

Title Metabolic signatures suggest *o*-phosphocholine to UDP-*N*-acetylglucosamine ratio as a potential biomarker for high-glucose and/or palmitate exposure in pancreatic B-cells

Citation Metabolomics, 15(4).

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URI <https://doi.org/10.1007/s11306-019-1516-3>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2473>

Date of Publication APR-2019

EARTH AND CLIMATE SCIENCE

Author(s) SAIKIA, UTPAL; Kumar, V. Pavan; RAI, S. S.

Title Complex upper mantle deformation beneath the Dharwarcraton inferred from high density splitting measurements: Distinct lateral variation from west to east

Citation Tectonophysics, 755, 10-20.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.tecto.2019.02.003>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2481>

Date of Publication 20-03-2019

Author(s) TRIPATHY, GYANA RANJAN; Mishra, Smruti; DANISH, MOHD; Ram, Kirpa

Title Elevated Barium concentrations in rain water from east-coast of India: role of regional lithology

Citation Journal of Atmospheric Chemistry, 76(1), 59-72.

Publisher Springer

URI <https://doi.org/10.1007/s10874-019-9387-6>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2476>

Date of Publication MAR-2019

MATHEMATICS

Author(s) Arapostathis, Ari; BISWAS, ANUP; Saha, Subhamay

Title Strict monotonicity of principal eigenvalues of elliptic operators in R^d and risk-sensitive control

Citation Journal De Mathematiques Pures et Appliquees, 124, 169-219.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.matpur.2018.05.008>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2475>

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Author(s) BISWAS, ANUP; Lorinczi, Jozsef
Title Universal constraints on the location of extrema of eigenfunctions of non-local Schrödinger operators
Citation Journal of Differential Equations, 267(1), 267-306.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.jde.2019.01.007>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2483>
Date of Publication 15-06-2019

PHYSICS

Author(s) AGARWAL, TEJAL; Manjunath, G. P.; Habib, Farhat; CHATTERJI, APRATIM
Title Bacterial chromosome organization. I. Crucial role of release of topological constraints and molecular crowders
Citation The Journal of Chemical Physics, 150(14).
Publisher AIP Publishing
URI <https://doi.org/10.1063/1.5058214>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2460>
Date of Publication 11-04-2019

Author(s) AGARWAL, TEJAL; Manjunath, G. P.; Habib, Farhat; CHATTERJI, APRATIM
Title Bacterial chromosome organization. II. Few special cross-links, cell confinement, and molecular crowders play the pivotal roles
Citation The Journal of Chemical Physics, 150(14).
Publisher AIP Publishing
URI <https://doi.org/10.1063/1.5058217>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2461>
Date of Publication 11-04-2019

Author(s) BABAR, ROHIT; KABIR, MUKUL
Title Ferromagnetism in nitrogen-doped graphene
Citation Physical Review B, 99(11).
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevB.99.115442>
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Author(s) Bashir, Amna; PATIDAR, RAHUL et al.
Title Cu-doped nickel oxide interface layer with nanoscale thickness for efficient and highly stable printable carbon-based perovskite solar cell
Citation Solar Energy, 182, 225-236.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.solener.2019.02.056>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2474>
Date of Publication APR-2019

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 a W' boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state
Citation Journal of High Energy Physics.
Publisher Springer
URI [https://doi.org/10.1007/JHEP03\(2019\)127](https://doi.org/10.1007/JHEP03(2019)127)
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Date of Publication 22-03-2019

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 pair production of first-generation scalar leptoquarks at $\sqrt{s}=13\text{TeV}$
Citation Physical Review D, 99(5).
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URI <https://doi.org/10.1103/PhysRevD.99.052002>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2453>
Date of Publication 14-03-2019

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 the pair production of light top squarks in the $e^+\mu^-$ final state in proton-proton collisions at root $s=13\text{TeV}$
Citation Journal of High Energy Physics.
Publisher Springer
URI [https://doi.org/10.1007/JHEP03\(2019\)101](https://doi.org/10.1007/JHEP03(2019)101)
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Date of Publication 18-03-2019

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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 Measurement of exclusive YY photoproduction from protons in ppPb collisions at root sNN=5.02 Tev
Citation The European Physical Journal C, 79(3).
Publisher Springer
URI <https://doi.org/10.1140/epjc/s10052-019-6774-8>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2471>
Date of Publication 26-03-2019

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 Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at $\sqrt{s}=13\text{TeV}$
Citation Physical Review Letters, Vo.122(12).
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevLett.122.121803>
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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 heavy neutrinos and third-generation leptoquarks in hadronic states of two τ leptons and two jets in proton-proton collisions at $s/\sqrt{s}=13\text{TeV}$
Citation Journal of High Energy Physics.
Publisher Springer
URI [https://doi.org/10.1007/JHEP03\(2019\)170](https://doi.org/10.1007/JHEP03(2019)170)
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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 Observation of Two Excited B+c States and Measurement of the B+c(2S) Mass in pp Collisions at $\sqrt{s}=13\text{TeV}$
Citation Physical Review Letters, 122(13).
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevLett.122.132001>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2484>
Date of Publication 02-04-019

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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 dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s}=13$ TeV

Citation Journal of High Energy Physics.

Publisher Springer

URI [https://doi.org/10.1007/JHEP03\(2019\)141](https://doi.org/10.1007/JHEP03(2019)141)

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Date of Publication 25-03-2019

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 Measurements of properties of the Higgs boson decaying to a W boson pair in pp collisions at $\sqrt{s}=13$ TeV

Citation Physics Letters B, 791, 96-129.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.physletb.2018.12.073>

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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 Observation of prompt J/psi meson elliptic flow in high-multiplicity pPb collisions at $\sqrt{s(NN)}=8.16$ TeV

Citation Physics Letters B, 791, 172-194.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.physletb.2019.02.018>

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Title Search for top quark partners with charge $5/3$ in the same-sign dilepton and single-lepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV

Citation Journal of High Energy Physics.

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URI [https://doi.org/10.1007/JHEP03\(2019\)082](https://doi.org/10.1007/JHEP03(2019)082)

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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 Measurement of associated production of a WW boson and a charm quark in proton-proton collisions at $\sqrt{s}=13\text{TeV}$
Citation The European Physical Journal C, 79(3).
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URI <https://doi.org/10.1140/epjc/s10052-019-6752-1>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2463>
Date of Publication 23-03-2019

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 Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s}=13\text{TeV}$
Citation The European Physical Journal C, 79(3).
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URI <https://doi.org/10.1140/epjc/s10052-019-6730-7>
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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 Erratum to: Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at $\sqrt{s}=13\text{TeV}$
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Author(s) De, Chandan; BAG, RABINDRANATH; SINGH, SURJEET; Orlandi, Fabio; Manuel, Pascal; Langridge, Sean; Sanyal, Milan K.; Rao, C. N. R.; Mostovoy, Maxim; Sundaresan, A.
Title Highly tunable magnetic spirals and electric polarization in Gd_{0.5}Dy_{0.5}MnO₃
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URI <https://doi.org/10.1103/PhysRevMaterials.3.044401>
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Author(s) GUPTA, KAJARI; AMBIKA, G.
Title Role of time scales and topology on the dynamics of complex networks
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Publisher AIP Publishing
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Author(s) Hoang, D. N.; SHWETA, A. et al.
Title Radio observations of the merging galaxy cluster Abell 520
Citation Astronomy & Astrophysics, 624.
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URI <https://doi.org/10.1051/0004-6361/201833900e>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2469>
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Author(s) KORWAR, MRUNAL; THALAPILLIL, ARUN M.
Title Novel astrophysical probes of light millicharged fermions through Schwinger pair production
Citation Journal of High Energy Physics.
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URI [https://doi.org/10.1007/JHEP04\(2019\)039](https://doi.org/10.1007/JHEP04(2019)039)
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Author(s) KRITHIKA, V. R.; ANJUSHA, V. S.; Bhosale, Udaysinh T.; MAHESH, T. S.
Title NMR studies of quantum chaos in a two-qubit kicked top
Citation Physical Review E, 99(3).
Publisher American Physical Society
URI <https://doi.org/10.1103/PhysRevE.99.032219>
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Date of Publication 25-03-2019

Author(s) Megha; Kamal, Chinnathambi; MONDAL, KRISHNAKANTA; Ghanty, Tapan K.; Banerjee, Arup
Title Remarkable Structural Effect on the Gold-Hydrogen Analogy in Hydrogen-Doped Gold Cluster
Citation Journal of Physical Chemistry A, 123(10), 1973-1982.
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URI <https://doi.org/10.1021/acs.jpca.8b11797>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2448>
Date of Publication 21-02-2019

Author(s) Picardo, Jason R.; AGASTHYA, LOKAHITH; Govindarajan, Rama; Ray, SamriddhiSankar
Title Flow structures govern particle collisions in turbulence
Citation Physical Review Fluids, 4(3).
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URI <https://doi.org/10.1103/PhysRevFluids.4.032601>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/2452>
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Author(s) SHAIKH, MUBEENA; CHATTERJI, APRATIM
Title Hierarchical and synergistic self-assembly in composites of model wormlike micellar-polymers and nanoparticles results in nanostructures with diverse morphologies
Citation The European Physical Journal E, 42.
Publisher Springer
URI <https://doi.org/10.1140/epje/i2019-11811-2>
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