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Monthly Bulletin of Publications:  
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# BIOLOGY

**Author(s)** Bhowmik, Arpan Dey; PODDER, SANTOSH; Mondal, Paritosh; Shaw, Pallab; Bandyopadhyay, Arindam; Das, Ankita; Bhattacharjee, Pritha; Chakraborty, Anindita; Sudarshan, Muthammal; Chattopadhyay, Ansuman

**Title** Chronic exposure to environmentally relevant concentration of fluoride alters Ogg1 and Rad51 expressions in mice: Involvement of epigenetic regulation

**Citation** Ecotoxicology and Environmental Safety, 202.

**Publisher** Elsevier B.V.

**URI** <https://doi.org/10.1016/j.ecoenv.2020.110962>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5049>

**Date of Publication** 2020-10

**Author(s)** Dar, M. Saleem; DHOLAKIA, BHUSHAN B.; Shanmugam, Haripriya; Gupta, Vidya S; Subramanian, K. S.; Subramanian, J.; Giri, Ashok P.

**Title** Differential Modulation in Metabolites Revealed with the Improvement in the Shelf-Life of Alphonso Fruits

**Citation** Molecular Biotechnology, 62(10), 508-520.

**Publisher** Springer Nature

**URI** <https://doi.org/10.1007/s12033-020-00267-7>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5042>

**Date of Publication** 2020-08

**Author(s)** HARNE, SHRIKANT; Duret, Sybille; PANDE, VANI; BAPAT, MRINMAYEE; Beven, Laure; PANANGHAT, GAYATHRI

**Title** MreB5 Is a Determinant of Rod-to-Helical Transition in the Cell-Wall-less Bacterium Spiroplasma

**Citation** Current Biology.

**Publisher** Elsevier B.V.

**URI** <https://doi.org/10.1016/j.cub.2020.08.093>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5072>

**Date of Publication** 2020-09

**Author(s)** HEGDE, SUSHMITHA; SOORY, AMARENDRANATH; KADUSKAR, BHAGYASHREE; RATNAPARKHI, GIRISH S.  
**Title** SUMO conjugation regulates immune signalling  
**Citation** Fly.  
**Publisher** Taylor & Francis  
**URI** <https://doi.org/10.1080/19336934.2020.1808402>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5048>  
**Date of Publication** 2020-08

**Author(s)** KRISHNAN, ANAND; Singh, Avehi; Tamma, Krishnapriya  
**Title** Visual signal evolution along complementary color axes in four bird lineages  
**Citation** Biology Open.  
**Publisher** The Company of Biologists  
**URI** <https://doi.org/10.1242/bio.052316>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5032>  
**Date of Publication** 2020-09

**Author(s)** MALLA, JAVID AHMAD; SHARMA, VIRENDER KUMAR; LAHIRI, MAYURIKA; TALUKDAR, PINAKI  
**Title** Esterase-Activatable Synthetic  $M^+/Cl^-$  Channel Induces Apoptosis and Disrupts Autophagy in Cancer Cells  
**Citation** Chemistry-A European Journal, 26(52), 11946-11949.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1002/chem.202002964>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5035>  
**Date of Publication** 2020-09

**Author(s)** NAIK, SUYASH; UNNI, MANU; SINHA, DEVANSHU; RAJPUT, SHATRUHAN SINGH; REDDY, P. CHANDRAMOULI; Kartvelishvily, Elena; Solomonov, Inna; Sagi, Irit; CHATTERJI, APRATIM; PATIL, SHIVPRASAD; GALANDE, SANJEEV  
**Title** Differential tissue stiffness of body column facilitates locomotion of Hydra on solid substrates  
**Citation** Journal of Experimental Biology.  
**Publisher** The Company of Biologists  
**URI** <https://doi.org/10.1242/jeb.232702>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5065>  
**Date of Publication** 2020-09

**Author(s)** SATHE, SANTOSH; Kuemmerli, Rolf  
**Title** Antagonistic interactions subdue inter-species green-beard cooperation in bacteria  
**Citation** Journal of Evolutionary Biology, 33(9), 1245-1255.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1111/jeb.13666>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5069>  
**Date of Publication** 2020-09

**Author(s)** Sinnott, Matthew; Malhotra, Sony; MADHUSUDHAN, M.S.; Thalassinou, Konstantinos; Topf, Maya  
**Title** Combining Information from Crosslinks and Monolinks in the Modeling of Protein Structures  
**Citation** Structure, 28(9), 1061-1070.e3.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.str.2020.05.012>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5053>  
**Date of Publication** 2020-09

**Author(s)** Sun, Ruo; Gols, Rieta; Harvey, Jeffrey A.; Reichelt, Michael; Gershenzon, Jonathan; PANDIT, SAGAR; Vassao, Daniel G.  
**Title** Detoxification of plant defensive glucosinolates by an herbivorous caterpillar is beneficial to its endoparasitic wasp  
**Citation** Molecular Ecology.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1111/mec.15613>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5081>  
**Date of Publication** 2020-08

**Author(s)** UDDIN, ASLAM; ROY, BIBHISAN; JOSE, GREGOR P.; Hossain, S. K. Saddam; HAZRA, PARTHA  
**Title** Sensing and modulation of amyloid fibrils by photo-switchable organic dots  
**Citation** Nanoscale, 12(32), 16805-16818.  
**Publisher** Royal Society of Chemistry  
**URI** <https://doi.org/10.1039/D0NR04312E>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5029>  
**Date of Publication** 2020-08

**Author(s)** Umar, Danish; SARKAR, DEBAYAN; MIRJI, GAURI; KALIA, JEET; RATH, SATYAJIT; BAL, VINEETA et al.

**Title** Febrile temperature change modulates CD4 T cell differentiation via a TRPV channel-regulated Notch-dependent pathway

**Citation** Proceedings of the National Academy of Sciences of the United States of America, 117(36), 22357-22366.

**Publisher** National Academy of Sciences

**URI** <https://doi.org/10.1073/pnas.1922683117>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5074>

**Date of Publication** 2020-09

## CHEMISTRY

**Author(s)** Danielson, Eric; Dindo, Mirco; Porkovich, Alexander J.; Kumar, Pawan; Wang, Zhenwei; JAIN, PRASHANT; METE, TRIMBAK; Ziadi, Zakaria; KIKKERI, RAGHAVENDRA; Laurino, Paola; Sowwan, Mukhles

**Title** Non-enzymatic and highly sensitive lactose detection utilizing graphene field-effect transistors

**Citation** Biosensors and Bioelectronics, 165.

**Publisher** Elsevier B.V.

**URI** <https://doi.org/10.1016/j.bios.2020.112419>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5068>

**Date of Publication** 2020-10

**Author(s)** GEORGE, JERRIN THOMAS; SRIVATSAN, SEERGAZHI G.

**Title** Bioorthogonal chemistry-based RNA labeling technologies: evolution and current state

**Citation** Chemical Communication.

**Publisher** Royal Society of Chemistry

**URI** <https://doi.org/10.1039/D0CC05228K>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5075>

**Date of Publication** 2020-09

**Author(s)** GEORGE, JERRIN THOMAS; SRIVATSAN, SEERGAZHI G.

**Title** Responsive fluorescent nucleotides serve as efficient substrates to probe terminal uridylyl transferase

**Citation** Chemical Communication.

**Publisher** Royal Society of Chemistry

**URI** <https://doi.org/10.1039/D0CC05092J>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5076>

**Date of Publication** 2020-09

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**Author(s)** Madhanagopal, Bharath Raj; More, Shahaji H; Bansode, Nitin D.; GANESH, KRISHNA N.  
**Title** Conformation and Morphology of 4-(NH<sub>2</sub>/OH)-Substituted L/D-Prolyl Polypeptides: Effect of Homo- and Heterochiral Backbones on Formation of  $\beta$ -Structures and Nanofibers  
**Citation** ACS Omega, 5(34), 21781-21795.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acsomega.0c02826>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5080>  
**Date of Publication** 2020-09

**Author(s)** MALLA, JAVID AHMAD; SHARMA, VIRENDER KUMAR; LAHIRI, MAYURIKA; TALUKDAR, PINAKI  
**Title** Esterase-Activatable Synthetic M<sup>+</sup>/Cl<sup>-</sup> Channel Induces Apoptosis and Disrupts Autophagy in Cancer Cells  
**Citation** Chemistry-A European Journal, 26(52), 11946-11949.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1002/chem.202002964>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5035>  
**Date of Publication** 2020-09

**Author(s)** MUKHOPADHYAY, SANCHAYITA; KOTTAICHAMY, ALAGAR RAJA; BHAT, ZAHID MANZOOR; DARGILY, NEETHU CHRISTUDAS; THOTIYL, MUSTHAFA OTTAKAM  
**Title** Isomerism-Activity Relation in Molecular Electrocatalysis: A Perspective  
**Citation** Electroanalysis.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1002/elan.202060244>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5073>  
**Date of Publication** 2020-08

**Author(s)** Pierini, Stefano; D'Amato, Marianna; GOYAL, MAYANK; Glorieux, Quentin; Giacobino, Elisabeth; Lhuillier, Emmanuel; Couteau, Christophe; Bramati, Alberto  
**Title** Highly Photostable Perovskite Nanocubes: Toward Integrated Single Photon Sources Based on Tapered Nanofibers  
**Citation** ACS Photonics, 7(8), 2265-2272.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acsp Photonics.0c00820>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5044>  
**Date of Publication** 2020-08

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**Author(s)** PRAJESH, NEETU; YADAV, ASHOK; GOURKHEDE, RANI; Praveenkumar, Balu; Steiner, Alexander; BOOMISHANKAR, RAMAMOORTHY  
**Title** Ferroelectric Behavior of an Octahedral Metal-Ligand Cage and Its 2D-Connected Cage Framework  
**Citation** Chemistry-An Asian Journal.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1002/asia.202000744>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5052>  
**Date of Publication** 2020-08

**Author(s)** SHIRIN, SHANA; ROY, SOUMENDU; RAO, ANISH; PILLAI, PRAMOD P.  
**Title** Accelerated Reduction of 4-Nitrophenol: Bridging Interaction Outplays Reducing Power in the Model Nanoparticle-Catalyzed Reaction  
**Citation** Journal of Physical Chemistry C, 124(35), 19157-19165.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acs.jpcc.0c06237>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5067>  
**Date of Publication** 2020-09

**Author(s)** SINDHU, POOJA; PRASOON, ANUPAM; RANA, SHAMMI; BALLAV, NIRMALYA  
**Title** Emergent Interface in Heterostructured Thin Films of Cu(II) and Cu(I) Coordination Polymers  
**Citation** Journal of Physical Chemistry Letters, 11(15), 6242-6248.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acs.jpcllett.0c01735>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5031>  
**Date of Publication** 2020-08

**Author(s)** UDDIN, ASLAM; ROY, BIBHISAN; JOSE, GREGOR P.; Hossain, S. K. Saddam; HAZRA, PARTHA  
**Title** Sensing and modulation of amyloid fibrils by photo-switchable organic dots  
**Citation** Nanoscale, 12(32), 16805-16818.  
**Publisher** Royal Society of Chemistry  
**URI** <https://doi.org/10.1039/D0NR04312E>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5029>  
**Date of Publication** 2020-08

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## MATHEMATICS

**Author(s)** AMBI, CHAITANYA  
**Title** On the growth of cuspidal cohomology of  $GL(2)$  and  $GL(3)$   
**Citation** Journal of Number Theory, 217, 237-255.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.int.2020.05.004>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5070>  
**Date of Publication** 2020-12

**Author(s)** KALELKAR, TEJAS  
**Title** Strongly irreducible Heegaard splittings of hyperbolic 3-manifolds  
**Citation** Proceedings of the American Mathematical Society, 148(10), 4527-4529.  
**Publisher** American Mathematical Society  
**URI** <https://doi.org/10.1090/proc/15114>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5038>  
**Date of Publication** 2020-10

## PHYSICS

**Author(s)** Adak, Debabrata; Ghosh, Tuhin; Boulanger, Francois; Haud, Urmas; Kalberla, Peter; Martin, Peter G; Bracco, Andrea; SOURADEEP, TARUN  
**Title** Dust polarization modelling at large scale over the northern Galactic cap using EBHIS and **Planck** data  
**Citation** Astronomy & Astrophysics, 640.  
**Publisher** EDP Sciences  
**URI** <https://doi.org/10.1051/0004-6361/201936124>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5046>  
**Date of Publication** 2020-08

**Author(s)** BISWAS, ABHIJIT; SHANKER, G. SHIVA; Das, Tisita; MANDAL, RAJESH; Chakraborty, Sudip; OGALE, SATISHCHANDRA  
**Title** Enhanced electrocatalytic oxygen evolution activity in geometrically designed  $SrRuO_3$  thin films  
**Citation** Applied Surface Science, 529.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.apsusc.2020.147065>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5050>  
**Date of Publication** 2020-11

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<b>Author(s)</b>	CHOUGALE, YASHWANT; TALUKDAR, JUGAL; Ramos, Tomás; NATH, REJISH
<b>Title</b>	Dynamics of Rydberg excitations and quantum correlations in an atomic array coupled to a photonic crystal waveguide
<b>Citation</b>	Physical Review A, 102(2).
<b>Publisher</b>	American Physical Society
<b>URI</b>	<a href="https://doi.org/10.1103/PhysRevA.102.022816">https://doi.org/10.1103/PhysRevA.102.022816</a>
<b>DR URI</b>	<a href="http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4990">http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4990</a>
<b>Date of Publication</b>	2020-08
<b>Author(s)</b>	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.
<b>Title</b>	Study of central exclusive $\pi^+ \pi^-$ production in proton-proton collisions at $\sqrt{s}=5.02$ and $13\text{TeV}$
<b>Citation</b>	European Physical Journal C, 80.
<b>Publisher</b>	Springer
<b>URI</b>	<a href="https://doi.org/10.1140/epjc/s10052-020-8166-5">https://doi.org/10.1140/epjc/s10052-020-8166-5</a>
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<b>Date of Publication</b>	2020-08
<b>Author(s)</b>	CMS Collaboration; Sirunyan, A. M.; CHAUHAN, S.; DUBE, S.; HEGDE, V.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; SHARMA, S.
<b>Title</b>	Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and pp Collisions at $\sqrt{s_{NN}}=5.02\text{TeV}$
<b>Citation</b>	Physical Review Letters, 125(10).
<b>Publisher</b>	American Physical Society
<b>URI</b>	<a href="https://doi.org/10.1103/PhysRevLett.125.102001">https://doi.org/10.1103/PhysRevLett.125.102001</a>
<b>DR URI</b>	<a href="http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5055">http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5055</a>
<b>Date of Publication</b>	2020-09
<b>Author(s)</b>	CMS Collaboration; Sirunyan, A. M.; DUBE, S.; KANSAL, B.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S. et al.
<b>Title</b>	Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at $\sqrt{s}=13\text{TeV}$
<b>Citation</b>	Physical Review D, 102(3).
<b>Publisher</b>	American Physical Society
<b>URI</b>	<a href="https://doi.org/10.1103/PhysRevD.102.032007">https://doi.org/10.1103/PhysRevD.102.032007</a>
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<b>Date of Publication</b>	2020-08

**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 events with jets and two same-sign or at least three charged leptons in proton-proton collisions at  $\sqrt{s}=13\text{TeV}$   
**Citation** European Physical Journal C, 80(8).  
**Publisher** Springer  
**URI** <https://doi.org/10.1140/epjc/s10052-020-8168-3>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5056>  
**Date of Publication** 2020-08

**Author(s)** CMS Collaboration; Sirunyan, A. M.; DUBE, S.; KANSAL, B.; KAPOOR, A.; KOTHEKAR, K.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, S.  
**Title** Search for a light pseudoscalar Higgs boson in the boosted  $\mu\mu\tau\tau$  final state in proton-proton collisions at  $\sqrt{s} = 13 \text{ TeV}$   
**Citation** Journal of High Energy Physics, 2020(8).  
**Publisher** Springer  
**URI** [https://doi.org/10.1007/JHEP08\(2020\)139](https://doi.org/10.1007/JHEP08(2020)139)  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5047>  
**Date of Publication** 2020-08

**Author(s)** Fuchs, Jean-Noel; PATIL, SOURABH; Vidal, Julien  
**Title** Parity of Chern numbers in the Kitaev honeycomb model and the sixteenfold way  
**Citation** Physical Review B, 102(11).  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevB.102.115130>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5079>  
**Date of Publication** 2020-09

**Author(s)** Ganesh, N.; Ghorai, Anaranya; KRISHNAMURTHY, SHRREYA; Banerjee, Suman; Narasimhan, K. L.; OGALE, SATISHCHANDRA B.; Narayan, K. S.  
**Title** Impact of trap filling on carrier diffusion in MAPbBr<sub>3</sub> single crystals  
**Citation** Physical Review Materials, 4(8).  
**Publisher** American Physical Society  
**URL** <https://doi.org/10.1103/PhysRevMaterials.4.084602>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5054>  
**Date of Publication** 2020-08

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**Author(s)** KUMAR, AANJANEYA; Capraro, Valerio; Perc, Matjaž  
**Title** The evolution of trust and trustworthiness  
**Citation** Journal of the Royal Society Interface, 17(169).  
**Publisher** The Royal Society  
**URI** <https://doi.org/10.1098/rsif.2020.0491>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5041>  
**Date of Publication** 2020-08

**Author(s)** MITRA, DEBARSHI; CHATTERJI, APRATIM  
**Title** Transient helix formation in charged semiflexible polymers without confinement effects  
**Citation** Journal of Physics: Condensed Matter.  
**Publisher** IOP Publishing  
**URI** <https://doi.org/10.1088/1361-648X/abbc32>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5078>  
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**Author(s)** NAIK, SUYASH; UNNI, MANU; SINHA, DEVANSHU; RAJPUT, SHATRUHAN SINGH; REDDY, P. CHANDRAMOULI; Kartvelishvily, Elena; Solomonov, Inna; Sagi, Irit; CHATTERJI, APRATIM; PATIL, SHIVPRASAD; GALANDE, SANJEEV  
**Title** Differential tissue stiffness of body column facilitates locomotion of Hydra on solid substrates  
**Citation** Journal of Experimental Biology.  
**Publisher** The Company of Biologists  
**URI** <https://doi.org/10.1242/jeb.232702>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5065>  
**Date of Publication** 2020-09

**Author(s)** PATIL, RAJ  
**Title** EFT approach to general relativity: correction to EIH Lagrangian due to electromagnetic charge  
**Citation** General Relativity and Gravitation, 52(9).  
**Publisher** Springer Nature  
**URI** <https://doi.org/10.1007/s10714-020-02748-1>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5066>  
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**Author(s)** SHARMA, DEEPAK K.; Agreda, Adrian; Barthes, Julien; Francs, Gerard Colas des; KUMAR, G. V. PAVAN; Bouhelier, Alexandre  
**Title** Wave-vector analysis of plasmon-assisted distributed nonlinear photoluminescence along Au nanowires  
**Citation** Physical Review B, 102(11).  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevB.102.115414>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5077>  
**Date of Publication** 2020-09

**Author(s)** Shukla, Aarti; Gaur, N. K; GHOSH, PRASENJIT  
**Title** First principles investigations of structure, stability and electronic properties of polar  $\text{Ca}_2\text{Fe}_2\text{O}_5(0\ 1\ 0)$  surfaces  
**Citation** Applied Surface Science, 527.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.apsusc.2020.146703>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5051>  
**Date of Publication** 2020-10

**Author(s)** SRIKARA, S.; Chandrashekar, C. M.  
**Title** Quantum direct communication protocols using discrete-time quantum walk  
**Citation** Quantum Information Processing, 19(9).  
**Publisher** Springer Nature  
**URI** <https://doi.org/10.1007/s11128-020-02793-4>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5063>  
**Date of Publication** 2020-08

**Author(s)** Yadav, Poonam; SHARMA, NEHA; Patrike, Apurva; Sabri, Ylias M.; Jones, Lathe A; Shelke, Manjusha, V.  
**Title** Electrochemical Evaluation of the Stability and Capacity of r-GO-Wrapped Copper Antimony Chalcogenide Anode for Li-Ion battery  
**Citation** ChemElectroChem, 7(15), 3291-3300.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1002/celec.202000625>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/5043>  
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