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

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## PATENT

Inventors	BRITTO, SANDANARAJ SELVARAJ; REDDY, MULLAPUDI MOHAN
Title	Method for synthesis of protein amphiphiles
Patent No	US 2020/0199175A1
Patent Office	US Patent and Trademark Office
DR URI	<a href="https://patents.google.com/patent/US20200199175A1/en?q=US+2020%2f0199175A1">https://patents.google.com/patent/US20200199175A1/en?q=US+2020%2f0199175A1</a>
DR URI	<a href="http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4933">http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4933</a>
Date of Publication	2020-06

## BOOK CHAPTERS

Author(s)	KAMAT, SIDDHESH S.; SINGH, SHUBHAM; RAJENDRAN, ABINAYA; Gama, Simanga R.; Zechel, David L.
Title	Enzymatic Strategies for the Catabolism of Organophosphonates
Citation	Comprehensive Natural Products III: Chemistry and Biology, 399-429.
Publisher	Elsevier B.V.
ISBN No.	9780124095472
URI	<a href="https://doi.org/10.1016/B978-0-12-409547-2.14617-7">https://doi.org/10.1016/B978-0-12-409547-2.14617-7</a> <a href="https://www.sciencedirect.com/science/article/pii/B9780124095472146177">https://www.sciencedirect.com/science/article/pii/B9780124095472146177</a>
DR URI	<a href="http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4863">http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4863</a>
Date of Publication	2020

Author(s)	WALUNJ, MANISHA B.; SRIVATSAN, SEERGAZHI G.
Title	Posttranscriptional Suzuki-Miyaura Cross-Coupling Yields Labeled RNA for Conformational Analysis and Imaging
Citation	RNA Tagging: Methods and Protocols, 473-486.
Publisher	Springer
ISBN No.	9781071607114; 9781071607121
URI	<a href="https://doi.org/10.1007/978-1-0716-0712-1_27">https://doi.org/10.1007/978-1-0716-0712-1_27</a>
DR URI	<a href="http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4910">http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4910</a>
Date of Publication	2020-07

# BIOLOGY

<b>Author(s)</b>	Awathale, Sanjay N.; Dudhbhate, Biru B.; Rahangdale, Rakesh R.; Borkar, Chandrashekhar D.; SUBHEDAR, NISHIKANT K.; Kokare, Dadasaheb M.
<b>Title</b>	Denial of food to the hungry rat: A novel paradigm for induction and evaluation of anger-like emotion
<b>Citation</b>	Journal of Neuroscience Methods, 341.
<b>Publisher</b>	Elsevier B.V.
<b>URI</b>	<a href="https://doi.org/10.1016/j.jneumeth.2020.108791">https://doi.org/10.1016/j.jneumeth.2020.108791</a>
<b>DR URI</b>	<a href="http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4906">http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4906</a>
<b>Date of Publication</b>	2020-07
<b>Author(s)</b>	DEY, BIPASHA
<b>Title</b>	First person - Bipasha Dey
<b>Citation</b>	Journal of Cell Science, 133(10).
<b>Publisher</b>	The Company of Biologists Ltd
<b>URI</b>	<a href="https://doi.org/10.1242/jcs.247429">https://doi.org/10.1242/jcs.247429</a>
<b>DR URI</b>	<a href="http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4904">http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4904</a>
<b>Date of Publication</b>	2020-05
<b>Author(s)</b>	DEY, BIPASHA; RIKHY, RICHA
<b>Title</b>	DE-cadherin and Myosin II balance regulates furrow length for onset of polygon shape in syncytial Drosophila embryos
<b>Citation</b>	Journal of Cell Science, 133(10).
<b>Publisher</b>	The Company of Biologists Ltd
<b>URI</b>	<a href="https://doi.org/10.1242/jcs.240168">https://doi.org/10.1242/jcs.240168</a>
<b>DR URI</b>	<a href="http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4901">http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4901</a>
<b>Date of Publication</b>	2020-05
<b>Author(s)</b>	Fruchard, Cécile; Badouin, Hélène; Latrasse, David; DEVANI, RAVI S.; Muyle, Aline; Rhoné, Bénédicte; Renner, Susanne S.; BANERJEE, ANJAN K.; Bendahmane, Abdelhafid; Marais, Gabriel A. B.
<b>Title</b>	Evidence for Dosage Compensation in <i>Coccinia grandis</i> , a Plant with a Highly Heteromorphic XY System
<b>Citation</b>	Genes, 11(7).
<b>Publisher</b>	MDPI AG
<b>URI</b>	<a href="https://doi.org/10.3390/genes11070787">https://doi.org/10.3390/genes11070787</a>
<b>DR URI</b>	<a href="http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4897">http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4897</a>
<b>Date of Publication</b>	2020-07

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**Author(s)** Katwate, Unmesh; Kumkar, Pradeep; Raghavan, Rajeev; DAHANUKAR, NEELESH  
**Title** Taxonomy and systematics of the 'Maharaja Barbs' (Teleostei: Cyprinidae), with the  
**Citation** Zootaxa, 4803(3), 544-560.  
**Publisher** Magnolia Press  
**URI** <https://doi.org/10.11646/zootaxa.4803.3.9>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4924>  
**Date of Publication** 2020-06

**Author(s)** KHAN, SOUMEN; DILSHA, C.; SHASHIDHARA, L. S.  
**Title** Haltere development in D. melanogaster: implications for the evolution of appendage size, shape and function  
**Citation** International Journal of Developmental Biology, 64(1-3), 169-175.  
**Publisher** UPV/EHU Press  
**URI** <https://doi.org/10.1387/ijdb.190133LS>  
<http://www.ijdb.ehu.es/web/descarga/paper/190133LS>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4876>  
**Date of Publication** 2020-06

**Author(s)** KONDHARE, KIRTIKUMAR R.; NATARAJAN, BHAVANI; BANERJEE, ANJAN K.  
**Title** Molecular signals that govern tuber development in potato  
**Citation** International Journal of Developmental Biology, 64(1-3), 133-140.  
**Publisher** UPV/EHU Press  
**URI** <https://doi.org/10.1387/ijdb.190132ab>  
<http://www.ijdb.ehu.es/web/descarga/paper/190132ab>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4875>  
**Date of Publication** 2020-06

**Author(s)** Mehrotra, Sonam; Bansal, Priyanka; OLI, NEHA; Pillai, Saraswathi Jayarajan; GALANDE, SANJEEV  
**Title** Defective Proventriculus Regulates Cell Specification in the Gastric Region of Drosophila Intestine  
**Citation** Frontiers in Physiology.  
**Publisher** Frontiers Media S. A.  
**URI** <https://doi.org/10.3389/fphys.2020.00711>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4900>  
**Date of Publication** 2020-07

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**Author(s)** MISHRA, ABHISHEK; TUNG, SUDIPTA; SRUTI, V. R. SHREE; SRIVATHSA, SAHANA; DEY, SUTIRTH  
**Title** Mate-finding dispersal reduces local mate limitation and sex bias in dispersal  
**Citation** Journal of Animal Ecology.  
**Publisher** British Ecological Society  
**URI** <https://doi.org/10.1111/1365-2656.13278>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4881>  
**Date of Publication** 2020-06

**Author(s)** MUNGEE, MANSI; ATHREYA, RAMANA  
**Title** Rapid photogrammetry of morphological traits of free-ranging moths  
**Citation** Ecological Entomology.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1111/een.12907>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4894>  
**Date of Publication** 2020-07

**Author(s)** Pandey, Meena; DHOLAKIA, BHUSHAN B.; Jayaramaiah, Ramesha H.; Punekar, Sachin A.; Giri, Ashok P.  
**Title** Combinatorial Approach Through In Vitro Regeneration and Phytochemical Profiling of Ceropegia media(Huber) Ans.: A Potential Way Forward in the Conservation of an Endangered Medicinal Plant from the Western Ghats in India  
**Citation** Journal of Plant Growth Regulation.  
**Publisher** Springer  
**URI** <https://doi.org/10.1007/s00344-020-10173-6>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4867>  
**Date of Publication** 2020-06

**Author(s)** SHERLEKAR, APARNA; MUNDHE, GAYATRI; RICHA, PRACHI; DEY, BIPASHA; SHARMA, SWATI; RIKHY, RICHA  
**Title** F-BAR domain protein Syndapin regulates actomyosin dynamics during apical cap remodeling in syncytial Drosophila embryos  
**Citation** Journal of Cell Science, 133(10).  
**Publisher** The Company of Biologists Ltd  
**URI** <https://doi.org/10.1242/jcs.235846>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4864>  
**Date of Publication** 2020-05

**Author(s)** Sheth, Sayali D.; Ghate, Hemant, V.; DAHANUKAR, NEELESH; Hajek, Jiri  
**Title** The first hygropetric species of Microdytes J. Balfour-Browne, 1946 (Coleoptera: Dytiscidae) from the Western Ghats, India  
**Citation** Oriental Insects.  
**Publisher** Taylor and Francis  
**URI** <https://doi.org/10.1080/00305316.2020.1787903>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4907>  
**Date of Publication** 2020-07

**Author(s)** THUKRAL, SAMEER; Kaity, Bivash; DEY, BIPASHA; SHARMA, SWATI; Nandi, Amitabha; Mitra, Mithun K.; RIKHY, RICHA  
**Title** Cyto-architecture constrains the spread of photoactivated tubulin in the syncytial Drosophila embryo  
**Citation** International Journal of Developmental Biology, 64(4-6), 285 - 297.  
**Publisher** University of the Basque Country Press  
**URI** <https://doi.org/10.1387/ijdb.190172rr>  
<http://www.ijdb.ehu.es/web/descarga/paper/190172rr>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4866>  
**Date of Publication** 2020

**Author(s)** Tiew, Pei Yee; NARAYANA, JAYANTH KUMAR et al.  
**Title** "High-Risk" Clinical and Inflammatory Clusters in COPD of Chinese Descent  
**Citation** Chest, 158(1), 145-156.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.chest.2020.01.043>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4893>  
**Date of Publication** 2020-07

## CHEMISTRY

**Author(s)** AHMAD, MANZOOR; METYA, SURAJIT; DAS, ALOKE; TALUKDAR, PINAKI  
**Title** A Sandwich Azobenzene-Diamide Dimer for Photoregulated Chloride Transport  
**Citation** Chemistry:A European Journal, 26(40), 8703-8708.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1002/chem.202000400>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4879>  
**Date of Publication** 2020-07

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**Author(s)** Gaikwad, Shahaji R.; Patel, Ketan; Deshmukh, Satej S.; Mote, Nilesh R.; Biraјdar, Rajkumar S.; Pandole, Satish P.; CHUGH, JEETENDER; Chikkali,  
**Title** Palladium-Catalyzed Insertion of Ethylene and 1,1-Disubstituted Difunctional Olefins: An Experimental and Computational Study  
**Citation** ChemPlusChem, 85(6), 1200-1209.  
**Publisher** Wiley  
**URI** <https://doi.org/10.1002/cplu.202000309>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4882>  
**Date of Publication** 2020-06

**Author(s)** GEORGE, JERRIN THOMAS; Azhar, Mohd.; Aich, Meghali; Sinha, Dipanjali; AMBI, UDDHAV B.; Maiti, Souvik; Chakraborty, Debojyoti; SRIVATSAN, SEERGAZHI G.  
**Title** Terminal Uridyl Transferase Mediated Site-Directed Access to Clickable Chromatin Employing CRISPR-dCas9  
**Citation** Journal of the American Chemical Society  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/jacs.0c06541>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4918>  
**Date of Publication** 2020-07

**Author(s)** GUPTA, MANOJ KUMAR; Madhanagopal, Bharath Raj; DATTA, DHRUBAJYOTI; GANESH, KRISHNA N.  
**Title** Structural Design and Synthesis of Bimodal PNA That Simultaneously Binds Two Complementary DNAs To Form Fused Double Duplexes  
**Citation** Organic Letters, 22(13), 5255-5260.  
**Publisher** American Chemical Society  
**URI** <https://doi.org/10.1021/acs.orglett.0c01950>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4923>  
**Date of Publication** 2020-07

**Author(s)** MOHAN, ASWATHI T.; KURIAKOSE, NISHAMOL; MONDAL, KRISHNAKANTA; GHOSH, PRASENJIT  
**Title** CO<sub>2</sub> capture, activation and dissociation on the Ti<sub>2</sub>C surface and Ti<sub>2</sub>C MXene: the role of surface structure  
**Citation** Physical Chemistry Chemical Physics, 22(26), 14599-14612.  
**Publisher** Royal Society of Chemistry  
**URI** <https://doi.org/10.1039/DOCP01700K>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4905>  
**Date of Publication** 2020-06

**Author(s)** MOHANTA, NIRMALA; NAIR, KRISHNA; SUTAR, DASHARATH VISHAMBAR; GNANAPRAKASAM, BOOPATHY  
**Title** A continuous-flow approach for the multi-gram scale synthesis of C2-alkyl- or B-amino functionalized 1,3-dicarbonyl derivatives and ondansetron drug using 1,3-dicarbonyls  
**Citation** Reaction Chemistry & Engineering, 5(8), 1501-1508.  
**Publisher** Royal Society of Chemistry  
**URI** <https://doi.org/10.1039/D0RE00171F>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4898>  
**Date of Publication** 2020-06

**Author(s)** NUTHANAKANTI, ASHOK; SRIVATSAN, SEERGAZHI G.  
**Title** Synthesis of DNA and RNA Oligonucleotides Containing a Dual-Purpose Selenium-Modified Fluorescent Nucleoside Probe  
**Citation** Current Protocols in Nucleic Acid Chemistry, 81(1).  
**Publisher** Wiley  
**URI** <https://doi.org/10.1002/cpnc.106>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4916>  
**Date of Publication** 2020-06

**Author(s)** NUTHANAKANTI, ASHOK; SRIVATSAN, SEERGAZHI G.  
**Title** Multi-stimuli responsive heterotypic hydrogels based on nucleolipids show selective dye adsorption  
**Citation** Nanoscale Advances.  
**Publisher** Royal Society of Chemistry  
**URI** <https://doi.org/10.1039/D0NA00509F>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4917>  
**Date of Publication** 2020-07

**Author(s)** PANT, RAKESH; Sengupta, Soumyadipta; Lyulin, Alexey V.; VENKATNATHAN, ARUN  
**Title** Computational investigation of a protic ionic liquid doped poly-benzimidazole fuel cell electrolyte  
**Citation** Journal of Molecular Liquids, 314.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.molliq.2020.113686>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4860>  
**Date of Publication** 2020-09

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**Author(s)** PARVIN, NASRINA; MISHRA, BIJOYANANDA; George, Anjana; NERALKAR, MAHESH; HOSSAIN, JABED; Parameswaran, Pattiyil; HOTHAN, SRINIVAS; KHAN, SHABANA

**Title** N-Heterocyclic silylene/germylene ligands in Au(i) catalysis

**Citation** Chemical Communications, 56(55), 7625-7628.

**Publisher** Royal Society of Chemistry

**URI** <https://doi.org/10.1039/D0CC03156A>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4926>

**Date of Publication** 2020-07

**Author(s)** RAVI, VIKASH KUMAR; SAIKIA, SAJID; YADAV, SHIVAM; NAWALE, VAIBHAV V.; NAG, ANGSHUMAN

**Title** CsPbBr<sub>3</sub>/ZnS Core/Shell Type Nanocrystals for Enhancing Luminescence Lifetime and Water Stability

**Citation** ACS Energy Letters, 5(6), 1794-1796.

**Publisher** American Chemical Society

**URI** <https://doi.org/10.1021/acseenergylett.0c00858>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4874>

**Date of Publication** 2020-06

**Author(s)** SONTAKKE, VYANKAT A.; SRIVATSAN, SEERGAZHI G.

**Title** A dual-app nucleoside probe reports G-quadruplex formation and ligand binding in the long terminal repeat of HIV-1 proviral genome

**Citation** Bioorganic & Medicinal Chemistry Letters, 30(16).

**Publisher** Elsevier B.V.

**URI** <https://doi.org/10.1016/j.bmcl.2020.127345>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4915>

**Date of Publication** 2020-08

**Author(s)** UBALÉ, AKASH; CHAUDHARI, MORESHWAR BHAGWAN; SHAIKH, MOSEEN A.; GNANAPRAKASAM, BOOPATHY

**Title** Manganese-Catalyzed Synthesis of Quaternary Peroxides: Application in Catalytic Deperoxidation and Rearrangement Reactions

**Citation** Journal of Organic Chemistry.

**Publisher** American Chemical Society

**URI** <https://doi.org/10.1021/acs.joc.0c00837>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4899>

**Date of Publication** 2020-07

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## EARTH AND CLIMATE SCIENCE

**Author(s)** Fernandez-Blanco, David; MANNU, UTSAV; Bertotti, Giovanni; Willett, Sean D.  
**Title** Forearc high uplift by lower crustal flow during growth of the Cyprus-Anatolian margin  
**Citation** Earth and Planetary Science Letters, 544.  
**Publisher** Elsevier B.V.  
**URI** <https://doi.org/10.1016/j.epsl.2020.116314>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4908>  
**Date of Publication** 2020-08

## HUMANITIES AND SOCIAL SCIENCES

**Author(s)** PAI, VENKETESWARA R.; Shylaja, B. S.  
**Title** The southern stars identified in Indian astronomical catalogues  
**Citation** Journal of Astrophysics and Astronomy.  
**Publisher** Springer  
**URI** <https://doi.org/10.1007/s12036-020-09636-9>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4931>  
**Date of Publication** 2020-07

## MATHEMATICS

**Author(s)** Arapostathis, Ari; BISWAS, ANUP  
**Title** A Variational Formula for Risk-Sensitive Control of Diffusions in  $\mathbb{R}^d$   
**Citation** SIAM Journal on Control and Optimization, 58(1), 85-103.  
**Publisher** Society for Industrial and Applied Mathematics  
**URI** <https://doi.org/10.1137/18M1218704>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4892>  
**Date of Publication** 2020

**Author(s)** Berchio, Elvise; GANGULY, DEBDIP; Grillo, Gabriele; Pinchover, Yehuda  
**Title** An optimal improvement for the Hardy inequality on the hyperbolic space and related manifolds  
**Citation** Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 150(4), 1699-1736.  
**Publisher** Cambridge University Press  
**URI** <https://doi.org/10.1017/prm.2018.139>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4920>  
**Date of Publication** 2020-08

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# PHYSICS

**Author(s)** ANANTH, SUDARSHAN; PANDEY, CHETAN; PANT, SAURABH

**Title** Higher spins, quadratic forms and amplitudes

**Citation** Journal of High Energy Physics, 2020(7).

**Publisher** Springer

**URI** [https://doi.org/10.1007/JHEP07\(2020\)100](https://doi.org/10.1007/JHEP07(2020)100)

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4891>

**Date of Publication** 2020-07

**Author(s)** CHOUDHURY, SAYANTANI; Patra, Aniket; Pathak, Arup Kumar; Samanta, Alok Kumar

**Title** Non-equilibrium solvation dynamics: results beyond linear response theory

**Citation** Molecular Physics: An International Journal at the Interface Between Chemistry and Physics.

**Publisher** Taylor and Francis

**URL** <https://doi.org/10.1080/00268976.2020.1779365>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4903>

**Date of Publication** 2020-06

**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** Measurements with silicon photomultipliers of dose-rate effects in the radiation damage of plastic scintillator tiles in the CMS hadron endcap calorimeter

**Citation** Journal of Instrumentation, 15.

**Publisher** IOP Publishing

**URL** <https://doi.org/10.1088/1748-0221/15/06/P06009>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4895>

**Date of Publication** 2020-06

**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** Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in PbPb collisions at  $\sqrt{s_{NN}}=2.76$  and 5.02TeV

**Citation** European Physical Journal C, 80(6).

**Publisher** Springer

**URL** <https://doi.org/10.1140/epjc/s10052-020-7834-9>

**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4909>

**Date of Publication** 2020-06

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**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** Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques  
**Citation** Journal of Instrumentation, 15.  
**Publisher** IOP Publishing  
**URL** <https://doi.org/10.1088/1748-0221/15/06/P06005>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4896>  
**Date of Publication** 2020-06

**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 measurement of the Higgs boson mass in the diphoton decay channel  
**Citation** Physics Letters B, 805.  
**Publisher** Elsevier B.V.  
**URL** <https://doi.org/10.1016/j.physletb.2020.135425>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4869>  
**Date of Publication** 2020-06

**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 dijet resonances using events with three jets in proton-proton collisions at  $\sqrt{s}=13\text{TeV}$   
**Citation** Physics Letters B, 805.  
**Publisher** Elsevier B.V.  
**URL** <https://doi.org/10.1016/j.physletb.2020.135448>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4868>  
**Date of Publication** 2020-06

**Author(s)** JAIN, SACHIN; MALVIMAT, VINAY; MEHTA, ABHISHEK; Prakash, Shiroman; SUDHIR, NIDHI  
**Title** All order exact result for the anomalous dimension of the scalar primary in Chern-Simons vector models  
**Citation** Physical Review D, 101(12).  
**Publisher** American Physical Society  
**URL** <https://doi.org/10.1103/PhysRevD.101.126017>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4880>  
**Date of Publication** 2020-06

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**Title** Many-body effects on second-order phase transitions in spinor Bose-Einstein condensates and breathing dynamics  
**Citation** Physical Review A, 102(1).  
**Publisher** American Physical Society  
**URL** <https://doi.org/10.1103/PhysRevA.102.013302>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4925>  
**Date of Publication** 2020-07

**Author(s)** MOHAN, ASWATHI T.; KURIAKOSE, NISHAMOL; MONDAL, KRISHNAKANTA; GHOSH, PRASENJIT  
**Title** CO<sub>2</sub> capture, activation and dissociation on the Ti<sub>2</sub>C surface and Ti<sub>2</sub>C MXene: the role of surface structure  
**Citation** Physical Chemistry Chemical Physics, 22(26), 14599-14612.  
**Publisher** Royal Society of Chemistry  
**URI** <https://doi.org/10.1039/D0CP01700K>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4905>  
**Date of Publication** 2020-06

**Author(s)** NIRANJAN, ANKITA; Li, Weibin; NATH, REJISH  
**Title** Landau-Zener transitions and adiabatic impulse approximation in an array of two Rydberg atoms with time-dependent detuning  
**Citation** Physical Review, 101(6).  
**Publisher** American Physical Society  
**URI** <https://doi.org/10.1103/PhysRevA.101.063415>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4846>  
**Date of Publication** 2020-06

**Author(s)** PANDEY, S; SHARMA, S.; Lobanov, A.  
**Title** Performance of CMS High Granularity Calorimeter prototypes in beam test experiments  
**Citation** Journal of Instrumentation, 15.  
**Publisher** IOP Publishing  
**URL** <https://doi.org/10.1088/1748-0221/15/06/C06028>  
**DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/4883>  
**Date of Publication** 2020-06

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