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

Author(s) KALSI, HARPREET SINGH; KARKHANIS, ANINDITA A.; NATARAJAN, BHAVANI; BHIDE, AMEY J.; BANERJEE, ANJAN K.

Title AUXIN RESPONSE FACTOR 16 (StARF16) regulates defense gene StNPR1 upon infection with necrotrophic pathogen in potato

Citation Plant Molecular Biology

Publisher Springer Nature

URI <https://doi.org/10.1007/s11103-022-01261-0>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6743>

Date of Publication 2022-04

Author(s) Kumar, Suresh; KHANDELWAL, NEHA; KAMAT, SIDDHESH S. et al.

Title Mycobacterium tuberculosis Transcription Factor EmBR Regulates the Expression of Key Virulence Factors That Aid in Ex Vivo and In Vivo Survival

Citation mBio.

Publisher American Society for Microbiology

URI <https://doi.org/10.1128/mbio.03836-21>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6776>

Date of Publication 2022-04

Author(s) PAITHANKAR, HARSHAD; TARANG, GUNEET SINGH; PARVEZ, FIRDOUSI; Marathe, Aniket; Joshi, Manali; CHUGH, JEETENDER

Title Inherent conformational plasticity in dsRBDs enables interaction with topologically distinct RNAs

Citation Biophysical Journal, 121(6), 1038-1055.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.bpj.2022.02.005>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6739>

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Author(s) PANDE, VANI; Mitra, Nivedita; BAGDE, SAKET RAHUL; Srinivasan, Ramanujam; GAYATHRI, PANANGHAT
Title Filament organization of the bacterial actin MreB is dependent on the nucleotide state
Citation Journal of Cell Biology, 221 (5), e202106092.
Publisher Rockefeller University Press
URI <https://doi.org/10.1083/jcb.202106092>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6777>
Date of Publication 2022-04

Author(s) RAHMAN, AYESHA; SHASHIDHARA, L.S.
Title Analyzing the influence of IL18 in regulation of YAP1 in breast oncogenesis using cBioportal
Citation Cancer Reports, 5(3), e1484.
Publisher Wiley
URI <https://doi.org/10.1002/cnr2.1484>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6737>
Date of Publication 2022-03

Author(s) RAWAT, MUKUL; KANYAL, ABHISHEK; Choubey, Deepak; DESHMUKH, BHAGYASHREE; MALHOTRA, RASHIM; MAMATHARANI, D.V.; RAO, ANJANI GOPAL; KARMODIYA, KRISHANPAL
Title Identification of Co-Existing Mutations and Gene Expression Trends Associated With K13-Mediated Artemisinin Resistance in Plasmodium falciparum
Citation Frontiers in Genetics, 13, 824483.
Publisher Frontiers Media S.A.
URI <https://doi.org/10.3389/fgene.2022.824483>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6744>
Date of Publication 2022-04

Author(s) Ray, Ananya; Mathur, Miti; Choubey, Deepak; KARMODIYA, KRISHANPAL; Surolia, Namita
Title Autophagy Underlies the Proteostasis Mechanisms of Artemisinin Resistance in P. falciparum Malaria
Citation mBio.
Publisher American Society for Microbiology
URI <https://doi.org/10.1128/mbio.00630-22>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6780>
Date of Publication 2022-04

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Author(s) SATHE, RUPALI R. M.; Paerl, Ryan W.; HAZRA, AMRITA B.
Title Exchange of Vitamin B1 and Its Biosynthesis Intermediates Shapes the Composition of Synthetic Microbial Cocultures and Reveals Complexities of Nutrient Sharing
Citation Journal of Bacteriology, 204(4).
Publisher American Society for Microbiology
URI <https://doi.org/10.1128/jb.00503-21>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6784>
Date of Publication 2022-04

Author(s) Sethumadhavan, DevadathanValiyamangalath; Tiburcio, Marta; KANYAL, ABHISHEK; Jabeena, C.A.; Govindaraju, Gayathri; KARMODIYA, KRISHANPAL; Rajavelu, Arumugam
Title Chromodomain protein interacts with H3K9me3 and controls RBC rosette formation by regulating the expression of a subset of RIFINs in the malaria parasite
Citation Journal of Molecular Biology.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.jmb.2022.167601>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6779>
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CHEMISTRY

Author(s) AMBHOORE, MADAN D.; PANCHAL, SANTOSH P.; Mondal, Arpan; Konar, Sanjit; ANAND, V.G.

Title Reversible redox switching between local and global aromaticity for core-modified expanded carbaisophlorinoids

Citation Organic & Biomolecular Chemistry

Publisher Royal Society of Chemistry

URI <https://doi.org/10.1039/D1OB02230J>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6745>

Date of Publication 2022-03

Author(s) Deokar, Megha D.; Garnaik, Baijayantimala; SIVARAM, SWAMINATHAN

Title Toughening Poly(l-lactide) Blends: Effectiveness of Sequence-Controlled Six-Arm Star-Branched Block Copolymers of Poly(l-lactide) and Poly(ϵ -caprolactone)

Citation ACS Omega, 7(11), 9118-9129.

Publisher American Chemical Society

URI <https://doi.org/10.1021/acsomega.1c04486>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6783>

Date of Publication 2022-03

Author(s) GHOSH, SUDEB; PURANIK, MRINALINI

Title Initial Excited State Dynamics of Lumichrome upon Ultraviolet Excitation

Citation Photochemistry and Photobiology

Publisher Wiley

URI <https://doi.org/10.1111/php.13631>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6775>

Date of Publication 2022-04

Author(s) GUPTA, ABHIJIT; MUKHERJEE, ARNAB

Title Capturing surface complementarity in proteins using unsupervised learning and robust curvature measure

Citation Proteins-Structure Function and Bioinformatics.

Publisher Wiley

URI <https://doi.org/10.1002/prot.26345>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6781>

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Author(s) Krishnan, Sangeeth; M.G, Maya; Das, Akhil; Ganesan, Krithika; Bhargavan, Suja; SIVARAM, SWAMINATHAN; Vadivelu, Prabha; Ragupathy, Lakshminarayanan

Title In-situ interfacial compatibilization via edge-sulfurated few layer graphene during the formation of crosslinked graphene-rubber nanocomposites

Citation Scientific Reports, 12, 4013.

Publisher Springer Nature

URI <https://doi.org/10.1038/s41598-022-08071-w>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6791>

Date of Publication 2022-03

Author(s) LAHA, DEBASISH; MEHER, KAJAL B.; BANKAR, ONKAR S.; BHAT, RAMAKRISHNA G.

Title Silver-Catalyzed One-Pot Access to Diastereoselective Benzo[5,6]oxepino[2,3-c]pyrroles via Formal (5+2)-Annulation of Donor-/Acceptor-Type Aryl Vinyl Diazosuccinimide with Ketones

Citation Asian Journal of Organic Chemistry, 11(4), e202200062.

Publisher Wiley

URI <https://doi.org/10.1002/ajoc.202200062>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6752>

Date of Publication 2022-03

Author(s) PAITHANKAR, HARSHAD; TARANG, GUNEET SINGH; PARVEZ, FIRDOUSI; Marathe, Aniket; Joshi, Manali; CHUGH, JEETENDER

Title Inherent conformational plasticity in dsRBDs enables interaction with topologically distinct RNAs

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DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6739>

Date of Publication 2022-03

Author(s) Ramachandran, Mridhul R. K.; Schnakenburg, Gregor; MAJUMDAR, MOUMITA; Kelemen, Zsolt; Gal, Dalma; Nyulaszi, Laszlo; Boere, Rene T.; Streubel, Rainer K.

Title Reversible Redox Chemistry of Anionic Imidazole-2-thione-Fused 1,4-Dihydro-1,4-diphosphinines

Citation Inorganic Chemistry, 61(11), 4639-4646.

Publisher American Chemical Society

URI <https://doi.org/10.1021/acs.inorgchem.1c03620>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6769>

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Author(s) Rawat, Shivam; KOTTAICHAMY, ALAGAR RAJA; BHAT, ZAHID MANZOOR; HOTH, SRINIVAS; THOTIYL, MUSTHAFA OTTAKAM; Bhaskar, Thallada
Title Investigation of saccharide-based carbons for charge storage applications
Citation Biomass Conversion and Biorefinery.
Publisher Springer Nature
URI <https://doi.org/10.1007/s13399-022-02671-2>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6773>
Date of Publication 2022-04

Author(s) SATHE, RUPALI R. M.; Paerl, Ryan W.; HAZRA, AMRITA B.
Title Exchange of Vitamin B1 and Its Biosynthesis Intermediates Shapes the Composition of Synthetic Microbial Cocultures and Reveals Complexities of Nutrient Sharing
Citation Journal of Bacteriology, 204(4).
Publisher American Society for Microbiology
URI <https://doi.org/10.1128/jb.00503-21>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6784>
Date of Publication 2022-04

Author(s) SIVARAM, SWAMINATHAN
Title Advanced and Functional Materials Based on Cellulose and Wood: A Sustainable Biopolymer Derived from Polysaccharides
Citation Trends in Carbohydrate Research, 13(4), 11-18.
Publisher Dr. P.L.Soni
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6751>
Date of Publication 2021

Author(s) TIWARI, OM SHANKER; GANESH, KRISHNA N.; Gaze, Ehud
Title Effect of Stereochemistry and Hydrophobicity on the Self-Assembly of Phe-Phe-Nucleoside Conjugates
Citation Macromolecular Chemistry and Physics.
Publisher Wiley
URI <https://doi.org/10.1002/macp.202200011>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6785>
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EARTH AND CLIMATE SCIENCE

Author(s) Kumar, V. Pavan; Gupta, Sandeep; Borah, Kajaljyoti; Prakasam, K. S.; RAI, SHYAM S.

Title Seismic anisotropy beneath the Kumaun-Garhwal Himalaya using core-refracted shear wave phases

Citation Geophysical Journal International, 229(3), 1978-1989.

Publisher Oxford University Press

URI <https://doi.org/10.1093/gji/ggac043>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6750>

Date of Publication 2022-06

Author(s) KUMAR, VIVEK; RAI, SHYAM S.

Title Complex seismic image of the Main Himalayan Thrust in Garhwal and implication to earthquake hazard

Citation Journal of Earth System Science, 131(2), 79.

Publisher Springer Nature

URI <https://doi.org/10.1007/s12040-022-01809-0>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6742>

Date of Publication 2022-03

Author(s) Wang, Xu; Zhang, Guang J.; ETTAMMAL, SUHAS

Title Assessing free tropospheric quasi-equilibrium for different GCM resolutions using a cloud-resolving model simulation of tropical convection

Citation Climate Dynamics, 297.

Publisher Springer Nature

URI <https://doi.org/10.1007/s00382-022-06232-1>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6757>

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HUMANITIES AND SOCIAL SCIENCES

Author(s) Nair, Jyoti; THOMAS, BEJOY K.
Title Why is adoption of micro-irrigation slow in India? a review
Citation Development in Practice.
Publisher Taylor & Francis
URI <https://doi.org/10.1080/09614524.2022.2059065>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6755>
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MATHEMATICS

Author(s) Das, Milan Kumar; GOSWAMI, ANINDYA; Rajani, Sharan
Title Inference of Binary Regime Models with Jump Discontinuities
Citation Sankhya B.
Publisher Springer Nature
URI <https://doi.org/10.1007/s13571-022-00277-2>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6747>
Date of Publication 2022-04

Author(s) Kannan, M. Rajesh; Pragada, Shivaramakrishna; WANKHEDE, HITESH
Title On the construction of cospectral nonisomorphic bipartite graphs
Citation Discrete Mathematics, 348(8), 112916.
Publisher Elsevier B.V.
URI <https://doi.org/10.1016/j.disc.2022.112916>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6746>
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PHYSICS

- Author(s)** Barman, Subhdeep; Kumar, Jagadish; Das, Arnab Kumar; Sikdar, Suranjan; BISWAS, ABHIJIT; Srinivasan, Ananthakrishnan; Das, Rahul
- Title** Comparative Study of ZnO Nanomaterials Synthesized by Green and Electrospinning Methods
- Citation** Journal of Nano Research, 72, 81-93.
- Publisher** Trans Tech Publications Ltd.
- URI** <https://doi.org/10.4028/p-vv17a6>
- DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6753>
- Date of Publication** 2022-04
-
- Author(s)** BHANDARI, LALIT S.; THALAPILLIL, ARUN M.
- Title** Exploring millicharged dark matter components from the shadows
- Citation** Journal of Cosmology and Astroparticle Physics, 2022, 043.
- Publisher** IOP Publishing
- URI** <https://doi.org/10.1088/1475-7516/2022/03/043>
- DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6749>
- Date of Publication** 2022-04
-
- Author(s)** BHATTACHARJEE, DEBESH; SUBRAMANIAN, PRASAD; Bothmer, Volker; Nieves-Chinchilla, Teresa; Vourlidis, Angelos
- Title** On Modeling ICME Cross-Sections as Static MHD Columns
- Citation** Solar Physics, 297, 45.
- Publisher** Springer Nature
- URI** <https://doi.org/10.1007/s11207-022-01982-x>
- DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6754>
- Date of Publication** 2022-04
-
- Author(s)** CMS Collaboration; Tumasyan, A.; DUBE, SOURABH; KANSAL, B.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.
- Title** Fragmentation of jets containing a prompt J/psi meson in PbPb and pp collisions at root s(NN)=5.02 TeV
- Citation** Physics Letters B, 825, 136842.
- Publisher** Elsevier B.V.
- URI** <https://doi.org/10.1016/j.physletb.2021.136842>
- DR URI** <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6771>
- Date of Publication** 2022-02

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Author(s) CMS Collaboration; Sirunyan, A. M.; ALPANA, K.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.

Title Measurement of $W^\pm\gamma$ differential cross sections in proton-proton collisions at $\sqrt{s}=13$ TeV and effective field theory constraints

Citation Physical Review D, 105(5).

Publisher American Physical Society

URI <https://doi.org/10.1103/PhysRevD.105.052003>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6741>

Date of Publication 2022-03

Author(s) CMS Collaboration; Tumasyan, A.; ALPANA, K.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.

Title Search for long-lived particles decaying into muon pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV collected with a dedicated high-rate data stream

Citation Journal of High Energy Physics, 2022(4), 62.

Publisher Springer Nature

URI [https://doi.org/10.1007/JHEP04\(2022\)062](https://doi.org/10.1007/JHEP04(2022)062)

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6774>

Date of Publication 2022-04

Author(s) CMS Collaboration; Tumasyan, A.; DUBE, SOURABH; KANSAL, B.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.

Title Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV

Citation Journal of High Energy Physics, 2022(3), 189.

Publisher Springer Nature

URI [https://doi.org/10.1007/JHEP03\(2022\)189](https://doi.org/10.1007/JHEP03(2022)189)

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6778>

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Author(s) CMS Collaboration; Tumasyan, A.; ALPANA, K.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.

Title A new calibration method for charm jet identification validated with proton-proton collision events at $\sqrt{s} = 13$ TeV

Citation Journal of Instrumentation, 17(3), P03014.

Publisher IOP Publishing

URI <https://doi.org/10.1088/1748-0221/17/03/P03014>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6756>

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Author(s) CMS Collaboration; Tumasyan, A.; ALPANA, K.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al

Title Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV

Citation Journal of High Energy Physics, 2022(4), 47.

Publisher Springer Nature

URI [https://doi.org/10.1007/JHEP04\(2022\)047](https://doi.org/10.1007/JHEP04(2022)047)

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6786>

Date of Publication 2022-04

Author(s) CMS Collaboration; Tumasyan, A.; ALPANA, K.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.

Title Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV

Citation Journal of High Energy Physics, 2022(4), 87.

Publisher Springer Nature

URI [https://doi.org/10.1007/JHEP04\(2022\)087](https://doi.org/10.1007/JHEP04(2022)087)

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6787>

Date of Publication 2022-04

Author(s) CMS Collaboration; Tumasyan, A.; ALPANA, K.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.

Title Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s} = 13$ TeV

Citation Journal of High Energy Physics, 2022(4), 48.

Publisher Springer Nature

URI [https://doi.org/10.1007/JHEP04\(2022\)048](https://doi.org/10.1007/JHEP04(2022)048)

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6788>

Date of Publication 2022-04

Author(s) CMS Collaboration; Tumasyan, A.; DUBE, SOURABH; KANSAL, B.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.

Title Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s}=13\text{TeV}$

Citation European Physical Journal C, 82(4), 290.

Publisher Springer Nature

URI <https://doi.org/10.1140/epjc/s10052-022-10127-0>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6772>

Date of Publication 2022-04

Author(s) CMS collaboration; Tumasyan, A.; ALPANA, K.; DUBE, SOURABH; KANSAL, B.; LAHA, A.; PANDEY, S.; RANE, A.; RASTOGI, A.; SHARMA, SEEMA et al.

Title Search for long-lived particles produced in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$

Citation Journal of High Energy Physics, 2022(3), 160.

Publisher Springer Nature

URI [https://doi.org/10.1007/JHEP03\(2022\)160](https://doi.org/10.1007/JHEP03(2022)160)

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6748>

Date of Publication 2022-03

Author(s) Khorwal, Abhinav Kumar; Nancy; Dash, Shubhra; KUMAR, ARUN; Lukoyanov, A. V.; Shreder, E. I.; Bitla, Yugandhar; Vasundhara, M.; Patra, Ajit K.

Title Evidence for canonical spin glass behaviour in polycrystalline $\text{Mn}_{1.5}\text{Fe}_{1.5}\text{Al}$ Heusler alloy

Citation Journal of Magnetism and Magnetic Materials, 546, 168752.

Publisher Elsevier B.V.

URI <https://doi.org/10.1016/j.jmmm.2021.168752>

DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6770>

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Author(s) LIGO Scientific Collaboration; Virgo Collaboration; KAGRA Collaboration; Abbott, R.; RAPOL, UMAKANT D.; SOURADEEP, TARUN et al.

Title Search for intermediate-mass black hole binaries in the third observing run of Advanced LIGO and Advanced Virgo

Citation Astronomy & Astrophysics, 659.

Publisher EDP Sceinces

URI <https://doi.org/10.1051/0004-6361/202141452>

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Author(s) PATHAK, MAYANK; Majumdar, Parthasarathi
Title Towards an Acoustic Geometry in Slightly Viscous Fluids
Citation Universe, 8(4), 205.
Publisher MDPI
URI <https://doi.org/10.3390/universe8040205>
DR URI <http://dr.iiserpune.ac.in:8080/xmlui/handle/123456789/6782>
Date of Publication 2022-03

Author(s) PAUL, DIPTABRATA; Sharma, Deepak K; KUMAR, G. V. PAVAN
Title Simultaneous Detection of Spin and Orbital Angular Momentum of Light through Scattering from a Single Silver Nanowire
Citation Laser & Photonics Reviews.
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