

Department of Physics, University of Jammu



Research Publications

2019

S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal		
							Link to website of the Journal	Link to article/paper /abstract of the article	Is it listed in UGC Care list/Scopus /Web of Science /other, mention
1	Facile growth of SnS and SnS _{0.40} Se _{0.60} thin films as an absorber layer in the solar cell structure	Arun Banotra & Naresh Padha	Physics	Materials Today: Proceedings	2019	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/pii/S2214785319338398	UGC Care list/Scopus/ Web of Science
2	Development of SnS nanocrystals and tuning of parameters for use as spectral selective photoabsorbers	Arun Banotra & Naresh Padha	Physics	Journal of Crystal Growth	2019	0022-0248	https://www.sciencedirect.com/journal/journal-of-crystal-growth	https://www.sciencedirect.com/science/article/pii/S002202481930675X	UGC Care list/Scopus/ Web of Science
3	SnTexSe _{1-x} Alloy: An Effective Alternative to SnSe Nano-crystalline Thin Films	Anjali Devi, Arun Banotra, Shiv Kumar, Ashok K.	Physics	Journal of Electronic Materials	2019	0361-5235	https://www.springer.com/journal/11664	https://link.springer.com/article/10.1007/s11664-019-07202-w	UGC Care

	for Optoelectronic Applications	Kapoor & Naresh Padha							list/Scopus/ Web of Science
4	In-depth behavioral study of L-Proline single crystals: An efficient candidate for NLO properties	Kanika Thukral, N Vijayan, Anuj Krishna, Budhendra Singh, RAJNI KANT , V Jayaramakrishnan, MS Jayalakshmy, Milanpreet Kaur	Physics	Arabian J Chem.	2019	1878-5352	https://www.journals.elsevier.com	https://doi.org/10.1016/j.arabjc.2016.09.011	Yes-Scopus
5	Enantio- and Diastereoselective Two-Pot Synthesis of Isoquinolidines from Glutaraldehyde and N-Aryl Imines with DFT Calculations	Panduga Ramaraju, Amol Prakash Pawar, Eldhose Iype, Nisar A Mir, Sachin Choudhary, Devinder Kumar Sharma, RAJNI KANT , Indresh Kumar	Physics	ACS The Journal of Organic Chem.	2019	0022-3263	https://pubs.acs.org	https://doi.org/10.1021/acs.joc.9b01865	Yes

6	Synthesis and crystallographic structure analysis of 4,4'-oxydianiline	G.Sharma, S.Anthal, D.V.Geetha, F.H.Al-Ostoot, M.Q.A.Al-Gunaid, S.A.Khanum, M.A.Sridhar, <u>RAJNI KANT</u>*	Physics	Rasayan Journal of Chemistry	2019	0974-14 96	http://rasayanjournal.co.in	http://dx.doi.org/10.31788/RJC.2019.1245305	Yes
7	1-(Cycloheptylidene)thiosemicarbazide	Mulveer Singh, Sumati Anthal, Sandeep S. Sankpal, Madhukar B. Deshmukh and <u>RAJNI KANT</u>*	Physics	IUCr Data	2019	2414-31 46	https://iucrdata.iucr.org	http://dx.doi.org/10.31788/RJC.2019.1245305	Yes-Scopus
8	Do Hydrogen Bonding and Noncovalent Interactions Stabilize Nicotinamide-Picric Acid Cocrystal Supramolecular Assembly?	U. Likhitha, B. K. Sarojini, Anupam G Lobo, Gopal Sharma, Surbhi Pathania, <u>RAJNI KANT</u>, B. Narayana	Physics	Journal of Molecular Structure	2019	0022-28 60	https://www.journals.elsevier.com	https://doi.org/10.1016/j.molstruc.2019.06.037	Yes
9	Synthesis, structure and molecular docking analysis of an anticancer drug of	Gopal Sharma, Sumati Anthal, D. V.	Physics	Molecular Crystals	2019	1563-52 87	https://www.tandfonline.com	https://doi.org/10.1080/15421406.2019.1624051	Yes

	N-(2-aminophenyl)-2-(2-isopropylphenoxy)acetamide	Geetha, Fares Hezam Al-Ostoot, Yasser Hussein Eissa Mohammed, Shaukath Ara Khanum, M. A. Sridhar and <u>RAJNI KANT*</u>		Liquid Crystals					
10	Synthesis, spectroscopic and X-ray crystallographic analysis of N-(2-(2-(4-chlorophenoxy)acetamido)phenyl)-1H-indole-2-carboxamide (C ₂₃ H ₁₈ ClN ₃ O ₃)	Fares Hezam Al-Ostoot, Jigmat Stodus, Sumati Anthal, D. V. Geetha, Yasser Hussein Eissa Mohd., M. A. Sridhar, S.A. Khanum and <u>RAJNI KANT*</u>	Physics	European Journal of Chemistry	2019	2153-2249	www.eurjchem.com	https://doi.org/10.5155/eurjchem.10.3.234-238.1874	Yes
11	A simple route to tetracyclic oxazepine-fused pyrroles via metal-free [3+2] annulation	Sachin Choudhary, A. Singh, Jyothi Yadav, N. A. Mir, Sumati	Physics	RSC New Journal of Chemistry	2019	1144-0546	https://www.rsc.org	https://doi.org/10.1039/C8NJ04861D	Yes

	between dibenzo[b,f][1,4]oxazepines and aqueous succinaldehyde	Anthal, RAJNI KANT and Indresh Kumar							
12	Synthesis and Crystal Structure Analysis of 4-(2-(4-Chloro-phenyl)-4,5-diphenyl-1H-imidazol-1-yl)-2,3-dimethyl-1-phenyl-1,2-dihydropyrazol-5-one	Gopal Sharma, Sumati Anthal, A. Jayashree, B. Narayana, B. K. Sarojini and RAJNI KANT*	Physics	Rasayan Journal of Chemistry	2019	0974-1496	http://rasayanjournal.co.in	http://dx.doi.org/10.31788/RJC.2019.1225157	Yes
13	2,4-dichloro-N-(2,5-dioxopyrrolidin-1-yl)benzamide	Jigmat Stodus, Sumati Anthal, S. Karanth, B. Narayana, B. K. Sarojini and RAJNI KANT*	Physics	IUCr Data	2019	2414-3146	https://iucrdata.iucr.org	https://doi.org/10.1107/S2414314618017406	Yes-Scopus
14	A combined experimental and computational studies of 3,3,6,6-Tetramethyl-9-(4-Methoxyphenyl)3,4,6,7,9,10-hexahydroacridine-1,8-dione”	Ujval Gupta, Anshul Uppal, RAJNI KANT , Yugal Khajuria	Physics	Molecular Physics	2019	0026-8976	https://www.tandfonline.com	https://doi.org/10.1080/00268976.2018.1540804	Yes

15	Investigation on the key aspects of L-arginine para nitrobenzoate monohydrate (LANB) single crystal: A Non-Linear Optical (NLO) material	Sonia Ahlawat, N. Vijayan, M. Vij, Kanika Thukral, N. Khan, D. Haranath, <u>RAJNIKANT</u> , M.S. Jayalakshmy	Physics	Chinese Journal of Chemical Engineering	2019	1004-9541	https://www.journals Elsevier.com	https://doi.org/10.1016/j.cjche.2018.06.029	Yes
16	Relative particle yield fluctuations in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV	Shreya Acharya,..... Prof. Anju Bhasin, Prof. Sanjeev S. Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)	Physics	Eur.Phys.J. C	2019	1434-6052	https://epjc.epj.org/	10.1140/epjc/s10052-019-6711-x	
17	Direct photon production at low transverse momentum in proton-proton collisions at $\sqrt{s_{NN}} = 2.76$ and 8 TeV	Shreya Acharya,..... Prof. Anju Bhasin, Prof. Sanjeev S. Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)	Physics	PHYSICAL REVIEW C	2019	2469-9993	https://journals.aps.org/prc/	10.1103/PhysRevC.99.024912	
18	Charged-particle pseudorapidity density at mid-rapidity in p-Pb	Shreyasi Acharya,..... Prof. Anju	Physics	<i>Eur.Phys.J.C</i> 79 (2019) 4,	2019	1434-6044	https://www.springer.com/journal/10052/	https://link.springer.com/article/10.1140%2Fepjc%2Fs10052-019-680	Yes

	collisions at $\sqrt{s_{\text{NN}}}$ = 8.16 TeV	Bhasin, Prof. Sanjeev S. Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)		307				1-9	
19	Real-time data processing in the ALICE High Level Trigger at the LHC	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof. Sanjeev S. Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)	Physics	<i>Comput. Phys. Commun.</i> 242 (2019) 25-48	2019	0010-4655	https://www.sciencedirect.com/journal/computer-physics-communications	https://www.sciencedirect.com/science/article/abs/pii/S0010465519301250?via%3Dihub	Yes
20	Event-shape and multiplicity dependence of freeze-out radii in pp collisions at $\sqrt{s} = 7$ TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof. Sanjeev S. Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)	Physics	<i>JHEP</i> 09 (2019) 108	2019	1126-6708	https://www.springer.com/journal/13130	https://link.springer.com/article/10.1007%2FJHEP09%282019%29108	Yes
21	Measurement of D^0 , D^+ , D^{*+} and D_s^+ production in pp collisions at $\sqrt{s} = 5.02$ TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof. Sanjeev S. Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)	Physics	<i>Eur. Phys. J. C</i> 79 (2019) 5, 388	2019	1434-6044	https://www.springer.com/journal/10052	https://link.springer.com/article/10.1140%2Fepjc%2Fs10052-019-6873-6	Yes

	TeV with ALICE								
22	Calibration of the photon spectrometer PHOS of the ALICE experiment	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)	Physics	<i>JINST</i> 14 (2019) 05, P05025	2019	1748-0221	https://iopscience.iop.org/volume/1748-0221/14	https://iopscience.iop.org/article/10.1088/1748-0221/14/05/P05025	Yes
23	Multiplicity dependence of (anti-)deuteron production in pp collisions at $\sqrt{s} = 7$ TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)	Physics	<i>Phys.Lett.B</i> 794 (2019) 50-63	2019	0370-2693	https://www.sciencedirect.com/journal/physics-letters-b	https://www.sciencedirect.com/science/article/pii/S0370269319303387?via%3Dihub	yes
24	Investigations of Anisotropic Flow Using Multiparticle Azimuthal Correlations in pp, p-Pb, Xe-Xe, and Pb-Pb Collisions at the LHC	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)	Physics	<i>Phys.Rev.Lett.</i> 123 (2019) 14, 142301	2019	0031-9007	https://journals.aps.org/prl/	https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.123.142301	yes
25	Measurement of strange baryon–antibaryon interactions with femtoscopic correlations	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S.	Physics	: <i>Phys.Lett.B</i> 802 (2020)	2019	0370-2693	https://www.sciencedirect.com/journal/physics-letters-b	https://www.sciencedirect.com/science/article/pii/S0370269320300277?via%3Dihub	yes

		Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)		135223					
26	One-dimensional charged kaon femtoscopy in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)	Physics	<i>Phys.Rev.C</i> 100 (2019) 2, 024002	2019	2469-9985	https://journals.aps.org/prc/	https://journals.aps.org/prc/abstract/10.1103/PhysRevC.100.024002	yes
27	Coherent J/ψ photoproduction at forward rapidity in ultra-peripheral Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)	Physics	<i>Phys.Lett.B</i> 798 (2019) 134926	2019	0370-2693	https://www.sciencedirect.com/journal/physics-letters-b	https://www.sciencedirect.com/science/article/pii/S0370269319306483?via%3Dihub	yes
28	First Observation of an Attractive Interaction between a Proton and a Cascade Baryon	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)	Physics	<i>Phys.Rev.Lett.</i> 123 (2019) 11, 112002	2019	0031-9007	https://journals.aps.org/prl/	https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.123.112002	yes
29	Measurement of jet radial	Shreyasi	Physics	<i>Phys.Lett.B</i>	2019	0370-2693	https://www.sciencedirect.com/journal/physics-letters-b	https://www.sciencedirect.com/science/article/pii/S0370269319306483?via%3Dihub	yes

	profiles in Pb—Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV	Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta.....etal.,(ALICE Collaboration)		796 (2019) 204-219			com/journal/physics-letters-b	ct.com/science/article/pii/S0370269319304769?via%3Dihub	
30	Exploration of jet substructure using iterative declustering in pp and Pb–Pb collisions at LHC energies	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta.....etal.,(ALICE Collaboration)	Physics	<i>Phys.Lett.B</i> 802 (2020) 135227	2019	0370-2693	https://www.sciencedirect.com/journal/physics-letters-b	https://www.sciencedirect.com/science/article/pii/S0370269320300319?via%3Dihub	yes
31	Measurement of charged jet cross section in ppppp collisions at $\sqrt{s}=5.02$ TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta.....etal.,(ALICE Collaboration)	Physics	<i>Phys.Rev.D</i> 100 (2019) 9, 092004	2019	2470-0010	https://journals.aps.org/prd/	https://journals.aps.org/prd/abstract/10.1103/PhysRevD.100.092004	yes
32	Measurement of the production of charm jets tagged with D_0^0 mesons in pp collisions at $\sqrt{s}=7$ TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta.....etal.	Physics	<i>JHEP</i> 08 (2019) 133	2019	1126-6708	https://www.springer.com/journal/13130	https://link.springer.com/article/10.1007%2FJHEP08%282019%29133	yes

		al.,(ALICE Collaboration)							
33	Inclusive J/ψ production at mid-rapidity in pp collisions at $\sqrt{s} = 5.02$ TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)	Physics	<i>JHEP</i> 10 (2019) 084	2019	1126-6708	https://www.springer.com/journal/13130	https://link.springer.com/article/10.1007%2FJHEP10%282019%29084	yes
34	Charged-particle production as a function of multiplicity and transverse sphericity in pp collisions at $\sqrt{s} = 5.02$ and 13 TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)	Physics	<i>Eur.Phys.J.C</i> 79 (2019) 10, 857	2019	1434-6044	https://www.springer.com/journal/10052	https://link.springer.com/article/10.1140%2Fepjc%2Fs10052-019-7350-y	yes
35	Production of muons from heavy-flavour hadron decays in pp collisions at $\sqrt{s} = 5.02$ TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)	Physics	<i>JHEP</i> 09 (2019) 008	2019	1126-6708	https://www.springer.com/journal/13130	https://link.springer.com/article/10.1007%2FJHEP09%282019%29008	yes
36	Study of the $\Lambda\Lambda$ interaction with femtoscopy correlations in pp and p-Pb	Shreyasi Acharya,..... Prof. Anju Bhasin,	Physics	<i>Phys.Lett.B</i> 797 (2019)	2019	0370-2693	https://www.sciencedirect.com/journal/physics-letters-b	https://www.sciencedirect.com/science/article/pii/S0370269319305362?via%3Dihub	yes

	collisions at the LHC	Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)		134822					
37	Scattering studies with low-energy kaon-proton femtoscopy in proton-proton collisions at the LHC	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)	Physics	<i>Phys.Rev.Lett.</i> 124 (2020) 9, 092301	2019	0031-9007	https://journals.aps.org/prl/	https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.124.092301	yes
38	Measurement of the inclusive isolated photon production cross section in pp collisions at $\sqrt{s}=7$ TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)	Physics	<i>Eur.Phys.J.C</i> 79 (2019) 11, 896	2019	1434-6044	https://www.springer.com/journal/10052	doi:10.1140/epjc/s10052-019-7389-9	yes
39	Measurement of prompt D^0 , D^+ , D^{*+} and D_s^+ production in p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)	Physics	<i>JHEP</i> 12 (2019) 092	2019	1126-6708	https://jhep.sissa.it/jhep/	doi:10.1007/JHEP12(2019)092	yes

40	Measurement of $\gamma(1S)$ elliptic flow at forward rapidity in Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)	Physics	<i>Phys.Rev.Lett.</i> 123 (2019) 19, 192301	2019	0031-9007	https://journals.aps.org/prl	doi:10.1103/PhysRevLett.123.192301	yes
41	$^3_{\Lambda}H$ and $^3_{\Sigma}H$ lifetime measurement in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV via two-body decay	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta.....et al.,(ALICE Collaboration)	Physics	<i>Phys.Lett.B</i> 797 (2019) 134905	2019	0370-2693	https://www.journals.elsevier.com/physics-letters-b	doi:10.1016/j.physletb.2019.134905	yes
42	Constraining the initial conditions and temperature dependent viscosity with three-particle correlations in Au+Au collisions	Leszek Adamczyk,.....Prof. Anju Bhasin.....et al.,(STAR Collaboration)	Physics	<i>Phys.Lett.B</i> 790 (2019) 81-88	2019	0370-2693	https://www.journals.elsevier.com/physics-letters-b	10.1016/j.physletb.2018.10.075	yes
43	Longitudinal double-spin asymmetry for inclusive jet and dijet production in pp collisions at $\sqrt{s_{NN}} = 510$ GeV	J. Adam,.....Prof. Anju Bhasin.....et al.,(STAR Collaboration)	Physics	<i>Phys.Rev.D</i> 100 (2019) 5	2019	2470-0029	https://journals.aps.org/prd	10.1103/PhysRevD.100.052005	yes
44	Measurement of inclusive J/ψ suppression in Au+Au	Jaroslav Adam,.....Prof. Anju Bhasin.....et al.,(STAR	Physics	<i>Phys.Lett.B</i> 797 (2019)	2019	0370-2693	https://www.sciencedirect.com/journal/physics-letters-b	10.1016/j.physletb.2019.134917	yes

	collisions at $\sqrt{s_{NN}} = 200$ GeV through the dimuon channel at STAR	Collaboration)							
45	Measurements of the transverse-momentum-dependent cross sections of J/ψ production at mid-rapidity in proton+proton collisions at $\sqrt{s_{NN}} = 510$ and 500 GeV with the STAR detector	Jaroslav Adam,.....Prof. Anju Bhasin....et al.,(STAR Collaboration)	Physics	<i>Phys.Rev.D</i> 100 (2019) 5	2019	2470-0010	https://journals.aps.org/prd	https://doi.org/10.1103/PhysRevD.100.052009	yes
46	The Proton- Ω correlation function in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV	Jaroslav Adam,.....Prof. Anju Bhasin....et al.,(STAR Collaboration)	Physics	<i>Physics Letters B</i> 790 (2019)	2019	0370-2693	https://www.sciencedirect.com/journal/physics-letters-b	https://doi.org/10.1016/j.physletb.2019.01.055	yes
47	Measurement of the longitudinal spin asymmetries for weak boson production in proton-proton collisions at $\sqrt{s} = 510$ GeV	Jaroslav Adam,.....Prof. Anju Bhasin....et al.,(STAR Collaboration)	Physics	<i>Phys.Rev.D</i> 99 (2019) 5	2019	2470-0010	https://journals.aps.org/prd	https://doi.org/10.1103/PhysRevD.99.051102	yes

48	Observation of Excess of J/ψ Yield at Very Low Transverse Momentum at $\sqrt{s_{NN}} = 200$ GeV and U + U Collisions at $\sqrt{s_{NN}} = 193$ GeV	J. Adam,..... Prof. Anju Bhasin....et al.,(STAR Collaboration)	Physics	<i>Phys.Rev.Lett.</i> 123 (2019) 13	2019	0031-9007	https://journals.aps.org/prl	https://doi.org/10.1103/PhysRevLett.123.132302	yes
49	Measurement of inclusive J/ψ suppression in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV through the dimuon channel at STAR	Jaroslav Adam,.....Prof. Anju Bhasin....et al.,(STAR Collaboration)	Physics	Physics Letters B 797 (2019)	2019	0370-2693	https://www.sciencedirect.com/journal/physics-letters-b	https://doi.org/10.1016/j.physletb.2019.134917	yes
50	Polarization of Λ (Λ^-) hyperons along the beam direction in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV	Jaroslav Adam,.....Prof. Anju Bhasin....et al.,(STAR Collaboration)	Physics	Phys. Rev. Lett. 123 (2019)	2019	1079-7114	https://journals.aps.org/prl	https://doi.org/10.1103/PhysRevLett.123.132301	yes
51	First Observation of the Directed Flow of D^0 and \bar{D}^0 in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV	Jaroslav Adam,.....Prof. Anju Bhasin....et al.,(STAR Collaboration)	Physics	Phys.Rev.Lett. 123 (2019) 16	2019	1079-7114	https://journals.aps.org/prl	https://doi.org/10.1103/PhysRevLett.123.162301	yes
52	Beam energy dependence of (anti-)deuteron production	Jaroslav Adam,.....Prof.	Physics	Phys.Rev.C 99 (2019) 6	2019	2469-9993	https://journals.aps.org/prc	https://doi.org/10.1103/PhysRevC.99.064905	yes

	in Au + Au collisions at the BNL Relativistic Heavy Ion Collider	Anju Bhasin....et al.,(STAR Collaboration)							
53	Collision-energy dependence of second-order off-diagonal and diagonal cumulants of net-charge, net-proton, and net-kaon multiplicity distributions in Au+ Au collisions	Jaroslav Adam,.....Prof. Anju Bhasin....et al.,(STAR Collaboration)	Physics	Phys.Rev.C 100 (2019) 1	2019	2469-9993	https://journals.aps.org/prc	https://doi.org/10.1103/PhysRevC.100.014902	yes
54	Azimuthal Harmonics in Small and Large Collision Systems at RHIC Top Energies	Jaroslav Adam,.....Prof. Anju Bhasin....et al.,(STAR Collaboration)	Physics	Phys.Rev.Lett. 122 (2019) 17	2019	1079-7114	https://journals.aps.org/prl/	https://doi.org/10.1103/PhysRevLett.122.172301	yes
55	Collision-energy dependence of pT correlations in Au + Au collisions at energies available at the BNL Relativistic Heavy Ion Collider	Jaroslav Adam,.....Prof. Anju Bhasin....et al.,(STAR Collaboration)	Physics	Phys.Rev.C 99 (2019) 4	2019	2469-9993	https://journals.aps.org/prc	https://doi.org/10.1103/PhysRevC.99.044918	yes

56	Isolation, structural modification of macrophin from endophytic fungus <i>Phoma macrostoma</i> and their cytotoxic potential	Yedukondalu Nalli, Palak Arora, Sameer Khan, Fayaz Malik, Syed Riyaz-UIHassan, Vivek K. Gupta & Asif Ali	Post-Graduate Department of Physics, University of Jammu	Med Chem Res	2019	1054-2523	https://www.springer.com/journal/44	https://link.springer.com/article/10.1007/s00044-018-2281-y	yes
57	New pyrazolyl-dibenzo[<i>b,e</i>][1,4]diazepinones: room temperature one-pot synthesis and biological evaluation	G. C. Brahmbhatt, T. R. Sutariya, H. D. Atara, N. J. Parmar, Vivek K. Gupta , I. Lagunes, J. M. Padrón, P. R. Murumkar, M. R. Yadav	Post-Graduate Department of Physics, University of Jammu	Mol Divers	2019	1381-1991	https://www.springer.com/journal/11030	https://link.springer.com/article/10.1007/s11030-019-09958-z	Yes
58	Carbon-based nanocatalyst: An efficient and recyclable heterogeneous catalyst for one-pot synthesis of gem-bisamides, hexahydroacridine-1,8-diones and 1,8-dioxo-octahydroxanthene	Jaspreet Kour, Monika Gupta, Bushra Chowhan, Vivek K. Gupta	Post-Graduate Department of Physics, University of Jammu	Journal of the Iranian Chemical Society	2019	17352428	https://link.springer.com/journal/13738/volumes-and-issues	https://link.springer.com/article/10.1007/s13738-019-01723-1	Yes

59	Naturally Occurring Organic Acid-catalyzed Facile Diastereoselective Synthesis of Biologically Active (E)-3-(arylimino)indolin-2-one Derivatives in Water at Room Temperature	Gurpreet Kaur, Arvind Singh, Kiran Bala, Mamta Devi, Anjana Kumari, Sapna Devi, Rekha Devi, Vivek K. Gupta , Bubun Banerjee	Post-Graduate Department of Physics, University of Jammu	Current Organic Chemistry	2019	1385-2728	https://benthamscience.com/journals/current-organic-chemistry/contents-and-abstracts/	https://www.ingentaconnect.com/content/ben/coc/2019/00000023/0000016/art00006	Yes
60	Crystal Structure of 5-Butoxy-4-((3-butoxyphenyl)diazanyl)-3-methyl-1-phenyl-1H-pyrazole	K. J. Nakum, J. R. Patel, V. K. Gupta, and R. N. Jadeja	Post-Graduate Department of Physics, University of Jammu	Crystallography Reports	2019	1063-7745	https://link.springer.com	https://link.springer.com/article/10.1134/S1063774519070137	Yes

61	Binary and Ternary Zinc(II) Complexes of Acyl Pyrazolones: Synthesis, Spectroscopic Analysis, Crystal Structure and Antimalarial Activity	I.U.Shaikh, R.K.Patel, V.A. Mevada, Vivek K. Gupta. , R.N.Jadeja	Post-Graduate Department of Physics, University of Jammu	Chemistry Select	2019	2365-6549	https://chemistry-europe.onlinelibrary.wiley.com/journal/23656549	https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/slct.201901058	Yes
62	Model investigations for vanadium-protein interactions: Synthesis, characterization and antidiabetic properties	N.Patel, A.K. Prajapati, R.N.Jadeja, R.N.Patel, S.K.Patel, Vivek K. Gupta , I.P. Tripathi, N.Dwivedi.	Post-Graduate Department of Physics, University of Jammu	Inorganica Chimica Acta	2019	0020-1693	https://www.journals.elsevier.com/inorganica-chimica-acta	https://www.sciencedirect.com/science/article/abs/pii/S0020169319304426	Yes
63	Sulfoacetate Modified Silica Supported Indium(III) Triflate [SiSAIn(OTf) ₂]: A Novel Solid Acid Nano-Catalyst And Investigation of Its Catalytic Potential for One-Pot Synthesis of	R.Vaid, M.Gupta, G.Kour, Vivek K. Gupta	Post-Graduate Department of Physics, Univer	Chemistry Select	2019	2365-6549	https://chemistry-europe.onlinelibrary.wiley.com/journal/23656549	https://chemistry-europe.onlinelibrary.wiley.com/doi/10.1002/slct.201902012	Yes

	1,2,4,5-Tetrasubstituted Imidazole Derivatives		sity of Jammu						
64	Crystal Structure of 3-[1-(4-Methylphenyl)-9,10-Dihydro-4-Azaphenanthren-3-yl]Benzo[f]Coumarin	Deepak Sharma, Naresh Sharma , D. I. Brahmhatt , and Vivek K. Gupta	Post-Graduate Department of Physics, University of Jammu	Crystallography Reports	2019	1063-7745	https://link.springer.com	https://link.springer.com/article/10.1134/S1063774519070198	Yes
65	Carbon-based nanocatalyst: An efficient and recyclable heterogeneous catalyst for one-pot synthesis of gem-bisamides, hexahydroacridine-1,8-diones and 1,8-dioxo-octahydroxanthene	Jaspreet Kour, Monika Gupta, Bushra Chowhan, Vivek K. Gupta	Post-Graduate Department of Physics, University of Jammu	<i>Journal of the Iranian Chemical Society</i>	2019	17352428	https://www.springer.com/journal/13738	https://link.springer.com/article/10.1007/s13738-019-01723-1	Yes

66	Crystal Structure of 5-Butoxy-4-((3-butoxyphenyl)diazenyl)-3-methyl-1-phenyl-1H-pyrazole	K. J. Nakum, J. R. Patel, Vivek K. Gupta, R. N. Jadeja	Post-Graduate Department of Physics, University of Jammu	<i>Crystallography Reports</i>	2019	1063-7745	https://link.springer.com	https://link.springer.com/article/10.1134/S1063774519070137	Yes
67	Crystal Structure of 3-[1-(4-Methylphenyl)-9,10-dihydro-4-azaphenanthren-3-yl]benzo[f]coumarin	Deepak Sharma, Naresh Sharma, D. I. Brahmhatt, Vivek K. Gupta	Post-Graduate Department of Physics, University of Jammu	<i>Crystallography Reports</i>	2019	1063-7745	https://link.springer.com	https://link.springer.com/article/10.1134%2FS1063774519070198	Yes
68	Microscopic insight into the quasi-particle structure of odd-mass terbium isotopes	Suram Singh., Surbhi Gupta., Arun Gupta., Amit Kumar., Arun Bharti., G.H. Bhat., J.A. Sheikh	Physics	Chinese Journal of Physics	2019	0577-9073	https://www.journals.elsevier.com/chinese-journal-of-physics	https://www.sciencedirect.com/science/article/abs/pii/S0577907319308937	Yes

69	Microscopic insight into the nuclear structure properties of odd-mass $^{101-109}\text{Cd}$ isotopes	Verma, Preeti;Singh, Suram;Bharti, Arun;Khosa, S. K.;Bhat, G. H.;Sheikh, J. A.	Physics	Nuclear Physics A	2019	0375-9474	https://www.sciencedirect.com/journal/nuclear-physics-a	https://www.sciencedirect.com/science/article/abs/pii/S037594741930065X	Yes
70	Systematic study of two-quasiparticle structure of the neutron-rich odd-odd rubidium nuclei	Gupta, Surbhi;Singh, Suram;Kumar, Amit;Gupta, Anuradha;Bharti, Arun;Bhat, G. H.;Sheikh, J. A.	Physics	Chinese Journal of Physics	2019	0577-9073	https://www.journals.elsevier.com/chinese-journal-of-physics	https://www.sciencedirect.com/science/article/abs/pii/S0577907318310396	Yes
71	Microscopic insight into low level systematics and negative-parity yrast bands in odd-mass $^{111-127}\text{Cd}$	PreetiVerma ., Suram Singh ., Arun Bharti ., S. K. Khosa .,	Physics	European Physical Journal Plus	2019	2190-5444	https://www.springer.com/journal/13360	https://epjplus.epj.org/articles/epjplus/abs/2019/10/13360_2019_Article_12857/13360_2019_Article_12857.html	Yes
72	Preparation, Structural, Spectroscopic, Thermal, Linear and Nonlinear Optical Characteristics of Semi-Organic Material:	Goldy Slathia, Deepa Singh, K. K. Bamzai	Department of Physics	Zeitschrift für Naturforschung a	2019	1865-7109	https://www.degruyter.com/journal/key/zna/html?lang=en	10.1515/zna-2018-0417	Yes

	Samarium Chloride-Thiourea-L-Tartaric acid								
73	Effect of glycine on structural, optical and dielectric properties of solution grown samarium chloride coordinated with salicylic acid	Harjinder Singh, K. K. Bamzai	Department of Physics	Journal of Materials Science: Materials in Electronics	2019	0957-4522	https://www.springer.com/journal/10854	10.1007/s10854-019-00667-9	Yes
74	Morphological and Electrical Properties of Samarium Chloride Coordinated with Glycine and Salicylic Acid	Harjinder Singh, Bindu Raina, K. K. Bamzai	Department of Physics	Integrated Ferroelectrics	2019	1058-4587	https://www.tandfonline.com/toc/ginf20/current	10.1080/10584587.2019.1674956	Yes
75	Microscopic study of evolution of shape change across even-even mass chain of tellurium isotopes using relativistic Hartree-Bogoliubov model	Shivali Sharma, Rani Devi and S.K. Khosa	Physics	Nuclear Physics A	2019	ISSN: 0375-9474	https://www.sciencedirect.com/journal/nuclear-physics-a	https://doi.org/10.1016/j.nuclphysa.2019.05.008	Yes
76	Microscopic study of electromagnetic properties and band spectra of neutron deficient $^{133,135,137}\text{Sm}$	Rakesh K. Pandit, R.K. Bhat, Rani Devi , S.K. Khosa, G.H. Bhat and J.A. Sheikh	Physics	Chinese Physics C	2019	Online ISSN: 2058-6132	https://iopscience.iop.org/journal/1674-1137	https://doi.org/10.1088/1674-1137/43/12/124108	Yes

						Print ISSN: 1674-113 7			
77	Green Synthesis of Silver Nanoparticles Using Aqueous Extract of Rosa brunonii Lindl and Their Morphological, Biological and Photocatalytic Characterizations	Madhulika Bhagat, Rythem Anand, Ram Datt, Vinay Gupta, Sandeep Arya	Physics	Journal of Inorganic and Organometallic Polymers and Materials	2019	1574-1443	https://www.springer.com/journal/10904	https://link.springer.com/article/10.1007/s10904-018-0994-5	Yes
78	Potential Substitutes for Replacement of Lead in Perovskite Solar Cells: A Review	R Kour, S Arya , S Verma, J Gupta, P Bandhoria, V Bharti, R Datt, Gupta V	Physics	Global Challenges	2019	2056-6646	https://onlinelibrary.wiley.com/journal/20566646	https://onlinelibrary.wiley.com/doi/full/10.1002/gch2.201900050	Yes
79	Dual-functional cathode buffer layer for power conversion efficiency enhancement of bulk-heterojunction solar cells	R Datt, S Bishnoi, R Gupta, D Haranath, S. N Sharma, G Gupta, S Arya , S Kumare, V Gupta	Physics	Synthetic Metals	2019	0379-6779	https://www.journals.elsevier.com/synthetic-metals	https://www.sciencedirect.com/science/article/abs/pii/S0379677919302243	Yes
80	Performance of template-assisted electrodeposited Copper/Cobalt bilayered	Jyoti Gupta, Sandeep Arya , Sonali Verma, Anoop Singh, Asha Sharma,	Physics	Materials Chemistry and Physics	2019	0254-0584	https://www.journals.elsevier.com/materials-chemistry-and-physics	https://www.sciencedirect.com/science/article/abs/pii/S0254058419307680	Yes

	nanowires as an efficient glucose and Uric acid sensor	Bikram Singh, Prerna, Rakesh Sharma							
81	Economical and Efficient Electrochemical Sensing of Folic Acid using a Platinum Electrode Modified with Hydrothermally Synthesized Pd and Ag Co-Doped SnO ₂ Nanoparticles	Asha Sharma, Sandeep Arya	Physics	Journal of The Electrochemical Society	2019	0013-4651	https://iopscience.iop.org/journal/1945-7111	https://iopscience.iop.org/article/10.1149/2.0261913jes	Yes
82	Comparative study of CuO, CuO@Ag and CuO@Ag:La nanoparticles for their photosensing properties	Sandeep Arya , Prerna Mahajan, Anoop Singh, Ravinder Kour	Physics	Materials Research Express	2019	2053-1591	https://iopscience.iop.org/journal/2053-1591	https://iopscience.iop.org/article/10.1088/2053-1591/ab49ab	Yes