Department of Physics, University of Jammu

Research Publications

2020

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	Sn_xS_y MSELD stack thin films: Processing, characteristics and devices for photonic applications	Arun Banotra, Naresh Padha	Physics	Solar Energy	2020	0038-092X	https:// www.sciencedirect.com/ journal/solar-energy	https:// www.sciencedirect.com /science/article/abs/pii/ S0038092X20310586? via%3Dihub	UGC Care list/Scopus/ Web of Science
2	Effect of CuIn1−xAlx Se2 (CIAS) thin film thickness and diode annealing	Usha Parihar, jaymin Ray,C J Panchal,nar esh Padha	Physics	Bulletin of Materials Science	2020	0250-4707	https://www.springer.com/ journal/12034	https://www.ias.ac.in/ describe/article/boms/ 043/0274	UGC Care list/Scopus/ Web of Science

	temperature on Al/p-CIAS Schottky diode								
3	Growth of γ-In2Se3 monolayer from multifaceted InxSey thin films via annealing and study of its physical properties	Rajesh Niranjan, Naresh Padha	Physics	Materials Chemistry and Physics	2020	0254-0584	https://www.sciencedirect.com/journal/materials-chemistry-and-physics	https://www.sciencedirect.com/science/article/abs/pii/S0254058420311822	UGC Care list/Scopus/ Web of Science
4	Development of CuInSe2 thin films by SELD method for photovoltaic absorber layer application	Rajesh Niranjan, Arun Banotra & Naresh Padha	Physics	Journal of Materials Science: Materials in Electronics	2020	1573-482X	https://www.springer.com/journal/10854	https://link.springer.com/article/10.1007/s10854-020-02865-2	UGC Care list/Scopus/ Web of Science
5	Synthesis, X-ray structure, and DFT analysis	G. Sharma, A.Uppal, S. Anthal, M.B. Deshmukh,	Physics	Eur. J. Chem.	2020	2153-2249	www.eurjchem.com	https://doi.org/10.5155/eurjchem.11.4.324-333.2028	No

	of a binary complex of 3,3'-[(3-benzimidazolyl)methylene] bis(4-hydroxy-2H-1-benzopyran-2-one): 5-Methyl-1,3-thiazol-2(3H)-imine	P.P. Mohire, T.R.Bhosale, C.Sudershankumar, RAJNI KANT*							
6	Sequential multicomponent site-selective synthesis of 4-iodo and 5-iodopyrrole-3-carboxaldehydes from common set of starting	S. Choudhary, J. Yadav, A. Pawar, A. Singh, N.A. Mir, E. Iype, Ratika Sharma, RAJNI KANT Indresh	Physics	Org. Biomol. Chem.	2020	1477-0520	https://pubs.rsc.org	https://doi.org/10.1039/C9OB02501D	Yes

	materials by tuning the conditions	Kumar							
7	Synthesis, FTIR, UV-VIS, DFT studies and SCXRD structure of 1-(tert-butyl) 3-ethyl 3-(hydroxy(thiophen-2-yl)methyl)piperidine-1,3-dicarboxylate	V.D. Singh, A. Uppal[a], Kamni, Y. Khajuria,R. Srinivasan, B. Narayana, B. K. Sarojini, S.Anthal& RAJNI KANT*	Physics	Ind J Chem sec. B	2020	0975-0983	http://nopr.niscair.res.in	NA	Yes
8	Strucutral studies on thiosalicylate complexes of Zn(II) & Hg(II). First insight into Zn(II)-thiosalicylate complex as potential	Mousumi Nayak, Ashish Kumar Singh, Pradyot Prakash, RAJNI KANTand Subrato Bhattachar	Physics	Inorganica Chimica Acta	2020	0020-1693	https:// www.sciencedirect.com	https://doi.org/ 10.1016/ j.ica.2019.119263	Yes

	antibacterial, antibiofilm and anti-tumour agent	ya							
9	Intermittency study of charged particles generated in Pb-Pb collisions at $\sqrt{s_{NN}}$=2.76 TeV using EPOS3	Dr. Ramni Gupta	Physics	Advances in High Energy Physics	2020	1687-7365	https://www.hindawi.com/journals/ahep/	10.1155/2020/5073042	Yes
10	Multiplicity dependence of light (anti-)nuclei 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	*Phys.Lett.B* 800 (2020) 135043	2020	0370-2693	https://www.journals.elsevier.com/physics-letters-b	doi:10.1016/j.physletb.2019.135043	yes
11	Multiplicity dependenc	Shreyasi Acharya,..... Prof. Anju	Physics	*Eur.Phys.J.C* 80 (2020) 2, 167	2020	1434-6044	https://www.springer.com/journal/10052	doi:10.1140/epjc/s10052-020-7673-8	yes

	e of (multi-)strange hadron production in proton-proton collisions at $\sqrt{s}$ = 13 TeV	Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboration)							
12	Global polarization of $\Lambda\bar{\Lambda}$ hyperons 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	*Phys.Rev.C* 101 (2020) 4, 044611	2020	2469-9985	https://journals.aps.org/prc	doi:10.1103/ PhysRevC.101.044611	yes
13	Studies of J/ψ production 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	*JHEP* 02 (2020) 041	2020	1126-6708	https://jhep.sissa.it/jhep/	doi:10.1007/ JHEP02(2020)041	yes
14	Measureme	Shreyasi Acharya,.....	Physics	*Phys.Rev.C* 101 (2020) 3,	2020	2469-9985	https://journals.aps.org/prc	doi:10.1103/ PhysRevC.101.034911	yes

	nts of inclusive jet spectra in pp and central Pb-Pb collisions at $\sqrt{s_{NN}}$ = 5.02 TeV	Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboration)		034911					
15	Production of charged pions, kaons, and (anti-)protons in Pb-Pb and inelastic pppppp 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	*Phys.Rev.C 101 (2020) 4, 044907*	2020	2469-9985	https://journals.aps.org/prc	doi:10.1103/ PhysRevC.101.044907	yes
16	Measurement of the (anti-)3He elliptic flow in Pb–Pb collisions at $\sqrt{s_{NN}}$ =5.02TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboration)	Physics	*Phys.Lett.B 805 (2020) 135414*	2020	0370-2693	https:// www.journals.elsevier.com/ physics-letters-b	doi:10.1016/ j.physletb.2020.135414	yes

17	Measurement of electrons from semileptonic heavy-flavour hadron decays at midrapidity in pp and 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	*Phys.Lett.B 804 (2020) 135377*	2020	0370-2693	https:// www.journals.elsevier.com/ physics-letters-b	doi:10.1016/ j.physletb.2020.135377	yes
18	Azimuthal correlations of prompt D mesons with charged particles in pp and 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	*Eur.Phys.J.C 80 (2020) 10, 979*	2020	1434-6044	https://www.springer.com/ journal/10052	doi:10.1140/epjc/ s10052-020-8118-0	yes
19	Evidence of rescattering effect in Pb-Pb collisions at the LHC	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof .	Physics	*Phys.Lett.B 802 (2020) 135225*	2020	0370-2693	https:// www.journals.elsevier.com/ physics-letters-b	doi:10.1016/ j.physletb.2020.135225	yes

	through production of $K^{*}(892)^{0}$ and $\phi(1020)$ mesons	Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboration)							
20	Measurement of electrons from heavy-flavour hadron decays as a function of multiplicity 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	*JHEP 02 (2020) 077*	2020	1126-6708	https://jhep.sissa.it/jhep/	doi:10.1007/ JHEP02(2020)077	yes
21	Global baryon number conservation encoded in net-proton fluctuations measured in Pb-Pb collisions at $\sqrt{s_{NN}}$ = 2.76	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboration)	Physics	*Phys.Lett.B 807 (2020) 135564*	2020	0370-2693	https:// www.journals.elsevier.com/ physics-letters-b	doi:10.1016/ j.physletb.2020.135564	yes

	TeV								
22	Multiplicity dependence of $K^{*}(892)^{0}$ and $\phi(1020)$ production in pp collisions at $\sqrt{s}$ =13 TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….... et al., (ALICE Collaboration)	Physics	*Phys.Lett.B 807 (2020) 135501*	2020	0370-2693	https:// www.journals.elsevier.com/ physics-letters-b	doi:10.1016/ j.physletb.2020.135501	yes
23	Υ production in p–Pb collisions at $\sqrt{s_{NN}}$ =8.16 TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….... et al., (ALICE Collaboration)	Physics	*Phys.Lett.B 806 (2020) 135486*	2020	0370-2693	https:// www.journals.elsevier.com/ physics-letters-b	doi:10.1016/ j.physletb.2020.135486	yes
24	Centrality and transverse momentum dependence of inclusive J/ψ production at midrapidity	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….... et al., (ALICE	Physics	*Phys.Lett.B 805 (2020) 135434*	2020	0370-2693	https:// www.journals.elsevier.com/ physics-letters-b	doi:10.1016/ j.physletb.2020.135434	yes

	in Pb–Pb collisions at $\sqrt{s_{NN}}$ =5.02 TeV	Collaboration)							
25	$K^{*}(892)^{0}$ and $\phi(1020)$production at midrapidity in pp collisions at $\sqrt{s}$ = 8 TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboration)	Physics	*Phys.Rev.C 102 (2020) 2, 024912*	2020	2469-9985	https://journals.aps.org/prc	doi:10.1103/ PhysRevC.102.024912	yes
26	Longitudinal and azimuthal evolution of two-particle transverse momentum correlations in Pb-Pb collisions at $\sqrt{s_{NN}}$ = 2.76 TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboration)	Physics	*Phys.Lett.B 804 (2020) 135375*	2020	0370-2693	https:// www.journals.elsevier.com/ physics-letters-b	doi:10.1016/ j.physletb.2020.135375	yes
27	Jet-hadron correlations measured relative to	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof .	Physics	*Phys.Rev.C 101 (2020) 6, 064901*	2020	2469-9985	https://journals.aps.org/prc	doi:10.1103/ PhysRevC.101.064901	yes

	the second order event plane in Pb-Pb collisions at $\sqrt{s_{NN}}$ = 2.76 TeV	Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboration)							
28	Underlying Event properties in pp collisions at $\sqrt{s}$ = 13 TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. RamniGupta ……...et al., (ALICE Collaboration)	Physics	*JHEP 04 (2020) 192*	2020	1126-6708	https://jhep.sissa.it/jhep/	doi:10.1007/ JHEP04(2020)192	yes
29	Evidence of Spin-Orbital Angular Momentum Interactions in Relativistic Heavy-Ion Collisions	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboration)	Physics	*Phys.Rev.Lett. 125 (2020) 1, 012301*	2020	0031-9007	https://journals.aps.org/prl	doi:10.1103/ PhysRevLett.125.012301	yes
30	Production of (anti-)^{3}He and	Shreyasi Acharya,.....	Physics	*Phys.Rev.C 101*	2020	2469-9985	https://journals.aps.org/prc	doi:10.1103/ PhysRevC.101.044906	yes

	(anti-)^{3}H in p-Pb collisions at $\sqrt{s_{NN}}$ = 5.02 TeV	Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboration)		*(2020) 4, 044906*					
31	Probing the effects of strong electromagnetic fields with charge-dependent directed flow in Pb-Pb collisions at the LHC	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboration)	Physics	*Phys.Rev.Lett. 125 (2020) 2, 022301*	2020	0031-9007	https://journals.aps.org/prl	doi:10.1103/ PhysRevLett.125.022301	yes
32	Υ production in p–Pb collisions at $\sqrt{s_{NN}}$ =8.16 TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. RamniGupta ……..et al., (ALICE Collaboration)	Physics	*Phys.Lett.B 806 (2020) 135486*	2020	0370-2693	https:// www.journals.elsevier.com/ physics-letters-b	doi:10.1016/ j.physletb.2020.135486	yes

33	Investigation of the p–Σ0 interaction via femtoscopy in pp collisions	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboration)	Physics	*Phys.Lett.B 805 (2020) 135419*	2020	0370-2693	https:// www.journals.elsevier.com/ physics-letters-b	doi:10.1016/ j.physletb.2020.135419	yes
34	Non-linear flow modes of identified particles 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	*JHEP 06 (2020) 147*	2020	1126-6708	https://jhep.sissa.it/jhep/	doi:10.1007/ JHEP06(2020)147	yes
35	Higher harmonic non-linear flow modes of charged hadrons in Pb-Pb collisions at $\sqrt{s}$ = 5.02 TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboratio	Physics	*JHEP* 05 (2020) 085	2020	1029-8479	https://www.springer.com/ journal/13130/	doi = "10.1007/JHEP05(2020)085"	yes

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36	Coherent photoproduction of ρ^0 vector mesons 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	*JHEP* 06 (2020) 035	2020	1029-8479	https://www.springer.com/journal/13130/	doi = "10.1007/JHEP06(2020)035"	yes
37	Multiplicity dependence of π, K, and p production in pp collisions at √s=13 TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboration)	Physics	*Eur.Phys.J.C* 80 (2020) 8	2020	1434-6044	https://www.springer.com/journal/10052	doi = "10.1140/epjc/s10052-020-8125-1"	yes
38	(Anti-)deuteron production	S. Acharya, ... Prof. Anju	Physics	*Eur.Phys.J.C* 80	2020	1434-6044	https://www.springer.com/journal/10052	doi = "10.1140/epjc/s10052-020-8125-1"	yes

	in pp collisions at $\sqrt{s}$=13 TeV	Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboration)		(2020) 9					
39	Measurement of nuclear effects on $\psi(2S)$ production in p-Pb collisions at $\sqrt{s}$=8.16 TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboration)	Physics	*JHEP* 07 (2020) 237	2020	1029-8479	https://www.springer.com/journal/13130	doi = "10.1007/JHEP07(2020)237"	yes
40	Search for a common baryon source in high-multiplicity pp collisions at the LHC	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta……..	Physics	*Phys.Lett.B* 811 (2020)	2020	0370-2693	https://www.sciencedirect.com/journal/physics-letters-b	doi = "10.1016/j.physletb.2020.135849"	yes

		et al., (ALICE Collaboration)							
41	J/ψ production as a function of charged-particle multiplicity in p-Pb collisions at √s= 8.16 TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboration)	Physics	*JHEP* 09 (2020) 162	2020	1029-8479	https://www.springer.com/journal/13130	doi = "10.1007/JHEP09(2020)162"	yes
42	Measurement of the low-energy antideuteron inelastic cross section	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboration)	Physics	*Phys.Rev.Lett.* 125 (2020) 16	2020	0031-9007	https://journals.aps.org/prl/	doi = "10.1103/PhysRevLett.125.162001"	yes
43	Multiplicity dependence of J/ψ	Shreyasi Acharya,..... Prof. Anju Bhasin,	Physics	*Phys.Lett.B* 810 (2020) 135758	2020	0370-2693	https://www.sciencedirect.com/journal/physics-letters-b	doi = "10.1016/j.physletb.2020.135758"	yes

	production at midrapidity in pp collisions at $\sqrt{s}$ = 13 TeV	Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboratio n)							
44	Z-boson production in p-Pb collisions at $\sqrt{s_{NN}}$=8.16 TeV and 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 Collaboratio n)	Physics	*JHEP* 09 (2020) 076	2020	1029-8479	https://www.springer.com/ journal/13130	doi = "10.1007/JHEP09(2020)076"	yes
45	Unveiling the strong interaction among hadrons at the LHC	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboratio	Physics	*Nature* 588 (2020) 232-238	2020	0028-0836	https://www.nature.com	doi = "10.1038/s41586-020-3001-6"	yes

		n)							
46	Dielectron production in proton-proton and proton-lead collisions at $\sqrt{s}$= 5.02 TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboration)	Physics	Phys.Rev.C 102 (2020) 5	2020	2469-9985	https://journals.aps.org/prc	doi = "10.1103/PhysRevC.102.055204"	yes
47	J/ψ elliptic and triangular flow 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	*JHEP* 10 (2020)	2020	1029-8479	https://www.springer.com/journal/13130	doi = "10.1007/JHEP10(2020)141"	yes
48	Elliptic and triangular flow of (anti)deuter	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S.	Physics	*Phys.Rev.C* 102 (2020) 5	2020	2469-9985	https://journals.aps.org/prc	doi = "10.1103/PhysRevC.102.055203"	yes

	ons in Pb-Pb collisions at $\sqrt{s_{NN}}$= 5.02 TeV	Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboration)							
49	Constraining the Chiral Magnetic Effect with charge-dependent azimuthal correlations in Pb-Pb collisions at $\sqrt{s_{NN}}$ = 2.76 and 5.02 TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboration)	Physics	*JHEP* 09 (2020) 160	2020	1029-8479	https://www.springer.com/journal/13130	doi = "10.1007/JHEP09(2020)160"	yes
50	Production of ω mesons in pp collisions at √s = 7TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta…….. et al., (ALICE Collaboration)	Physics	*Eur.Phys.J.C* 80 (2020) 12	2020	1434-6052	https://www.springer.com/journal/10052/	doi = "10.1140/epjc/s10052-020-08651-y"	

51	Measurement of inclusive J/ψ polarization in p+p collisions at $\sqrt{s_{NN}}$ = 200 GeV by the STAR experiment	Jaroslav Adam,.....Prof. Anju Bhasin….et al.,(STAR Collaboration)	Physics	Phys.Rev.D 102 (2020) 9	2020	2470-0029	https://journals.aps.org/prd	10.1103/ PhysRevD.102.092009	yes
52	Beam-energy dependence of the directed flow of deuterons in Au+Au collisions	Jaroslav Adam,.....Prof. Anju Bhasin….et al.,(STAR Collaboration)	Physics	*Phys.Rev.C* 102 (2020) 4,	2020	2469-9993	https://journals.aps.org/prc	10.1103/PhysRevC.102.044906	yes
53	Investigation of the linear and mode-coupled flow harmonics in Au+Au	Jaroslav Adam,.....Prof. Anju Bhasin….et al.,(STAR Collaboration)	Physics	P*hys.Lett.B* 809 (2020)	2020	0370-2693	https:// www.sciencedirect.com/ journal/physics-letters-b	10.1016/j.physletb.2020.135728	yes

	collisions at $\sqrt{s_{NN}}$ = 200 GeV								
54	Measurement of inclusive charged-particle jet production in Au + Au collisions at $\sqrt{s_{NN}}$ = 200 GeV	Jaroslav Adam,.....Prof. Anju Bhasin….et al.,(STAR Collaboration)	Physics	*Phys.Rev.C* 102 (2020) 5	2020	2469-9993	https://journals.aps.org/prc	10.1103/ PhysRevC.102.054913	yes
55	Measurement of the central exclusive production of charged particle pairs in proton-proton collisions at $\sqrt{s_{NN}}$ = 200 GeV with the	Jaroslav Adam,.....Prof. Anju Bhasin….et al.,(STAR Collaboration)	Physics	*JHEP* 07 (2020) 07,	2020	1029-8479	https://www.springer.com/ journal/	10.1007/ JHEP07(2020)178	yes

	STAR detector at RHIC								
56	Results on total and elastic cross sections in proton–proton collisions at $\sqrt{s_{NN}}$ = 200 GeV	JJaroslav Adam,.....Prof. Anju Bhasin….et al.,(STAR Collaboration)	Physics	*Phys.Lett.B* 808 (2020)	2020	0370-2693	https://www.sciencedirect.com/journal/physics-letters-b	10.1016/j.physletb.2020.135663	yes
57	Measurement of groomed jet substructure observables in p+p collisions at $\sqrt{s_{NN}}$ = 200 GeV	Jaroslav Adam,.....Prof. Anju Bhasin….et al.,(STAR Collaboration)	Physics	P*hys.Lett.B* 811 (2020)	2020	0370-2693	https://www.sciencedirect.com/journal/physics-letters-b	10.1016/j.physletb.2020.135846	yes
58	Beam energy	Jaroslav Adam,.....Prof. Anju	Physics	*Phys.Rev.C* 102 (2020) 2,	2020	2469-9993	https://journals.aps.org/prc	10.1103/PhysRevC.102.024903	yes

	dependence of net- Λ fluctuations measured by the STAR experiment at the BNL Relativistic Heavy Ion Collider	Bhasin….et al.,(STAR Collaboration)							
59	Underlying event measurements in p+pp+pp+p collisions at $\sqrt{s_{NN}}$ = 200 GeV at RHIC energy	Jaroslav Adam,.....Prof. Anju Bhasin….et al.,(STAR Collaboration)	Physics	Phys.Rev.D 101 (2020) 5	2020	2470-0029	https://journals.aps.org/prd	10.1103/ PhysRevD.101.052004	yes
60	Measurement of D^0-meson + hadron two-dimensional angular correlations in Au+Au	J. Adam,.....Prof. Anju Bhasin….et al.(STAR Collaboration)	Physics	*Phys.Rev.C* 102 (2020) 1	2020	2469-9993	https://journals.aps.org/prc	10.1103/ PhysRevC.102.014905	yes

	collisions at $\sqrt{s_{NN}}$ = 200 GeV								
61	First measurement of Λ_c baryon production in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV	Jaroslav Adam,.....Prof. Anju Bhasin….et al.,(STAR Collaboration)	Physics	*Phys.Rev.Lett.* 124 (2020) 17,	2020	1079-7114	https://journals.aps.org/prl	10.1103/ PhysRevLett.124.172301	yes
62	Bulk properties of the system formed in Au+AuAu+ AuAu+Au collisions at $\sqrt{s_{NN}}$ = 14.5 GeV at the BNL STAR detector	Jaroslav Adam,.....Prof. Anju Bhasin….et al.,(STAR Collaboration)	Physics	Phys.Rev.C 101 (2020) 2,	2020	2469-9993	https://journals.aps.org/prc	10.1103/ PhysRevC.101.024905	yes

63	Beam-energy dependence of identified two-particle angular correlations in $\sqrt{s_{NN}}$ = 7.7–200 GeV Au+Au collisions	Jaroslav Adam,.....Prof. Anju Bhasin….et al.,(STAR Collaboration)	Physics	*Phys.Rev.C* 101 (2020) 1	2020	2469-9993	https://journals.aps.org/prc	10.1103/ PhysRevC.101.014916	yes
64	New pyrazolyl-dibenzo[*b*,*e*][1,4]diazepinones: room temperature one-pot synthesis and biological evaluation	Gaurangkumar C. Brahmbhatt, Tushar R. Sutariya, Hiralben D. Atara, Narsidas J. Parmar, Vivek K. Gupta, Irene Lagunes, José M. Padrón, Prashant R. Murumkar &Mange Ram	Post-Graduate Department of Physics, University of Jammu	*Molecular Diversity*	2020	1381-1991	https://www.springer.com/journal/11030	https://link.springer.com/article/10.1007/s11030-019-09958-z	Yes

		Yadav							
65	Dioxidovanadium (V) complexes of a tridentate ONO Schiff base ligand: Structural characterization, quantum chemical calculations and in-vitro antidiabetic activity	Neetu Patel a , A.K. Prajapati a , R.N. Jadeja , R.N. Patel , S.K. Patel , I.P. Tripathi, N. Dwivedi , Vivek K. Gupta, Raymond.J. Butcher	Post-Graduate Department of Physics, University of Jammu	Polyhedron	2020	0277-5387	https://www.journals.elsevier.com/polyhedron	https://www.sciencedirect.com/science/article/abs/pii/S0277538720300917	Yes
66	Triflic Acid Functionalized Carbon@Silica Composite: Synthesis and Applications in Organic	Shally Sharma, Harsha Sharma, Sukanya Sharma, Satya Paul, Vivek K. Gupta, Nordine	Post-Graduate Department of Physics, University of Jammu	ChemistrySelect	2020	2365-6549	https://chemistry-europe.onlinelibrary.wiley.com/journal/23656549	https://chemistry-europe.onlinelibrary.wiley.com/doi/10.1002/slct.201904727	Yes

	Synthesis; DFT Studies of Indeno[1,2-b]indole	Boukabcha, and Abdelkader Chouaih							
67	Mandelic acid catalyzed one-pot three-component synthesis of -aminonitriles and -aminophosphonates under solvent-free conditions at room temperature.	Gurpreet Kaur, Mussarat Shamim, Vaishali Bhardwaj, Vivek Kumar Gupta, Bubun Banerjee	Post-Graduate Department of Physics, University of Jammu	Synth. Commun.	2020	0039-7911	https://www.tandfonline.com/toc/lsyc20/current	https://www.tandfonline.com/doi/abs/10.1080/00397911.2020.1745844?casa_token=-za5ZG1-gOwAAAAA:jAoW65jWTDCDIf4xeZdya2D_D4sjpw3SucuHrHLvLo8AJ4W10eoe0J9qcO9yT8xebE8mQNWxQhmBxQ	Yes
68	Design, Synthesis, Characterization, and Crystallographic	Sakshi Sharma, Goutam Brahmachari, and Vivek	Post-Graduate Department of Physics, University of Jammu	Crystallography Reports	2020	1063-7745	https://link.springer.com	https://link.springer.com/article/10.1134/S1063774520070147	Yes

	Behaviour of Some Biologically Important Chromene-Annulated Spiro-Oxindoles: A Drive to Introspect the Comparative Structural Information	Kumar Gupta							
69	Synthesis, Characterization, and Crystal Structure of [3,3':3',3"-Terindolin]-2'-One Bis(dimethyl Sulfoxide)	Varun Sharma, Sanchari Begam, Khondekar Nurjamal, Goutam Brahmachari, and Vivek Kumar Gupta	Post-Graduate Department of Physics, University of Jammu	Crystallography Reports	2020	1063-7745	https://link.springer.com	https://link.springer.com/article/10.1134/S1063774520070159	Yes
70	Copper(II) mixed-ligand complexes with fluoroquinol	M. Lawal, J.A. Obaleye , R.N. Jadeja , M.O.	Post-Graduate Department of Physics, University of Jammu	Polyhedron	2020	0277-5387	https://www.journals.elsevier.com/polyhedron	https://www.sciencedirect.com/science/article/abs/pii/	Yes

	ones and an N-donor co-ligand: Structures and biological application	Bamigboye , Vivek K. Gupta, H. Roy , I.U. Shaikh						S0277538720304101	
71	Synthesis, Characterization, and Crystal Structure of (E)-4-(2-(4-Cyanobenzylidene)hydrazinyl)benzonitrile Dimethyl Sulfoxide Hemisolvate	Varun Sharma, Indrajit Karmakar, Goutam Brahmachari, and Vivek Kumar Gupta	Post-Graduate Department of Physics, University of Jammu	Crystallography Reports	2020	1063-7745	https://link.springer.com	https://link.springer.com/article/10.1134/S1063774520070160	Yes
72	Synthesis and characterization of 2-	Varun Sharma, Gurpreet Kaur,	Post-Graduate Department of Physics, University of	Crystallography Reports	2020	1063-7745	https://link.springer.com	https://link.springer.com/article/10.1134/	Yes

	aminobenzothiazol and 1-methylisatin co-crystal.	Arvind Singh, Bubun Banerjee and Vivek Kumar Gupta	Jammu					S1063774520070172	
73	X-Ray Crystal Structure Analysis of Novel 6-Amino-3-Phenyl-4-(Pyridin-4-yl)-2,4-Dihydropyrano[2,3-c]pyrazole-5-Carbonitrile	Suresh Sharma, Goutam Brahmachari, and Vivek Kumar Gupta	Post-Graduate Department of Physics, University of Jammu	Crystallography Reports	2020	1063-7745	https://link.springer.com	https://link.springer.com/article/10.1134/S1063774520070184	Yes
74	Synthesis, characterization, and crystal structure of 5'-amino-4,4''-dichloro-2'-nitro-2',3'-dihydro-[1,1':3',1''-	Anjali Sharma, Khandekar Nurjamal, Bubun Banerjee, Goutam Brahmachari and Vivek Kumar	Post-Graduate Department of Physics, University of Jammu	Crystallography Reports	2020	1063-7745	https://link.springer.com	https://link.springer.com/article/10.1134/S1063774520070196	Yes

	terphenyl]-4',4',6'(1'h)-tricarbonitrile-dimethyl sulfoxide	Gupta							
75	Copper(II) Mixed-Ligand Complexes with Fluoroquinolones and an N-Donor Co-Ligand:Structures and Biological Application	M.Lawal, J.A.Obaleye, R.N.Jadeja, M.O.Bamigboye, Vivek Kumar Gupta, H.Roy, I.U.Shaikh	Post-Graduate Department of Physics, University of Jammu	Polyhedron	2020	0277-5387	https://www.sciencedirect.com/journal/polyhedron	https://www.sciencedirect.com/science/article/abs/pii/S0277538720304101	Yes
76	Dioxidovanadium(V) complexes of a tridentate ONO Schiff base ligand: Structural characterization, quantum chemical	Neetu Patel, A.K.Prajapati, R.N.Jadeja, R.N.Patel, S.K.Patel, I.P.Tripathi,	Post-Graduate Department of Physics, University of Jammu	Polyhedron	2020	0277-5387	https://www.sciencedirect.com/journal/polyhedron	https://www.sciencedirect.com/science/article/abs/pii/S0277538720300917	Yes

	calc ulations and in-vitro antidiabetic activity	N.Dwivedi, Vivek Kumar Gupta, Raymond.J .Butcher							
77	Crystallographic Analysis and Structural Conformational Study of Conessine: A Steroidal Alkaloid	Rakesh Sharma, Naresh Sharma, D.K.Gupta and Vivek Kumar Gupta	Post-Graduate Department of Physics, University of Jammu	AIP Conference Proceedings	2020	1551-7616	https://aip.scitation.org/journal/apc	https://aip.scitation.org/doi/abs/10.1063/5.0002454	Yes
78	Triflic Acid Functionalized Carbon@Silica Composite: Synthesis	Shally Sharma, Harsha Sharma, Sukanya Sharma , Satya Paul,	Post-Graduate Department of Physics, University of Jammu	Chemistry Select	2020	2365-6549	https://chemistry-europe.onlinelibrary.wiley.com/journal/23656549	https://aip.scitation.org/doi/abs/10.1063/5.0002454	Yes

	and Applications in Organic Synthesis; DFT Studies of Indeno[1,2-b]indole	Vivek K. Gupta, Nordine Boukabcha, Abdelkader Chouaih							
79	A general method for the synthesis of 3,3-bis(indol-3-yl)indolin-2-ones, bis(indol-3-yl) (aryl)methanes and tris(indol-3-yl)methanes using naturally occurring mandelic acid as an efficient organo-catalyst in aqueous ethanol at room temperature.	Arvind Singh, Gurpreet Kaur, Amninder Kaur, Vivek Kumar Gupta, Bubun Banerjee,	Post-Graduate Department of Physics, University of Jammu	*Curr. Green Chem.*	2020	2213-3461	https://benthamscience.com/journals/current-green-chemistry/	https://www.ingentaconnect.com/contentone/ben/cgc/2020/00000007/00000001/art00010	Yes

80	A Zn(II)-Coordination Polymer for the Instantaneous Cleavage of C_{sp^3}–C_{sp^3} Bond and Simultaneous Reduction of Ketone to Alcohol	Debasish Ghosh, Subhendu Dhibar, Vivek K. Gupta, Gourab Kanti Das and Biswajit Dey	Post-Graduate Department of Physics, University of Jammu	Inorg. Chem	2020	0020-1669	https://pubs.acs.org/journal/inocaj	https://pubs.acs.org/doi/abs/10.1021/acs.inorgchem.9b03441?casa_token=NmdhlXyuZugAAAAA:njFyWyFwE3Snf8GmwtkKLlvPW32D-8Lc1BEdxNzTUHVqXOfH9NLSO30yRZGsXHlqrakSq0W5BA_7Q-oi	Yes
81	Systematic study of odd-mass $^{151-161}$Pm and ^{154,156} Pm isotopes using projected shell model	Rani, Veerta and Verma, Preeti and Singh, Suram and Rajput, Manvi and Bharti, Arun and Bhat, GH and Sheikh, JA	Physics	Chinese Physics C	2020	1674-1137	https://iopscience.iop.org/journal/1674-1137	https://iopscience.iop.org/article/10.1088/1674-1137/44/9/094107	Yes
82	Evolution of intrinsic nuclear structure in	Surbhi Gupta ., Ridham Bakshi .,	Physics	Chinese Physics C	2020	1674-1137	https://iopscience.iop.org/journal/1674-1137	https://iopscience.iop.org/article/10.1088/1674-1137/44/7/074108	Yes

	medium mass even-even Xenon isotopes from a microscopic perspective	Suram Singh ., Arun Bharti ., G. H. Bhat ., J. A. Sheikh .,							
83	Phenomenological description of non-axial shapes of some doubly even neutron deficient barium isotopes	Ridham Bakshi ., Surbhi Gupta ., Suram Singh ., Arun Bharti ., G H Bhat ., J A Sheikh	Physics	Journal of Physics G: Nuclear and Particle Physics	2020	0305-4616	https://iopscience.iop.org/journal/0305-4616	https://iopscience.iop.org/article/10.1088/1361-6471/ab81dd	Yes
84	Concentration Effect of Gd^{3+} on the Structural, Optical and	Bindu Raina, Seema Verma, Sonali	Department of Physics	Integrated Ferroelectrics	2020	1058-4587	https://www.tandfonline.com/toc/ginf20/current	10.1080/10584587.2019.1674997	Scopus

	Spectroscopic Properties of $NdVO_4$ Nanoparticles	Thakur, Yaseen Ahmad, K. K. Bamzai							
85	Impact of pH Value on Structural, Thermal, Optical and Raman Studies of Neodymium Phosphate (NdP) Nanoparticles Synthesized by Co-Precipitation Technique	Seema Verma, Bindu Raina, K. K. Bamzai	Department of Physics	Integrated Ferroelectrics	2020	1058-4587	https:// www.tandfonline.com/ toc/ginf20/current	10.1080/10584587.2019.1674994	Scopus
86	Study of multi-quasiparticle energy bands in neutron-deficient $^{117,119,121}Cs$	Rawan Kumar, Shivali Sharma and Rani Devi	Physics	The European Physical Journal Plus	2020	ISSN: 2190-5444 (Electronic Edition)	https://epjplus.epj.org/	https://doi.org/10.1140/epjp/s13360-020-00103-6	UGC Care list/Scopus/ Web of Science
87	Study of quasiparticle alignments	Rawan Kumar,	Physics	The European Physical	2020	ISSN: 2190-	https://epjplus.epj.org/	https://doi.org/10.1140/epjp/s13360-	UGC Care

	and electromagnetic quantities in neutron-deficient even-even $^{110-120}$Xe isotopes	Shivali Sharma, Rani Devi and S.K. Khosa		Journal Plus		5444 (Electronic Edition)		020-00367-y	list/Scopus/ Web of Science
88	Systematic study of nuclear structure properties of proton-rich even-even tellurium isotopes with the Gogny energy density functional	Shivali Sharma and Rani Devi	Physics	Indian Journal of Pure & Applied Physics	2020	ISSN: 0975-1041 (Online) ISSN: 0019-5596 (Print)	http://nopr.niscair.res.in/handle/123456789/63	http://nopr.niscair.res.in/handle/123456789/54494	UGC Care list/Scopus/ Web of Science
89	Study of light tellurium isotopes along the yrast line	Shivali Sharma, Rani Devi and S.K. Khosa	Physics	Chinese Journal of Physics	2020	ISSN: 0577-9073	https://www.journals.elsevier.com/chinese-journal-of-physics	https://doi.org/10.1016/j.cjph.2020.05.022	
90	Microscopic study of band structures of neutron-rich ^{153,155,157}Sm	Rakesh K. Pandit, Shivali Sharma, Rani Devi and S.K. Khosa	Physics	The European Physical Journal Plus	2020	ISSN: 2190-5444 (Electronic	https://epjplus.epj.org/	https://doi.org/10.1140/epjp/s13360-020-00845-3	UGC Care list/Scopus/ Web of Science

	isotopes					Edition)			
91	Effect of Pd concentration on the structural, morphological and photodiode properties of TiO2 nanoparticles	Bikram Singh, Sandeep Arya, Asha Sharma, Prerna Mahajan, Jyoti Gupta, Anoop Singh, Sonali Verma, Pankaj Bandhoria, Vishal Bharti	Physics	Journal of Materials Science: Materials in Electronics	2020	0957-4522	https://www.springer.com/journal/10854	https://link.springer.com/article/10.1007/s10854-019-01095-5	
92	Recent Advances and Challenges in Indium Gallium Nitride (InxGa1-xN) Materials for Solid State Lighting	Ravinder Kour, Sandeep Arya, Sonali Verma, Anoop Singh, Prerna Mahajan, Ajit Khosla	Physics	ECS Journal of Solid State Science and Technology	2020	2162-8769	https://iopscience.iop.org/journal/2162-8777	https://iopscience.iop.org/article/10.1149/2.0292001JSS	

93	Comparative study of PTB7:PC71BM based polymer solar cells fabricated under different working environments	Ram Datt, Sandeep Arya, Swati Bishnoi, Ramashanker Gupta, Vinay Gupta, Ajit Khosla	Physics	Microsystem Technologies	2020	0946-7076	https://www.springer.com/journal/542	https://link.springer.com/article/10.1007/s00542-019-04687-7	
94	Eu doped NaYF4@Er:TiO2 nanoparticles for tunable ultraviolet light based anti-counterfeiting applications	Anoop Singh, Sandeep Arya, Manika Khanuja, Aurengzeb K Hafiz, Ram Datt, Vinay Gupta, Ajit Khosla	Physics	Microsystem Technologies	2020	0946-7076	https://www.springer.com/journal/542	https://link.springer.com/article/10.1007/s00542-019-04734-3	
95	Ultraviolet Quantum Cutting through down Conversion Luminescence Behaviour of Er3+	A Tomar, M Singh, S Singh, L Sharma, S Arya, S Kasana	Physics	Integrated Ferroelectrics	2020	1058-4587	https://www.tandfonline.com/toc/ginf20/current	https://www.tandfonline.com/doi/full/10.1080/10584587.2019.1674983	

	Substituted Sr0.7Bi2.2Nb 2O9 (BLFS) Ceramics								
96	Template Based Electrochemic al Synthesis of Copper (Cu) Nanowires as CH2Cl2 Sensor	J Gupta, S Arya, A Singh, S Verma, A Sharma, B Singh, A Tomar	Physics	Integrated Ferroelectrics	2020	1058-4587	https:// www.tandfonline.com/toc/ ginf20/current	https:// www.tandfonline.com/ doi/full/ 10.1080/10584587.2019 .1674990	
97	Review— Recent Advances in Carbon Nanomaterials as Electrochemic al Biosensors	R Kour, S Arya, S. J Young, V Gupta, P Bandhoria, A Khosla	Physics	Journal of The Electrochemical Society	2020	0013-4651	https://iopscience.iop.org/ journal/1945-7111	https:// iopscience.iop.org/ article/10.1149/1945- 7111/ab6bc4	
98	Performance of electrochemic ally synthesized Nickel-Zinc and Nickel-Iron (Ni-Zn//Ni-Fe)	Sonali Verma, Ajit Khosla, Sandeep Arya	Physics	Journal of the Electrochemical Society	2020	0013-4651	https://iopscience.iop.org/ journal/1945-7111	https:// iopscience.iop.org/ article/10.1149/1945- 7111/abaf72	

	nanowires as battery type supercapacitor								
99	Improved performance of solution processed organic solar cells with an additive layer of sol-gel synthesized ZnO/CuO core/shell nanoparticles	Prerna Mahajan, Anoop Singh, Sandeep Arya	Physics	Journal of Alloys and Compounds	2020	0925-8388	https://www.journals.elsevier.com/journal-of-alloys-and-compounds	https://www.sciencedirect.com/science/article/abs/pii/S0925838819335388	
100	Morphological and Optical Characterization of Sol- Gel Synthesized Ni-Doped ZnO Nanoparticles	Prerna, S Arya, A Sharma, B Singh, A Tomar, S Singh, R Sharma	Physics	Integrated Ferroelectrics	2020	1058-4587	https://www.tandfonline.com/toc/ginf20/current	https://www.tandfonline.com/doi/full/10.1080/10584587.2019.1674992	
101	Sol-Gel Synthesis of Zn Doped MgO Nanoparticles and Their	A Sharma, S Arya, B Singh, Prerna, A Tomar, S Singh, R	Physics	Integrated Ferroelectrics	2020	1058-4587	https://www.tandfonline.com/toc/ginf20/current	https://www.tandfonline.com/doi/full/10.1080/10584587.2019.1674993	

	Applications	Sharma							
102	High performance asymmetric supercapacitor based on vertical nanowire arrays of a novel Ni@Co-Fe LDH core@shell as negative and Ni(OH)2 as positive electrode	Sonali Verma, Vinay Gupta, Ajit Khosla, Suresh Kumar, Sandeep Arya	Physics	Nanotechnology	2020	0957-4484	https://iopscience.iop.org/journal/0957-4484	https://pubmed.ncbi.nlm.nih.gov/32109899/	
103	Synthesis of SnO2 nanowires as a reusable and flexible electrode for electrochemical detection of riboflavin	Asha Sharma, Ajit Khosla, Sandeep Arya	Physics	Microchemical Journal	2020	0026-265X	https://www.journals.elsevier.com/microchemical-journal	https://www.sciencedirect.com/science/article/abs/pii/S0026265X19333636	
104	Preparation of CdS and CdS@Zn3(PO4)2	Sandeep Arya, Asha Sharma, Anoop	Physics	Russian Journal of Inorganic Chemistry	2020	0036-0236	https://www.springer.com/journal/11502	https://link.springer.com/article/10.1134%2FS00360236	

	Nanocomposites by Sol-Gel Method: DFT Study and Effect of Temperature on Band Gap	Singh, Aamir Ahmed, Sarika Mahajan						20090016	
105	Realization of Inverted Organic Solar Cells by Using Sol-Gel Synthesized ZnO/Y2O3 Core/Shell Nanoparticles as Electron Transport Layer	Prerna Mahajan, Anoop Singh, Ram Datt, Vinay Gupta, Sandeep Arya	Physics	IEEE Journal of Photovoltaics	2020	2156-3381	https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=5503869	https://ieeexplore.ieee.org/iel7/5503869/9234083/09169690.pdf	
106	Synthesis of Au-SnO2 nanoparticles for electrochemical determination of vitamin B12	A Sharma, S Arya, D Chauhan, PR Solanki, S Khajuria, A Khosla	Physics	Journal of Materials Research and Technology	2020	2238-7854	https://www.journals.elsevier.com/journal-of-materials-research-and-technology	https://www.sciencedirect.com/science/article/pii/S2238785420318858	
107	Flexible	SJ Young,	Physics	ACS Applied	2020	2637-6113	https://pubs.acs.org/	https://pubs.acs.org/	

	Ultraviolet Photodetectors Based on One-Dimensional Gallium-doped Zinc Oxide Nanostructures	YH Liu, MDNI Shiblee, K Ahmed, LT Lai, L Nagahara, T Thundat, T Yoshida, S Arya, H Furukawa, A Khosla		Electronic Materials			journal/aaembp	doi/10.1021/acsaelm.0c00556	
108	A comprehensive review on synthesis and applications of single crystal perovskite Halides	Sandeep Arya, Prerna Mahajan, Ramashanker Gupta, Ritu Srivastava, Naveen kumar Tailor, Soumitra Satapathi, R. Radhakrishnan Sumathi, Ram Datt, Vinay Gupta	Physics	Progress in Solid State Chemistry	2020	0079-6786	https://www.journals.elsevier.com/progress-in-solid-state-chemistry	https://www.sciencedirect.com/science/article/abs/pii/S0079678620300194	
109	Multi-walled carbon nanotubes decorated	Sheng-Joue Young, Yi Liu, Zheng Lin,	Physics	Journal of The Electrochemical Society	2020	0013-4651	https://iopscience.iop.org/journal/1945-7111	https://iopscience.iop.org/article/10.1149/1945-7111/abd1be	

	with silver nanoparticles for acetone gas sensing at room temperature	Kukkum Ahmed, MD Nahin Islam Shiblee, Sean Romanuik, Praveen Sekhar, Sandeep Arya, Rafiq Ahmad, Thomas Thundat, Larry Nagahara, Hidemitsu Furukawa, Ajit Khosla							