

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 _x S _y MSEL D stack thin films: Processing, characteristics and devices for photonic applications	Arun Banotra, Naresh Padha	Physics	Solar Energy	2020	0038-092 X	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 CuIn _{1-x} Al _x Se ₂ (CIAS) thin film thickness and diode annealing	Usha Parihar, Jaymin Ray, C J Panchal, narish Padha	Physics	Bulletin of Materials Science	2020	0250-470 7	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 -In ₂ Se ₃ monolayer from multifaceted In _x Se _y 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 CuInSe ₂ 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 of a	G. Sharma, A.Uppal, S. Anthal, M.B. Deshmukh, P.P.	Physics	Eur. J. Chem.	2020	2153-2249	www.eurjchem.com	https://doi.org/10.5155/eurjchem.11.4.324-333.2028	No

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

7	<p>Synthesis, FTIR, UV-VIS, DFT studies and SCXRD structure of 1-(tert-butyl) 3-ethyl 3-(hydroxy(4-hydroxyphen-2-yl)methyl)pyridine-1,3-dicarboxylate</p>	<p>V.D. Singh, A. Uppal^a, Kamni, Y. Khajuria, R. Srinivasan, B. Narayana, B. K. Sarojini, S. Anthal & <u>RAJNI KANT</u>*</p>	Physics	Ind J Chem sec. B	2020	0975-0983	http://nopr.niscair.res.in	NA	Yes
8	<p>Structural studies on thiosalicylate complexes of Zn(II) & Hg(II). First insight into Zn(II)-thiosalicylate complex as potential antibacterial, antibiofilm and anti-tumour agent</p>	<p>Mousumi Nayak, Ashish Kumar Singh, Pradyot Prakash, <u>RAJNI KANT</u> and Subrato Bhattacharya</p>	Physics	Inorganica Chimica Acta	2020	0020-1693	https://www.sciencedirect.com	https://doi.org/10.1016/j.ica.2019.119263	Yes

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	<i>Phys.Lett.B</i> 800 (2020) 135043	2020	0370-2693	https://www.journals.elsevier.com/physics-letters-b	doi:10.1016/j.physletb.2019.135043	yes
11	Multiplicity dependence of (multi-)strange hadron production in proton-proton collisions at $\sqrt{s} = 13$ TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta..... .et	Physics	<i>Eur.Phys.J.C</i> 80 (2020) 2, 167	2020	1434-6044	https://www.springer.com/journal/10052	doi:10.1140/epjc/s10052-020-7673-8	yes

		al.,(ALICE Collaboratio n)							
12	Global polarization of Λ 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 Collaboratio n)	Physics	<i>Phys.Rev.C</i> 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 Collaboratio n)	Physics	<i>JHEP</i> 02 (2020) 041	2020	1126-6708	https://jhep.sissa.it/jhep/	doi:10.1007/JHEP02(2020)041	yes
14	Measurements of inclusive jet spectra in pp and central Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni	Physics	<i>Phys.Rev.C</i> 101 (2020) 3, 034911	2020	2469-9985	https://journals.aps.org/prc	doi:10.1103/PhysRevC.101.034911	yes

		Gupta..... .et al.,(ALICE Collaboratio n)							
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 Collaboratio n)	Physics	<i>Phys.Rev.C 101</i> (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 Collaboratio n)	Physics	<i>Phys.Lett.B 805</i> (2020) 135414	2020	0370-2693	https://www.journals.elsevier.com/physics-letters-b	doi:10.1016/j.physletb.2 020.135414	yes
17	Measurement of electrons from semileptonic heavy-flavour hadron decays	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S.	Physics	<i>Phys.Lett.B 804</i> (2020) 135377	2020	0370-2693	https://www.journals.elsevier.com/physics-letters-b	doi:10.1016/j.physletb.2 020.135377	yes

	at midrapidity in pp and Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV	Sambyal, Dr. Ramni Gupta..... .et al.,(ALICE Collaboration)							
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	<i>Eur.Phys.J.C 80 (2020) 10, 979</i>	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 through production of $K^*(892)^0$ and $\phi(1020)$ mesons	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof. Sanjeev S. Sambyal, Dr. Ramni Gupta..... .et al.,(ALICE Collaboration)	Physics	<i>Phys.Lett.B 802 (2020) 135225</i>	2020	0370-2693	https://www.journals.elsevier.com/physics-letters-b	doi:10.1016/j.physletb.2020.135225	yes
20	Measurement of electrons from heavy-flavour	Shreyasi Acharya,..... Prof. Anju Bhasin,	Physics	<i>JHEP 02 (2020) 077</i>	2020	1126-6708	https://jhep.sissa.it/jhep/	doi:10.1007/JHEP02(2020)077	yes

	hadron decays as a function of multiplicity in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV	Prof. Sanjeev S. Sambyal, Dr. Ramni Gupta..... .et al.,(ALICE Collaboration)							
21	Global baryon number conservation encoded in net-proton fluctuations measured 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	<i>Phys.Lett.B 807 (2020) 135564</i>	2020	0370-2693	https://www.journals.elsevier.com/physics-letters-b	doi:10.1016/j.physletb.2020.135564	yes
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	<i>Phys.Lett.B 807 (2020) 135501</i>	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	Shreyasi Acharya,.....	Physics	<i>Phys.Lett.B 806</i>	2020	0370-2693	https://www.journals.elsevier.com/physics-letters-b	doi:10.1016/j.physletb.2020.135486	yes

	collisions at $\sqrt{s_{NN}}=8.16$ TeV	Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta..... .et al.,(ALICE Collaboration)		(2020) 135486					
24	Centrality and transverse momentum dependence of inclusive J/ ψ production at midrapidity 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.Lett.B 805 (2020) 135434</i>	2020	0370-2693	https://www.journals.elsevier.com/physics-letters-b	doi:10.1016/j.physletb.2020.135434	yes
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	<i>Phys.Rev.C 102 (2020) 2, 024912</i>	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 Collaboratio n)	Physics	<i>Phys.Lett.B 804 (2020) 135375</i>	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 the second order event plane 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 Collaboratio n)	Physics	<i>Phys.Rev.C 101 (2020) 6, 064901</i>	2020	2469-9985	https://journals.aps.org/prc	doi:10.1103/PhysRevC.101.064901	yes
28	Underlying Event properties in pp collisions at $\sqrt{s} = 13$ TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. RamniGuptaet al.,(ALICE Collaboratio n)	Physics	<i>JHEP 04 (2020) 192</i>	2020	1126-6708	https://jhep.sissa.it/jhep/	doi:10.1007/JHEP04(20)192	yes

		n)							
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 Collaboratio n)	Physics	<i>Phys.Rev.Lett.</i> <i>125 (2020) 1,</i> <i>012301</i>	2020	0031-9007	https://journals.aps.org/prl	doi:10.1103/PhysRevLett.125.012301	yes
30	Production of (anti-) ³ He and (anti-) ³ H 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 Collaboratio n)	Physics	<i>Phys.Rev.C 101</i> <i>(2020) 4,</i> <i>044906</i>	2020	2469-9985	https://journals.aps.org/prc	doi:10.1103/PhysRevC.101.044906	yes
31	Probing the effects of strong electromagnetic fields with charge-dependent directed flow in Pb-Pb	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni	Physics	<i>Phys.Rev.Lett.</i> <i>125 (2020) 2,</i> <i>022301</i>	2020	0031-9007	https://journals.aps.org/prl	doi:10.1103/PhysRevLett.125.022301	yes

	collisions at the LHC	Gupta..... .et al.,(ALICE Collaboratio n)							
32	Υ production in p-Pb collisions at $\sqrt{s_{NN}}=8.16$ TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. RamniGuptaet al.,(ALICE Collaboratio n)	Physics	<i>Phys.Lett.B 806 (2020) 135486</i>	2020	0370-2693	https://www.journals.elsevier.com/physics-letters-b	doi:10.1016/j.physletb.2020.135486	yes
33	Investigation of the p- $\Sigma 0$ interaction via femtoscopy in pp collisions	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta..... .et al.,(ALICE Collaboratio n)	Physics	<i>Phys.Lett.B 805 (2020) 135419</i>	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	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S.	Physics	<i>JHEP 06 (2020) 147</i>	2020	1126-6708	https://jhep.sissa.it/jhep/	doi:10.1007/JHEP06(2020)147	yes

	$\sqrt{s_{NN}}=5.02$ TeV	Sambyal, Dr. Ramni Gupta..... .et al.,(ALICE Collaboratio n)							
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 n)	Physics	<i>JHEP</i> 05 (2020) 085	2020	1029-8479	https://www.springer.com/journal/13130/	doi = "10.1007/JHEP05(2020)085"	yes
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 Collaboratio n)	Physics	<i>JHEP</i> 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 $\sqrt{s}=13$ TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta..... .et al.,(ALICE Collaboratio n)	Physics	<i>Eur.Phys.J.C</i> 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 in pp collisions at $\sqrt{s}=13$ TeV	S. Acharya, Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta..... .et al.,(ALICE Collaboratio n)	Physics	<i>Eur.Phys.J.C</i> 80 (2020) 9	2020	1434-6044	https://www.springer.com/journal/10052	doi = "10.1140/epjc/s10052-020-8125-1"	yes
39	Measurement of nuclear effects on $\psi(2S)$ production in	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof .	Physics	<i>JHEP</i> 07 (2020) 237	2020	1029-8479	https://www.springer.com/journal/13130	doi = "10.1007/JHEP07(2020)237"	yes

	p-Pb collisions at $\sqrt{s}=8.16$ TeV	Sanjeev S. Sambyal, Dr. Ramni Gupta..... .et al.,(ALICE Collaboration)							
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..... .et al.,(ALICE Collaboration)	Physics	<i>Phys.Lett.B</i> 811 (2020)	2020	0370-2693	https://www.sciencedirect.com/journal/physics-letters-b	doi = "10.1016/j.physletb.2020.135849"	yes
41	J/ ψ production as a function of charged-particle multiplicity 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	<i>JHEP</i> 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 Collaboratio n)	Physics	<i>Phys.Rev.Lett.</i> 125 (2020) 16	2020	0031-9007	https://journals.aps.org/prl/	doi = "10.1103/PhysRevLett. 125.162001"	yes
43	Multiplicity dependence of J/ψ production at midrapidity in pp collisions at $\sqrt{s} = 13$ TeV	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta..... .et al.,(ALICE Collaboratio n)	Physics	<i>Phys.Lett.B</i> 810 (2020) 135758	2020	0370-2693	https://www.sciencedirect.com/journal/physics-letters-b	doi = "10.1016/j.physletb.202 0.135758"	yes
44	Z-boson production in p-Pb collisions at $\sqrt{s_{NN}}=8.16$ TeV and Pb-Pb	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal,	Physics	<i>JHEP</i> 09 (2020) 076	2020	1029-8479	https://www.springer.com/journal/13130	doi = "10.1007/JHEP09(2020) 076"	yes

	collisions at $\sqrt{s_{NN}}=5.02$ TeV	Dr. Ramni Gupta..... .et al.,(ALICE Collaboration)							
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 Collaboration)	Physics	<i>Nature</i> 588 (2020) 232-238	2020	0028-0836	https://www.nature.com	doi = "10.1038/s41586-020-3001-6"	yes
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 Collaboratio n)	Physics	<i>JHEP</i> 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)deuterons 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 Collaboratio n)	Physics	<i>Phys.Rev.C</i> 102 (2020) 5	2020	2469-9985	https://journals.aps.org/prc	doi = "10.1103/PhysRevC.102.055203"	yes
49	Constraining the Chiral Magnetic Effect with charge-dependent azimuthal correlations in	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni	Physics	<i>JHEP</i> 09 (2020) 160	2020	1029-8479	https://www.springer.com/journal/13130	doi = "10.1007/JHEP09(2020) 160"	yes

	Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV	Gupta..... .et al.,(ALICE Collaboration)							
50	Production of ω mesons in pp collisions at $\sqrt{s} = 7\text{TeV}$	Shreyasi Acharya,..... Prof. Anju Bhasin, Prof . Sanjeev S. Sambyal, Dr. Ramni Gupta..... .et al.,(ALICE Collaboration)	Physics	<i>Eur.Phys.J.C</i> 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,.....Pr of. Anju Bhasin.....et al.,(STAR Collaboration)	Physics	<i>Phys.Rev.D</i> 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,.....Pr of. Anju Bhasin....et al.,(STAR Collaboration)	Physics	<i>Phys.Rev.C</i> 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 collisions at $\sqrt{s_{NN}} = 200$ GeV	Jaroslav Adam,.....Pr of. Anju Bhasin....et al.,(STAR Collaboration)	Physics	<i>Phys.Lett.B</i> 809 (2020)	2020	0370-2693	https://www.sciencedirect.com/journal/physics-letters-b	10.1016/j.physletb.2020.135728	yes
54	Measurement of inclusive charged-particle jet production in Au + Au collisions at $\sqrt{s_{NN}} = 200$ GeV	Jaroslav Adam,.....Pr of. Anju Bhasin....et al.,(STAR Collaboration)	Physics	<i>Phys.Rev.C</i> 102 (2020) 5	2020	2469-9993	https://journals.aps.org/prc	10.1103/PhysRevC.102.054913	yes
55	Measurement	Jaroslav Adam,.....Pr of. Anju	Physics	<i>JHEP</i> 07 (2020) 07,	2020	1029-8479	https://www.springer.com/journal/	10.1007/JHEP07(2020)178	yes

	of the central exclusive production of charged particle pairs in proton-proton collisions at $\sqrt{s_{NN}} = 200$ GeV with the STAR detector at RHIC	Bhasin....et al.,(STAR Collaboratio n)							
56	Results on total and elastic cross sections in proton-proton collisions at $\sqrt{s_{NN}} = 200$ GeV	JJaroslav Adam,.....Pr of. Anju Bhasin....et al.,(STAR Collaboratio n)	Physics	<i>Phys.Lett.B</i> 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,.....Pr of. Anju Bhasin....et al.,(STAR Collaboratio n)	Physics	<i>Phys.Lett.B</i> 811 (2020)	2020	0370-2693	https://www.sciencedirect.com/journal/physics-letters-b	10.1016/j.physletb.2020.135846	yes

58	Beam energy dependence of net- Λ fluctuations measured by the STAR experiment at the BNL Relativistic Heavy Ion Collider	Jaroslav Adam,.....Prof. Anju Bhasin....etal.,(STAR Collaboration)	Physics	<i>Phys.Rev.C</i> 102 (2020) 2,	2020	2469-9993	https://journals.aps.org/prc	10.1103/PhysRevC.102.024903	yes
59	Underlying event measurements in p+pp+pp+p collisions at $\sqrt{s_{NN}} = 200$ GeV at RHIC energy	Jaroslav Adam,.....Prof. Anju Bhasin....etal.,(STAR Collaboration)	Physics	<i>Phys.Rev.D</i> 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 collisions at $\sqrt{s_{NN}} = 200$ GeV	J. Adam,.....Prof. Anju Bhasin....etal.,(STAR Collaboration)	Physics	<i>Phys.Rev.C</i> 102 (2020) 1	2020	2469-9993	https://journals.aps.org/prc	10.1103/PhysRevC.102.014905	yes

61	First measurement of Λ_c baryon production in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV	Jaroslav Adam,.....Pr of. Anju Bhasin....et al.,(STAR Collaboration)	Physics	<i>Phys.Rev.Lett.</i> 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+Au collisions at $\sqrt{s_{NN}} = 14.5$ GeV at the BNL STAR detector	Jaroslav Adam,.....Pr of. Anju Bhasin....et al.,(STAR Collaboration)	Physics	<i>Phys.Rev.C</i> 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	Jaroslav Adam,.....Pr of. Anju Bhasin....et al.,(STAR Collaboration)	Physics	<i>Phys.Rev.C</i> 101 (2020) 1	2020	2469-9993	https://journals.aps.org/prc	10.1103/PhysRevC.101.014916	yes

	collisions								
64	New pyrazolyl-dibenzo[<i>b,e</i>][1,4]diazepinones: room temperature one-pot synthesis and biological evaluation	Gaurang Kumar C. Brahmhat, Tushar R. Sutariya, Hiralben D. Atara, Narsidas J. Parmar, Vivek K. Gupta, Irene Lagunes, José M. Padrón, Prashant R. Murumkar & Mange Ram Yadav	Post-Graduate Department of Physics, University of Jammu	<i>Molecular Diversity</i>	2020	1381-1991	https://www.springer.com/journal/11030	https://link.springer.com/article/10.1007/s11030-019-09958-z	Yes
65	Dioxidovanadium (V) complexes of a tridentate ONO Schiff base ligand: Structural characterization, quantum	Neetu Patela, A.K. Prajapati, R.N. Jadeja, R.N. Patel, S.K. Patel, I.P. Tripathi, N.	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

	chemical calculations and in-vitro antidiabetic activity	Dwivedi , Vivek K. Gupta, Raymond.J . Butcher							
66	Triflic Acid Functionalized Carbon@Silica Composite: Synthesis and Applications in Organic Synthesis; DFT Studies of Indeno[1,2-b]indole	Shally Sharma, Harsha Sharma, Sukanya Sharma, Satya Paul, Vivek K. Gupta, Nordine Boukabcha , and Abdelkader Chouaih	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
67	Mandelic acid catalyzed one-pot three-component	Gurpreet Kaur, Mussarat Shamim, Vaishali Bhardwaj,	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:jAoW65jWTDCDI4xeZ	Yes

	synthesis of -aminonitriles and -aminophosphonates under solvent-free conditions at room temperature.	Vivek Kumar Gupta, Bubun Banerjee						dya2D_D4sjpw3SucuHrHLvLo8AJ4W10eoe0J9qcO9yT8xebE8mQNWxQhmBxQ	
68	Design, Synthesis, Characterization, and Crystallographic Behaviour of Some Biologically Important Chromene-Annulated Spiro-Oxindoles: A Drive to Introspect the Comparative	Sakshi 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/S1063774520070147	Yes

	Structural Information								
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 fluoroquinolones and an N-donor co-ligand: Structures and biological application	M. Lawal, J.A. Obaleye, R.N. Jadeja, M.O. Bamigboye, Vivek K. Gupta, H. Roy, I.U. Shaikh	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/S0277538720304101	Yes

71	Synthesis, Characterization, and Crystal Structure of (E)-4-(2-(4-Cyanobenzylidene)hydrazinyl)benzotriole 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-aminobenzothiazol and 1-methylisatin co-crystal.	Varun Sharma, Gurpreet Kaur, Arvind Singh, Bubun Banerjee 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/S1063774520070172	Yes

73	X-Ray Crystal Structure Analysis of Novel 6-Amino-3-Phenyl-4-(Pyridin-4-yl)-2,4-Dihydro pyrano[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''-terphenyl]-4',4',6'(1'H)-tricarbonitrile-dimethyl sulfoxide	Anjali Sharma, Khandekar Nurjamal, Bubun Banerjee, 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/S1063774520070196	Yes
75	Copper(II) Mixed-Ligand Complexes with Fluoroquinolones and an N-Donor	M.Lawal, J.A.Obaleye, R.N.Jadeja, M.O.Bami gboye, Vivek	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

	Co-Ligand: Structures and Biological Application	Kumar Gupta, H.Roy, I.U.Shaikh							
76	Dioxidovanadium(V) complexes of a tridentate ONO Schiff base ligand: Structural characterization, quantum chemical calculations and in-vitro antidiabetic activity	Neetu Patel, A.K.Prajapati, R.N.Jadeja, R.N.Patel, S.K.Patel, I.P.Tripathi, N.Dwivedi, Vivek Kumar Gupta, Raymond.J .Butcher	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

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 and Applications in Organic Synthesis; DFT Studies of Indeno[1,2-b]indole	Shally Sharma, Harsha Sharma, Sukanya Sharma, Satya Paul, Vivek K. Gupta, Nordine Boukabcha, Abdelkader Chouaih	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

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	<i>Curr. Green Chem.</i>	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	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=NmdhIXyuZugAAAAA:njFyWyFwE3Snf8GmwtKklvPW32D-8Lc1BEdxNzTUHVqXOfH9NLSO3yRZGsXHIqrakSq0W5BA_7Q-oi	Yes

	of Ketone to Alcohol								
81	Systematic study of odd-mass $^{151-161}\text{Pm}$ and $^{154,156}\text{Pm}$ 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 medium mass even-even Xenon isotopes from a	Surbhi Gupta ., Ridham Bakshi ., Suram Singh ., Arun Bharti ., G. H. Bhat ., J. A. Sheikh .,	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

	microscopic perspective								
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 Spectroscopic Properties of NdVO ₄ Nanoparticles	Bindu Raina, Seema Verma, Sonali Thakur, Yaseen Ahmad, K. K. Bamzai	Department of Physics	Integrated Ferroelectrics	2020	1058-4587	https://www.tandfonline.com/toc/ginf20/current	10.1080/10584587.2019.1674997	Scopus

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 $^{117,119,121}\text{Cs}$	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/epip/s13360-020-00103-6	UGC Care list/Scopus/Web of Science
87	Study of quasiparticle alignments and electromagnetic quantities in neutron-deficient	Rawan Kumar, Shivali Sharma, Rani Devi and S.K. Khosa	Physics	The European Physical Journal Plus	2020	ISSN: 2190-5444 (Electronic Edition)	https://epjplus.epj.org/	https://doi.org/10.1140/epip/s13360-020-00367-y	UGC Care list/Scopus/Web of Science

	even-even $^{110-120}\text{Xe}$ isotopes								
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 $^{153,155,157}\text{Sm}$ isotopes	Rakesh K. Pandit, Shivali Sharma, Rani Devi and S.K. Khosa	Physics	The European Physical Journal Plus	2020	ISSN: 2190-5444 (Electronic Edition)	https://epjplus.epj.org/	https://doi.org/10.1140/epjp/s13360-020-00845-3	UGC Care list/Scopus/Web of Science

91	Effect of Pd concentration on the structural, morphological and photodiode properties of TiO ₂ nanoparticles	Bikram Singh, Sandeep Arya, Asha Sharma, Prema 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 (In _x Ga _{1-x} N) Materials for Solid State Lighting	Ravinder Kour, Sandeep Arya, Sonali Verma, Anoop Singh, Prema 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:PC71B M based polymer solar	Ram Datt, Sandeep Arya, Swati Bishnoi, Ramashanke	Physics	Microsystem Technologies	2020	0946-7076	https://www.springer.com/journal/542	https://link.springer.com/article/10.1007/s00542-019-04687-7	

	cells fabricated under different working environments	r Gupta, Vinay Gupta, Ajit Khosla							
94	Eu doped NaYF ₄ @Er:T iO ₂ 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		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 Er ³⁺ Substituted Sr _{0.7} Bi _{2.2} Nb ₂ O ₉ (BLFS) Ceramics	A Tomar, M Singh, S Singh, L Sharma, S Arya, S Kasana	Physics		2020		1058-4587	https://www.tandfonline.com/toc/ginf20/current	https://www.tandfonline.com/doi/full/10.1080/10584587.2019.1674983

96	Template Based Electrochemical Synthesis of Copper (Cu) Nanowires as CH ₂ Cl ₂ 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 Electrochemical 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 electrochemically synthesized Nickel-Zinc and Nickel-Iron (Ni-Zn//Ni-Fe) nanowires as battery type supercapacitor	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	

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 Applications	A Sharma, S Arya, B Singh, Prerna, 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/10.1080/10584587.2019.1674993	
102	High performance		Physics	Nanotechnology	2020	0957-4484	https://iopscience.iop.org/journal/0957-4484	https://pubmed.ncbi.nlm.nih.gov/32109899/	

	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							
103	Synthesis of SnO ₂ nanowires as a reusable and flexible electrode for electrochemical detection of riboflavin	Asha Sharma, Ajit Khosla, Sandeep Arya	Physics		2020	0026-265 X	https://www.journals.elsevier.com/microchemical-journal	https://www.sciencedirect.com/science/article/abs/pii/S0026265X19333636	
104	Preparation of CdS and CdS@Zn ₃ (PO ₄) ₂ Nanocomposites by Sol-Gel Method: DFT Study and Effect of	Sandeep Arya, Asha Sharma, Anoop Singh, Aamir Ahmed, Sarika Mahajan	Physics		2020	0036-0236	https://www.springer.com/journal/11502	https://link.springer.com/article/10.1134%2FS0036023620090016	

	Temperature on Band Gap								
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 Ultraviolet Photodetectors Based on One-Dimensional Gallium-doped	SJ Young, YH Liu, MDNI Shiblee, K Ahmed, LT Lai, L Nagahara, T	Physics	ACS Applied Electronic Materials	2020	2637-6113	https://pubs.acs.org/journal/aaembp	https://pubs.acs.org/doi/10.1021/acsaem.0c00556	

	d Zinc Oxide Nanostructures	Thundat, T Yoshida, S Arya, H Furukawa, A Khosla								
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		2020		Progress in Solid State Chemistry	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 with silver nanoparticles for acetone gas sensing at room temperature	Sheng-Joue Young, Yi Liu, Zheng Lin, Kukum Ahmed, MD Nahin Islam Shiblee, Sean Romanuik, Praveen	Physics		2020		Journal of The Electrochemical Society	0013-4651	https://iopscience.iop.org/journal/1945-7111	https://iopscience.iop.org/article/10.1149/1945-7111/abd1be

		Sekhar, Sandeep Arya, Rafiq Ahmad, Thomas Thundat, Larry Nagahara, Hidemitsu Furukawa, Ajit Khosla							
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