

S. No.	Name of activity	Name of the award/recognition	Year of Award	National/International	Awarding Agency

13. Ph.D. supervised

S. No.	Name of the Ph.D. scholar	Title of the thesis	Year of registration of the scholar	Year of award of Ph.D.
1	Ankit Kumar Vishwakarma	A study on Thin film gas sensors for Hydrocarbons	2014	2020
2	Ritesh Verma	Some studies based on MOS/Thick film gas sensors for detection and discrimination of gases and organic vapors		2014
3	Vineet Kumar Yadav	A Study on some Cosmological models in General Relativity		2011
4	Naveen Chand Gupta	Studies on Titanium Dioxide based MOS gas Sensors		2008
5	Anil Kumar Yadav	A Study on Cosmological models in Gravitational theory		2008

14. Research/Review Papers published

Sr. No	Title of paper	Name of the author/s	Name of journal	ISSN number	Link to the recognition in UGC enlistment of the Journal
1.	Sensing Properties of CdS-doped Tin-oxide thick Film Gas Sensor,	LallanYadava, RiteshVerma and R. Dwivedi	Sensors and Actuators B (2009)	0925-4005	Yes 3.840
2.	A Titanium Dioxide Based MOS Hydrogen Sensor	Lallan Yadav, R.Dwivedi & S.K.Srivastava	Solid State Electronics (1990)	0038-1101	Yes 1.482
3	Sensing behavior and mechanism of titanium dioxide-based MOS hydrogen sensor,	Lallan Yadav, Naveen Chandra Gupta, R. Dwivedi & Ravi S. Singh	Microelectronics Journal (2007)	0026-2692	Yes 0.912
4.	Detection and sensing mechanism of acetone with modeling using Pd/TiO ₂ /Si structure,	LallanYadava, <i>Ritesh Verma, Ravi S. Singh</i>	Thin Solid Films (2012)	0040 -6090	Yes 1.604
5	Hydrogen Gas Micro Sensor Based on SiO ₂ and TiO ₂ Systems	Lallan Yadav, P.K. Yadava, R.Dwivedi & S.K.Srivastava	J. of Institution of Electronics and Telecommunication Engineers		Yes
6.	Squeezing in hidden optical-polarization generated by chaotic light in degenerate parametric	<i>Ravi S. Singh,</i> LallanYadav and Gyaneshwar Gupta	Journal of Physical science (2011)	0975-5519	Yes

	amplification,				
7	Squeezing in Hidden Optical-Polarization by Degenerate Parametric Amplifier,	Gyaneshwar K. Gupta, Lallan Yadav and Ravi S. Singh	Rom. Journ. Phys (2012)	1221-146X	Yes 0.526
8	Detection of propanol gas using titanium dioxide based thick film,	<i>A K Vishwakarma, L Yadava</i>	IOP Conference Series: Materials Science and Engineering (2018)		IF= 0.25
9	Fabrication and characterization of CdS doped ZnO Nano Thick Films	<i>A K Vishwakarma, L Yadava</i>	Vacuum (2018)		Yes, 2.51
10	Fabrication and characterization of Nano-TiO ₂ Thin Film Using Physical Vapor Deposition Method	<i>A K Vishwakarma, L Yadava</i>	Advanced Science, Engineering and Medicine, ASP (2018)		Yes, 0.98
11	Detection of Trichloroethylene (TCE), Using pd/TiO ₂ /Si MOS Sensor,	Lallan Yadav, R.Dwivedi & S.K.Srivastava	International Society for Hybrid Microelectronics (1992)		Yes
12	XANES analysis and structural properties of CdS-doped TiO ₂	<i>A K Vishwakarma, S S majid, L Yadava</i>	Vacuum (2019)		Yes, 2.51
13	Structural and Sensing Characteristics of CdS-TiO ₂ film as LPG Sensor at Room Temperature	<i>A K Vishwakarma, L Yadava</i>	Asian Resonance (2018)		Yes SJIF=5.70
14	Microstructural properties and sensing behavior of SnO ₂ gas sensor	<i>A K Vishwakarma, L Yadava</i>	International Research Journal of Management Science & Technology (2018)		Yes
15	Discrimination of Gases/Vapors with Tin Oxide Sensors,	Lallan yadav, Ritesh Verma	J. Sci. & Tech. Res. (2013)	2278-3350	Yes
16	Hydrogen sensing with Tin-Oxide thick film sensor,	LallanYadav, RiteshVerma and Ravi S. Singh	Lucknow J. Science (2011)	0974-8121	Yes
17	Ambient effect on sensing behavior of Pd-gate MOS structure for ethanol detection,	Lallan Yadav, Ritesh Verma and Ravi S. Singh	Lucknow J. Science (2011)	0974-8121	Yes
18	Sensing and structural characteristics of TiO ₂ thick film for LPG Sensor	A K Sharma, A K Vishwakarma, Lallan Yadav	Materials Today Proceedings (2021)		yes
19	Effect of CdS doping on the microstructure of titanium dioxide thin film	Ankit Kumar Vishwakarma, Lallan Yadav	AIP conference proceeding (2021)		yes

20	Structural and sensing properties of ethanol gas using Pd-doped SnO ₂ thick film gas sensor	Ankit Kumar Vishwakarma, Lallan Yadav	Environmental Science and Pollution Research (2021)		yes
21	Morphological and electronic properties of titanium dioxide thin film	A K Vishwakarma, A K Sharma, N K Yadav, P Yadav, N S K Yadav, Lallan Yadava	Materials Today Proceedings, (2021)		Yes
22	Sensing response and structural properties of CdS-TiO ₂ thick film for acetone gas sensor	A K Vishwakarma, N K Yadav , A K Sharma, Lallan Yadav	Vacuum (2021)		Yes

2. Cosmology

Sr. No	Title of paper	Name of the author/s	Name of journal	ISSN number	Link to the recognition in UGC enlistment of the Journal
23.	Bianchi type –III Anisotropic Dark Energy models with constant Deceleration parameter, vol.50 , pp 218-227, 2011	Anil Kumar Yadav, LallanYadav	Int. J. Theor. Phys.	1572-9575	Yes 1.18
24.	Generation of Bianchi Type V Cosmological Models with Varying \square - Term, vol. 55, pp 503-518,2005	A.Pradhan, Anil Kumar Yadav and Lallan Yadav	Czech. J. Phys.	1572-9486	Yes 0.57
25.	Viscous Fluid Cosmological Models in LRS Bianchi Type V Universe Varying \square , vol. 54, pp 487-498,2004	Lallan Yadav , Anil Kumar Yadav and A. Pradhan	Czech. J. Phys.	1572-9486	Yes 0.57
26.	Isotropic Homogeneous Universe with Bulk Viscous Fluid in Lyra Geometry, vol. 299, pp31-42,2005	A.Pradhan, Lallan Yadav and Anil Kumar Yadav	Astrophys. Space Sci	1572-946X	Yes 2.401
27.	Cylindrically Symmetric Inhomogeneous Universes with a Cloud of Strings, vol. 48, pp 568-578,2009. online 03 /09/08	Anil Kumar Yadav,Vineet K.Yadav and Lallan Yadav	Int. J. Theor Phys	1572-9575	Yes 1.18
28.	Hybrid expansion law for dark energy dominated universe in f(R.T.) Gravity	Anil Kumar Yadav,P.K.Srivastava, Lallan Yadav	Int. J. Theor. Phys.	0020-7748	Yes 1.18
29.	Bianchi type –III bulk viscous and barotropic perfect fluid cosmological models in Lyra's geometry, vol. 50, pp1382-1394, 2011	<i>Vineet K. Yadav</i> , LallanYadav	Int. J. Theor. Phys.	1572-9575	Yes 1.18
30	Bianchi Type- V String Cosmological Models in General Relativity,vol.76, pp 681-690, 2011	Anil Kumar Yadav, Vineet K. Yadav, LallanYadav	Pramana J. Phys	0304-4289	Yes 0.562
31	Bianchi type- V cosmological models of the universe for bulk viscous fluid distribution in general relativity expressions for some	<i>Ravi Prakash Singh</i> & LallanYadav	Romanian reports in physics	1841-8759	Yes 1.123

	observable quantities, vol. 63, pp 587-605,2011				
32	New Exact Solution of Bianchi Type V Cosmological Stiff Fluid Models in Lyra's Geometry, vol. 55 ,pp862-870 , 2010	Vineet K. Yadav, LallanYadav and Anil Kumar Yadav	Romanian J. Physics	1221-146X	Yes 0.526
33	Some Bulk Viscous Magnetized LRS Bianchi Type-I string Cosmological Models in Lyra's geometry, Vol. 58, pp 64-74, 2013	Vineet K Yadav and Lallan Ydav	Rom. Jour. Phy	1221-146X	Yes 0.526
34	Bianchi Type III Anisotropic Universes with a Cloud of Strings in Lyra's Geometry,vol. 19, pp 29-42, 2010	Vineet K. Yadav, LallanYadav and Anil Kumar yadav	Fizika B	1333-9133	Yes
35	Inhomogeneous perfect fluid universe with electromagnetic field, vol. 3-4, pp 267-273,2007	A.Pradhan,Vineet K. Yadav, Lallan Yadav , Anil Kumar Yadav	Astrophys. Space Sci	1572-946X	Yes 2.401
36	Some Bianchi Type I Cosmological Models of the Universe for Viscous fluid Distribution in Lyra Geometry, vol. 6, pp 61-78, 2009	Ravi Prakash Singh and Lallan Yadav	Electronic J. Theo. Phys	1729-5254	Yes
37	Cylindrically Symmetric magnetized Inhomogeneous string cosmological models of perfect fluid distribution with variable magnetic permeability, vol. 19, pp 305-322, 2010	<i>Ravi Prakash Singh</i> LallanYadav	Fizika B	1333-9133	Yes

15. Books and chapters in edited volumes / books published

S No.	Title of the book	Title of the chapter	National / international	Year of publication	ISBN number	Affiliating Institute at the time of publication	Name of the publisher

16. Papers in national/international conference-proceedings

S No.	Title of the proceedings of the conference	Authors name	Name of the conference	ISBN/ISSN number of the proceeding
1	Detection and Discrimination of Gases/Vapors Using Tin Oxide Thick Film Gas Sensors, pp 81-84 Mar 10-11, 2014	Lallan Yadav and Ritesh Verma	Proceedings of National Conference on Materials Science and Technology Organized by MMMTU, Gorakhpur	978-93-84224-01-1

2.	Enhancement of Ethanol Sensing properties of CdS Doped Tin-Oxide Thick Film Sensor, pp 67-69, 10-11 Mar, 2012	Lallan Yadav , Ritesh Verma and Ravi S. Singh	Proceedings of National Conference on Active and smart Materials Organized by MMMTU, Gorakhpur	978-93-82062-10-3
3.	CdS doped Tin oxide thick film sensor for acetone detection Mind share journal Vol.1, pp-62 2010	Lallan Yadav , Ritesh Verma and Ravi S. Singh	Proceedings of third National Conference on Nanomaterials and Nanotechnology,	2229-4872
4.	Tin-Oxide Liquid Petroleum Gas Sensor, pp148-149, 21-23 Dec, 2009	Lallan Yadav , Ritesh Verma and Ravi S. Singh	Proceedings of 2nd National Conference on Nanomaterials and Nanotechnology, organized by Dep. of Phys Lucknow Uni.	978-93-80043-61-6
5.	High-Spin Nano Complexes of Iron (III) with Ethylene Glycol and 3 (2' – Hydroxy Phenyl)-5-(4' - Substituted Phenyl) Pyrazolines, pp 25-27, 21-23 Dec, 2009	U.N.Tripathi, Afshan Siddiqui, Lallan Yadav , Ravi S. Singh	Proceedings of 2nd National Conference on Nanomaterials and Nanotechnology, organized by Dep. of Phys Lucknow Uni.	978-93-80043-61-6
6.	Squeezing in Hidden- Optical-Polarization States, pp , Oct 30-Nov 01, 2009	Ravi S.Singh, G.K.Gupta and Lallan Yadav	Proceedings of ICOP-2009 and XXXIV Optical Society of India Symposium, CSIO-Chandigarh	
7.	Thermo-induced Sensitivity Behaviour of a Gas Micro-Sensor , Jan 05-08, 2009	Lallan Yadav , Ritesh Verma AND Ravi S. Singh	International Conference on Transport and Optical Properties of Nanomaterials (ICOTOPON), Allahabad	
8.	Role of Nuclear Radioactive Wastes in Environment, pp 151-156, 2-3 Nov, 2007	Lallan Yadav	seminar on building world a nuclear free zone, organized by Dep. of Phys. & Politics, Uni. of Allahabad.	
9.	Temperature characteristics of Pd/TiO ₂ /Si MOS Hydrogen Sensor, pp 63-65, Mar 30-31, 1994	Lallan Yadav , R. Dwivedi and S.K. Srivastava	Proceeding of the seminar on Electronic Systems and applications, Deptt. of Electronics & Computer Engineering, Univ. Roorkee	
10.	Palladium Gate MOS Capacitor for Acetone, pp, 1993	Lallan Yadav , R. Dwivedi and S.K. Srivastava	Workshop on Physics & Semiconductor Devices, NPL, New Delhi	
11.	Pd- TiO ₂ - MOS Capacitor for hydrogen detection, pp 415-417, Nov 02-04, 1989	Lallan Yadav , R. Dwivedi and S.K. Srivastava	National conf. on Electronics Circuits and System, Roorkee	

17. Professional development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes

S.No.	Programme	Date and Duration (from – to) year	Title of the professional development Programme
1.	Short term course/workshop	Mar 22-28, 2012	U.G.C. sponsored organized by D D U Gorakhpur University, Gorakhpur
2.	Refresher course in Physics	19th Nov. – 10th Dec., 2004	U.G.C. Academic staff college, Aligarh Muslim University, Aligarh
3.	Refresher course in Physics (current trends in Physics)	7th -28th Dec., 2001	U.G.C. sponsored organized by C. C. S. University, Meerut

4.	Computer training workshop	1st -30th June, 1999	Dr. S.P.M. Gov. degree college, Allahabad and Mehta Research Inst. of mathematics & mathematical Physics, Jhusi, Allahabad
5.	Refresher course in advanced Physics	16th -30th June, 1996	Mehta Research Inst. of mathematics & mathematical Physics, Allahabad
6.	Orientation Program	1st -28th Aug., 1995	U.G.C. Academic staff college, Lucknow University

18. Research projects sponsored by government agencies

S. No.	Name of the principal Investigator	Name of the Research Project	Name of funding agency	Amount/Fund provided	Year of sanction	Duration of the project	Status (Completed/Ongoing)
1.	Dr. Lallan Yadav (Co-PI)	Design, Synthesis and characterization of Nano-hybrid materials (Nanocomposites)	UGC, New Delhi	7,42,800=00	2010	2010-2013	Completed

19. Research projects sponsored by non-government sources such as industry, corporate houses, international bodies

S. No.	Name of the principal Investigator	Name of the Research Project	Name of funding agency	Amount/Fund provided	Year of sanction	Duration of the project	Status (Completed/Ongoing)

20. Patents filed/granted

S. No.	Name of the patent filed/granted	Patent Number	Year of filing/award/ publish of patent

21. Collaborative activities with other institutions/ research establishments/industry for research and academic development

Title of the	Name of the	Year of	Duration	Nature of the activity

collaborative activity	collaborating agency with contact details	collaboration		

22. Functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research

Name of the Organisation/ Institution/ Industry with whom MoU is signed	Year of signing MoU	Duration of MoU	Actual activities under each MOU year wise

23. E-content is developed

i. For e-PG-Pathshala, ii. For CEC (Under Graduate), iii. For SWAYAM, iv. For other MOOCs platform, v. For NPTEL/NMEICT/any other Government Initiatives

Name of the module developed	Platform on which module is developed	Date of launching e content	Link to the relevant document and facility available in the institution	List of the e-content development facility available	Provide link to videos of the media centre and recording facility
UG and PG Contents	e-Pathshala DDUGU				UG: https://erp.ddugu.ac.in/epathshala_contents.aspx PG: https://erp.ddugu.ac.in/epathshala_contents.aspx

24. Consultancy and corporate training-

Consultancy

Name of consultancy project	Consulting/Sponsoring agency with contact details	Year	Revenue generated (amount in rupees)

Corporate training

Title of the	Agency seeking	Year	Revenue	Number of
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corporate training program	training with contact details		generated (amount in rupees)	trainees

25. Details of Conference/Seminar attended –

S. N.	Title of the corporate training program	Name of the conference/ workshop	Name of the professional body for which membership fee provided	International/National /State
1.	Discrimination of Gases/Vapors with Tin Oxide Sensors	5th National Conference on Nanotechnology & Material Science, Dec. 21-23, 2013	Department of Physics , University of Lucknow	National
2.	Some Irs Bianchi type –i bulk viscous magnetized string universe with decaying λ term	International Conference on “Differential Geometry and Relativity” (ICDGR-2013), Nov 09-11, 2013	The Tensor society and Department of Mathematics & Statistics D DU Gorakhpur University, Gorakhpur (U. P.) India	International
3.	Science for Shaping the Future	1st Uttar Pradesh Science Congress March 2nd-4th,2013	D.D.U. Gorakhpur University ,(U.P.) India	National
4.	Hydrogen sensing with Tin-Oxide thick film sensor	16th National Seminar of Physics & Technology of Sensors (NSPTS-16), Feb 11-13, 2011	Department of Physics , University of Lucknow	National
5.	Some LRS Bianchi Type-I universe with a cloud of strings in Lyras geometry	National Conference on “Recent Trends in Pure & Applied M Mathematics” (CORTPAM-2011), Jun 24-25, 2011	Department of Mathematics & Statistics D DU Gorakhpur University, Gorakhpur (U. P.) India	National
6.	Sensing behavior of Pd-TiO ₂ -Si MOS sensor for hydrocarbons	Eighth National Conference on the Topic “multidisciplinary Applications of Mathematical sciences”, Feb 19-20, 2011	Indian Society of mathematics and Mathematical Sciences (ISMAMS)	National
7.	Thermo-induced sensitivity behavior of a gas	ICOTOPON,Allahabad	University of Allahabad	International Jan.05-08,2009
8.	Tin-Oxide Liquid Petroleum Gas Sensor	2nd National Conference on Nanomaterials and Nanotechnology, Dec 21-23, 2009	Department of Physics , University of Lucknow	National
9.	Temperature characteristics of Pd/TiO ₂ /Si MOS Sensor	14th annual Conference of the Purvanchal Academy of Sciences, Feb. 19-20,2005	T. D. Post Graduate College , Jaunpur-222002, India	National
10.	A Pd/TiO ₂ MOS Sensor	U.P. Govt. Acad Society	K. N. P. G. college,	State

	Detecting Organic Vapours and Hydrocarbon	Tenth Annual Conf, Mar 9-10, 2002	Gyanpur, SRN, Bhadohi, India	
11.	Effect of temperature on the Pd/TiO ₂ -Si MOS hydrogen sensor	U.P. Govt. Acad Society Ninth Annual Conf, Dec 19-20, 2000	Govt. Girls P. G. College, Gajipur, India	State
12.	Detection of acetone using Pd-TiO ₂ -Si MOS sensor	U.P. Govt. Acad Society Eighth Annual Conf, Nov. 22-23, 1997	Govt. P. G. college, Ramnagar (Nanital), INDIA	State
13.	Hydrogen sensitive Pd-TiO ₂ -Si MOS sensor	U.P. Govt. Acad Society Seventh Annual Conf, Dec 8-9, 1996	M. B. Govt. P. G. College, Haldwani (Nanital), INDIA	State
14.	Palladium Gate MOS Sensor for organic vapours	U.P. Govt. Academic Society Gyanpur, Bhadohi, 1995	U.P. Govt. Academic Society Gyanpur, Bhadohi, 1995.	State

26. Any other information: