

Curriculum Vitae



Name : **Kanhaiya Lal Yadav**

Date of Birth : 31-12-1965

Present Position & Address : **Professor, Department of Physics, IIT Roorkee, India**
Faculty Member, Center of Nanotechnology, IIT Roorkee, India

Specialization : Experimental Condensed Matter Physics (Electroceramics, Functional Nanomaterials and Biomaterials)

Academic Qualifications : B.Sc. (Hons.) Physics 1987 IIT Kharagpur 1st Class
M.Sc. Physics 1989 IIT Kharagpur 1st Class
Ph.D. Physics 1994 IIT Kharagpur

Employment : **Industrial, Teaching and Research**

Name of the Employer	Designation	Period	
		From	to
Icicon Electronics India Ltd., Vadodara, Gujarat	Executive (Production)	9-9-1994	27-2-1996
Narmada College of Sc. & Com., Bharuch, Gujarat	Lecturer	28-2-1996	10-10-1997
National Physical Laboratory, New Delhi	Scientist 'B'	13-10-1997	28-1-2002
Department of Physics, Indian Institute of Technology, Roorkee	Assistant Professor	29-1-2002	07-05-2008
	Associate Professor	08-05-2008	3-04-2014
	Professor	04-04-2014	31-12-2020
	Professor[HAG]	01-01-2021	Contd.
Centre for Sustainable Energy, Indian Institute of Technology, Roorkee	Joint Faculty-Professor[HAG]	12-02-2024	Contd.

No of Publications : **286 (SCI+ International Proceedings)**

Sponsored Projects : **6 [2 DST + 2 CSIR + 1 DAE+1 ISRO (Currently running)]**

Convener of Short Term course : **9; Teaching, Research & Industrial Experience: 35 Yrs**

Descriptive responses of students : Please see Annexure-I

Summary of theses supervised; Winner of Materials Today cover competition 2016

	Awarded	Submitted	Progress	Total
Ph. D Thesis	17	2	9	28
M. Tech, Dissertation	30	-	1	31
M.Sc. Dissertation	25	-	-	25

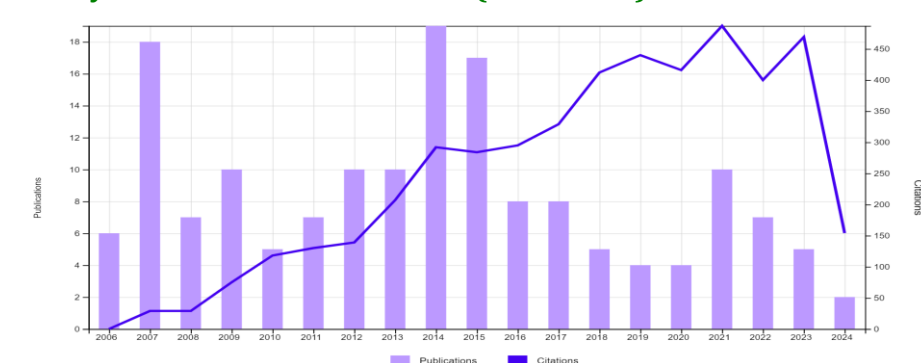
Visits Abroad: (i) USA on **BOYSCAST Fellowship of one Year;** (ii) JAPAN -Tusukuba University
(iii) **National University of Singapore;** (iv) **IMRE-Singapore**
(v) **National Institute for Materials Science, Sengen, Tsukuba, Japan (JSPS Fellow)**
(vi) **University of Glasgow, Scotland (Royal Society of Edinburgh): 2014 (not availed)**

Over all performance (2005-2006) Adjudged: Excellent (Star Performer),

Sum of Times Cited: 6779 [Google Scholar] As of 30/05/2024

Best paper Award -in NCAP-2012, VICE-CHAIRMAN -P.G. Admission 2014-2015

Yearly Publications & Citations (Web of Sc.) 2006 onwards



Publication-286 (SCI+ International Proceedings)
Highest citation: 278

Citations	6779
h-index	48
i10-index	147

Research Interest Score: 2,858



Sponsored Research Projects

Sl. No.	Title of Project	Funding Agency	Financial Outlay	Year of start & total period	Name of P.I. and other investigators	Status
1	Synthesis of nano-ceramics by Sol-gel/Hydrothermal method for IR-Devices	DST, India	6.44 lakh	2004	K. L. Yadav	Completed
2	Use of Ferroelectric Hysteresis Parameters for Evaluation of dopant Effects in sol-gel derived Lead Zirconate Titanate Thin Films for Memory Application	CSIR, India	10.96 lakh	2005	K L Yadav	Completed
3	Ion Beam Assisted Synthesis and Characterization of Novel Optically Active Glass/Polymer Structural and dielectric	IUC-DAEF, Calcutta Centre	13.28 lakh	2009	K L Yadav (Co-PI) & R. K. Dutta (PI)	Completed
4	Optimization of ultrasonic dual mixing for homogeneous distribution of inorganic nano particles in epoxy-based adhesive affecting its thermal and mechanical properties	SERB DST India	35 lakh	2012	PK Ghosh (P. I.) and K L Yadav (Co-PI)	Completed
5	Investigation of dynamical magnetodielectric and magnetoferroelectric properties of multiferroic nanoparticles reinforced polymer nanocomposites and multiferroic oxides for	CSIR, India	21 lakh	2013	K L Yadav (P. I.)	Completed
6	Computer Tomography (CT) Based Algorithm for Non-Destructive Quality Assessment of Ceramic Joints of the components used in Space application	ISRO Bengaluru India	23.22 lakh	2022	Mayank Goswami (PI) K L Yadav (Co-P. I.)	In Progress

Consultancy Projects:

S No.	Title of Project	Funding Agency	Financial Outlay	Year of start & total period	Name of P.I. and other investigators	Status Started or completed or in progress
1	TESTING AND EVALUATION OF CHARACTERISTICS OF ALNICO-6 MAGNETIC OF	HAL, Lucknow	2.5 lakh	2014, 3 months	Prof P K Ghosh (MMED) & Prof K L Yadav	completed

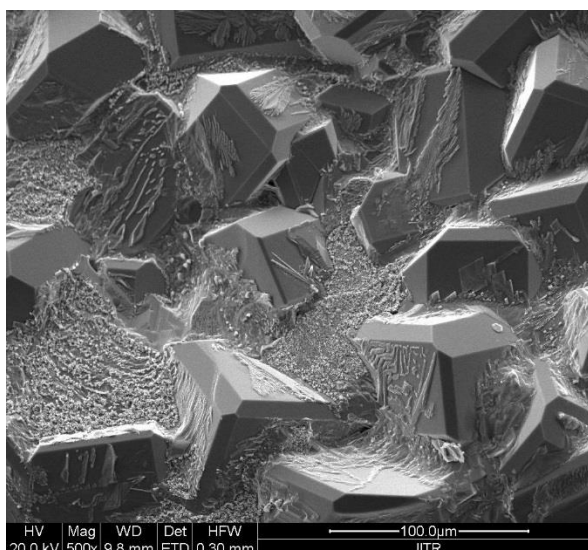


(i) National (excluding those within institute)/ International collaborations

1. Department of Materials Engineering, Indian Institute of Science, Bangalore 560012, India
2. Indus Synchrotrons Utilization Division, **Raja Ramanna Center for Advanced Technology, Indore** 452013, India
3. Atomic & Molecular Physics Division, **Bhabha Atomic Research Centre, Mumbai** 400088, India
4. Solid State Physics Laboratory, **Defence Research and Development Organisation, New Delhi**, 110054, Delhi, India
5. Department of Physics, **University of Torino, via Giuria 1, Torino, I-10125 Italy**

(ii) Fellowship of academies, significant peer recognition etc.

1. **Ranked among the top 2%** of researchers list [**Continuously FOUR times 2020, 2021, 2023, and 2023 from Department of Physics, IIT Roorkee**] in the world from India by Stanford University, USA. The list has been prepared by Stanford University after scientists from across the world for the research carried out during their career span, from data collected up to 2022. *[In the exhaustive list of persons, more than 1000 Indians have found a place, with a majority of them being from IITs and IISc and other top institutes, representing fields like physics, material sciences, chemical engineering, plant biology, energy and others].*
2. Royal Society of Edinburgh Fellowship Glasgow University, Scotland UK (could not visit) 2014
3. Winner of Materials Today Cover Competition – 2015



(iii) Sponsored Research projects as PI in joint projects: **FIST Level-II 2019 [933 Lakhs (DST 600 lakhs & IITR 333 Lakhs)], As Head of the Department**

Sr. No.	Title of the project	Funding agency and duration (e.g. 01.01.17-31.12.19)	Name of Co-PI	Total outlay (in Rs.)
1.	FIST Level-II 2019 [933 Lakhs (DST 600 lakhs & IITR 333 Lakhs)], As Head of the Department from 2017-2020			



(iv) **Information (Technical/Professional) (e.g. members of society etc.):**

- 1 Associate Member Institute of Nanotechnology, U K
- 2 Life Member Materials Research Society of India
- 3 Life Member Society of Physics of Disordered Materials, India
- 4 Life Member Indian Institute of Metals
- 5 Life Member Thermal Analysis Society of India
- 6 Life Member Indian Physics Association

(i) **Developed a New, Low-Cost Method for Treatment of Osteoarthritis:** We have developed a low-cost method using implants with long-term heat therapy to treat osteoarthritis, a disease that causes pain and stiffness in the joints leading to degeneration of the bone cartilage. Inspired by the idea of developing an affordable, safe and simple therapeutic technique to inhibit the growth of the disease and enable the patient to recover faster.

ओस्टियोपोरोसिस का दर्द नहीं करेगा परेशान

आईआईटी रुड़की के विज्ञानियों ने खोजा 'मैग्नेटिक पॉलीमर कंपोजिट मैट्रिक्स' नैनो पार्टिकल

अरविंद सिंह
रुड़की।

ओस्टियोपोरोसिस (अस्थि क्षरण) रोग का असहनीय दर्द झेल रहे मरीजों के लिए राहत भरी खबर है। आईआईटी रुड़की के भौतिक विज्ञानियों ने एक ऐसे नैनो मैट्रियल को खोजा है, जिससे न केवल बीमारी से पीड़ित मरीजों को दर्द से निजात मिलेगी, बल्कि हड्डियों को गलने से भी बचाया जा सकेगा। आईआईटी के भौतिक विज्ञानियों का दावा है कि इन नैनो मैट्रियल के इस्तेमाल से मरीजों का सस्ते खर्चे पर बेहतर इलाज किया जा सकेगा। आईआईटी रुड़की के भौतिक

शोध विज्ञानियों ने बायोलॉजिकल टेस्ट में खरा पाया नैनो मैट्रियल



विज्ञान विभाग के विभागाध्यक्ष प्रो. केएल यादव की अगुवाई में शोध विज्ञानियों की चार सदस्यीय टीम ने 'मैग्नेटिक पॉलीमर कंपोजिट मैट्रिक्स' नैनो मैट्रियल तैयार किया है। इसमें >> शेष पेज 11 पर

ओस्टियोपोरोसिस

कारण: डॉक्टरों के मुताबिक शरीर में विटामिन डी की कमी, शक्कर के अत्यधिक सेवन, ज्यादा धूम्रपान, शरीर को ज्यादा आराम देने से इस बीमारी का खतरा बढ़ जाता है। एक्स-रे या बोन मिनरल डेंसिटी याली बीएमडी टेस्ट की मदद से इस बीमारी का पता लगाया जा सकता है।

लक्षण: ओस्टियोपोरोसिस बीमारी में घुटने और पीठ में असहनीय दर्द के साथ ही रोगी की लंबाई भी घट जाती है। चलने फिरने में दर्द होता है। बीमारी गंभीर हो तो रीढ़ की हड्डी टूटने के साथ ही कूल्हे की हड्डियां टूटने लगती हैं। इस बीमारी की गिरफ्त में आए 30 फीसदी मरीजों के कूल्हे की हड्डियां टूट जाती हैं।

महिलाओं में बीमारी का खतरा सबसे ज्यादा

अस्थिरोग विशेषज्ञ डॉ. नवीन अग्रोही के मुताबिक ओस्टियोपोरोसिस (अस्थि क्षरण) बीमारी का खतरा महिलाओं में ज्यादा होता है। तमाम कारणों के चलते महिलाओं में विटामिन डी की भारी कमी हो जाती है जिससे इस बीमारी का खतरा ज्यादा बढ़ जाता है। इसके अलावा मोटापाग्रस्त और समय से पूर्व रजोनिवृत्ति वाली महिलाओं में इस बीमारी का खतरा ज्यादा बढ़ जाता है। एक अनुमान के मुताबिक देश में 46 मिलियन महिलाएं इस बीमारी से जूझ रही हैं।

OUR BUREAU

Hyderabad: Researchers at the Indian Institute of Technology Roorkee come up with a new, low-cost method for treating Osteoarthritis, a degenerative joint disease which leads to loss of bone cartilage and eventual inflammation of bone and joints. The research published in the 'Journal for Materials Science - Biomaterials' talks about the use of implantable ferromagnetic nanoparticles with thermal properties for hyperthermia treatment of the afflicted knee joints. Lead by Prof K. L. Yadav, the team at IIT Roorkee developed a specific ferrite nanomaterial, which when embedded with Poly (vinylidene fluoride) is proposed as a biocompatible magnetic-dielectric composite to provide prolonged thermo-regulated treatment. These polymers based nanoparticles injected around the knee joint along with normal heat therapy will be able to provide long term heat therapy for the patient.

Talking about the research, Prof K. L. Yadav, Professor and Head of Physics Department at IIT Roorkee said, "Cur-

A new, low-cost method for treatment of osteoarthritis



rently, the treatment of Osteoarthritis is done using anti-inflammatory drugs and steroids, which have critical side effects on patients. Also, the treatment using such

drugs cannot inhibit the natural progression of this degenerative disease.

Other than these, techniques like knee replacement is also used, but are expensive

and have a long recovery time. We wanted to develop a low cost, affordable, safe and simple therapeutic technique to inhibit the progression of the disease and enable the patient

to recover faster."


"We developed magnetic polymer matrix composite using ferromagnetic nanoparticle structures insulated with Poly (vinylidene fluoride) polymer. It is proposed that the synthesized material in a liquid form may be injected into the affected knee joint. Once the liquid is inserted into the knee joint, the hyperthermia treatment through electromagnetic radiation can be given on the specific area at regular intervals. The heat generated during this process will spread over the afflicted area for a long duration without affecting the nearby cells or tissues. This will help us in getting a focussed treatment only in the area where the therapy is required," he added.

The team studied the effectiveness of the developed composite for the hyperthermia treatment using a model of Knee Patella in COMSOL. Multiphysics software and preliminary biocompatibility studies were also undertaken to ensure safe biomedical application and use.

- **Reviewer of some prestigious International Journals: Journal of the American ceramics society; Institute of Physics (IOP) Journals, American Institute of Physics (AIP) Journals, IEEE Journals**



- Editorial Board Member, by ISST Indian Journal of Applied Physics
- Editorial Board Member, SciTech R and D Magazine of IIT Roorkee
- Executive member, MHRD-IPR Chair IIT Roorkee
- **Encyclopedia: Scientific validation of Traditional Knowledge for Commercial Prospects- Introductory Edition; February 2017, IPR Chair, Department of Management Studies, IIT Roorkee; Associate Editor: Natural Sciences**




AD
Scientific Index



Rankings for Scientist
University, Subject,
Country, Region, World

**World Scientist and
University Rankings 2023**

Indian Institute of Technology IIT Roorkee

KL Yadav

	Scores	Rankings			
		In Indian Institute of Technology IIT Roorkee (310)	In India (78314)	In Asia (400923)	World (1346766)
					
Total H	44	#18	#1100	#11860	#92146
Last 6 year H	30	#31	#1437	#15576	#93287
Last 6 year H / total H	0.682				
Total i10	138	#25	#1077	#8639	#54269
Last 6 years i10	88	#26	#1168	#10547	#59614
Last 6 years i10 / Total i10	0.638				
Total Citation	5953	#30	#1969	#18432	#141086
Last 6 years Citation	2996	#37	#2140	#21168	#130911
Last 6 years Citation / Total Citation	0.503				
Others * Edit Form		-	-	-	-

Smart Nanomaterials |
Biomaterials |

www.adscientificindex.com

Date : 07.05.2023 * Source and Methodology: <https://www.adscientificindex.com/scientist.php?id=394316>



List of Publication

No.	Publication Details
195	Enhanced dielectric, ferroelectric and piezoelectric properties of lead-free (Ba,Ca)(Sn,Ti)O ₃ ceramics by optimisation of sintering temperature; Kumar, N; Kurchania, R; (...); Rani, J; Jun 25 2024, JOURNAL OF ALLOYS AND COMPOUNDS 989
194	Hysteric Influence of Grain Multiplicity in All-Inorganic Halide Perovskite Nanocrystals; Yadav, D; Suhail, A; (...); Bag, M; Jan 12 2024 ACS APPLIED ELECTRONIC MATERIALS 6 (2) , pp.1330-1338
193	Development of CI/BFO nanocomposite for efficient microwave absorption in low frequency range of L, S, C, and X - bands; Jamwal, U; Singh, D and Yadav, KL; Dec 15 2023, JOURNAL OF ALLOYS AND COMPOUNDS 968
192	An experiment to observe the effect of gamma radiation on microwave absorption properties of Li-substituted nickel ferrite; Jamwal, U; Singh, D and Yadav, KL Aug 2023 JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 34 (22)
191	Enhanced Dielectric Response and Sensing Performance of Bi ₂ MnCoO ₆ /BaTiO ₃ Composites for Temperature Sensing Application; Mittal, SK; Yadav, D; (...); Yadav, KL; Aug 2023, IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION 30 (4) , pp.1663-1670
190	Probing the Photo-Activated Switching Dynamics of Halide Perovskite Memristors; Yadav, D; Gora, S; (...); Bag, M; Jun 20 2023 ACS APPLIED ELECTRONIC MATERIALS 5 (7) , pp.3765-3771
189	Enhanced CO ₂ Reduction with Cs ₂ AgBiBr ₆ -gC ₃ N ₄ Heterojunction Photocatalysts Prepared by Green Synthesis; Smruti Purohit, Shreya Singh, Kanhaiya L Yadav, Kamal Kishore Pant, Soumitra Satapathi; Publication date 2023/5/10; Journal ACS Applied Energy Materials; Publisher: American Chemical Society ACS Appl. Energy Mater. 2023, 6, 10, 5580–5587
188	Enhanced dielectric response and sensing performance of Bi ₂ MnCoO ₆ /BaTiO ₃ composites for temperature sensing application, Shivam Kumar Mittal, Deepak Yadav, Sandeep Saini, KL Yadav, Publication date 2023/3/28, Journal: IEEE Transactions on Dielectrics and Electrical Insulation [DOI: 10.1109/TDEI.2023.3262631]
187	Photocatalytic CO ₂ Reduction Using an Amorphous TiO ₂ -Encapsulated Cs ₂ AgBiBr ₆ Nanocrystal: Selective Methane Formation; Purohit, S; Shyamal, S; (...); Satapathi, S; Oct 6 2022; ENERGY & FUELS 36 (19) , pp.12170-12180
186	Effect of Particle Size and MWCNTs Content on Microwave Absorption Characteristics of Cobalt; Jamwal, U; Singh, D and Yadav, KL; Oct 2022; IEEE TRANSACTIONS ON MAGNETICS 58 (10)
185	Enhanced Water Splitting by Strained Lithium-Substituted Nickel Ferrite Hydroelectric Cells; Saini, S; Yadav, KL; (...); Kotnala, RK; Jul 25 2022 Jul 2022 (Early Access) ; ACS APPLIED ENERGY MATERIALS 5 (7) , pp.8178-8188
184	Effect of Li ⁺ , Mg ²⁺ , and Al ³⁺ Substitution on the Performance of Nickel Ferrite-Based Hydroelectric Cells; Saini, S; Yadav, KL; (...); Kotnala, RK; Jul 7 2022 Jun 2022 (Early Access) ; ENERGY & FUELS 36 (13) , pp.7121-7129
183	Metal Halide Perovskite Heterojunction for Photocatalytic Hydrogen Generation: Progress and Future Opportunities; Purohit, S; Yadav, KL and Satapathi, S; May 2022 Apr 2022



	(Early Access) ; ADVANCED MATERIALS INTERFACES 9 (15)
182	Dielectric and multiferroic properties of Na _{0.5} Bi _{0.5} TiO ₃ -CoFe ₂ O ₄ heterostructure composite ceramic Thakur, S; Sharma, H; (...); Negi, NS Mar 2022 Jan 2022 (Early Access) JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 33 (8), pp.5831-5845
181	Significant role of defect-induced surface energy in water splitting to generate electricity by nickel ferrite hydroelectric cell Kotnala, RK; Saini, S; (...); Yadav, KL Apr 2022 Dec 2021 (Early Access) INTERNATIONAL JOURNAL OF ENERGY RESEARCH 46 (5) , pp.6421-6435
180	Silver doped zinc oxide nanostructures with antibacterial properties against GFP-expressing antibiotic resistant Escherichia coli Panwar, A and Yadav, KL Feb 15 2022 Dec 2021 (Early Access) MATERIALS LETTERS 309
179	Morphology and tensile performance of MWCNT/TiO ₂ -epoxy nanocomposite Nitesh; Kumar, A; (...); Rathi, A Feb 1 2022 Dec 2021 (Early Access) MATERIALS CHEMISTRY AND PHYSICS 277
178	Tailoring the transport and magnetic properties of Mn doped spinel FeCo ₂ O ₄ and their impact on energy storage properties: A new strategy to improve storage performance Singh, M; Dubey, BP; (...); Sharma, Y Dec 1 2021 Oct 2021 (Early Access) JOURNAL OF ENERGY STORAGE 44
177	Enhanced magnetoelectric coupling response in hot pressed BiFeO ₃ and polymer composite films: Effect of magnetic field on grain boundary and grain resistance Kumar, A; Patel, PK; (...); Singh, S Jan 2022 Aug 2021 (Early Access) MATERIALS RESEARCH BULLETIN 145
176	Role of magnetism present in the cobaltites (ACo ₂ O ₄ A = Co, Mn, and Fe) on the charge storage mechanism in aqueous supercapacitor Singh, M; Sahoo, A; (...); Sharma, Y Dec 1 2021 Aug 2021 (Early Access) APPLIED SURFACE SCIENCE 568
175	Magnetocapacitance based magnetoelectric coupling behavior of multiferroic BiFeO ₃ nanocrystals: An empirical investigation Kumar, N; Singh, H; (...); Kumar, A Nov 15 2021 Aug 2021 (Early Access) PHYSICA B-CONDENSED MATTER 621
174	Enhancement of dielectric performance in BaZr _{0.02} (Fe _{0.5} Nb _{0.5})(_{0.98})O ₃ ceramics influenced by sintering temperatures Patel, PK; Singh, H and Yadav, KL Sep 15 2021 May 2021 (Early Access) PHYSICA B-CONDENSED MATTER 617
173	Bandgap Engineering in a Staggered-Type Oxide Perovskite Heterojunction for Efficient Visible Light-Driven Photocatalytic Dye Degradation Purohit, S; Yadav, KL and Satapathi, S Mar 23 2021 Mar 2021 (Early Access) LANGMUIR 37 (11) , pp.3467-3476



172	Effective strategies for reduced dielectric loss in ceramic/ polymer nanocomposite film Patel, PK; Rani, J and Yadav, KL Apr 1 2021 Feb 2021 (Early Access) CERAMICS INTERNATIONAL 47 (7) , pp.10096-10103
171	Toward the Origin of Magnetic Field-Dependent Storage Properties: A Case Study on the Supercapacitive Performance of FeCo ₂ O ₄ Nanofibers Singh, M; Sahoo, A; (...); Sharma, Y Nov 4 2020 ACS APPLIED MATERIALS & INTERFACES 12 (44) , pp.49530-49540
170	Influence of Pr ³⁺ and Lu ³⁺ co-doping on the magnetoelectric coupling response in BiFeO ₃ multiferroic ceramics Kumar, A; Saini, S; (...); Singh, S Jul 2020 (Early Access) JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS
169	Low magnetic field induced strong magnetoelectric coupling in three phase composite films with ferroelectric domain switchability Kumar, A; Saini, S; (...); Singh, S Jul 2020 CERAMICS INTERNATIONAL 46 (10) , pp.16598-16604
168	Nickel substituted oxygen deficient nanoporous lithium ferrite based green energy device hydroelectric cell, Saini, Sandeep; Shah, Jyoti; Kotnala, R. K.; Yadav K L et al. JOURNAL OF ALLOYS AND COMPOUNDS Volume: 827 Article Number: 154334 Published: JUN 25 2020
167	Investigation of magnetoelectric effect in lead free K _{0.5} Na _{0.5} NbO ₃ -BaFe ₁₂ O ₁₉ novel composite system; By: Kumar, Yogesh; Yadav, K. L.; Shah, Jyoti; et al.; JOURNAL OF ADVANCED CERAMICS Volume: 8 Issue: 3 Pages: 333-344 Published: SEP 2019
166	Investigation of Magnetoelectric Effect in Bi _{0.5} Na _{0.5} TiO ₃ -CoMn _{0.2} Fe _{1.8} O ₄ Composites; Kumar, Yogesh; Yadav, K. L.; Shah, Jyoti; et al.; IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION Volume: 26 Issue: 2 Pages: 561-567 Published: APR 2019
165	Strongly enhanced electrocaloric effects in doped BaTiO ₃ with reduced grain size; Kumar, Manoj; Kumar, Amit; Kumar, Yogesh; et al.; SMART MATERIALS AND STRUCTURES Volume: 28 Issue: 1 Article Number: 015013 Published: JAN 2019
164	Magnetic, ferroelectric, and magnetodielectric properties of BiFeO ₃ ceramic co-doped with Eu and Gd; By: Kumar, Amit; Yadav, K. L.; Kumar, Sonu; et al. JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS Volume: 124 Pages: 19-23 Published: JAN 2019
163	Dielectric, magnetic and magnetoelectric properties of ferrite-ferroelectric based particulate composites; Kumar, Yogesh; Yadav, K. L.; Shah, Jyoti; et al. MATERIALS RESEARCH EXPRESS Volume: 5 Issue: 8 Published: AUG 2018
162	Probing the electrical properties and energy storage performance of electrospun ZnMn ₂ O ₄ nanofibers; Bhagwan, Jai; Kumar, Nagesh; Yadav, K. L.; et al., SOLID STATE IONICS Volume: 321 Pages: 75-82 Published: AUG 2018
161	MWCNTs toward superior strength of epoxy adhesive joint on mild steel adherent; Kumar, Arun; Kumar, Kaushal; Ghosh, P. K.; et al.; COMPOSITES PART B-ENGINEERING Volume: 143 Pages: 207-216 Published: JUN 15 2018
160	Synthesis and study of structural, dielectric, magnetic and magnetoelectric properties of K _{0.5} Na _{0.5} NbO ₃ -CoMn _{0.2} Fe _{1.8} O ₄ composites; Kumar, Yogesh; Yadav, K. L.; JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 29 Issue: 11 Pages: 8923-8936 Published: JUN 2018
159	MWCNT/TiO ₂ hybrid nano filler toward high-performance epoxy composite; Kumar,



	Arun; Kumar, Kaushal; Ghosh, P. K.; et al.; ULTRASONICS SONOCHEMISTRY Volume: 41 Pages: 37-46 Published: MAR 2018
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72	<p>Synthesis and study of multiferroic properties of ZnFe₂O₄-BiFeO₃ nanocomposites By: Uniyal, Poonam; Yadav, K. L. JOURNAL OF ALLOYS AND COMPOUNDS Volume: 492 Issue: 1-2 Pages: 406-410 Published: MAR 4 2010</p>
71	<p>Electrical conduction in Ba(Bi_{0.5}Nb_{0.5})O₃ ceramics Impedance spectroscopy analysis By: Prasad, K.; Bhagat, S.; Amarnath, K.; et al. MATERIALS SCIENCE-POLAND Volume: 28 Issue: 1 Pages: 317-325 Published: 2010</p>
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Descriptive responses of students

Response Information

Subject: PH-706 **Title:** FUNCTIONAL MATERIALS AND DEVICES

Session: 2013-14 **Semester:** Spring

Faculty: K.L. YADAV **Department:** Physics

Responses Comments

About the Faculty:

* students friendly

Response Information

Subject: PH-004 **Title:** APPLIED PHYSICS

Session: 2013-14 **Semester:** Spring

Faculty: K.L. YADAV **Department:** Physics

Responses Comments

About the Faculty:

* There Is large number of STUDENTS in ONE LECTURE CLASS, Course is good but due to LARGE no. of students we get very much disturbed.

Response Information

Subject: PHN-702 **Title:** FABRICATION AND CHARACTERIZATION TECHNIQUES

Session: 2015-16 **Semester:** Spring

Faculty: K.L. YADAV **Department:** Physics

Responses Comments

About the Faculty:

* HE IS VERY HONEST INTERESTING AND VERY GENTLE, NOBLE PERSON.

* I THINK THAT PRACTICE OF THIS SUBJECT REQUIRED.

Response Information

Subject: PHN-705 **Title:** CHARACTERIZATION OF MATERIALS

Session: 2016-17 **Semester:** Autumn

Faculty: K.L. YADAV **Department:** Physics

Responses Comments

About the Faculty:

* THANK YOU SO MUCH SIR

Response Information

Subject: PHN-706 **Title:** FUNCTIONAL MATERIALS AND DEVICES



Session: 2016-17 **Semester:** Spring

Faculty: K.L. YADAV **Department:** Physics

Responses Comments

About the Faculty:

* sir taught with real life examples. sometime communication is not perfect.

Response Information

Subject: PHN-703 **Title:** FABRICATION AND CHARACTERIZATION TECHNIQUES

Session: 2017-18 **Semester:** Autumn

Faculty: K.L. YADAV **Department:** Physics

Responses Comments

About the Faculty:

* best teacher

* Everything was good

* He is an ideal teacher, i really respect him by heart, he teaches very gently in easy manner understandable by all students

Name: K.L. YADAV Department: Physics Subject: PHN-703 - FABRICATION AND CHARACTERIZATION TECHNIQUES (PCC) Credits: 3.00 No. of Student: 17

Faculty Component: Co-operative, understanding his presentations; His teaching way is so friendly that excites me to attend his lecture regularly. His one-to-one interaction with students as well as friendly speaking nature makes students excited to attend his classes regularly. Great sense of humour and the way sir explained in class He is so interactive with students. One to one interaction with students and his interactive classes makes students attend his classes. Amazing way of teaching all the topics

KLY sir is best in his way of teaching. could use the blackboard a bit more No further improvement required. He is a friendly speaker as well as has a great way of teaching, according to me I would suggest no further improvement is needed. Make proper lecture notes He Would be more specific on contents provided in classroom. Friendly speaker, good mentor, has great way of delivering lectures. According to me no further improvement is required.

Name: K.L. YADAV Department: Physics Subject: PHN-604 - PHYSICS OF NANOSYSTEMS (PEC) Credits: 4.00 No. of Student: 11

Faculty Component The ability of the instructor to relate difficult topics to things in everyday life is pretty extraordinary. best KL Yadav sir is very interactive, that's the best part and he gives very basic & simplified examples to explain the things.

Name: K.L. YADAV Department: Physics Subject: PHN-324 - NANOTECHNOLOGY (PCC) Credits: 4.00 No. of Student: 25

Faculty Component: he has got a presence of mind. I think nothing else is required