

## 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 1<sup>st</sup> Class  
M.Sc. Physics 1989 IIT Kharagpur 1<sup>st</sup> 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  |
|                                                                | <b>Professor</b>       | 04-04-2014 | 31-12-2020 |
|                                                                | <b>Professor[HAG]</b>  | 01-01-2021 | Cont.      |

**No of Publications :** **263 (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: 33 Yrs**

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

|                       | Awarded | Submitted | Progress | Total |
|-----------------------|---------|-----------|----------|-------|
| Ph. D Thesis          | 17      | -         | 10       | 27    |
| M. Tech, Dissertation | 30      | -         | 1        | 31    |
| M.Sc. Dissertation    | 25      | -         | -        | 25    |

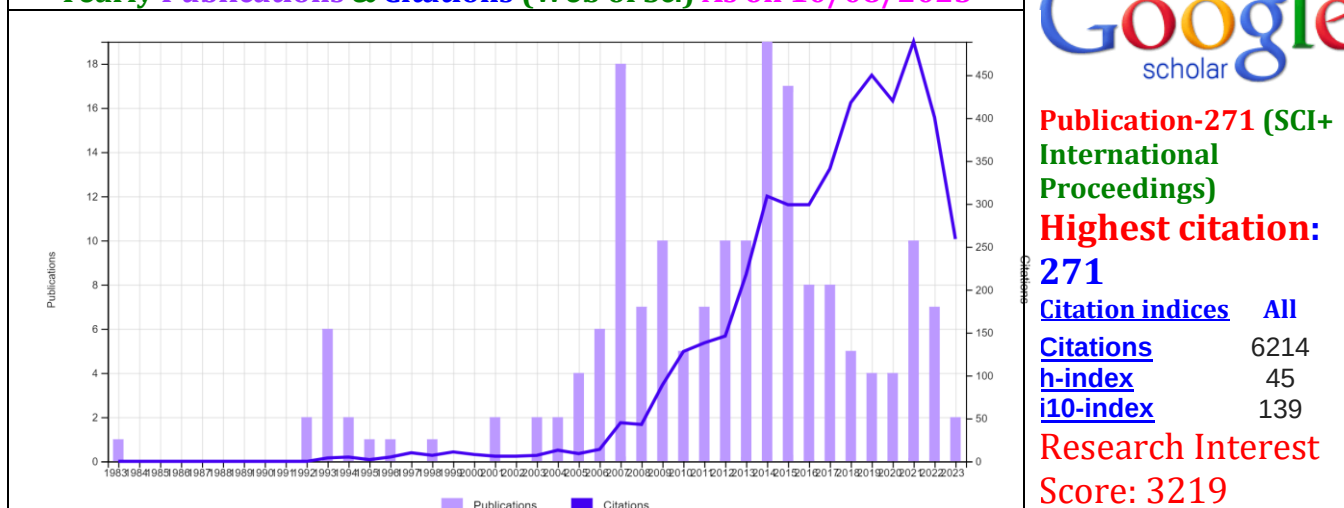
**Visits Abroad:** (i) USA on **BOYSCAST Fellowship of one Year;** (ii) JAPAN –Tusukuba University  
(iii) **National University of Singapore;** (iv) **IMRE-Singapore**  
(v) National Institute for Materials Science, Sengen, Tsukuba, Japan (**JSPS Fellow**)  
(vi) University of Glasgow, Scotland (**Royal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

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

**Sum of Times Cited: 6214 [Google Scholar] Till: 10/08/2023**

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

**Yearly Publications & Citations (Web of Sc.) As on 10/08/2023**





### 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       | 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)<br>K L Yadav (Co-P. I.) | <b>In Progress</b> |
| 2       | Synthesis of nano-ceramics by Sol-gel/Hydrothermal method for IR-Devices                                                                                                     | DST, India                | 6.44 lakh        | 2004                         | K. L. Yadav                                 | Completed          |
| 3       | 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          |
| 4       | 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          |
| 5       | 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          |
| 6       | 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          |

### 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     | <b>TESTING AND EVALUATION OF CHARACTERISTICS OF ALNICO-6</b> | HAL, Lucknow   | 2.5 lakh         | 2014, 3 months               | Prof P K Ghosh (MMED) & Prof K L Yadav | completed                                  |

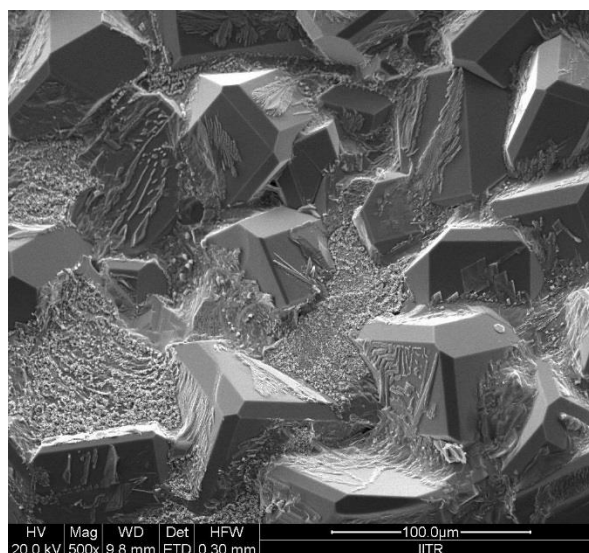


(i) **National (excluding those within institute)/ International collaborations**

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 three times 2020,2021 and 2022 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 2019. *[In the exhaustive list of 1,59,683 persons, 1,492 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



• **Service to Professional Societies, Journals, and Universities**

I am an active member in the Materials Engineering community. I contribute regularly to a number of professional societies (e.g., MRSI, and Discussion Group), journals and universities. My efforts have led to a wide interest in the field of materials engineering, and recognition of the importance of ceramic processing and characterization in industrial ceramic/materials development.



**(iii) Sponsored Research projects as PI in joint projects: FIST Level-II 2019 [933 Lakhs (DST 600 lakhs & ITR 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.      | <b>FIST Level-II 2019 [933 Lakhs (DST 600 lakhs &amp; ITR 333 Lakhs)], As Head of the Department from 2017-2020</b> |                                                      |               |                       |

**(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 मैटेरियल की खोज की 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 मैटेरियल 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 मैटेरियल



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

### ओस्टियोपोरोसिस

**कारण:** डॉक्टरों के मुताबिक शरीर में विटामिन डी की कमी, शलव के अत्यधिक सेवन, ज्यादा धूम्रपान, शरीर को ज्यादा अराम देने से इस बीमारी का खतरा बढ़ जाता है। एक्स-रे या बोन मिनरल डेंसिटी यानी 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 by the nanoparticles 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**

We have developed an indigenous experiment for The Study of Dielectric Constant and Curie Temperature of Ferroelectric Ceramics, suitable for M. Sc. Physics Students as a Consultancy project with M/s Scientific Equipment & Services, 16, Civil Lines, Roorkee. In this I have implemented my acquired knowledge over the years in Practical form, from which many students will be benefited.



SES Instruments Pvt. Ltd.



We have developed indigenous "temporary dental filling cement" in collaboration with **M/S Pyrax Polymers, 114\1, Sai Kripa, 7 Civil lines, Roorkee, Uttarakhand - 110033, India**. The said company was earlier importing the temporary dental filling cement which has been now replaced by the indigenous material saving lot of foreign exchange. This work was under taken as a project work with my M Tech student from Centre for Nanotechnology IIT Roorkee.

## Developed Temporary Tooth Filling Cement



## Working to develop Dental Zirconia



अमरउजाला

देहरादून | शनिवार | 5 अक्टूबर 2013

देश | विदेश

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## आईआईटी प्रोफेसर ने किया कैंसर की प्रभावी दवा का ईजाद कैंसर कोशिकाओं को नष्ट करेगा 'फेराइट'

● दीपक मिश्रा

**रुड़की।** आईआईटी रुड़की के वैज्ञानिक का दावा है कि उन्होंने ऐसे पाउडर का निर्माण किया है जो कैंसर के इलाज में प्रभावी होगा। यदि क्लिनिकल ट्रायल में उनके द्वारा निर्मित 'फेराइट' पाउडर पास हो गया तो इसे इंजेक्शन के जरिए प्रभावित कोशिकाओं तक पहुंचाकर अपेक्षाकृत अधिक प्रभावशाली तरीके से इलाज किया जा सकेगा। पाउडर बनाने वाले आईआईटी के डिपार्टमेंट ऑफ फिजिक्स के एसोसिएट प्रोफेसर डॉ. केएल यादव का कहना है कि प्रयोगशाला में इसका प्रयोग कारगर रहा है,



लेकिन क्लिनिकल परीक्षण बाकी है। इसके लिए एम्स, दिल्ली से आग्रह किया जाएगा। बकील डाक्टर यादव, कैंसर का उपचार तीन तरह से किया जा रहा है। इसमें कोमोथेरेपी, रेडियोथेरेपी और ऑपरेशन है। कुछ मामलों में तीनों प्रक्रिया अपनाई जाती है। जबकि कुछ में रेडियोथेरेपी के जरिये ही

### कैसे होगा उपचार

फेराइट पाउडर को रेडिएशन देने से पूर्व शरीर के उस भाग पर इंजेक्ट किया जाएगा, जहां पर कैंसर का ट्यूमर हो। इसके बाद उस भाग पर रेडिएशन दिया जाएगा। रेडिएशन पड़ते ही अपनी गुणवत्ता की वजह से ट्यूमर के हिस्से में मौजूद पाउडर नर्म हो जाएगा। इससे कैंसर सेल जलकर नष्ट हो जाएंगे।

### नुकसान भी कम

रोधकर्ता का दावा है कि फेराइट पाउडर को इंजेक्ट करने के बाद प्रभावित हिस्से में अपेक्षाकृत कम रेडिएशन देने की जरूरत पड़ेगी। इसके शरीर को रेडिएशन से पहुंचने वाला नुकसान भी कम होगा। सामान्यतया जब कैंसर रोगी को रेडियोथेरेपी दी जाती है तो शरीर के कैंसर सेल्स के साथ ही शरीर को शोथ देने वाली कोशिकाएं भी नष्ट हो जाती हैं। इसका शरीर में कमजोरी आ जाती है। बीमारी से लड़ने की क्षमता कम हो जाती है।

कैंसर कोशिकाओं को खत्म करने की कोशिश की जाती है। उनका दावा है कि रेडियोथेरेपी के पहले

'फेराइट पाउडर' कैंसर के उपचार को अधिक प्रभावी बनाने में सक्षम साबित होगा। पाउडर को तैयार करने के लिए पिछले छह-सात साल से रिसर्च कर रहा था। प्रयोगशाला में तो पाउडर का इस्तेमाल कारगर मिला है, लेकिन अभी इसका क्लिनिकल ट्रायल होना बाकी है।

-**डा. केएल यादव, डिपार्टमेंट ऑफ फिजिक्स, आईआईटी रुड़की।**

फेराइट पाउडर को कोबाल्ट, आयरन, बिस्मथ, निकिल, क्रोमियम मिलाकर बनाया गया है।

## 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

## List of Publication

| No. | Publication Details                                                                                                                                                                                                                                                                                                                     |
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| 189 | <a href="#">Probing the Photo-Activated Switching Dynamics of Halide Perovskite Memristors</a> Yadav, D; Gora, S; (...); Bag, M, Jun 20 2023   Jun 2023 (Early Access)   , <a href="#">ACS APPLIED ELECTRONIC MATERIALS</a> 5 (7) , pp.3765-3771                                                                                        |
| 188 | <a href="#">Enhanced CO<sub>2</sub> Reduction with Cs<sub>2</sub>AgBiBr<sub>6</sub>-gC<sub>3</sub>N<sub>4</sub> Heterojunction Photocatalysts Prepared by Green Synthesis</a> ; Purohit, S; Singh, S; (...); Satapathi, S; May 10 2023   May 2023 (Early Access)   ; <a href="#">ACS APPLIED ENERGY MATERIALS</a> 6 (10) , pp.5580-5587 |
| 187 | <a href="#">Photocatalytic CO<sub>2</sub> Reduction Using an Amorphous TiO<sub>2</sub>-Encapsulated Cs<sub>2</sub>AgBiBr<sub>6</sub> Nanocrystal: Selective Methane Formation</a> ; Purohit, S; Shyamal, S; (...); Satapathi, S; Oct 6 2022; <a href="#">ENERGY &amp; FUELS</a> 36 (19) , pp.12170-12180                                |
| 186 | <a href="#">Effect of Particle Size and MWCNTs Content on Microwave Absorption Characteristics of Cobalt</a> ; Jamwal, U; Singh, D and Yadav, KL; Oct 2022; <a href="#">IEEE TRANSACTIONS ON MAGNETICS</a> 58 (10)                                                                                                                      |





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| <b>185</b> | Enhanced Water Splitting by Strained Lithium-Substituted Nickel Ferrite Hydroelectric Cells; <b>Saini, S; Yadav, KL; (...); Kotnala, RK; Jul 25 2022   Jul 2022 (Early Access)   ; ACS APPLIED ENERGY MATERIALS 5 (7) , pp.8178-8188</b>                                                                                       |
| <b>184</b> | Effect of Li <sup>+</sup> , Mg <sup>2+</sup> , and Al <sup>3+</sup> Substitution on the Performance of Nickel Ferrite-Based Hydroelectric Cells; <b>Saini, S; Yadav, KL; (...); Kotnala, RK; Jul 7 2022   Jun 2022 (Early Access)   ; ENERGY &amp; FUELS 36 (13) , pp.7121-7129</b>                                            |
| <b>182</b> | Dielectric and multiferroic properties of Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -CoFe <sub>2</sub> O <sub>4</sub> heterostructure composite ceramic<br>Thakur, S; Sharma, H; (...); Negi, NS<br>Mar 2022   Jan 2022 (Early Access)   JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS 33 (8), pp.5831-5845 |
| <b>181</b> | Significant role of defect-induced surface energy in water splitting to generate electricity by nickel ferrite hydroelectric cell<br>Kotnala, RK; Saini, S; (...); Yadav, KL<br>Apr 2022   Dec 2021 (Early Access)   INTERNATIONAL JOURNAL OF ENERGY RESEARCH 46 (5) , pp.6421-6435                                            |
| <b>180</b> | Silver doped zinc oxide nanostructures with antibacterial properties against GFP-expressing antibiotic resistant Escherichia coli<br>Panwar, A and Yadav, KL<br>Feb 15 2022   Dec 2021 (Early Access)   MATERIALS LETTERS 309                                                                                                  |
| <b>179</b> | Morphology and tensile performance of MWCNT/TiO <sub>2</sub> -epoxy nanocomposite<br>Nitesh; Kumar, A; (...); Rathi, A<br>Feb 1 2022   Dec 2021 (Early Access)   MATERIALS CHEMISTRY AND PHYSICS 277                                                                                                                           |
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| <b>177</b> | Enhanced magnetoelectric coupling response in hot pressed BiFeO <sub>3</sub> and polymer composite films: Effect of magnetic field on grain boundary and grain resistance<br>Kumar, A; Patel, PK; (...); Singh, S<br>Jan 2022   Aug 2021 (Early Access)   MATERIALS RESEARCH BULLETIN 145                                      |
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| <b>175</b> | Magnetocapacitance based magnetoelectric coupling behavior of multiferroic BiFeO <sub>3</sub> nanocrystals: An empirical investigation<br>Kumar, N; Singh, H; (...); Kumar, A<br>Nov 15 2021   Aug 2021 (Early Access)   PHYSICA B-CONDENSED MATTER 621                                                                        |
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