

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	Contd

No of Publications : **198 = SCI Journals: 198 [Impact points-280.7]**

Sponsored Projects : **6 (2 DST + 3 CSIR + 1 DAE)**

Convener of Short Term course : **9; Teaching, Research & Industrial Experience: 29 Yrs**

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

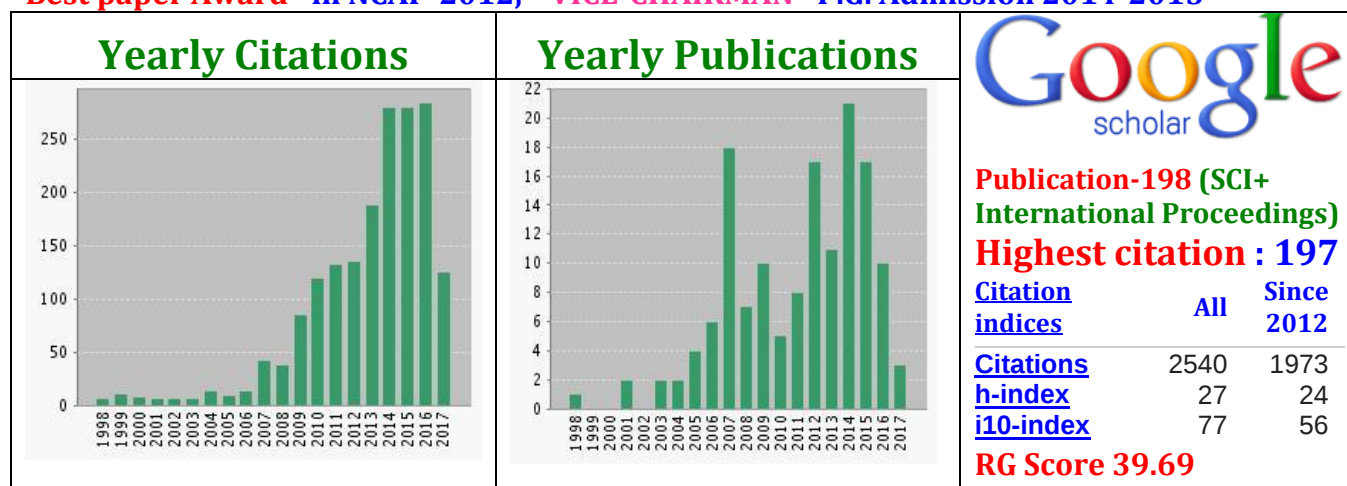
	Awarded	Submitted	Progress	Total
Ph. D Thesis	11	1	6	18
M. Tech, Dissertation	28	-	1	29
M.Sc. Dissertation	17	-	1	18

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),

Average Citations per year (2002-2016): 127.07 [Web of Science] Till: 27/8/2017

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





iopscience.org, Highlight Papers 2009 journal of Physics: Condensed Matter

4 New developments in multiferroics

Multiferroics are materials that exhibit more than one primary ferroic order parameter in the same phase. The journal has published a number of key papers in the area of multiferroics over the course of 2009. Some of the best of these are summarized in the collection below. The results reported are significant as, not only do they contribute to the fundamental study of multiferroics, they also have important consequences for device physics.

Observation of the room temperature magnetoelectric effect in Dy doped BiFeO₃

P Uniyal and K L Yadav

2009 *J. Phys.: Condens. Matter* **21** 012205

It is possible for multiferroics to demonstrate magnetoelectric effects by virtue of which electric polarization is induced in the material on application of a magnetic field, and of which magnetization is induced on application of an electric field. This is quite a rare phenomenon since ferroelectricity and ferromagnetism are in mutually exclusive groups.

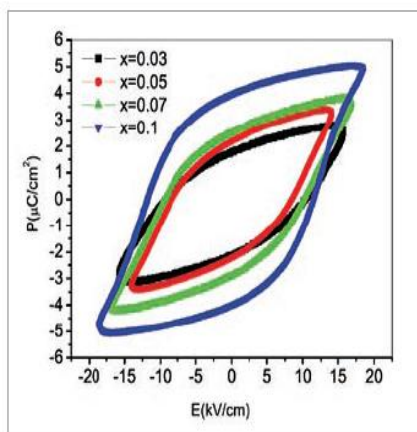
BiFeO₃ is one such multiferroic material which has attracted much interest. It displays both ferroelectricity and antiferromagnetism but is unsuitable for device application as its resistivity is too low to produce saturated hysteresis loops and its magnetization is too low.

Uniyal and Yadav (Indian Institute of Technology) have studied the effects of doping the BiFeO₃ system with Dy. They find that increasing Dy doping suppresses the spiral spin structure of BiFeO₃, resulting in the appearance of net magnetization. They observed an anomaly in the dielectric constant near the antiferromagnetic Néel temperature, where there was also a sharp decrease in the *M-T* curve. They reported saturated *P-T* loops with high remanent polarization for the first time.

Highlights 2009 19

Journal of Physics: Condensed Matter

The results of magnetic and ferroelectric measurements point to coupling between magnetic dipoles and electric dipoles at room temperature. This characteristic—of magnetoelectric coupling at room temperature—may prove very useful for device physics.



Samples with different doping all show ferroelectric hysteresis loops.

Pr doped bismuth ferrite ceramics with enhanced multiferroic properties

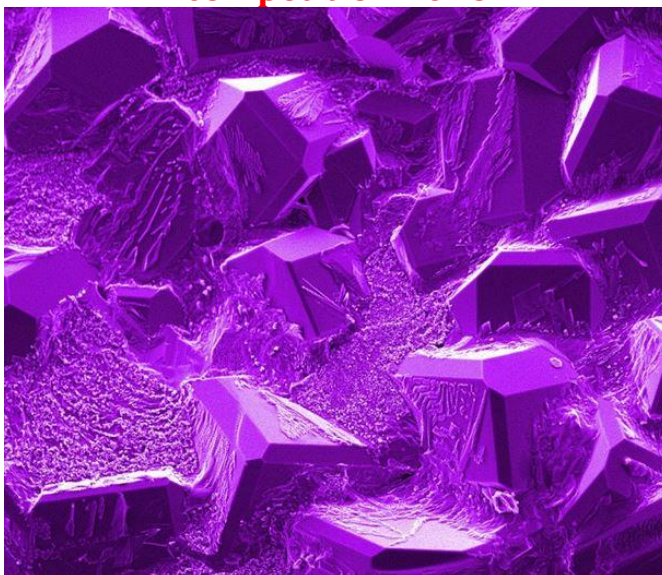
P Uniyal and K L Yadav

2009 *J. Phys.: Condens. Matter* **21** 405901

P Uniyal and K L Yadav (Indian Institute of Technology, Roorkee) carried out a detailed study of the electrical and magnetic properties of Pr-modified bismuth ferrite (BLPFO) prepared by solid-state reaction of mixed oxides. Pr substitution at a Bi site eliminated the small usual impurity phase in BiFeO₃ and stabilized the crystal structure.

The dielectric properties were enhanced by Pr substitution i.e. ϵ increased to 1000 for 100 Hz with a considerable decrease in $\tan \delta$ (0.4 for 100 Hz). A systematic increase in both the ferroelectric and ferromagnetic properties was achieved. The observed increase in the magnetic parameters with increased Pr doping reflects the corresponding increase in the suppression of spin spiral with a continual change in lattice parameters. The coexistence of ferromagnetism and ferroelectricity was confirmed in the bulk materials by *M-H* and *P-E* loop measurements. All the samples were found to possess a spontaneous magnetic moment at room temperature which increased further at low temperatures. The strong dependence of remanent polarization and dielectric constant on the strength of magnetic field is direct evidence of magnetoelectric coupling in BLPFO-2 ceramics.

Winner of Materials Today cover competition 2016



<http://www.materialstoday.com/cover-competition-2015/>
<http://www.materialstoday.com/amorphous/articles/s1369702115004022/>

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 क्लीनिकल 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 क्लीनिकल परीक्षण बाकी है। इसके लिए एम्स, दिल्ली से आग्रह किया जाएगा। बकौल डाक्टर यादव, कैंसर का उपचार तीन तरह से किया जा रहा है। इसमें कीमोथेरेपी, 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 गर्म हो जाएगा। इससे कैंसर सेल जलकर नष्ट हो जाएंगे।

नुकसान भी कम

शोधकर्ता 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 बोध देने वाली कोशिकाएं भी नष्ट हो जाती हैं। इसका शरीर में कनजोरी आ जाती है। बीमारी से लड़ने की क्षमता कम हो जाती है।

कैंसर कोशिकाओं को खत्म करने की कोशिश की जाती है। उनका अपेक्षाकृत कम समय में प्रभावी दावा है कि रेडियोथेरेपी के पहले इलाज संभव है। नैनोमैटेरियल



'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 क्लीनिकल ट्रायल होना बाकी है।

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

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



Highest Cited paper [190]

[Study of room temperature magnetoelectric coupling in Ti substituted bismuth ferrite system](#)

Authors Manoj Kumar, KL Yadav, Publication date 2006/10

Journal name Journal of applied physics, Volume 100, Issue 7, Pages 074111-074111-4,
Publisher AIP

Abstract Dielectric, magnetic, and magnetoelectric properties of Ti substituted bismuth ferrite (BiFeO₃) ceramic synthesized by solid state reaction are reported. Ti substitution for Fe in BiFeO₃ increased the room temperature electrical resistivity by approximately six orders of magnitude and also increased the dielectric constant and reduced the loss tangent. The remanent polarization, coercive field, and maximum polarization were 0.081 $\mu\text{C}/\text{cm}^2$, 2.571 kV/cm, and 0.658 $\mu\text{C}/\text{cm}^2$, respectively at 20 kV/cm.

Total citations, 197

List of Publication

No.	Publication Details
141	Systematic investigation and in vitro biocompatibility studies on implantable magnetic nanocomposites for hyperthermia treatment of osteoarthritic knee joints , Mohapatra, S.; Mishra, R.; Roy, P.; et al., JOURNAL OF MATERIALS SCIENCE Volume: 52 Issue: 16 Pages: 9262-9268 Published: AUG 2017
140	Multiferroic and magnetoelectric properties of BiFeO₃-CoFe₂O₄-poly(vinylidene-fluoride) composite films , Adhlakha, Nidhi; Yadav, K. L.; Truccato, Marco; et al., EUROPEAN POLYMER JOURNAL Volume: 91 Pages: 100-110 Published: JUN 2017
139	Electrically heterogeneous high dielectric BaTi_{0.4}(Fe_{0.5}Nb_{0.5})(_{0.6})O₃ ceramic , Patel, Piyush Kumar; Yadav, K. L., SOLID-STATE ELECTRONICS Volume: 132 Pages: 39-44 Published: JUN 2017
138	Strain mediated magnetoelectric coupling induced in (x) Bi_{0.5}Na_{0.5}TiO₃-(1-x) MgFe₂O₄ composites ; Manjusha; Yadav, K. L.; Adhlakha, Nidhi; et al., PHYSICA B-CONDENSED MATTER Volume: 514 Pages: 41-50 Published: JUN 1 2017
137	Nanofibers of spinel-CdMn₂O₄: A new and high performance material for supercapacitor and Li-ion batteries ; Bhagwan, Jai; Sahoo, Asit; Yadav, K. L.; et al.; JOURNAL OF ALLOYS AND COMPOUNDS Volume: 703 Pages: 86-95 Published: MAY 5 2017
136	Thermo-mechanical and anti-corrosive properties of MWCNT/epoxy nanocomposite fabricated by innovative dispersion technique ; Kumar, Arun; Ghosh, P. K.; Yadav, K. L.; et al., COMPOSITES PART B-ENGINEERING Volume: 113 Pages: 291-299 Published: MAR 15 2017
135	Reduced leakage current and improved multiferroic properties of 0.5 ((1-x)BLPFO-xPZT)-0.5PVDF composite films ; Adhlakha, Nidhi; Yadav, K. L.; Truccato, Marco; et al. CERAMICS INTERNATIONAL Volume: 42 Issue: 16 Pages: 18238-18246, Published: DEC 2016
134	Structural, magnetic and magnetoelectric properties of single phase La₃₊ and Er₃₊ co-doped Bi_{0.85-x}La_{0.15}Er_xFeO₃ (0 ≤ x ≤ 0.1) ceramics ; Manjusha; Yadav, K. L.; Mall, Ashish Kumar; MATERIALS RESEARCH EXPRESS Volume: 3 Issue: 11 Article Number: 115703 Published: NOV 2016
133	Porous, one-dimensional and high aspect ratio nanofibric network of cobalt manganese oxide as a high performance material for aqueous and solid-state supercapacitor (2 V) , Bhagwan, Jai; Sivasankaran, V.; Yadav, K. L.; et al.; JOURNAL OF POWER SOURCES Volume: 327 Pages: 29-37 Published: SEP 30 2016



132	Structural, dielectric, magnetic and magnetoelectric properties of (x) Bi_{0.5}Na_{0.5}TiO₃-(1-x) Ni_{0.2}Co_{0.8}Fe₂O₄ composites , Kumar, Yogesh; Yadav, K. L.; Manjusha; et al. MATERIALS RESEARCH EXPRESS Volume: 3 Issue: 6 Article Number: UNSP 065701 Published: JUN 2016
131	Enhanced dielectric, ferroelectric and magnetodielectric properties in three phase 0.45Bi(0.9)La(0.1)FeO(3)-0.55Co(0.5)Ni(0.5)Fe(2)O(4)-BaTiO₃ composite , Manjusha; Yadav, K. L., JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 27 Issue: 6 Pages: 6347-6358 Published: JUN 2016
130	Multiferroic and optical studies on the effects of Ba²⁺ ions in BiFeO₃ nanoparticles , Kaur, Manpreet; Yadav, K. L.; Uniyal, Poonam, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 27 Issue: 5 Pages: 4475-4482 Published: MAY 2016
129	Bimodal distribution of grains Fractured surfaces , Yadav, K. L.; Patel, Piyush K., MATERIALS TODAY Volume: 19 Issue: 1 Pages: 56-57 Published: JAN-FEB 2016
128	Influence of oxygen pressure on the growth and physical properties of pulsed laser deposited Cu₂O thin films , Kaur, Gurpreet; Mitra, Anirban; Yadav, K. L., JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 26 Issue: 12 Special Issue: SI Pages: 9689-9699 Published: DEC 2015
127	Dwell time effect on the barrier layer capacitor structure in CaCu₃Ti₄O₁₂ ceramic , Patel, Piyush Kumar; Yadav, K. L., CERAMICS INTERNATIONAL, Volume: 41 Issue: 9 Pages: 12386-12392 Part: B, NOV 2015
126	Structural and magnetodielectric properties of poly(vinylidene-fluoride)-[0.8(Bi_{0.5}Na_{0.5})TiO₃-0.2CoFe(2)O(4)] polymer composite films , Rani, Jyoti; Yadav, K. L.; Prakash, Satya; COMPOSITES PART B-ENGINEERING Volume: 79 Pages: 138-143 Published: SEP 15 2015
125	Influence of Beam Energy on the Properties of Pulsed Laser Deposited Al-Doped ZnO Thin Films , By: Kaur, Gurpreet; Mitra, Anirban; Yadav, K. L.; IEEE TRANSACTIONS ON NANOTECHNOLOGY Volume: 14 Issue: 5 Pages: 922-930 Published: SEP 2015
124	Structural, dielectric, vibrational and magnetic properties of Sm doped BiFeO₃ multiferroic ceramics prepared by a rapid liquid phase sintering method , Singh, Hemant; Yadav, K. L., CERAMICS INTERNATIONAL Volume: 41 Issue: 8 Pages: 9285-9295 Published: SEP 2015
123	Porous, One dimensional and High Aspect Ratio Mn₃O₄ Nanofibers: Fabrication and Optimization for Enhanced Supercapacitive Properties , Bhagwan, Jai; Sahoo, Asit; Yadav, Kanhaiya Lal; et al., ELECTROCHIMICA ACTA Volume: 174 Pages: 992-1001 Published: AUG 20 2015
122	Localized surface plasmon induced enhancement of electron-hole generation with silver metal island at n-Al:ZnO/p-Cu₂O heterojunction , Kaur, Gurpreet; Yadav, K. L.; Mitra, Anirban; APPLIED PHYSICS LETTERS Volume: 107 Issue: 5 Article Number: 053901 Published: AUG 3 2015
121	Ion implantation induced phase transformation and enhanced crystallinity of as deposited copper oxide thin films by pulsed laser deposition , Bind, Umesh Chandra; Dutta, Raj Kumar; Sekhon, Gurpreet Kaur; Yadav K L, et al., SUPERLATTICES AND MICROSTRUCTURES Volume: 84 Pages: 24-35 Published: AUG 2015
120	Development of Ba_{0.95}Sr_{0.05}(Fe_{0.5}Nb_{0.5})O₃/poly(vinylidene fluoride) nanocomposites for energy storage , Patel, Piyush Kumar; Yadav, K. L.; Dutta, Shankar, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 26 Issue: 6 Pages: 4165-4171 Published: JUN 2015
119	Structural, Dielectric, Ferroelectric and Magnetic Properties of (x) CoFe₂O₄-(1-x) BaTiO₃ Composite , Manjusha; Rawat, Meera; Yadav, K. L.; IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION Volume: 22 Issue: 3 Pages: 1462-1469 Published: JUN 2015



118	Enhanced magnetization with unusual low temperature magnetic ordering behaviour and spin reorientation in holmium-modified multiferroic BiFeO₃ perovskite ceramics , Singh, Hemant; Yadav, K. L., JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 48 Issue: 20 Article Number: 205001 Published: MAY 29 2015
117	Electrical, magnetic and magnetodielectric properties in ferrite-ferroelectric particulate composites , Rawat, Meera; Yadav, K. L., SMART MATERIALS AND STRUCTURES Volume: 24 Issue: 4 Article Number: 045041 Published: APR 2015
116	BiFeO₃-CoFe₂O₄-PbTiO₃ composites: structural, multiferroic, and optical characteristics , Adhlakha, Nidhi; Yadav, K. L.; Singh, Ripandeep, JOURNAL OF MATERIALS SCIENCE Volume: 50 Issue: 5 Pages: 2073-2084 Published: MAR 2015
115	A novel one-pot synthesis of hierarchical europium doped ZnO nanoflowers ; Panwar, Amit; Yadav, K. L., MATERIALS LETTERS Volume: 142 Pages: 30-34 Published: MAR 1 2015
114	Synthesis and Thermal, Structural, Dielectric, Magnetic and Magnetoelectric Studies of BiFeO₃-MgFe₂O₄ Nanocomposites , Singh, Hemant; Yadav, Kanhaiya Lal, JOURNAL OF THE AMERICAN CERAMIC SOCIETY Volume: 98 Issue: 2 Pages: 574-79, FEB 2015
113	Pulsed laser deposited Al-doped ZnO thin films for optical applications , Kaur, Gurpreet; Mitra, Anirban; Yadav, K. L., PROGRESS IN NATURAL SCIENCE-MATERIALS INTERNATIONAL Volume: 25 Issue: 1 Pages: 12-21 Published: FEB 2015
112	Dielectric and magnetic properties of xCoFe₂O₄-(1-x)[0.5Ba(Zr_{0.2}Ti_{0.8})O₃-0.5(Ba_{0.7}Ca_{0.3})TiO₃] composites , Rani, Jyoti; Yadav, K. L.; Prakash, Satya, MATERIALS RESEARCH BULLETIN Volume: 60 Pages: 367-375 Published: DEC 2014
111	Compositional effects on structural, dielectric, ferroelectric and transport properties of Ba_{1-x}(Bi_{0.5}Li_{0.5})(x)TiO₃ ceramics , Rawat, Meera; Yadav, K. L., MATERIALS CHEMISTRY AND PHYSICS Volume: 148 Issue: 3 Pages: 655-663 Published: DEC 15 2014
110	Structural, dielectric and optical properties of sol-gel synthesized 0.55Ba(Zr_{0.2}Ti_{0.8})O₃-0.45(Ba_{0.7}Ca_{0.3})TiO₃ ceramic , Rani, Jyoti; Yadav, K. L.; Prakash, Satya, APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING Volume: 117 Issue: 3 Pages: 1131-1137 Published: NOV 2014
109	Study of barrier layer capacitance effect in lead free Ba_{0.95}Sr_{0.05}(Fe_{0.5}Nb_{0.5})O₃-BaZr_{0.1}Ti_{0.9}O₃ ceramics , Patel, Piyush Kumar; Yadav, K. L. PHYSICA B-CONDENSED MATTER Volume: 452 Pages: 136-141 Published: NOV 1 2014
108	Effect of BaTiO₃ addition on structural, multiferroic and magneto-dielectric properties of 0.3CoFe₂O₄-0.7BiFeO₃ ceramics , Adhlakha, Nidhi; Yadav, K. L.; Singh, Ripandeep, SMART MATERIALS AND STRUCTURES, Volume: 23 Issue: 10 Article Number: 105024, OCT 2014
107	Study of Dielectric, Magnetic and Magnetoelectric Behavior of (x)NZF-(1-x)PLSZT Multiferroic Composites , Adhlakha, Nidhi; Yadav, K. L., IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION Volume: 21 Issue: 5 Pages: 2055-2061 Published: OCT 2014
106	Enhanced magnetodielectric effect and optical property of lead-free multiferroic (1-x)(Bi_{0.5}Na_{0.5})TiO₃/xCoFe(2)O(4) composites , Rani, Jyoti; Yadav, K. L.; Prakash, Satya MATERIALS CHEMISTRY AND PHYSICS Volume: 147 Issue: 3 Pages: 1183-1190 Published: OCT 15 2014
105	Study on multicaloric effect of CuO induced multiferroic , Kumar, Amit; Yadav, K. L., JOURNAL OF APPLIED PHYSICS, Volume: 116 Issue: 8 Article Number: 083907, Published: AUG 28 2014
104	Dielectric, ferroelectric and magnetoelectric response in Ba-0.92(Bi_{0.5}Na_{0.5})(0.08)TiO₃-Ni-0.65 Zn_{0.35}Fe₂O₄ composite ceramics ; Rawat, Meera; Yadav, K. L.; SMART MATERIALS AND STRUCTURES; Volume: 23 Issue: 8 Article Number: 085032 Published: AUG 2014



103	Structural, dielectric, magnetic, and optical properties of Ni_{0.75}Zn_{0.25}Fe₂O₄-BiFeO₃ composites , Adhlakha, Nidhi; Yadav, K. L., JOURNAL OF MATERIALS SCIENCE Volume: 49 Issue: 13 Pages: 4423-4438 Published: JUL 2014
102	Effect of yttrium on microstructure, dielectric, ferroelectric and optical properties of BaZr_{0.10}Ti_{0.90}O₃ nanoceramics ; Patel, Piyush Kumar; Yadav, K. L.; PHYSICA B-CONDENSED MATTER Volume: 442 Pages: 39-43 Published: JUN 1 2014
101	Study of structural, electrical, magnetic and optical properties of 0.65BaTiO₃-0.35Bi_{0.5}Na_{0.5}TiO₃-BiFeO₃ multiferroic composite , Rawat, Meera; Yadav, K. L. JOURNAL OF ALLOYS AND COMPOUNDS Volume: 597 Pages: 188-199, JUN 5 2014
100	Mo⁶⁺ Modified (K_{0.5}Na_{0.5})NbO₃ Lead Free Ceramics: Structural, Electrical and Optical Properties ; Rani, Jyoti; Patel, Piyush Kumar; Adhlakha, Nidhi; Yadav KL et al.; JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY Volume: 30 Issue: 5 Pages: 459-465 Published: MAY 2014
99	Origin of giant dielectric constant and magnetodielectric study in Ba(Fe_{0.5}Nb_{0.5})O₃ nanoceramics , Patel, Piyush Kumar; Yadav, K. L.; Singh, Harishchandra; et al., JOURNAL OF ALLOYS AND COMPOUNDS Volume: 591 Pages: 224-229 Published: APR 5 2014
98	Multiferroic Properties of (Bi_{0.9}Gd_{0.1}FeO)₃(1-x)(BaTiO₃)_x Ceramics , Uniyal, Poonam; Lotey, Gurmeet Singh; Gautam, Anamol; et al., JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, Vol: 27 (2) 569-574, FEB 2014
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