

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 : 207 = **SCI Journals: 154 [Impact points-280.7]**+**Conf: 53**

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

Convener of Short Term course : 9; **Teaching, Research & Industrial Experience: 27 Yrs**

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

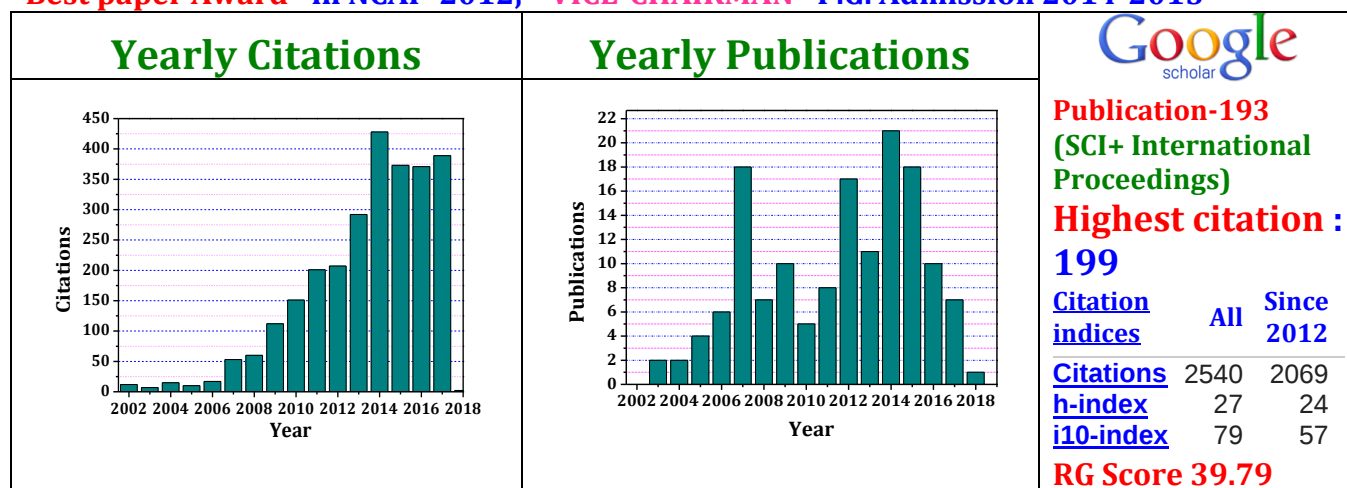
	Awarded	Submitted	Progress	Total
Ph. D Thesis	10	2	5	17
M. Tech, Dissertation	27	-	2	29
M.Sc. Dissertation	16	-	1	17

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 (2002-2017): 185.47 Total Citations-2782 h-index-26 Till: 1/11/2017

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.

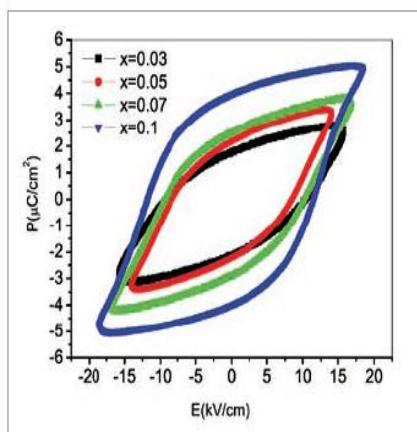
BiFeO₃ is one such multiferroic material which has attracted much interest. It displays both ferroelectricity and antiferromagnetism but is unsuitable for device application as its resistivity is too low to produce saturated hysteresis loops and its magnetization is too low.

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

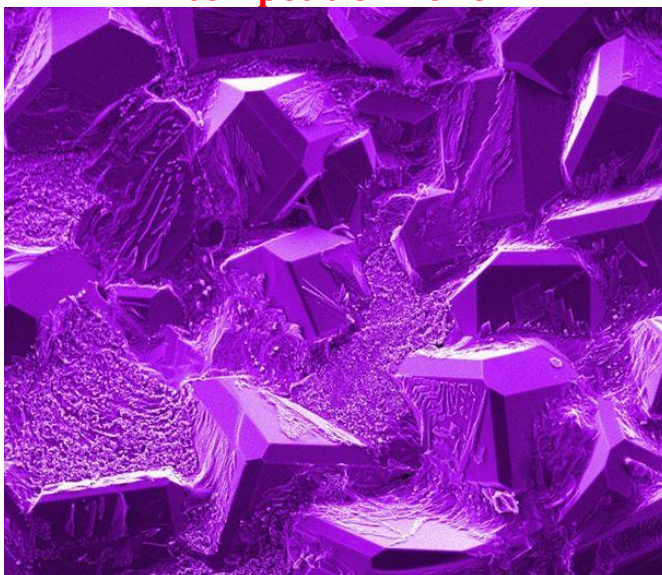
P Uniyal and K L Yadav

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 हैं। 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 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 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, 190

List of Publication

No.	Publication Details
142	Study of structural, dielectric, electric, magnetic and magnetoelectric properties of K_{0.5}Na_{0.5}NbO₃ - Ni_{0.2}Co_{0.8}Fe₂O₄ composites ; Kumar, Yogesh; Yadav, K. L.; Manjusha; et al.; CERAMICS INTERNATIONAL Volume: 43 Issue: 16 Pages: 13438-13446; NOV 2017
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(Bi0.5Na0.5)(0.08)TiO3-Ni-0.65 Zn0.35Fe2O4 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 Ni0.75Zn0.25Fe2O4-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 BaZr0.10Ti0.90O3 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 0.65BaTiO(3)-0.35Bi(0.5)Na(0.5)TiO(3)-BiFeO3 multiferroic composite, Rawat, Meera; Yadav, K. L. JOURNAL OF ALLOYS AND COMPOUNDS Volume: 597 Pages: 188-199 , JUN 5 2014
100	Mo6+ Modified (K0.5Na0.5)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(Fe0.5Nb0.5)O-3 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 (Bi0.9Gd0.1FeO)(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
97	Synthesis and study of structural, dielectric, magnetic and magnetoelectric characterization of BiFeO3-NiFe2O4 nanocomposites prepared by chemical solution method; Singh, Hemant; Yadav, K. L., JOURNAL OF ALLOYS AND COMPOUNDS, Volume: 585 Pages: 805-810 Published: FEB 5 2014
96	Reduced dielectric loss in Ba0.95Sr0.05(Fe0.5Nb0.5)O-3 thin film grown by pulsed laser deposition; Patel, Piyush Kumar; Yadav, K. L.; Kaur, Gurpreet; RSC ADVANCES Volume: 4 Issue: 53 Pages: 28056-28061 Published: 2014
95	Enhanced dielectric, ferroelectric and optical properties of lead free (K0.17Na0.83)NbO3 ceramic with WO3 addition, Rani, Jyoti; Yadav, K. L.; Prakash, Satya, MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, Volume:178 Issue: 20 Pages: 1469-1475 Published: DEC 1 2013
94	Analysis of static and dynamic performance of organic inverter circuits based on dual and single gate organic thin film transistors, Goswami, Vidhi; Kumar, Brijesh; Kaushik, Brajesh Kumar; Yadav KL, Negi YS, IET CIRCUITS DEVICES & SYSTEMS Volume: 7 Issue: 6 Pages: 345-351 Published: NOV 2013
93	Implications of La and Y Codoping on Structural, Multiferroic, Magnetoelectric and Optical Properties of BiFeO3, Adhlakha, Nidhi; Yadav, K. L.; Singh, Ripandeep SCIENCE OF ADVANCED MATERIALS, Volume: 5 Issue: 8 Pages: 947-959 Published: AUG 2013
92	Study of Barrier Layer Effect in Sr Doped Barium Iron Niobate Ceramics, Patel, Piyush Kumar; Yadav, K. L., SCIENCE OF ADVANCED MATERIALS; Volume: 5 Issue: 7 Pages: 891-895 Published: JUL 2013
91	Structural, dielectric and ferroelectric properties of Ba1-x(Bi0.5Na0.5)(x)TiO3 ceramics, Rawat, Meera; Yadav, K. L., CERAMICS INTERNATIONAL, Volume: 39 Issue: 4 Pages: 3627-3633 DOI: 10.1016/j.ceramint.2012.10.191 Published: MAY 2013
90	Structural, magnetic and optical properties of Bi1-xDyxFeO3 nanoparticles synthesized by sol-gel method, Arora, Manisha; Sati, P. C.; Chauhan, Sunil; et al.; MATERIALS LETTERS Volume: 96 Pages: 71-73 DOI: 10.1016/j.matlet.2012.12.114



	Published: APR 1 2013
89	Giant dielectric permittivity and room temperature magnetodielectric study of BaTi_{0.2}(Fe_{0.5}Nb_{0.5})(0.8)O-3 nanoceramic , Patel, Piyush Kumar; Yadav, K. L.; MATERIALS RESEARCH BULLETIN Volume: 48 Issue: 4 Pages: 1435-1438 DOI: 10.1016/j.materresbull.2012.12.041 Published: APR 2013
88	Enhanced dielectric properties of doped barium titanate ceramics , Patel, Piyush Kumar; Rani, Jyoti; Adhlakha, Nidhi; et al.; JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS Volume: 74 Issue: 4 Pages: 545-549 DOI: 10.1016/j.jpccs.2012.11.017 Published: APR 2013
87	Enhanced magnetodielectric properties of single-phase Bi_{0.95}-xLa_{0.05}LuxFeO₃ multiferroic system , Kumar, Amit; Yadav, K. L., JOURNAL OF ALLOYS AND COMPOUNDS Volume: 554 Pages: 138-141 , DOI: 10.1016/j.jallcom.2012.11.189 Published: MAR 25 2013
86	Title: Enhanced magnetoelectric sensitivity in Co_{0.7}Zn_{0.3}Fe₂O₄-Bi_{0.9}La_{0.1}FeO₃ nanocomposites , Kumar, Amit; Yadav, K. L.; MATERIALS RESEARCH BULLETIN Volume: 48 Issue: 3 Pages: 1312-1315 DOI: 10.1016/j.materresbull.2012.11.072 Published: MAR 2013
85	Study of structural, dielectric and magnetic behaviour of Ni_{0.75}Zn_{0.25}Fe₂O₄-Ba(Ti_{0.85}Zr_{0.15})O-3 composites , Adhlakha, Nidhi; Yadav, K. L.; SMART MATERIALS AND STRUCTURES Volume: 21 Issue: 11 Article Number: 115021 DOI: 10.1088/0964-1726/21/11/115021 Published: NOV 2012
84	Modified structure and electrical properties of BSZT doped KNN hybrid ceramic , Rani, Jyoti; Yadav, K. L.; Prakash, Satya, APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, 108(3) Pages: 761-764 DOI: 10.1007/s00339-012-6970-y Published: SEP 2012
83	Structural, optical and magnetic study of (1-x)ZnO-xMgO composites prepared through solid state reaction method , Adhlakha Nidhi; Yadav K. L.; Kumar Amit; et al., PHYSICA B-CONDENSED MATTER Volume: 407 Issue: 17 Pages: 3427-3433 DOI: 10.1016/j.physb.2012.04.052 Published: SEP 1 2012
82	Synthesis and experimental investigation on thermal conductivity of nanofluids containing functionalized Polyaniline nanofibers , Wan Meher; Yadav R. R.; Yadav K. L.; et al., EXPERIMENTAL THERMAL AND FLUID SCIENCE Volume: 41 Pages: 158-164 DOI: 10.1016/j.expthermflusci.2012.03.030 Published: SEP 2012
81	Title: Enhanced magnetocapacitance sensitivity in BiFeO₃-poly(vinylidene-fluoride) hot pressed composite films Author(s): Kumar Amit; Yadav K. L. Source: JOURNAL OF ALLOYS AND COMPOUNDS Volume: 528 Pages: 16-19 DOI: 10.1016/j.jallcom.2012.02.125 Published: JUL 5 2012
80	Title: Low temperature step magnetization and magnetodielectric study in Bi_{0.95}La_{0.05}Fe_{1-x}ZrxO₃ ceramics , Author(s): Kumar Amit; Yadav K. L.; Rani Jyoti Source: MATERIALS CHEMISTRY AND PHYSICS Volume: 134 Issue: 1 Pages: 430-434 DOI: 10.1016/j.matchemphys.2012.03.013 Published: MAY 15 2012
79	Title: Multiferroic, magnetoelectric and optical properties of Mn doped BiFeO₃ nanoparticles , Author(s): Chauhan, S ; Kumar, M ; Chhoker, S ; Katyal, SC ; Singh, H ; ; Yadav, KL Source: SOLID STATE COMMUNICATIONS Volume: 152 Issue: 6 Pages: 525-529 DOI: 10.1016/j.ssc.2011.12.037 Published: MAR 2012
78	Title: Dielectric and magnetic properties of Bi_{1-x}YxFeO₃ ceramics Author(s): Gautam A.; Uniyal P.; Yadav K. L.; et al. Source: JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS Volume: 73 Issue: 2 Pages: 188-192 DOI: 10.1016/j.jpccs.2011.11.005 Published: FEB 2012
77	Title: Effect of Nb substitution on the structural, dielectric and magnetic properties of multiferroic BiFe_{1-x}NbxO₃ ceramics ; Author(s): Singh Hemant; Yadav K. L. Source: MATERIALS CHEMISTRY AND PHYSICS Volume: 132 Issue: 1 Pages: 17-21 DOI:



	10.1016/j.matchemphys.2011.08.058 Published: JAN 16 2012
76	Title: Enhanced magnetoelectric properties in Bi(0.95)Ho(0.05)FeO(3) polycrystalline ceramics ; Author(s): Uniyal Poonam; Yadav K. L. Source: JOURNAL OF ALLOYS AND COMPOUNDS Volume: 511 Issue: 1 Pages: 149-153 DOI: 10.1016/j.jallcom.2011.09.012 Published: JAN 15 2012
75	Title: A systematic study on magnetic, dielectric and magnetocapacitance properties of Ni doped bismuth ferrite ; Author(s): Kumar Amit; Yadav K. L. Source: JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS Volume: 72 Issue: 11 Pages: 1189-1194 DOI: 10.1016/j.jpcs.2011.06.006 Published: NOV 2011
74	Title: Dielectric, magnetic and magnetoelectric properties of La and Nb codoped bismuth ferrite ; Author(s): Singh Hemant; Yadav K. L. Source: JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 23 Issue: 38 Article Number: 385901 DOI: 10.1088/0953-8984/23/38/385901 Published: SEP 28 2011
73	Title: A quantitative model for stabilization effect induced by ferroelectric aging Author(s): Bao Huixin; Xue Dezhen; Wang Yu; et al. Source: JOURNAL OF APPLIED PHYSICS Volume: 109 Issue: 12 Article Number: 124103 DOI: 10.1063/1.3596605 Published: JUN 15 2011
72	Title: Structural, dielectric, magnetic, magnetodielectric and impedance spectroscopic studies of multiferroic BiFeO(3)-BaTiO(3) ceramics ; Author(s): Singh Hemant; Kumar Amit; Yadav K. L. Source: MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS Volume: 176 Issue: 7 Pages: 540-547 DOI: 10.1016/j.mseb.2011.01.010 Published: APR 25 2011
71	Title: Synthesis and characterization of MnFe(2)O(4)-BiFeO(3) multiferroic composites , Kumar Amit; Yadav K. L., PHYSICA B-CONDENSED MATTER Volume: 406 Issue: 9 Pages: 1763-1766 DOI: 10.1016/j.physb.2011.02.023 Published: APR 15 2011
70	Aliovalent-Ion and Magnetic Field Induced Phase Transition in Multiferroic BiFe(1-x)Ti(x3)O(3) System ; Yadav K. L. Source: JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY Volume: 11 Issue: 3 Pages: 2682-2686, DOI: 10.1166/jnn.2011.2709 Published: MAR 2011
69	Title: Magnetic, magnetocapacitance and dielectric properties of Cr doped bismuth ferrite nanoceramics ; Author(s): Kumar Amit; Yadav K. L. Source: MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS Volume: 176 Issue: 3 Pages: 227-230 DOI: 10.1016/j.mseb.2010.11.012 Published: FEB 25 2011
68	Title: Effect of sintering temperature on structural and electrical properties of BiFeO(3) multiferroics ; Author(s): Pandu Ratnakar; Yadav K. L.; Kumar Amit; et al. Source: INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES Volume: 17 Issue: 6 Pages: 481-485 Published: DEC 2010
67	Title: The effect of Ni substitution on magnetic, dielectric and magnetoelectric properties in BiFe(1-x)Ni(x)O(3) system ; Author(s): Kumar Amit; Yadav K. L. Source: PHYSICA B-CONDENSED MATTER Volume: 405 Issue: 22 Pages: 4650-4654 DOI: 10.1016/j.physb.2010.08.054 Published: NOV 15 2010
66	Title: Structural, magnetic and dielectric properties of xCrFe(2)O(4)-(1-x)BiFeO(3) multiferroic nanocomposites ; Author(s): Kumar Amit; Yadav K. L.; Singh Hemant; et al. Source: PHYSICA B-CONDENSED MATTER Volume: 405 Issue: 10 Pages: 2362-2366 DOI: 10.1016/j.physb.2010.02.038 Published: MAY 15 2010
65	Title: Synthesis and study of multiferroic properties of ZnFe(2)O(4)-BiFeO(3) nanocomposites ; Author(s): Uniyal Poonam; Yadav K. L. Source: JOURNAL OF ALLOYS AND COMPOUNDS Volume: 492 Issue: 1-2 Pages: 406-410 DOI: 10.1016/j.jallcom.2009.10.275 Published: MAR 4 2010



64	Title: Electrical conduction in Ba(Bi(0.5)Nb(0.5))O(3) ceramics Impedance spectroscopy analysis ; Author(s): Prasad K.; Bhagat S.; Amarnath K.; et al.; Source: MATERIALS SCIENCE-POLAND Volume: 28 Issue: 1 Pages: 317-325 Published: 2010
63	Title: Effect of Ni doping on structural and dielectric properties of BaTiO(3) ; Author(s): Kumar Yogeswar; Mohiddon Md Ahamad; Srivastava Alok; et al. Source: INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES Volume: 16 Issue: 6 Pages: 390-394 Published: DEC 2009
62	Title: Pr doped bismuth ferrite ceramics with enhanced multiferroic properties Author(s): Uniyal P.; Yadav K. L.; Source: JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 21 Issue: 40 Article Number: 405901 DOI: 10.1088/0953-8984/21/40/405901 Published: OCT 7 2009
61	Title: Effect of annealing on microstructure and P-E hysteresis of vanadium doped SrBi2)Ta(2)O(9) , Goel P.; Ojha V. N.; Yadav K. L. Source: MATERIALS RESEARCH INNOVATIONS Volume: 13 Issue: 3 Pages: 352-356 DOI: 10.1179/143307509X441540 Published: SEP 2009
60	Dielectric dispersion study of Mn-doped PLZT (8/65/35) , Mohiddon Md. Ahamad; Yadav K. L.; PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE Volume: 206 Issue: 7 Pages: 1606-1615 ; DOI: 10.1002/pssa.200825075 Published: JUL 2009
59	Title: Structural and Dielectric Properties of ZrO₂ Added (Na_{1/2}Bi_{1/2})TiO₃ Ceramic Author(s): Kumari K.; Prasad K.; Yadav K. L.; et al.; Source: BRAZILIAN JOURNAL OF PHYSICS Volume: 39 Issue: 2 Pages: 297-300 Published: JUN 2009
58	Title: Room temperature multiferroic properties of Eu doped BiFeO₃ Author(s): Uniyal P.; Yadav K. L.; Source: JOURNAL OF APPLIED PHYSICS Volume: 105 Issue: 7 Article Number: 07D914 DOI: 10.1063/1.3072087 Published: APR 1 2009
57	Title: Dielectric relaxation in lead-free perovskite Ba(Bi_{1/2}Nb_{1/2})O₃ Author(s): Prasad K.; Bhagat S.; Nath K. Amar; et al. Source: PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE Volume: 206 Issue: 2 Pages: 316-320 DOI: 10.1002/pssa.200824354 Published: FEB 2009
56	Title: Observation of the room temperature magnetoelectric effect in Dy doped BiFeO₃ ; Author(s): Uniyal P.; Yadav K. L. Source: JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 21 Issue: 1 Article Number: 012205 DOI: 10.1088/0953-8984/21/1/012205 Published: JAN 7 2009
55	Title: Dielectric relaxation and ac conductivity of WO₃ added (Na_{1/2}Bi_{1/2})TiO₃ ceramic ; Author(s): Prasad K.; Kumari K.; Chandra K. P.; et al.; Source: MATERIALS SCIENCE-POLAND Volume: 27 Issue: 2 Pages: 373-384 Published: 2009
54	Title: Domain reorientation dynamics of sol-gel derived strontium doped PLZT (8/65/35) ; Author(s): Mohiddon Md Ahamad; Yadav K. L. Source: JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY Volume: 49 Issue: 1 Pages: 88-94 DOI: 10.1007/s10971-008-1840-y Published: JAN 2009
53	Title: Effect of heating rate on dielectric and pyroelectric properties of double doped PZT ; Author(s): Mohiddon M. A.; Yadav K. L.; Source: ADVANCES IN APPLIED CERAMICS Volume: 107 Issue: 6 Pages: 310-317 DOI: 10.1179/174367608X263386 Published: DEC 2008
52	Title: Reaction kinetics of PLZT formation and its effect on structural and dielectric properties ; Author(s): Mohiddon A.; Yadav K. L. Source: ADVANCES IN APPLIED CERAMICS Volume: 107 Issue: 6 Pages: 354-359 DOI: 10.1179/174367508X297803 Published: DEC 2008
51	Title: Effect of 90 degrees domain on ferroelectric properties of alkali modified SBN



	Author(s): Mohiddon Md Ahamad; Yadav K. L. Source: JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 41 Issue: 22 Article Number: 225406 DOI: 10.1088/0022-3727/41/22/225406 Published: NOV 21 2008
50	Title: Effect of Calcium Doping on Dielectric and Pyroelectric Properties of PLZT Author(s): Mohiddon Md. A.; Yadav K. L.; Source: IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION Volume: 15 Issue: 5 Pages: 1236-1241 DOI: 10.1109/TDEI.2008.4656230 Published: OCT 2008
49	Title: Study of dielectric, magnetic and ferroelectric properties in Bi_{1-x}Gd_xFeO₃ Author(s): Uniyal Poonam; Yadav K. L.; Source: MATERIALS LETTERS Volume: 62 Issue: 17-18 Pages: 2858-2861 DOI: 10.1016/j.matlet.2008.01.103 Published: JUN 30 2008
48	Title: Large magnetization and weak polarization in sol-gel derived BiFeO₃ ceramics Author(s): Kumar Manoj; Yadav K. L.; Varma G. D. Source: MATERIALS LETTERS Volume: 62 Issue: 8-9 Pages: 1159-1161 DOI: 10.1016/j.matlet.2007.07.075 Published: MAR 31 2008
47	Title: Synthesis and characterization of Mn doped PZT ceramics ; Author(s): Yadav K. L.; Sharma Pallavi; Source: INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES Volume: 15 Issue: 1 Pages: 61-67 Published: FEB 2008
46	Title: Rapid liquid phase sintered Mn doped BiFeO₃ ceramics with enhanced polarization and weak magnetization ; Author(s): Kumar Manoj; Yadav K. L. Source: APPLIED PHYSICS LETTERS Volume: 91 Issue: 24 Article Number: 242901 DOI: 10.1063/1.2816118 Published: DEC 10 2007
45	Title: Effect of Fe doping on dielectric, ferroelectric and pyroelectric properties of PLZT (8/65/35) ; Author(s): Mohiddon Md Ahamad; Yadav K. L. Source: JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 40 Issue: 23 Pages: 7540-7547 , DOI: 10.1088/0022-3727/40/23/045 Published: DEC 7 2007
44	Title: Glass-like response of (Na_{1/2}Bi_{1/2})TiO₃-WO₃ ceramic ; Author(s): Prasad K.; Kumari K.; Lily; et al.; Source: SOLID STATE COMMUNICATIONS Volume: 144 Issue: 1-2 Pages: 42-45 DOI: 10.1016/j.ssc.2007.07.024 Published: OCT 2007
43	Title: Electrical conduction in (Na_{0.5}Bi_{0.5})TiO₃ ceramic: impedance spectroscopy analysis ; Author(s): Prasad K.; Kumari K.; Lily; et al. Source: ADVANCES IN APPLIED CERAMICS Volume: 106 Issue: 5 Pages: 241-246 DOI: 10.1179/174367607X202627 Published: OCT 2007
42	Title: Observation of room temperature magnetoelectric coupling in a Ni substituted Pb_{1-x}Ni_xTiO₃ system ; Author(s): Kumar Manoj; Yadav K. L. Source: JOURNAL OF APPLIED PHYSICS Volume: 102 Issue: 7 Article Number: 076107 DOI: 10.1063/1.2785007 Published: OCT 1 2007
41	Title: Magnetic field induced phase transition in multiferroic BiFe_{1-x}Ti_xO₃ ceramics prepared by rapid liquid phase sintering ; Author(s): Kumar Manoj; Yadav K. L. Source: APPLIED PHYSICS LETTERS Volume: 91 Issue: 11 Article Number: 112911 DOI: 10.1063/1.2784179 Published: SEP 10 2007
40	Title: Magnetoelectric characterization of xNi_{0.75}Co_{0.25}Fe₂O₄-(1-x)BiFeO₃ nanocomposites ; Author(s): Kumar Manoj; Yadav K. L.; Source: JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS Volume: 68 Issue: 9 Pages: 1791-1795 DOI: 10.1016/j.jpccs.2007.05.006 Published: SEP 2007
39	Title: Electrical properties of a lead-free perovskite ceramic: (Na_{0.5}Sb_{0.5})TiO₃ Author(s): Prasad K.; Lily; Kumari K.; et al.; Source: APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING Volume: 88 Issue: 2 Pages: 377-383 DOI: 10.1007/s00339-007-3989-6 Published: AUG 2007
38	Title: Hopping type of conduction in (Na_{0.5}Bi_{0.5})ZrO₃ ceramic ; Author(s): Prasad K.; Lily; Kumari K.; et al.; Source: JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS Volume: 68 Issue: 8 Pages: 1508-1514



	DOI: 10.1016/j.jpccs.2007.03.023 Published: AUG 2007
37	Title: Dielectric and impedance study of lead-free ceramic: (Na_{0.5}Bi_{0.5})ZrO₃ Author(s): Lily; Kumari K.; Prasad K.; et al.; Source: JOURNAL OF MATERIALS SCIENCE Volume: 42 Issue: 15 Pages: 6252-6259 DOI: 10.1007/s10853-006-0824-y Published: AUG 2007
36	Title: Study of dielectric, magnetic, ferroelectric and magnetoelectric properties in the PbMn_xTi_{1-x}O₃ system at room temperature ; Author(s): Kumar Manoj; Yadav K. L. Source: JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 19 Issue: 24 Article Number: 242202 DOI: 10.1088/0953-8984/19/24/242202 Published: JUN 20 2007
35	Title: Substitution site effect on structural and dielectric properties of La-Bi modified PZT ; Author(s): Goel Puja; Yadav K. L. Source: JOURNAL OF MATERIALS SCIENCE Volume: 42 Issue: 11 Pages: 3928-3935 DOI: 10.1007/s10853-006-0416-x Published: JUN 2007
34	Title: Effect of Nd doping on structural, dielectric and thermodynamic properties of PZT (65/35) ceramic ; Author(s): Mohiddon Md Ahamad; Kumar Abhishek; Yadav K. L. Source: PHYSICA B-CONDENSED MATTER Volume: 395 Issue: 1-2 Pages: 1-9 DOI: 10.1016/j.physb.2006.09.022 Published: MAY 31 2007
33	Title: Structural and dielectric properties of (Li_{0.5}Na_{0.5}) doped strontium barium niobate ; Author(s): Mohiddon Md. Ahamad; Yadav K. L. Source: JOURNAL OF APPLIED PHYSICS Volume: 101 Issue: 9 Article Number: 094101 DOI: 10.1036/1.2720261 Published: MAY 1 2007
32	Title: Synthesis of nanocrystalline xCuFe₂O₄-(1-x)BiFeO₃ magnetoelectric composite by chemical method ; Author(s): Kumar Manoj; Yadav K. L. Source: MATERIALS LETTERS Volume: 61 Issue: 10 Pages: 2089-2092 DOI: 10.1016/j.matlet.2006.08.020 Published: APR 2007
31	Title: Observation of room temperature magnetoelectric coupling in Pb_{1-x}Ba_x(Fe_{0.5}Ti_{0.5})O₃ system ; Author(s): Kumar Manoj; Yadav K. L. Source: JOURNAL OF APPLIED PHYSICS Volume: 101 Issue: 5 Article Number: 054105 DOI: 10.1063/1.2404795 Published: MAR 1 2007
30	Title: Effect of Nb doping on structural and electric properties of PZT (65/35) ceramic ; Author(s): Mohiddon Md. A.; Kumar R.; Goel P.; et al. Source: IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION Volume: 14 Issue: 1 Pages: 204-211 DOI: 10.1109/TDEI.2007.302889 Published: FEB 2007
29	Title: Electrical and dielectric properties of double doped BaTiO₃ Author(s): Mohiddon Md A.; Goel P.; Yadav K. L.; et al. Source: INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES Volume: 14 Issue: 1 Pages: 64-68 Published: FEB 2007
28	Title: Effect of annealing conditions and concentration of oxygen vacancies on vanadium doped SrBi₂Ta₂O₉ ; Author(s): Goel Puja; Yadav K. L. Source: MATERIALS LETTERS Volume: 60 Issue: 25-26 Pages: 3183-3187 DOI: 10.1016/j.matlet.2006.02.063 Published: NOV 2006
27	Title: The effect of Ti substitution on magnetoelectric coupling at room temperature in the BiFe_{1-x}Ti_xO₃ system ; Author(s): Kumar Manoj; Yadav K. L. Source: JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 18 Issue: 40 Pages: L503-L508 , DOI: 10.1088/0953-8984/18/40/L02 Published: OCT 11 2006
26	Title: Study of room temperature magnetoelectric coupling in Ti substituted bismuth ferrite system ; Author(s): Kumar Manoj; Yadav K. L. Source: JOURNAL OF APPLIED PHYSICS Volume: 100 Issue: 7 Article Number: 074111 DOI: 10.1063/1.2349491 Published: OCT 1 2006
25	Title: Mechanism of do electrical conduction and human endothelial cell



	proliferation in polypyrrole/sodium nitrate membrane Author(s): Singh Ramadhar; Kumar Jitendra; Kaur Amarjeet; et al. Source: POLYMER Volume: 47 Issue: 17 Pages: 6042-6047 DOI: 10.1016/j.polymer.2006.06.057 Published: AUG 9 2006
24	Title: Effect of V⁺⁵ doping on structural and dielectric properties of SrBi₂Nb₂O₉ synthesized at low temperature ; Author(s): Goel Puja; Yadav K. L. Source: PHYSICA B-CONDENSED MATTER Volume: 382 Issue: 1-2 Pages: 245-251 DOI: 10.1016/j.physb.2006.02.033 Published: JUN 15 2006
23	Title: Structural and electrical properties of nanocrystalline PLZT ceramics synthesized via mechanochemical processing ; Author(s): James AR; Subrahmanyam J; Yadav KL ; Source: JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 39 Issue: 10 Pages: 2259-2263 , DOI: 10.1088/0022-3727/39/10/039 Published: MAY 21 2006
22	Title: Structural and dielectric properties of phosphorous-doped PLZT ceramics Author(s): Goel P; Sharma S; Yadav KL ; et al.; Source: PRAMANA-JOURNAL OF PHYSICS Volume: 65 Issue: 6 Pages: 1127-1132 DOI: 10.1007/BF02705288 Published: DEC 2005
21	Title: A comparative analysis of PBZT synthesized by co-precipitation and sol-gel method ; Author(s): Goel P; Yadav KL Source: INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES , Volume: 12 Issue: 6 Pages: 552-556 Published: DEC 2005
20	Title: Structural and dielectric properties of MgO doped 0.8PMN-0.2PT solid solution ; Author(s): Sharma Y; Sil A; Yadav KL Source: INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES Volume: 12 Issue: 4 Pages: 317-320 Published: AUG 2005
19	Title: Piezoelectric properties of modified PZT ceramics ; Author(s): Yadav KL ; Choudhary RNP; Source: FERROELECTRICS Volume: 325 Pages: 87-94 DOI: 10.1080/00150190500327124 Published: 2005
18	Title: Double doping effect on the structural and dielectric properties of PZT ceramics ; Author(s): Goel P; Yadav KL ; James AR Source: JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 37 Issue: 22 Pages: 3174-3179 Article Number: PII S0022-3727(04)78701-X DOI: 10.1088/0022-3727/37/22/019 Published: NOV 21 2004
17	Title: Mechanism of charge transport in polypyrrole-heparin composites Author(s): Kaur A; Singh R; Yadav KL ; et al.; Source: JOURNAL OF MACROMOLECULAR SCIENCE-PURE AND APPLIED CHEMISTRY Volume: A41 Issue: 12 Pages: 1369-1375 DOI: 10.1081/MA-200035283 Published: NOV 2004
16	Title: Formation of hydroxyapatite in water, Hank's solution, and serum at physiological temperature ; Author(s): Yadav KL ; Brown PW Source: JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A , Volume: 65A Issue: 2 Pages: 158-163 DOI: 10.1002/jbm.a.10278 Published: MAY 1 2003
15	Title: Mechanism of dc conduction in ferric chloride doped, poly(3-methyl thiophene) ; Author(s): Singh R; Kaur A; Yadav KL ; et al. Source: CURRENT APPLIED PHYSICS Volume: 3 Issue: 2-3 Pages: 235-238 DOI: 10.1016/S1567-1739(02)00208-0 Published: APR 2003
14	Title: Effect of synthesis temperature and doping level on conductivity and structure of poly(3-methyl thiophene) ; Author(s): Narula AK; Singh R; Yadav KL ; et al. Source: APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY Volume: 96 Issue: 1-3 Pages: 109-117 DOI: 10.1385/ABAB:96:1-3:109 Published: OCT-DEC 2001
13	Title: Direct current conductivity studies on poly(3-methyl thiophene) Author(s): Yadav KL ; Narula AK; Singh R; et al. Source: APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY Volume: 96 Issue: 1-3



	Pages: 119-124 DOI: 10.1385/ABAB:96:1-3:119 Published: OCT-DEC 2001
12	Title: Effect of sintering temperature on NPO, X7R & Z5U MLCC capacitor Author(s): Pujari SB; Yadav KL ; Pai KB; Editor(s): Chaturvedi DK; Murch GE Source: DISORDERED MATERIALS - CURRENT DEVELOPMENTS - Book Series: MATERIALS SCIENCE FORUM Volume: 223 Pages: 283-286 Published: 1996
11	Title: STRUCTURAL, SPECTROSCOPIC AND DIELECTRIC-PROPERTIES OF KVO₃ Author(s): MISRA NK; CHOUDHARY RNP; YADAV KL Source: PRAMANA-JOURNAL OF PHYSICS Volume: 44 Issue: 3 Pages: 219-224 DOI: 10.1007/BF02848473 Published: MAR 1995
10	Title: STRUCTURAL AND ELECTRICAL-PROPERTIES OF PZT (La, Rb) CERAMICS Author(s): YADAV KL ; CHOUDHARY RNP; Source: INDIAN JOURNAL OF PURE & APPLIED PHYSICS Volume: 32 Issue: 10 Pages: 842-845 Published: OCT 1994
9	Title: STRUCTURAL AND ELECTRICAL-PROPERTIES OF PZT (La, Na) CERAMICS Author(s): YADAV KL ; CHOUDHARY RNP; Source: MATERIALS LETTERS Volume: 19 Issue: 1-2 Pages: 61-64 DOI: 10.1016/0167-577X(94)90106-6 Published: MAR 1994
8	Title: STRUCTURAL AND DIELECTRIC-PROPERTIES OF PLLZT CERAMICS Author(s): YADAV KL ; CHOUDHARY RNP; Source: JOURNAL OF MATERIALS SCIENCE LETTERS Volume: 12 Issue: 21 Pages: 1722-1725 , DOI: 10.1007/BF00418844 Published: NOV 1 1993
7	Title: STRUCTURAL AND ELECTRICAL-PROPERTIES OF PZT (La, Bi) CERAMICS Author(s): YADAV KL ; CHOUDHARY RNP; Source: INDIAN JOURNAL OF PURE & APPLIED PHYSICS Volume: 31 Issue: 8 Pages: 585-587 Published: AUG 1993
6	Title: (PB,CA)[(Mn_{0.5}W_{0.5}),Ti]O₃ CERAMICS - X-RAY AND DIELECTRIC STUDIES Author(s): PRASAD K; SATI R; CHOUDHARY SN; et al.; Source: JOURNAL OF MATERIALS SCIENCE LETTERS Volume: 12 Issue: 10 Pages: 758-759 , DOI: 10.1007/BF00626712 Published: MAY 15 1993
5	Title: STRUCTURAL AND ELECTRICAL-PROPERTIES OF PZT (La, K) CERAMICS Author(s): YADAV KL ; CHOUDHARY RNP; Source: MATERIALS LETTERS Volume: 16 Issue: 5 Pages: 291-294 , DOI: 10.1016/0167-577X(93)90194-3 Published: MAY 1993
4	Title: X-RAY, THERMAL AND DIELECTRIC STUDIES OF CHEMICALLY DERIVED LANTHANUM-MODIFIED LEAD ZIRCONIUM TITANATE (7/65/35) CERAMICS Author(s): YADAV KL ; CHOUDHARY RNP; Source: JOURNAL OF MATERIALS SCIENCE LETTERS Volume: 12 Issue: 8 Pages: 561-563 , Published: APR 15 1993
3	Title: SYNTHESIS AND CHARACTERIZATION OF PLZT (10/65/35) Author(s): YADAV KL ; CHOUDHARY RNP; Source: JOURNAL OF MATERIALS SCIENCE Volume: 28 Issue: 3 Pages: 769-772 , DOI: 10.1007/BF01151254 Published: FEB 1 1993
2	Title: STRUCTURAL, SEM AND DIELECTRIC-PROPERTIES OF PLZT Author(s): YADAV KL ; CHOUDHARY RNP; CHAKI TK Source: JOURNAL OF MATERIALS SCIENCE Volume: 27 Issue: 19 Pages: 5244-5246 , DOI: 10.1007/BF02403823 Published: OCT 1 1992
1	Title: STRUCTURAL AND DIELECTRIC-PROPERTIES OF DyAsO₄ Author(s): CHOUDHARY RNP; YADAV KL Source: JOURNAL OF MATERIALS SCIENCE LETTERS Volume: 11 Issue: 9 Pages: 619-621 , DOI: 10.1007/BF00728627 Published: MAY 1 1992