

## 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
<b>Department of Physics, Indian Institute of Technology, Roorkee</b>	Assistant Professor	29-1-2002	07-05-2008
	Associate Professor	08-05-2008	3-04-2014
	<b>Professor</b>	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**

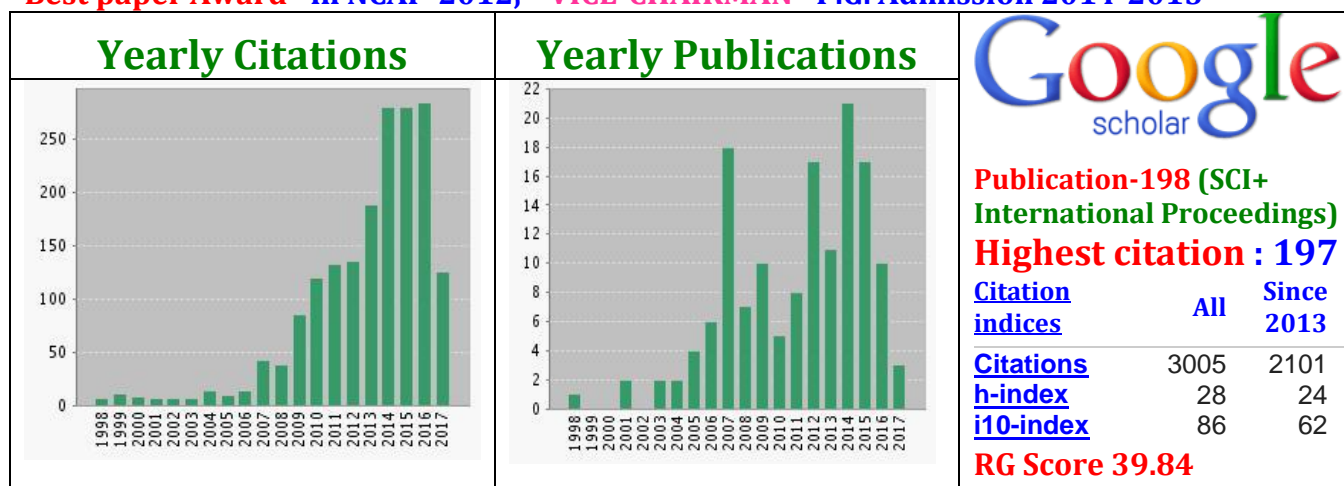
	Awarded	Submitted	Progress	Total
Ph. D Thesis	12	1	5	18
M. Tech, Dissertation	28	-	1	29
M.Sc. Dissertation	17	-	1	18

**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): 13.6 [Web of Science] Till: 24/3/2018**

**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 BiFeO<sub>3</sub>

P Uniyal and KL 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.

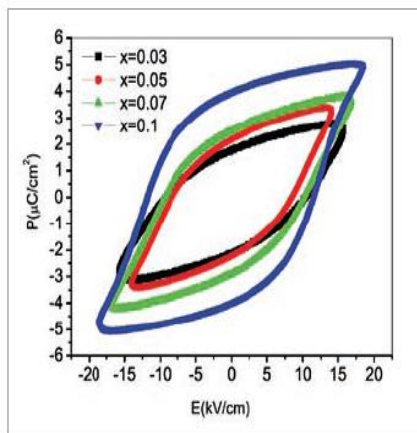
BiFeO<sub>3</sub> is one such multiferroic material which has attracted much interest. It displays both ferroelectricity and antiferromagnetism but is unsuitable for device application as its resistivity is too low to produce saturated hysteresis loops and its magnetization is too low.

Uniyal and Yadav (Indian Institute of Technology) have studied the effects of doping the BiFeO<sub>3</sub> system with Dy. They find that increasing Dy doping suppresses the spiral spin structure of BiFeO<sub>3</sub>, 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

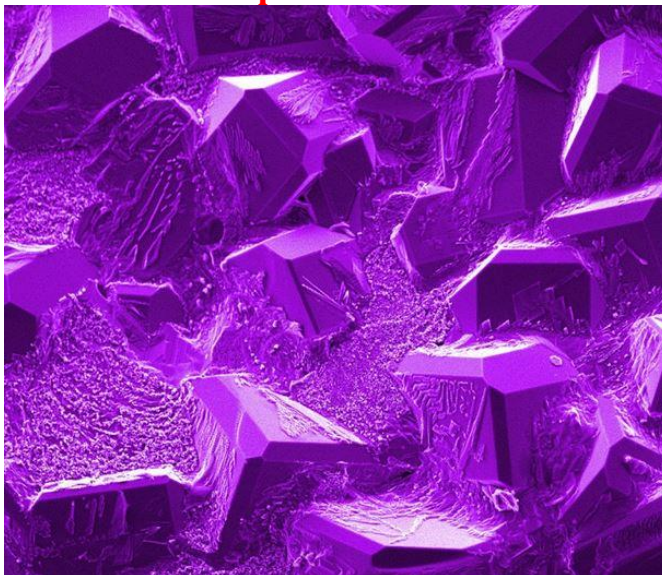
P Uniyal and KL Yadav

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

P Uniyal and KL 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 BiFeO<sub>3</sub> and stabilized the crystal structure.

The dielectric properties were enhanced by Pr substitution i.e.  $\epsilon$  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 फेराइट पाउडर के इस्तेमाल से कोशिकाओं को नष्ट हो 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, निकिल, 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 (BiFeO<sub>3</sub>) ceramic synthesized by solid state reaction are reported. Ti substitution for Fe in BiFeO<sub>3</sub> 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 μC/cm<sup>2</sup>, 2.571 kV/cm, and 0.658 μC/cm<sup>2</sup>, respectively at 20 kV/cm.

**Total citations, 197**

### List of Publication

No.	Publication Details
<b>144</b>	<b>MWCNT/TiO<sub>2</sub> hybrid nano filler toward high-performance epoxy composite</b> ; Kumar, Arun; Kumar, Kaushal; Ghosh, P. K.; et al.; <b>ULTRASONICS SONOCHEMISTRY</b> Volume: 41 Pages: 37-46 Published: MAR 2018
<b>143</b>	<b>Improved energy storage, magnetic and electrical properties of aligned, mesoporous and high aspect ratio nanofibers of spinel-NiMn<sub>2</sub>O<sub>4</sub></b> ; Bhagwan, Jai; Rani, Stuti; Sivasankaran, V.; et al.; <b>APPLIED SURFACE SCIENCE</b> Volume: 426 Pages: 913-923 Published: DEC 31 2017
<b>142</b>	<b>Study of structural, dielectric, electric, magnetic and magnetoelectric properties of K<sub>0.5</sub>Na<sub>0.5</sub>NbO<sub>3</sub> - Ni<sub>0.2</sub>Co<sub>0.8</sub>Fe<sub>2</sub>O<sub>4</sub> composites</b> ; Kumar, Yogesh; Yadav, K. L.; Manjusha; et al.; <b>CERAMICS INTERNATIONAL</b> Volume: 43 Issue: 16 Pages: 13438-13446 Published: NOV 2017
<b>141</b>	<b>Systematic investigation and in vitro biocompatibility studies on implantable magnetic nanocomposites for hyperthermia treatment of osteoarthritic knee joints</b> , Mohapatra, S.; Mishra, R.; Roy, P.; et al., <b>JOURNAL OF MATERIALS SCIENCE</b> Volume: 52 Issue: 16 Pages: 9262-9268 Published: AUG 2017
<b>140</b>	<b>Multiferroic and magnetoelectric properties of BiFeO<sub>3</sub>-CoFe<sub>2</sub>O<sub>4</sub>-poly(vinylidene-fluoride) composite films</b> , Adhlakha, Nidhi; Yadav, K. L.; Truccato, Marco; et al., <b>EUROPEAN POLYMER JOURNAL</b> Volume: 91 Pages: 100-110 Published: JUN 2017
<b>139</b>	<b>Electrically heterogeneous high dielectric BaTi<sub>0.4</sub>(Fe<sub>0.5</sub>Nb<sub>0.5</sub>)<sub>(0.6)</sub>O<sub>3</sub> ceramic</b> , Patel, Piyush Kumar; Yadav, K. L., <b>SOLID-STATE ELECTRONICS</b> Volume: 132 Pages: 39-44 Published: JUN 2017
<b>138</b>	<b>Strain mediated magnetoelectric coupling induced in (x) Bi<sub>0.5</sub>Na<sub>0.5</sub>TiO<sub>3</sub>-(1-x) MgFe<sub>2</sub>O<sub>4</sub> composites</b> ; Manjusha; Yadav, K. L.; Adhlakha, Nidhi; et al., <b>PHYSICA B-CONDENSED MATTER</b> Volume: 514 Pages: 41-50 Published: JUN 1 2017
<b>137</b>	<b>Nanofibers of spinel-CdMn<sub>2</sub>O<sub>4</sub>: A new and high performance material for supercapacitor and Li-ion batteries</b> ; Bhagwan, Jai; Sahoo, Asit; Yadav, K. L.; et al.; <b>JOURNAL OF ALLOYS AND COMPOUNDS</b> Volume: 703 Pages: 86-95 Published: MAY 5 2017
<b>136</b>	<b>Thermo-mechanical and anti-corrosive properties of MWCNT/epoxy nanocomposite fabricated by innovative dispersion technique</b> ; Kumar, Arun; Ghosh, P. K.; Yadav, K. L.; et al., <b>COMPOSITES PART B-ENGINEERING</b> Volume: 113 Pages: 291-299 Published: MAR 15 2017
<b>135</b>	<b>Reduced leakage current and improved multiferroic properties of 0.5 ((1-x)BLPFO-</b>



	<b>xPZT)-0.5PVDF composite films</b> ; Adhlakha, Nidhi; Yadav, K. L.; Truccato, Marco; et al. CERAMICS INTERNATIONAL Volume: 42 Issue: 16 Pages: 18238-18246, Published: DEC 2016
<b>134</b>	<b>Structural, magnetic and magnetoelectric properties of single phase La<sup>3+</sup> and Er<sup>3+</sup> co-doped Bi<sub>0.85-x</sub>La<sub>0.15</sub>Er<sub>x</sub>FeO<sub>3</sub> (0 ≤ x ≤ 0.1) ceramics</b> ; Manjusha; Yadav, K. L.; Mall, Ashish Kumar; MATERIALS RESEARCH EXPRESS Volume: 3 Issue: 11 Article Number: 115703 Published: NOV 2016
<b>133</b>	<b>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)</b> , Bhagwan, Jai; Sivasankaran, V.; Yadav, K. L.; et al.; JOURNAL OF POWER SOURCES Volume: 327 Pages: 29-37 Published: SEP 30 2016
<b>132</b>	<b>Structural, dielectric, magnetic and magnetoelectric properties of (x) Bi<sub>0.5</sub>Na<sub>0.5</sub>TiO<sub>3</sub>-(1-x) Ni<sub>0.2</sub>Co<sub>0.8</sub>Fe<sub>2</sub>O<sub>4</sub> composites</b> , Kumar, Yogesh; Yadav, K. L.; Manjusha; et al. MATERIALS RESEARCH EXPRESS Volume: 3 Issue: 6 Article Number: UNSP 065701 Published: JUN 2016
<b>131</b>	<b>Enhanced dielectric, ferroelectric and magnetodielectric properties in three phase 0.45Bi<sub>0.9</sub>La<sub>0.1</sub>FeO<sub>3</sub>-0.55Co<sub>0.5</sub>Ni<sub>0.5</sub>Fe<sub>2</sub>O<sub>4</sub>-BaTiO<sub>3</sub> composite</b> , Manjusha; Yadav, K. L., JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 27 Issue: 6 Pages: 6347-6358 Published: JUN 2016
<b>130</b>	<b>Multiferroic and optical studies on the effects of Ba<sup>2+</sup> ions in BiFeO<sub>3</sub> nanoparticles</b> , Kaur, Manpreet; Yadav, K. L.; Uniyal, Poonam, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS Volume: 27 Issue: 5 Pages: 4475-4482 Published: MAY 2016
<b>129</b>	<b>Bimodal distribution of grains Fractured surfaces</b> , Yadav, K. L.; Patel, Piyush K., MATERIALS TODAY Volume: 19 Issue: 1 Pages: 56-57 Published: JAN-FEB 2016
<b>128</b>	<b>Influence of oxygen pressure on the growth and physical properties of pulsed laser deposited Cu<sub>2</sub>O thin films</b> , 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
<b>127</b>	<b>Dwell time effect on the barrier layer capacitor structure in CaCu<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub> ceramic</b> , Patel, Piyush Kumar; Yadav, K. L., CERAMICS INTERNATIONAL, Volume: 41 Issue: 9 Pages: 12386-12392 Part: B, NOV 2015
<b>126</b>	<b>Structural and magnetodielectric properties of poly(vinylidene-fluoride)-[0.8(Bi<sub>0.5</sub>Na<sub>0.5</sub>)TiO<sub>3</sub>-0.2CoFe<sub>2</sub>O<sub>4</sub>] polymer composite films</b> , Rani, Jyoti; Yadav, K. L.; Prakash, Satya; COMPOSITES PART B-ENGINEERING Volume: 79 Pages: 138-143 Published: SEP 15 2015
<b>125</b>	<b>Influence of Beam Energy on the Properties of Pulsed Laser Deposited Al-Doped ZnO Thin Films</b> , By: Kaur, Gurpreet; Mitra, Anirban; Yadav, K. L.; IEEE TRANSACTIONS ON NANOTECHNOLOGY Volume: 14 Issue: 5 Pages: 922-930 Published: SEP 2015
<b>124</b>	<b>Structural, dielectric, vibrational and magnetic properties of Sm doped BiFeO<sub>3</sub> multiferroic ceramics prepared by a rapid liquid phase sintering method</b> , Singh, Hemant; Yadav, K. L., CERAMICS INTERNATIONAL Volume: 41 Issue: 8 Pages: 9285-9295 Published: SEP 2015
<b>123</b>	<b>Porous, One dimensional and High Aspect Ratio Mn<sub>3</sub>O<sub>4</sub> Nanofibers: Fabrication and Optimization for Enhanced Supercapacitive Properties</b> , Bhagwan, Jai; Sahoo, Asit; Yadav, Kanhaiya Lal; et al., ELECTROCHIMICA ACTA Volume: 174 Pages: 992-1001 Published: AUG 20 2015
<b>122</b>	<b>Localized surface plasmon induced enhancement of electron-hole generation with silver metal island at n-Al:ZnO/p-Cu<sub>2</sub>O heterojunction</b> , Kaur, Gurpreet; Yadav, K. L.; Mitra, Anirban; APPLIED PHYSICS LETTERS Volume: 107 Issue: 5 Article Number: 053901 Published: AUG 3 2015
<b>121</b>	<b>Ion implantation induced phase transformation and enhanced crystallinity of as</b>



	<b>deposited copper oxide thin films by pulsed laser deposition</b> , 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
<b>120</b>	<b>Development of Ba<sub>0.95</sub>Sr<sub>0.05</sub>(Fe<sub>0.5</sub>Nb<sub>0.5</sub>)O<sub>3</sub>/poly(vinylidene fluoride) nanocomposites for energy storage</b> , 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
<b>119</b>	<b>Structural, Dielectric, Ferroelectric and Magnetic Properties of (x) CoFe<sub>2</sub>O<sub>4</sub>-(1-x) BaTiO<sub>3</sub> Composite</b> , Manjusha; Rawat, Meera; Yadav, K. L.; IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION Volume: 22 Issue: 3 Pages: 1462-1469 Published: JUN 2015
<b>118</b>	<b>Enhanced magnetization with unusual low temperature magnetic ordering behaviour and spin reorientation in holmium-modified multiferroic BiFeO<sub>3</sub> perovskite ceramics</b> , Singh, Hemant; Yadav, K. L., JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 48 Issue: 20 Article Number: 205001 Published: MAY 29 2015
<b>117</b>	<b>Electrical, magnetic and magnetodielectric properties in ferrite-ferroelectric particulate composites</b> , Rawat, Meera; Yadav, K. L., SMART MATERIALS AND STRUCTURES Volume: 24 Issue: 4 Article Number: 045041 Published: APR 2015
<b>116</b>	<b>BiFeO<sub>3</sub>-CoFe<sub>2</sub>O<sub>4</sub>-PbTiO<sub>3</sub> composites: structural, multiferroic, and optical characteristics</b> , Adhlakha, Nidhi; Yadav, K. L.; Singh, Ripandeep, JOURNAL OF MATERIALS SCIENCE Volume: 50 Issue: 5 Pages: 2073-2084 Published: MAR 2015
<b>115</b>	<b>A novel one-pot synthesis of hierarchical europium doped ZnO nanoflowers</b> ; Panwar, Amit; Yadav, K. L., MATERIALS LETTERS Volume: 142 Pages: 30-34 Published: MAR 1 2015
<b>114</b>	<b>Synthesis and Thermal, Structural, Dielectric, Magnetic and Magnetoelectric Studies of BiFeO<sub>3</sub>-MgFe<sub>2</sub>O<sub>4</sub> Nanocomposites</b> , Singh, Hemant; Yadav, Kanhaiya Lal, JOURNAL OF THE AMERICAN CERAMIC SOCIETY Volume: 98 Issue: 2 Pages: 574-79, FEB 2015
<b>113</b>	<b>Pulsed laser deposited Al-doped ZnO thin films for optical applications</b> , Kaur, Gurpreet; Mitra, Anirban; Yadav, K. L., PROGRESS IN NATURAL SCIENCE-MATERIALS INTERNATIONAL Volume: 25 Issue: 1 Pages: 12-21 Published: FEB 2015
<b>112</b>	<b>Dielectric and magnetic properties of xCoFe<sub>2</sub>O<sub>4</sub>-(1-x)[0.5Ba(Zr<sub>0.2</sub>Ti<sub>0.8</sub>)O<sub>3</sub>-0.5(Ba<sub>0.7</sub>Ca<sub>0.3</sub>)TiO<sub>3</sub>] composites</b> , Rani, Jyoti; Yadav, K. L.; Prakash, Satya, MATERIALS RESEARCH BULLETIN Volume: 60 Pages: 367-375 Published: DEC 2014
<b>111</b>	<b>Compositional effects on structural, dielectric, ferroelectric and transport properties of Ba<sub>1-x</sub>(Bi<sub>0.5</sub>Li<sub>0.5</sub>)(x)TiO<sub>3</sub> ceramics</b> , Rawat, Meera; Yadav, K. L., MATERIALS CHEMISTRY AND PHYSICS Volume: 148 Issue: 3 Pages: 655-663 Published: DEC 15 2014
<b>110</b>	<b>Structural, dielectric and optical properties of sol-gel synthesized 0.55Ba(Zr<sub>0.2</sub>Ti<sub>0.8</sub>)O<sub>3</sub>-0.45(Ba<sub>0.7</sub>Ca<sub>0.3</sub>)TiO<sub>3</sub> ceramic</b> , Rani, Jyoti; Yadav, K. L.; Prakash, Satya, APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING Volume: 117 Issue: 3 Pages: 1131-1137 Published: NOV 2014
<b>109</b>	<b>Study of barrier layer capacitance effect in lead free Ba<sub>0.95</sub>Sr<sub>0.05</sub>(Fe<sub>0.5</sub>Nb<sub>0.5</sub>)O<sub>3</sub>-BaZr<sub>0.1</sub>Ti<sub>0.9</sub>O<sub>3</sub> ceramics</b> , Patel, Piyush Kumar; Yadav, K. L. PHYSICA B-CONDENSED MATTER Volume: 452 Pages: 136-141 Published: NOV 1 2014
<b>108</b>	<b>Effect of BaTiO<sub>3</sub> addition on structural, multiferroic and magneto-dielectric properties of 0.3CoFe<sub>2</sub>O<sub>4</sub>-0.7BiFeO<sub>3</sub> ceramics</b> , Adhlakha, Nidhi; Yadav, K. L.; Singh, Ripandeep, SMART MATERIALS AND STRUCTURES, Volume: 23 Issue: 10 Article Number: 105024, OCT 2014
<b>107</b>	<b>Study of Dielectric, Magnetic and Magnetoelectric Behavior of (x)NZF-(1-x)PLSZT Multiferroic Composites</b> , 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 $(1-x)(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3/x\text{CoFe}_2\text{O}_4$ composites, Rani, Jyoti; Yadav, K. L.; Prakash, Satya MATERIALS CHEMISTRY AND PHYSICS Volume: 147 Issue: 3 Pages: 1183-1190 Published: OCT 15 2014
105	<b>Study on multicaloric effect of CuO induced multiferroic</b> , Kumar, Amit; Yadav, K. L., JOURNAL OF APPLIED PHYSICS, Volume: 116 Issue: 8 Article Number: 083907, Published: AUG 28 2014
104	<b>Dielectric, ferroelectric and magnetoelectric response in <math>\text{Ba}_{0.92}(\text{Bi}_{0.5}\text{Na}_{0.5})(0.08)\text{TiO}_3\text{-Ni}_{0.65}\text{Zn}_{0.35}\text{Fe}_2\text{O}_4</math> composite ceramics</b> ; Rawat, Meera; Yadav, K. L.; SMART MATERIALS AND STRUCTURES; Volume: 23 Issue: 8 Article Number: 085032 Published: AUG 2014
103	<b>Structural, dielectric, magnetic, and optical properties of <math>\text{Ni}_{0.75}\text{Zn}_{0.25}\text{Fe}_2\text{O}_4\text{-BiFeO}_3</math> composites</b> , Adhlakha, Nidhi; Yadav, K. L., JOURNAL OF MATERIALS SCIENCE Volume: 49 Issue: 13 Pages: 4423-4438 Published: JUL 2014
102	<b>Effect of yttrium on microstructure, dielectric, ferroelectric and optical properties of <math>\text{BaZr}_{0.10}\text{Ti}_{0.90}\text{O}_3</math> nanoceramics</b> ; Patel, Piyush Kumar; Yadav, K. L.; PHYSICA B-CONDENSED MATTER Volume: 442 Pages: 39-43 Published: JUN 1 2014
101	<b>Study of structural, electrical, magnetic and optical properties of <math>0.65\text{BaTiO}_3\text{-}0.35\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3\text{-BiFeO}_3</math> multiferroic composite</b> , Rawat, Meera; Yadav, K. L. JOURNAL OF ALLOYS AND COMPOUNDS Volume: 597 Pages: 188-199, JUN 5 2014
100	<b><math>\text{Mo}^{6+}</math> Modified <math>(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3</math> Lead Free Ceramics: Structural, Electrical and Optical Properties</b> ; 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	<b>Origin of giant dielectric constant and magnetodielectric study in <math>\text{Ba}(\text{Fe}_{0.5}\text{Nb}_{0.5})\text{O}_3</math> nanoceramics</b> , 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	<b>Multiferroic Properties of <math>(\text{Bi}_{0.9}\text{Gd}_{0.1}\text{FeO})(1-x)(\text{BaTiO}_3)_x</math> Ceramics</b> , Uniyal, Poonam; Lotey, Gurmeet Singh; Gautam, Anamol; et al., JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, Vol: 27 (2) 569-574, FEB 2014
97	<b>Synthesis and study of structural, dielectric, magnetic and magnetoelectric characterization of <math>\text{BiFeO}_3\text{-NiFe}_2\text{O}_4</math> nanocomposites prepared by chemical solution method</b> ; Singh, Hemant; Yadav, K. L., JOURNAL OF ALLOYS AND COMPOUNDS, Volume: 585 Pages: 805-810 Published: FEB 5 2014
96	<b>Reduced dielectric loss in <math>\text{Ba}_{0.95}\text{Sr}_{0.05}(\text{Fe}_{0.5}\text{Nb}_{0.5})\text{O}_3</math> thin film grown by pulsed laser deposition</b> ; Patel, Piyush Kumar; Yadav, K. L.; Kaur, Gurpreet; RSC ADVANCES Volume: 4 Issue: 53 Pages: 28056-28061 Published: 2014
95	<b>Enhanced dielectric, ferroelectric and optical properties of lead free <math>(\text{K}_{0.17}\text{Na}_{0.83})\text{NbO}_3</math> ceramic with <math>\text{WO}_3</math> addition</b> , 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	<b>Analysis of static and dynamic performance of organic inverter circuits based on dual and single gate organic thin film transistors</b> , 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	<b>Implications of La and Y Codoping on Structural, Multiferroic, Magnetoelectric and Optical Properties of <math>\text{BiFeO}_3</math></b> , Adhlakha, Nidhi; Yadav, K. L.; Singh, Ripandeep SCIENCE OF ADVANCED MATERIALS, Volume: 5 Issue: 8 Pages: 947-959 Published: AUG 2013
92	<b>Study of Barrier Layer Effect in Sr Doped Barium Iron Niobate Ceramics</b> , Patel, Piyush Kumar; Yadav, K. L., SCIENCE OF ADVANCED MATERIALS; Volume: 5 Issue: 7 Pages: 891-895 Published: JUL 2013



91	<b>Structural, dielectric and ferroelectric properties of Ba<sub>1-x</sub>(Bi<sub>0.5</sub>Na<sub>0.5</sub>)<sub>x</sub>TiO<sub>3</sub> ceramics</b> , 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	<b>Structural, magnetic and optical properties of Bi<sub>1-x</sub>Dy<sub>x</sub>FeO<sub>3</sub> nanoparticles synthesized by sol-gel method</b> , 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	<b>Giant dielectric permittivity and room temperature magnetodielectric study of BaTi<sub>0.2</sub>(Fe<sub>0.5</sub>Nb<sub>0.5</sub>)(0.8)O-3 nanoceramic</b> , 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	<b>Enhanced dielectric properties of doped barium titanate ceramics</b> , 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	<b>Enhanced magnetodielectric properties of single-phase Bi<sub>0.95-x</sub>La<sub>0.05</sub>LuxFeO<sub>3</sub> multiferroic system</b> , 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: <b>Enhanced magnetoelectric sensitivity in Co<sub>0.7</sub>Zn<sub>0.3</sub>Fe<sub>2</sub>O<sub>4</sub>-Bi<sub>0.9</sub>La<sub>0.1</sub>FeO<sub>3</sub> nanocomposites</b> , 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	<b>Study of structural, dielectric and magnetic behaviour of Ni<sub>0.75</sub>Zn<sub>0.25</sub>Fe<sub>2</sub>O<sub>4</sub>-Ba(Ti<sub>0.85</sub>Zr<sub>0.15</sub>)O-3 composites</b> , 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	<b>Modified structure and electrical properties of BSZT doped KNN hybrid ceramic</b> , 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	<b>Structural, optical and magnetic study of (1-x)ZnO-xMgO composites prepared through solid state reaction method</b> , 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	<b>Synthesis and experimental investigation on thermal conductivity of nanofluids containing functionalized Polyaniline nanofibers</b> , 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: <b>Enhanced magnetocapacitance sensitivity in BiFeO<sub>3</sub>-poly(vinylidene-fluoride) hot pressed composite films</b> 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: <b>Low temperature step magnetization and magnetodielectric study in Bi<sub>0.95</sub>La<sub>0.05</sub>Fe<sub>1-x</sub>ZrxO<sub>3</sub> ceramics</b> , 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: <b>Multiferroic, magnetoelectric and optical properties of Mn doped BiFeO<sub>3</sub> nanoparticles</b> , 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: <b>Dielectric and magnetic properties of Bi<sub>1-x</sub>Y<sub>x</sub>FeO<sub>3</sub> ceramics</b> 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.jpcs.2011.11.005 Published: FEB 2012
77	Title: <b>Effect of Nb substitution on the structural, dielectric and magnetic properties of multiferroic BiFe<sub>1-x</sub>Nb<sub>x</sub>O<sub>3</sub> ceramics</b> ; 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: <b>Enhanced magnetoelectric properties in Bi(0.95)Ho(0.05)FeO(3) polycrystalline ceramics</b> ;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: <b>A systematic study on magnetic, dielectric and magnetocapacitance properties of Ni doped bismuth ferrite</b> ;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: <b>Dielectric, magnetic and magnetoelectric properties of La and Nb codoped bismuth ferrite</b> ; 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: <b>A quantitative model for stabilization effect induced by ferroelectric aging</b> 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: <b>Structural, dielectric, magnetic, magnetodielectric and impedance spectroscopic studies of multiferroic BiFeO(3)-BaTiO(3) ceramics</b> ; 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: <b>Synthesis and characterization of MnFe(2)O(4)-BiFeO(3) multiferroic composites</b> , 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	<b>Alivalent-Ion and Magnetic Field Induced Phase Transition in Multiferroic BiFe(1-x)Ti(x)O(3) System</b> ; 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: <b>Magnetic, magnetocapacitance and dielectric properties of Cr doped bismuth ferrite nanoceramics</b> ; 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: <b>Effect of sintering temperature on structural and electrical properties of BiFeO(3) multiferroics</b> ; 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: <b>The effect of Ni substitution on magnetic, dielectric and magnetoelectric properties in BiFe(1-x)Ni(x)O(3) system</b> ; 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: <b>Structural, magnetic and dielectric properties of xCrFe(2)O(4)-(1-x)BiFeO(3)</b>



	<b>multiferroic nanocomposites</b> ; Author(s): Kumar Amit; Yadav K. L.; Singh Hemant; et al. Source: PHYSICA B-CONDENSED MATTER Volume: <b>405</b> Issue: <b>10</b> Pages: <b>2362-2366</b> DOI: <b>10.1016/j.physb.2010.02.038</b> Published: <b>MAY 15 2010</b>
<b>65</b>	Title: <b>Synthesis and study of multiferroic properties of ZnFe(2)O(4)-BiFeO(3) nanocomposites</b> ; Author(s): Uniyal Poonam; Yadav K. L. Source: JOURNAL OF ALLOYS AND COMPOUNDS Volume: <b>492</b> Issue: <b>1-2</b> Pages: <b>406-410</b> DOI: <b>10.1016/j.jallcom.2009.10.275</b> Published: <b>MAR 4 2010</b>
<b>64</b>	Title: <b>Electrical conduction in Ba(Bi(0.5)Nb(0.5))O(3) ceramics Impedance spectroscopy analysis</b> ; Author(s): Prasad K.; Bhagat S.; Amarnath K.; et al.; Source: MATERIALS SCIENCE-POLAND Volume: <b>28</b> Issue: <b>1</b> Pages: <b>317-325</b> Published: <b>2010</b>
<b>63</b>	Title: <b>Effect of Ni doping on structural and dielectric properties of BaTiO(3)</b> ; Author(s): Kumar Yogeswar; Mohiddon Md Ahamad; Srivastava Alok; et al. Source: INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES Volume: <b>16</b> Issue: <b>6</b> Pages: <b>390-394</b> Published: <b>DEC 2009</b>
<b>62</b>	Title: <b>Pr doped bismuth ferrite ceramics with enhanced multiferroic properties</b> Author(s): Uniyal P.; Yadav K. L.; Source: JOURNAL OF PHYSICS-CONDENSED MATTER Volume: <b>21</b> Issue: <b>40</b> Article Number: <b>405901</b> DOI: <b>10.1088/0953-8984/21/40/405901</b> Published: <b>OCT 7 2009</b>
<b>61</b>	Title: <b>Effect of annealing on microstructure and P-E hysteresis of vanadium doped SrBi2)Ta(2)O(9)</b> , Goel P.; Ojha V. N.; Yadav K. L. Source: MATERIALS RESEARCH INNOVATIONS Volume: <b>13</b> Issue: <b>3</b> Pages: <b>352-356</b> DOI: <b>10.1179/143307509X441540</b> Published: <b>SEP 2009</b>
<b>60</b>	<b>Dielectric dispersion study of Mn-doped PLZT (8/65/35)</b> , Mohiddon Md. Ahamad; Yadav K. L.; PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE Volume: <b>206</b> Issue: <b>7</b> Pages: <b>1606-1615</b> ; DOI: <b>10.1002/pssa.200825075</b> Published: <b>JUL 2009</b>
<b>59</b>	Title: <b>Structural and Dielectric Properties of ZrO<sub>2</sub> Added (Na<sub>1/2</sub>Bi<sub>1/2</sub>)TiO<sub>3</sub> Ceramic</b> Author(s): Kumari K.; Prasad K.; Yadav K. L.; et al.; Source: BRAZILIAN JOURNAL OF PHYSICS Volume: <b>39</b> Issue: <b>2</b> Pages: <b>297-300</b> Published: <b>JUN 2009</b>
<b>58</b>	Title: <b>Room temperature multiferroic properties of Eu doped BiFeO<sub>3</sub></b> Author(s): Uniyal P.; Yadav K. L.; Source: JOURNAL OF APPLIED PHYSICS Volume: <b>105</b> Issue: <b>7</b> Article Number: <b>07D914</b> DOI: <b>10.1063/1.3072087</b> Published: <b>APR 1 2009</b>
<b>57</b>	Title: <b>Dielectric relaxation in lead-free perovskite Ba(Bi<sub>1/2</sub>Nb<sub>1/2</sub>)O<sub>3</sub></b> Author(s): Prasad K.; Bhagat S.; Nath K. Amar; et al. Source: PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE Volume: <b>206</b> Issue: <b>2</b> Pages: <b>316-320</b> DOI: <b>10.1002/pssa.200824354</b> Published: <b>FEB 2009</b>
<b>56</b>	Title: <b>Observation of the room temperature magnetoelectric effect in Dy doped BiFeO<sub>3</sub></b> ; Author(s): Uniyal P.; Yadav K. L. Source: JOURNAL OF PHYSICS-CONDENSED MATTER Volume: <b>21</b> Issue: <b>1</b> Article Number: <b>012205</b> DOI: <b>10.1088/0953-8984/21/1/012205</b> Published: <b>JAN 7 2009</b>
<b>55</b>	Title: <b>Dielectric relaxation and ac conductivity of WO<sub>3</sub> added (Na<sub>1/2</sub>Bi<sub>1/2</sub>)TiO<sub>3</sub> ceramic</b> ; Author(s): Prasad K.; Kumari K.; Chandra K. P.; et al.; Source: MATERIALS SCIENCE-POLAND Volume: <b>27</b> Issue: <b>2</b> Pages: <b>373-384</b> Published: <b>2009</b>
<b>54</b>	Title: <b>Domain reorientation dynamics of sol-gel derived strontium doped PLZT (8/65/35)</b> ; Author(s): Mohiddon Md Ahamad; Yadav K. L. Source: JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY Volume: <b>49</b> Issue: <b>1</b> Pages: <b>88-94</b> DOI: <b>10.1007/s10971-008-1840-y</b> Published: <b>JAN 2009</b>
<b>53</b>	Title: <b>Effect of heating rate on dielectric and pyroelectric properties of double doped PZT</b> ; Author(s): Mohiddon M. A.; Yadav K. L.; Source: ADVANCES IN APPLIED



	CERAMICS Volume: <b>107</b> Issue: <b>6</b> Pages: <b>310-317</b> DOI: <b>10.1179/174367608X263386</b> Published: <b>DEC 2008</b>
<b>52</b>	Title: <b>Reaction kinetics of PLZT formation and its effect on structural and dielectric properties</b> ; Author(s): Mohiddon A.; Yadav K. L. Source: ADVANCES IN APPLIED CERAMICS Volume: <b>107</b> Issue: <b>6</b> Pages: <b>354-359</b> DOI: <b>10.1179/174367508X297803</b> Published: <b>DEC 2008</b>
<b>51</b>	Title: <b>Effect of 90 degrees domain on ferroelectric properties of alkali modified SBN</b> Author(s): Mohiddon Md Ahamad; Yadav K. L. Source: JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: <b>41</b> Issue: <b>22</b> Article Number: <b>225406</b> DOI: <b>10.1088/0022-3727/41/22/225406</b> Published: <b>NOV 21 2008</b>
<b>50</b>	Title: <b>Effect of Calcium Doping on Dielectric and Pyroelectric Properties of PLZT</b> Author(s): Mohiddon Md. A.; Yadav K. L.; Source: IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION Volume: <b>15</b> Issue: <b>5</b> Pages: <b>1236-1241</b> DOI: <b>10.1109/TDEI.2008.4656230</b> Published: <b>OCT 2008</b>
<b>49</b>	Title: <b>Study of dielectric, magnetic and ferroelectric properties in Bi<sub>1-x</sub>Gd<sub>x</sub>FeO<sub>3</sub></b> Author(s): Uniyal Poonam; Yadav K. L.; Source: MATERIALS LETTERS Volume: <b>62</b> Issue: <b>17-18</b> Pages: <b>2858-2861</b> DOI: <b>10.1016/j.matlet.2008.01.103</b> Published: <b>JUN 30 2008</b>
<b>48</b>	Title: <b>Large magnetization and weak polarization in sol-gel derived BiFeO<sub>3</sub> ceramics</b> Author(s): Kumar Manoj; Yadav K. L.; Varma G. D. Source: MATERIALS LETTERS Volume: <b>62</b> Issue: <b>8-9</b> Pages: <b>1159-1161</b> DOI: <b>10.1016/j.matlet.2007.07.075</b> Published: <b>MAR 31 2008</b>
<b>47</b>	Title: <b>Synthesis and characterization of Mn doped PZT ceramics</b> ; Author(s): Yadav K. L.; Sharma Pallavi; Source: INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES Volume: <b>15</b> Issue: <b>1</b> Pages: <b>61-67</b> Published: <b>FEB 2008</b>
<b>46</b>	Title: <b>Rapid liquid phase sintered Mn doped BiFeO<sub>3</sub> ceramics with enhanced polarization and weak magnetization</b> ; Author(s): Kumar Manoj; Yadav K. L. Source: APPLIED PHYSICS LETTERS Volume: <b>91</b> Issue: <b>24</b> Article Number: <b>242901</b> DOI: <b>10.1063/1.2816118</b> Published: <b>DEC 10 2007</b>
<b>45</b>	Title: <b>Effect of Fe doping on dielectric, ferroelectric and pyroelectric properties of PLZT (8/65/35)</b> ; Author(s): Mohiddon Md Ahamad; Yadav K. L. Source: JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: <b>40</b> Issue: <b>23</b> Pages: <b>7540-7547</b> , DOI: <b>10.1088/0022-3727/40/23/045</b> Published: <b>DEC 7 2007</b>
<b>44</b>	Title: <b>Glass-like response of (Na<sub>1/2</sub>Bi<sub>1/2</sub>)TiO<sub>3</sub>-WO<sub>3</sub> ceramic</b> ; Author(s): Prasad K.; Kumari K.; Lily; et al.; Source: SOLID STATE COMMUNICATIONS Volume: <b>144</b> Issue: <b>1-2</b> Pages: <b>42-45</b> DOI: <b>10.1016/j.ssc.2007.07.024</b> Published: <b>OCT 2007</b>
<b>43</b>	Title: <b>Electrical conduction in (Na<sub>0.5</sub>Bi<sub>0.5</sub>)TiO<sub>3</sub> ceramic: impedance spectroscopy analysis</b> ; Author(s): Prasad K.; Kumari K.; Lily; et al. Source: ADVANCES IN APPLIED CERAMICS Volume: <b>106</b> Issue: <b>5</b> Pages: <b>241-246</b> DOI: <b>10.1179/174367607X202627</b> Published: <b>OCT 2007</b>
<b>42</b>	Title: <b>Observation of room temperature magnetoelectric coupling in a Ni substituted Pb<sub>1-x</sub>Ni<sub>x</sub>TiO<sub>3</sub> system</b> ; Author(s): Kumar Manoj; Yadav K. L. Source: JOURNAL OF APPLIED PHYSICS Volume: <b>102</b> Issue: <b>7</b> Article Number: <b>076107</b> DOI: <b>10.1063/1.2785007</b> Published: <b>OCT 1 2007</b>
<b>41</b>	Title: <b>Magnetic field induced phase transition in multiferroic BiFe<sub>1-x</sub>Ti<sub>x</sub>O<sub>3</sub> ceramics prepared by rapid liquid phase sintering</b> ; Author(s): Kumar Manoj; Yadav K. L. Source: APPLIED PHYSICS LETTERS Volume: <b>91</b> Issue: <b>11</b> Article Number: <b>112911</b> DOI: <b>10.1063/1.2784179</b> Published: <b>SEP 10 2007</b>
<b>40</b>	Title: <b>Magnetoelectric characterization of xNi<sub>0.75</sub>Co<sub>0.25</sub>Fe<sub>2</sub>O<sub>4</sub>-(1-x)BiFeO<sub>3</sub> nanocomposites</b> ; Author(s): Kumar Manoj; Yadav K. L.; Source: JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS Volume: <b>68</b> Issue: <b>9</b> Pages: <b>1791-1795</b> DOI: <b>10.1016/j.jpccs.2007.05.006</b> Published: <b>SEP 2007</b>





39	Title: <b>Electrical properties of a lead-free perovskite ceramic: <math>(\text{Na}_{0.5}\text{Sb}_{0.5})\text{TiO}_3</math></b> Author(s): Prasad K.; Lily; Kumari K.; et al.; Source: APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING Volume: <b>88</b> Issue: <b>2</b> Pages: <b>377-383</b> DOI: <b>10.1007/s00339-007-3989-6</b> Published: <b>AUG 2007</b>
38	Title: <b>Hopping type of conduction in <math>(\text{Na}_{0.5}\text{Bi}_{0.5})\text{ZrO}_3</math> ceramic</b> ; Author(s): Prasad K.; Lily; Kumari K.; et al.; Source: JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS Volume: <b>68</b> Issue: <b>8</b> Pages: <b>1508-1514</b> DOI: <b>10.1016/j.jpics.2007.03.023</b> Published: <b>AUG 2007</b>
37	Title: <b>Dielectric and impedance study of lead-free ceramic: <math>(\text{Na}_{0.5}\text{Bi}_{0.5})\text{ZrO}_3</math></b> Author(s): Lily; Kumari K.; Prasad K.; et al.; Source: JOURNAL OF MATERIALS SCIENCE Volume: <b>42</b> Issue: <b>15</b> Pages: <b>6252-6259</b> DOI: <b>10.1007/s10853-006-0824-y</b> Published: <b>AUG 2007</b>
36	Title: <b>Study of dielectric, magnetic, ferroelectric and magnetoelectric properties in the <math>\text{PbMn}_x\text{Ti}_{1-x}\text{O}_3</math> system at room temperature</b> ; Author(s): Kumar Manoj; Yadav K. L. Source: JOURNAL OF PHYSICS-CONDENSED MATTER Volume: <b>19</b> Issue: <b>24</b> Article Number: <b>242202</b> DOI: <b>10.1088/0953-8984/19/24/242202</b> Published: <b>JUN 20 2007</b>
35	Title: <b>Substitution site effect on structural and dielectric properties of La-Bi modified PZT</b> ; Author(s): Goel Puja; Yadav K. L. Source: JOURNAL OF MATERIALS SCIENCE Volume: <b>42</b> Issue: <b>11</b> Pages: <b>3928-3935</b> DOI: <b>10.1007/s10853-006-0416-x</b> Published: <b>JUN 2007</b>
34	Title: <b>Effect of Nd doping on structural, dielectric and thermodynamic properties of PZT (65/35) ceramic</b> ; Author(s): Mohiddon Md Ahamad; Kumar Abhishek; Yadav K. L. Source: PHYSICA B-CONDENSED MATTER Volume: <b>395</b> Issue: <b>1-2</b> Pages: <b>1-9</b> DOI: <b>10.1016/j.physb.2006.09.022</b> Published: <b>MAY 31 2007</b>
33	Title: <b>Structural and dielectric properties of <math>(\text{Li}_{0.5}\text{Na}_{0.5})</math> doped strontium barium niobate</b> ; Author(s): Mohiddon Md. Ahamad; Yadav K. L. Source: JOURNAL OF APPLIED PHYSICS Volume: <b>101</b> Issue: <b>9</b> Article Number: <b>094101</b> DOI: <b>10.1036/1.2720261</b> Published: <b>MAY 1 2007</b>
32	Title: <b>Synthesis of nanocrystalline <math>x\text{CuFe}_2\text{O}_4-(1-x)\text{BiFeO}_3</math> magnetoelectric composite by chemical method</b> ; Author(s): Kumar Manoj; Yadav K. L. Source: MATERIALS LETTERS Volume: <b>61</b> Issue: <b>10</b> Pages: <b>2089-2092</b> DOI: <b>10.1016/j.matlet.2006.08.020</b> Published: <b>APR 2007</b>
31	Title: <b>Observation of room temperature magnetoelectric coupling in <math>\text{Pb}_{1-x}\text{Ba}_x(\text{Fe}_{0.5}\text{Ti}_{0.5})\text{O}_3</math> system</b> ; Author(s): Kumar Manoj; Yadav K. L. Source: JOURNAL OF APPLIED PHYSICS Volume: <b>101</b> Issue: <b>5</b> Article Number: <b>054105</b> DOI: <b>10.1063/1.2404795</b> Published: <b>MAR 1 2007</b>
30	Title: <b>Effect of Nb doping on structural and electric properties of PZT (65/35) ceramic</b> ; Author(s): Mohiddon Md. A.; Kumar R.; Goel P.; et al. Source: IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION Volume: <b>14</b> Issue: <b>1</b> Pages: <b>204-211</b> DOI: <b>10.1109/TDEI.2007.302889</b> Published: <b>FEB 2007</b>
29	Title: <b>Electrical and dielectric properties of double doped <math>\text{BaTiO}_3</math></b> Author(s): Mohiddon Md A.; Goel P.; Yadav K. L.; et al. Source: INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES Volume: <b>14</b> Issue: <b>1</b> Pages: <b>64-68</b> Published: <b>FEB 2007</b>
28	Title: <b>Effect of annealing conditions and concentration of oxygen vacancies on vanadium doped <math>\text{SrBi}_2\text{Ta}_2\text{O}_9</math></b> ; Author(s): Goel Puja; Yadav K. L. Source: MATERIALS LETTERS Volume: <b>60</b> Issue: <b>25-26</b> Pages: <b>3183-3187</b> DOI: <b>10.1016/j.matlet.2006.02.063</b> Published: <b>NOV 2006</b>
27	Title: <b>The effect of Ti substitution on magnetoelectric coupling at room temperature in the <math>\text{BiFe}_{1-x}\text{Ti}_x\text{O}_3</math> system</b> ; Author(s): Kumar Manoj; Yadav K. L. Source: JOURNAL OF PHYSICS-CONDENSED



	MATTER Volume: <b>18</b> Issue: <b>40</b> Pages: <b>L503-L508</b> , DOI: <b>10.1088/0953-8984/18/40/L02</b> Published: <b>OCT 11 2006</b>
<b>26</b>	Title: <b>Study of room temperature magnetoelectric coupling in Ti substituted bismuth ferrite system</b> ; Author(s): Kumar Manoj; Yadav K. L. Source: JOURNAL OF APPLIED PHYSICS Volume: <b>100</b> Issue: <b>7</b> Article Number: <b>074111</b> DOI: <b>10.1063/1.2349491</b> Published: <b>OCT 1 2006</b>
<b>25</b>	Title: <b>Mechanism of dc electrical conduction and human endothelial cell proliferation in polypyrrole/sodium nitrate membrane</b> Author(s): Singh Ramadhar; Kumar Jitendra; Kaur Amarjeet; et al. Source: POLYMER Volume: <b>47</b> Issue: <b>17</b> Pages: <b>6042-6047</b> DOI: <b>10.1016/j.polymer.2006.06.057</b> Published: <b>AUG 9 2006</b>
<b>24</b>	Title: <b>Effect of V<sup>+5</sup> doping on structural and dielectric properties of SrBi<sub>2</sub>Nb<sub>2</sub>O<sub>9</sub> synthesized at low temperature</b> ;Author(s): Goel Puja; Yadav K. L. Source: PHYSICA B-CONDENSED MATTER Volume: <b>382</b> Issue: <b>1-2</b> Pages: <b>245-251</b> DOI: <b>10.1016/j.physb.2006.02.033</b> Published: <b>JUN 15 2006</b>
<b>23</b>	Title: <b>Structural and electrical properties of nanocrystalline PLZT ceramics synthesized via mechanochemical processing</b> ; Author(s): James AR; Subrahmanyam J; <b>Yadav KL</b> ; Source: JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: <b>39</b> Issue: <b>10</b> Pages: <b>2259-2263</b> , DOI: <b>10.1088/0022-3727/39/10/039</b> Published: <b>MAY 21 2006</b>
<b>22</b>	Title: <b>Structural and dielectric properties of phosphorous-doped PLZT ceramics</b> Author(s): Goel P; Sharma S; <b>Yadav KL</b> ; et al.; Source: PRAMANA-JOURNAL OF PHYSICS Volume: <b>65</b> Issue: <b>6</b> Pages: <b>1127-1132</b> DOI: <b>10.1007/BF02705288</b> Published: <b>DEC 2005</b>
<b>21</b>	Title: <b>A comparative analysis of PBZT synthesized by co-precipitation and sol-gel method</b> ;Author(s): Goel P; <b>Yadav KL</b> Source: INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES , Volume: <b>12</b> Issue: <b>6</b> Pages: <b>552-556</b> Published: <b>DEC 2005</b>
<b>20</b>	Title: <b>Structural and dielectric properties of MgO doped 0.8PMN-0.2PT solid solution</b> ; Author(s): Sharma Y; Sil A; <b>Yadav KL</b> Source: INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES Volume: <b>12</b> Issue: <b>4</b> Pages: <b>317-320</b> Published: <b>AUG 2005</b>
<b>19</b>	Title: <b>Piezoelectric properties of modified PZT ceramics</b> ; Author(s): <b>Yadav KL</b> ; Choudhary RNP; Source: FERROELECTRICS Volume: <b>325</b> Pages: <b>87-94</b> DOI: <b>10.1080/00150190500327124</b> Published: <b>2005</b>
<b>18</b>	Title: <b>Double doping effect on the structural and dielectric properties of PZT ceramics</b> ; Author(s): Goel P; <b>Yadav KL</b> ; James AR Source: JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: <b>37</b> Issue: <b>22</b> Pages: <b>3174-3179</b> Article Number: <b>PII S0022-3727(04)78701-X</b> DOI: <b>10.1088/0022-3727/37/22/019</b> Published: <b>NOV 21 2004</b>
<b>17</b>	Title: <b>Mechanism of charge transport in polypyrrole-heparin composites</b> Author(s): Kaur A; Singh R; <b>Yadav KL</b> ; et al.; Source: JOURNAL OF MACROMOLECULAR SCIENCE-PURE AND APPLIED CHEMISTRY Volume: <b>A41</b> Issue: <b>12</b> Pages: <b>1369-1375</b> DOI: <b>10.1081/MA-200035283</b> Published: <b>NOV 2004</b>
<b>16</b>	Title: <b>Formation of hydroxyapatite in water, Hank's solution, and serum at physiological temperature</b> ; Author(s): <b>Yadav KL</b> ; Brown PW Source: JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A , Volume: <b>65A</b> Issue: <b>2</b> Pages: <b>158-163</b> DOI: <b>10.1002/jbm.a.10278</b> Published: <b>MAY 1 2003</b>
<b>15</b>	Title: <b>Mechanism of dc conduction in ferric chloride doped, poly(3-methyl thiophene)</b> ; Author(s): Singh R; Kaur A; <b>Yadav KL</b> ; et al. Source: CURRENT APPLIED PHYSICS Volume: <b>3</b> Issue: <b>2-3</b> Pages: <b>235-238</b> DOI: <b>10.1016/S1567-1739(02)00208-0</b> Published: <b>APR 2003</b>



14	Title: <b>Effect of synthesis temperature and doping level on conductivity and structure of poly(3-methyl thiophene)</b> ; Author(s): Narula AK; Singh R; <b>Yadav KL</b> ; 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: <b>Direct current conductivity studies on poly(3-methyl thiophene)</b> Author(s): <b>Yadav KL</b> ; 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: <b>Effect of sintering temperature on NPO, X7R &amp; Z5U MLCC capacitor</b> Author(s): Pujari SB; <b>Yadav KL</b> ; 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: <b>STRUCTURAL, SPECTROSCOPIC AND DIELECTRIC-PROPERTIES OF KVO<sub>3</sub></b> Author(s): MISRA NK; CHOUDHARY RNP; <b>YADAV KL</b> Source: PRAMANA-JOURNAL OF PHYSICS Volume: 44 Issue: 3 Pages: 219-224 DOI: 10.1007/BF02848473 Published: MAR 1995
10	Title: <b>STRUCTURAL AND ELECTRICAL-PROPERTIES OF PZT (La, Rb) CERAMICS</b> Author(s): <b>YADAV KL</b> ; CHOUDHARY RNP; Source: INDIAN JOURNAL OF PURE & APPLIED PHYSICS Volume: 32 Issue: 10 Pages: 842-845 Published: OCT 1994
9	Title: <b>STRUCTURAL AND ELECTRICAL-PROPERTIES OF PZT (La, Na) CERAMICS</b> Author(s): <b>YADAV KL</b> ; 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: <b>STRUCTURAL AND DIELECTRIC-PROPERTIES OF PLLZT CERAMICS</b> Author(s): <b>YADAV KL</b> ; 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: <b>STRUCTURAL AND ELECTRICAL-PROPERTIES OF PZT (La, Bi) CERAMICS</b> Author(s): <b>YADAV KL</b> ; CHOUDHARY RNP; Source: INDIAN JOURNAL OF PURE & APPLIED PHYSICS Volume: 31 Issue: 8 Pages: 585-587 Published: AUG 1993
6	Title: <b>(PB,CA)[(Mn<sub>0.5</sub>W<sub>0.5</sub>),TI]O<sub>3</sub> CERAMICS - X-RAY AND DIELECTRIC STUDIES</b> 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: <b>STRUCTURAL AND ELECTRICAL-PROPERTIES OF PZT (La, K) CERAMICS</b> Author(s): <b>YADAV KL</b> ; 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: <b>X-RAY, THERMAL AND DIELECTRIC STUDIES OF CHEMICALLY DERIVED LANTHANUM-MODIFIED LEAD ZIRCONIUM TITANATE (7/65/35) CERAMICS</b> Author(s): <b>YADAV KL</b> ; CHOUDHARY RNP; Source: JOURNAL OF MATERIALS SCIENCE LETTERS Volume: 12 Issue: 8 Pages: 561-563, Published: APR 15 1993
3	Title: <b>SYNTHESIS AND CHARACTERIZATION OF PLZT (10/65/35)</b> Author(s): <b>YADAV KL</b> ; CHOUDHARY RNP; Source: JOURNAL OF MATERIALS SCIENCE Volume: 28 Issue: 3 Pages: 769-772, DOI: 10.1007/BF01151254 Published: FEB 1 1993
2	Title: <b>STRUCTURAL, SEM AND DIELECTRIC-PROPERTIES OF PLZT</b> Author(s): <b>YADAV KL</b> ; 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: <b>STRUCTURAL AND DIELECTRIC-PROPERTIES OF DyAsO<sub>4</sub></b> Author(s): CHOUDHARY RNP; <b>YADAV KL</b>





Source: JOURNAL OF MATERIALS SCIENCE LETTERS Volume: 11 Issue: 9 Pages: 619-621, DOI: 10.1007/BF00728627 Published: MAY 1 1992