

Curriculum Vitae

ANKUSH BABURAO KADAM (M. Sc., Ph.D.)

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Personal Details

Birth Date : April 05, 1971

Address : Physics Department,
(Correspondence) Jawahar College, Anadur
Tq. Tuljapur, Dist. Osmanabad
M.S. (India)

Address (Home) : Shivaji Chowk, At. Post. Jalkot,
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M.S. (India)
Mobile: +919422070125
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Educational Status

Year	Degree	University	Subjects	Class
2006	Ph.D.	Dr. B. A. Marathwada University, Aurangabad.	Physics	Awarded
1993	M.Sc.	Marathwada University, Aurangabad.	Physics (Electronics)	First
1991	B.Sc.	Marathwada University, Aurangabad.	Physics, Electronics, Maths	First

Ph.D. Degree Topic: "Electrical and Magnetic properties of Mixed Oxides."

Work Experience

- Presently working as Associate Professor in Physics since August 2018.
- Worked as Assistant Professor in Physics during July 1995 to August 2018.

Membership Professional Bodies

- Vice President: Babasaheb Ambedkar Marathwada University and College Teachers Association (BAMUCTA – 2005-2011)
- President: Babasaheb Ambedkar Marathwada University and College Teachers Association (BAMUCTA – 2011-till today)

Membership (Academic Bodies)

- Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- ✿ Member: Senate (2005-2010)
 - ✿ Member : Advisory Committee (2005-2010)
 - ✿ Member: University Subcampus Osmanabad (2010-2015)
 - ✿ Member: Academic Council (2010-2015)
 - ✿ Member: Faculty of Science (2010-2015)

Nominations	<ul style="list-style-type: none"> ❖ Chairman / Member: Affiliation Committee ❖ Member: Selection Committee for lecturers ❖ Chairman / Member of various committees formulated by Dr. B.A.M. University Auranagabad. 																				
Examination Work	<ul style="list-style-type: none"> • Worked as Joint Chief Superintendent and Vigilance Squad in University Examinations. • Worked as Paper setter, Examiner and Moderator. 																				
Research Activities	<p>Conference / Seminar / Workshop / Symposia Attended</p> <ul style="list-style-type: none"> • National Conference : 14 • International Conference : 05 • Seminar : 08 • Workshop : 04 • Symposia : 03 <p>Papers Presented in National/International Conference</p> <ul style="list-style-type: none"> • National Conference : 08 • International Conference : 03 <p>Research Publications:</p> <ul style="list-style-type: none"> • International Journals : 18 • National Journals : 27 • Books : 07 																				
Ph.D. Guideship	<p>Recognized Ph.D. Guide of Dr. B. A. M. University Aurangabad.</p> <ul style="list-style-type: none"> • No. of students Completed Ph.D. : 03 • No. of Students registered for Ph.D. : 03 																				
Research Projects	<p>Major Projects : 01 Minor Projects : 02</p> <table border="1" data-bbox="371 1608 1409 2033"> <thead> <tr> <th>Sr. No.</th> <th>Title of the Project</th> <th>Funding Agency</th> <th>Amount Sanctioned</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>"Electrical and Magnetic behaviour of nano-sized spinel ferrites synthesized by chemical route"</td> <td>UGC (WRO) Pune</td> <td>1,75,000/-</td> <td>Completed</td> </tr> <tr> <td>2</td> <td>"Effect of dopant on the structural electric and magnetic behavior of some nano-crystalline spinel ferrites prepared by sol – gel autocombustion method."</td> <td>UGC, New Delhi</td> <td>6,70,800/-</td> <td>Completed</td> </tr> <tr> <td>3</td> <td>"Chemical synthesis and physical characterization of doped spinel ferrites with nano-structure."</td> <td>Dr. B.A.M.U. Aurangabad</td> <td>35,000/-</td> <td>Ongoing</td> </tr> </tbody> </table>	Sr. No.	Title of the Project	Funding Agency	Amount Sanctioned	Status	1	"Electrical and Magnetic behaviour of nano-sized spinel ferrites synthesized by chemical route"	UGC (WRO) Pune	1,75,000/-	Completed	2	"Effect of dopant on the structural electric and magnetic behavior of some nano-crystalline spinel ferrites prepared by sol – gel autocombustion method."	UGC, New Delhi	6,70,800/-	Completed	3	"Chemical synthesis and physical characterization of doped spinel ferrites with nano-structure."	Dr. B.A.M.U. Aurangabad	35,000/-	Ongoing
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3	"Chemical synthesis and physical characterization of doped spinel ferrites with nano-structure."	Dr. B.A.M.U. Aurangabad	35,000/-	Ongoing																	

**Extension
Work**

- ✿ Delivered lectures on National Integration, Secularism, Scientific Temper.
- ✿ Participated in literacy Mission Camp organized by at various places
- ✿ Organized various Special Camps of NSS.
- ✿ Delivered Lecture on disaster management.
- ✿ Delivered lecture in Various N.S.S Camp.

Dr. A. B. Kadam

Associate Professor,
Physics Department,
Jawahar College, Anadur.

Research Publications: (A. B. Kadam)

2017-18

a) International Journals

- 1) Ferro – and magneto – electric characteristics in $YFeO_3$ - $Y_3Fe_5O_{12}$.
S. R. Wadgane, S. E. Shirsath, A. S. Gaikwad, Sunil Satpute, **A. B. Kadam**, R. H. Kadam
J. Magn. Magn. Mater. 457 (2018) 103-109.
- 2) Hopping Mechanism and cation distribution in $Ni_{0.2}Co_{0.6}Zn_{0.2}Fe_{2-x}Cr_xO_4$
S. D. Balsure, **A. B. Kadam**, Kirti Desai, A. R. Shitre
Research Directions 5 (2017) 1-8.
- 3) Sol-gel synthesis and XRD investigations of Cr^{3+} doped NCZ-ferrite nanoparticles
S. D. Balsure, **A. B. Kadam**, S. D. Patil, A. R. Shitre
Review of Research 6 (2017) 01-05.

b) National Journals

- 4) Effect of Bismuth Ion on the structural, dielectric and Morphological properties of Aluminium doped yttrium iron garnet nanoparticles powders synthesized by sol-gel autocombustion method
R. B. Borade, S. B. Kadam, S. E. Shirsath, R. H. Kadam, **A. B. Kadam**
Int. J. Chem. Phys. Sci. 7 (2018) 391-398.
- 5) Barium Titanate ($BaTiO_3$) synthesized by sol-gel autocombustion method
Int. Res. J. Sci. Engg. (2018)
- 6) Sol-gel synthesized $Y_{3-x}Bi_xAl_{0.5}Fe_{4.5}O_{12}$ nanoparticles: structural and electrical investigations
Int. Res. J. Sci. Engg. (2018)

2016-17

a) Conference Proceedings (Full Lengths):

- 1) Structural Characterization of Sol-Gel Synthesized $Ni_{0.4}Cu_{0.4}Al_xFe_{2-x}O_4$
R. H. Kadam, S. E. Shirsath, Y. A. Vijapure, S. T. Alone, L. A. Dhale, **A. B. Kadam**, D. R. Mane
Int. J. Adv. Res. Bas. Appl. Science Special Issue (2017) 69.

b) Conference Proceedings (Abstracts):

- 2) Sol-Gel synthesis, influence of Co^{2+} ions and Magnetic interactions in $Co_{0.7}Cu_{0.3}Cr_{0.3}Fe_{1.7}O_4$ nanoparticles.
S. B. Shelke, R. H. Kadam, Santosh Wadgane, Sunil Satpute, S. T. Alone, S. E. Shirsath, A. B. Kadam
104 Indian Science Congress Association (Tirupati) (2017) 67
- 3) Ce-Doped Lithium Ferrite Nanoparticles: Structural characterization and electrical properties.
S. Sindhu, S. E. Shirsath, **A. B. Kadam**, S. B. Shelke, D. R. Mane
Nat. Conf. on "Light and Applications" 18-19 March 2016.

- 4) Synthesis and Antimicrobial activities of some Novel 2 – Amino – 4- (Substituted) – 6-substituted Phenyl – 4H- Pyran – 3- Carbonitrile Derivatives.
Vinod Tukaram, A. B. Kadam, L. A. Dhale, Ketan Ganure, K. S. Lohar
103 Indian Science Congress Association (Mumbai) (2016) 168
- 5) Study of Cr-Zn Substituted CoNiZn ferrite Nanoparticles via Sol-Gel auto combustion technique.
103 Indian Science Congress Association (Mumbai) (2016) 278

2015-16

a) International Journals:

- 1) Chemical synthesis and characterization of dopant substituted CoNiZn ferrite nanoparticles via sol-gel auto combustion method.
A. B. Kadam, Vinod Tukaram, R. H. Kadam, S. B. Kadam
Bionano Frontier 08 (2015) 01

b) National Journals:

- 2) Studies of Hetrojunction polyaniline/ CDS thin films for LPG Sensor
U. E. Mote, S. B. Kadam, R. H. Kadam, S. S. Shinde, **A. B. Kadam**
Ind. Str. Res. Jour. 05 (2015) 01.
- 3) Studies on Polyaniline Thin films by Chemical Bath Deposition (CBD) Method.
U. E. Mote, S. B. Kadam, R. H. Kadam, **A. B. Kadam**
Golden Research Thoughts 4 (2015) 1
- 4) Impact of Aluminium and Zinc Substitution on the Structural and Magnetic Properties of Sol-Gel Auto combustion Derived Nanosized Co-Ni-Zn mixed Ferrites.
Vinod Tukaram, D. R. Mane, R. H. Kadam, **A. B. Kadam**
Golden Research Thoughts 4 (2015) 01

c) Conference Proceedings (Abstracts):

- 5) Synthesis and Characterization polyaniline thin films
U. E. Mote, S. B. Kadam, R. H. Kadam, D. R. Mane, **A. B. Kadam**
ICFMNCC -2015

2014-15

a) International Journals:

- 1) Comparison study of Influence of dopant on structural and magnetic properties of nanostructured Co-Zn spinel ferrite by sol-gel auto combustion method.
Vinod Tukaram, S. S. Shinde, R. H. Kadam, **A. B. Kadam**
JAAS: Materials Science (Special Issue) (2014) 67
- 2) Effect of La³⁺ Impurity on Magnetic and Electrical Properties of Co–Cu–Cr–Fe Nanoparticles,
Vivek Choudhari, R. H. Kadam, M. L. Mane, S. E. Shirsath, **A. B. Kadam**, D. R. Mane
Journal of nanoscience and Nanotechnology 14 (2014) 1- 8. (ISSN: 1533-4880; IF: 1.339)

- 3) Combustion synthesis of Co^{2+} substituted $\text{Li}_{0.5}\text{Cr}_{0.5}\text{Fe}_2\text{O}_4$ nano-powder: Physical and magnetic interactions,
M. V. Choudhari, R. H. Kadam, S. B. Shelke, S. E. Shirsath, **A. B. Kadam**, D. R. Mane
Powder Technology 259 (2014) 14-21; (ISSN: 1533-4880; Impact Factor: 2.349)
- 4) Use of UV light based technologies for the decomposition of air in the operation theaters of hospitals in omurga city, M.S. (India)
A. B. Kadam, S. V. More, S. B. Mali
J. Micro. World 16 (1-2) (2014) 10

b) National Journals:

- 5) Fabrication and performance of polyaniline Thin films by SILAR at room temperature
U. E. Mote, R. H. Kadam, **A. B. Kadam**
IJARBAS 01 (2014) 132-133. (ISSN: 2394-4072; Impact Factor: Nil)
- 6) The management of Hazardous waste
D. N. Gatlewar, **A. B. Kadam**, G. T. Rathod, A. M. Pachpinde
Thematics Publication (2014) 47
- 7) Analysis of Biocontamination of Achler Water Tank Dt. Osmanabad,
G. T. Rathod, D. N. Gatlewar, **A. B. Kadam**, R. H. Kadam
Thematics Publication (2014) 200-202; (ISBN: 978-93-83192-47-2)
- 8) Analysis of Physico-Chemical parameter water of well sample jalkot wadi (Nal) osmanabad District (MS) India
A. B. Kadam, D. N. Gatlewar, G. T. Rathod, S. V. More
Thematics Publication (2014) 169; (ISBN: 978-93-83192-47-2)
- 9) Effect of electron beam irradiation on electrodeposited nanostructured copper selenide thin films.
S. S. Dhasade, **A. B. Kadam**
IEEE (2014) 463.

c) Conference Proceedings (Full Lengths):

- 10) Synthesis and characterization cadmium sulphide (CdS) thin films
U. E. Mote, S. B. Kadam, **A. B. Kadam**
Science Park (NCRAET-2015) 178.

2013-14

a) International Journals:

- 1) Site occupancies of Co-Mg-Cr-Fe ions and their impact on the properties of $\text{Co}_{0.5}\text{Mg}_{0.5}\text{Cr}_x\text{Fe}_{2-x}\text{O}_4$
M. V. Chaudhari, S. E. Shirsath, **A. B. Kadam**, R. H. Kadam, S. B. Shelke, D. R. Mane
Journal of Alloys and Compunds 552 (2013) 443
- 2) Studies of electrochemically synthesized polypyrrole (Ppy) Thin Films for supercapacitor application

J. V. Thombare, G. M. Lohar, S. K. Shinde, U. M. Chougale, V. J. Fulari, **A. B. Kadam**, S. S. Dhasade, M. C. Rath, S. H. Han
IEEE (2013) 1064

3) Synthesis of Polyaniline nanofibres by SILAR method for supercapacitor application

U. M. Chougale, J. V. Thombare, **A. B. Kadam**, V. J. Fulari

IEEE (2013) 1078

4) Chemical oxidative polymerization and characterization of polypyrrole thin films for supercapacitor application.

V. J. Fulari, J. V. Thombare, **A. B. Kadam**

IEEE (2013) 1068.

2012-13

a) International Journals:

1) Influence of Cr³⁺ substitution on the electrical and magnetic properties of Ni_{0.4}Cu_{0.4}Zn_{0.2}Fe₂O₄ nanoparticles,

R. H. Kadam, Asif Karim, **A. B. Kadam**, A. S. Gaikwad, S. E. Shirsath

International Nano Letters 2 (2012) 28; (ISSN:2228-5326; Impact Factor: 0.752)

2011-12

a) International Journals:

1) Sol-Gel Synthesis of Cr³⁺ substituted Li_{0.5}Fe_{2.5}O₄: Cation distribution, structural and magnetic properties,

D. R. Mane, Swati Patil, D. D. Birajdar, **A. B. Kadam**, S. E. Shirsath, R. H. Kadam

Materials Chemistry and Physics 126 (2011) 755; (ISSN:0254-0584; Impact Factor: 2.259)

b) National Journals:

2) Measurement of atomic number and mass attenuation coefficient in copper ferrite,

R. H. Kadam, **A. B. Kadam**, S. B. Shelke, S. E. Shirsath, D. R. Mane, K. M. Jadhav

Int. J. Basic and Applied Research 01 (2011) 8-11. (ISSN: 2249-3352)

c) Conference Proceedings (Abstracts):

3) Effect of La³⁺ ion substitution on the magnetic interaction and grain growth of BaFe₂O₄ nanoparticles

A. B. Kadam, S. E. Shirsath, S. B. Shelke, D. R. Mane, R. H. Kadam

ICPM-MDF-2012

4) Structural and Magnetic properties of Co²⁺ substituted Cu-Cr Ferrite Nanoparticles

S. B. Shelke, S. E. Shirsath, **A. B. Kadam**, S. S. More, S. T. Alone, R. H. Kadam

ICPM-MDF-2012

5) Effect of Si substitution on physical and electrical properties of Co-Zn ferrite

S. S. Shinde, R. H. Kadam, **A. B. Kadam**, K. M. Jadhav

ICPM-MDF-2012

2010-11

a) International Journals:

- 1) Gamma ray mass attenuation coefficient and atomic number measurement in zinc ferrite, R. H. Kadam, **A. B. Kadam**, D. R. Mane, S. S. Shinde, K. M. Jadhav
BioNano Forntier (Special issue) (2010) 16-19 (ISSN: 2320-9593; Impact Factor: 1.156)
- 2) Improvement of ammonia sensing properties of poly (pyrrole)-poly (n-methylpyrrole) composite by ion irradiation.
S. B. Kadam, K. Datta, P. Ghosh, **A. B. Kadam**, P. W. Khirade, V. Kumar, R. G. Sonkawade, A. B. Gambhire, M. K. Lande, M. D. Shirsath
Applied Physics A 100 (2010) 1083-1088
- 3) Cation distribution in nanocrystalline Al^{3+} and Cr^{3+} co-substituted CoFe_2O_4 ,
S. S. More, R. H. Kadam, **A. B. Kadam**, A. R. Shitre, D. R. Mane
Journal of Alloys and Compounds 502 (2010) 477 (ISSN: 0925-8388; Impact Factor: 3.001)
- 4) XRD examination of sol-gel synthesized $\text{Li}_{0.5}\text{Fe}_{2.5-x}\text{Mn}_x\text{O}_4$,
Swati Patil, D. R. Mane, R. H. Kadam, **A. B. Kadam**, S. S. More
BioNano Forntier (Special issue) (2010) 103-105 (ISSN: 2320-9593; Impact Factor: 1.156)
- 5) Structural properties and magnetic interactions in Al^{3+} and Cr^{3+} co-substituted CoFe_2O_4 ferrite,
S. S. More, R. H. Kadam, **A. B. Kadam**, D. R. Mane, G. K. Bichile
Central European Journal of Chemistry 8 (2010) 419 (ISSN:1895-1066; Impact Factor: 1.329)
- 6) Magnetic properties of polycrystalline mixed zinc-titanium substituted magnesium ferrites,
A. B. Kadam, S. S. Shinde R. H. Kadam, D. R. Mane, K. M. Jadhav
BioNano Forntier (Special issue) (2010) 32-34 (ISSN: 2320-9593; Impact Factor: 1.156)

2009-10

a) Conference Proceedings (Full Lengths):

- 1) Study of cation distribution in nonmagnetic trivalent Al^{3+} substituted copper ferrite,
S. B. Shelke, R. H. Kadam, **A. B. Kadam**, D. R. Mane, K. M. Jadhav
Proceeding of DAE Solid State Physics Symposium (2007) 1083-84

b) Conference Proceedings (Abstracts):

- 1) Measurement of atomic number and mass attenuation coefficient in magnesium ferrite.
R. H. Kadam, S. B. Shelke, **A. B. Kadam**, D. R. Mane, K. M. Jadhav
ICMOM-2009 - 68
- 2) Effect of nonmagnetic trivalent Al^{3+} substitution on the structural and magnetic properties of copper ferrite.
S. B. Shelke, R. H. Kadam, **A. B. Kadam**, D. R. Mane, K. M. Jadhav
ICMOM-2009 – 71