

# Curriculum Vitae

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**NAME** **DR. AMIT ARJUN BAGADE**  
9960500356, 9860727875  
AT/ POST: PADEGAON,  
TAL: PHALTAN,  
DIST: SATARA.  
PIN CODE: 415521.



PERSONAL DETAILS :	
DATE OF BIRTH	18 <sup>TH</sup> AUGUST, 1987
GENDER	MALE
MARITAL STATUS	MARRIED
NATIONALITY	INDIAN
RELIGION / CASTE	HINDU - CHAMBHAR (SC)
PERMANENT ADDRESS	AT/ POST: PADEGAON, TAL: PHALTAN, DIST: SATARA. PIN CODE: 415521.
LANGUAGE KNOWN	1) ENGLISH 2) HINDI 3) MARATHI
HOBBIES	TRAVELLING, SPORTS.
BLOOD GROUP	B+
EMAIL ID	<a href="mailto:amitb2698@gmail.com">amitb2698@gmail.com</a>

## EDUCATIONAL DETAILS

EXAMINATION	UNIVERSITY/ BOARD	YEAR	MARKS (%)	GRADE
Ph.D	SHIVAJI UNIVERSITY, KOLHAPUR	2017	AWARDED	AWARDED
M.Sc.	SHIVAJI UNIVERSITY, KOLHAPUR	2012	60.16	FIRST CLASS
B.Sc.	SHIVAJI UNIVERSITY, KOLHAPUR	2010	54.48	SECOND CLASS
H.S.C.	PUNE BOARD	2007	52.00	SECOND CLASS
S.S.C.	PUNE BOARD	2003	61.60	FIRST CLASS

**OTHER QUALIFICATION** : 1) MAHARASHTRA STATE CERTIFICATE IN INFORMATION TECHNOLOGY (MSCIT)  
2) COMPLETED AGRICULTURE DIPLOMA 2 YEARS

### AWARD

**SENIOR RESEARCH FELLOW** CSIR MAJOR RESEARCH PROJECT

### MEMBER

- BOS MEMBER OF ANNASAHEB DANGE COLLEGE OF ENGINEERING ASHTA
- INDIAN ASSOCIATION OF PHYSICS TEACHER (IAPT)
- LIFE MEMBERSHIP OF ISTE NEW DELHI

### BEST TEACHER AWARD

SHARAD INSTITUTE OF TECHNOLOGY COLLEGE OF ENGINEERING YADRAV ICHALKARANJI, 2020

RESEARCH PUBLICATIONS	COUNT
PAPERS PUBLISHED IN INTERNATIONAL JOURNALS	22
NATIONAL/INTERNATIONAL CONFERENCES	29
CITATIONS:	522
H-INDEX:	14
i10-INDEX:	16

## RESEARCH EXPERIENCE: 05 YEAR

- ✓ Ph.D. Thesis Title: "SYNTHESIS AND CHARACTERIZATION OF SPRAYED COBALT FERRITE THIN FILMS FOR GAS SENSOR APPLICATION", 2012-2017.
- ✓ Senior Research Fellow, Successfully completed the major research project entitled "Development of magnetoelectric multiferroic composite ceramics for electric power generation by cost effective chemical methods", by sanction No. 03(1284)/13/EMR-II dated 09 April 2013 , 2013-2016

## REFEREE OF INTERNATIONAL JOURNALS

- Journal of Alloys and Compounds
- Physica B: Condensed matter
- Materials Science and Engineering-B
- Journal of Physical Chemistry-C
- Materials Research Bulletin
- Indian journal of Pure and Applied Physics
- Applied Surface Science

## RESPONSIBILITIES

- ✚ WORKED AS A **HEAD DEPARTMENT** OF BASIC SCIENCES AND HUMANITIES (3 YEARS)
- ✚ WORKING AS AN **AUTONOMOUS BOS CHAIRMAN** AND COORDINATOR
- ✚ WORKED AS **NBA CRITERIA 8** HEAD
- ✚ WORKING AS A **ADMISSION COMMITTEE MEMBER** AND **FACILITATION CENTRE (FC) HEAD**
- ✚ INSTITUTE **STAFF WELFARE CENTRAL HEAD**
- ✚ **WORKING AS A ACADEMIC** COUNCIL MEMBER
- ✚ SWAYAM AND **NPTEL** COMMITTEE MEMBER
- ✚ DEPARTMENT **EXAMINATION** COMMITTEE MEMBER
- ✚ **RESEARCH AND DEVELOPMENT** COMMITTEE MEMBER

✚ EARN AND LEARN COMMITTEE CENTRAL HEAD

✚ NSS AND SPORTS COMMITTEE MEMBER

### TEACHING EXPERIENCE: 08 YEAR

- ✓ ASSISTANT PROFESSOR, **MAHAVIR MAHAVIDYALAYA** KOLHAPUR- 2 YEAR
- ✓ CONTRIBUTORY TEACHER, **DEPTT. OF PHYSICS, SHIVAJI UNIVERSITY KOLHAPUR**-1 YEAR
- ✓ ASSISTANT PROFESSOR, **SHARAD INSTITUTE OF TECHNOLOGY, COLLEGE OF ENGINEERING**, YADRAV- 26-02-2018 TO TILL DATE

### RESEARCH GUIDE

**PROF. (DR.) K. Y. RAJPURE**

FORMER HEAD, DEPARTMENT OF PHYSICS  
SHIVAJI UNIVERSITY, KOLHAPUR  
VIDYANAGAR-416 004

### LIST OF PUBLICATIONS

1.	Synergistic effects of Pd decoration and substrates on the NO <sub>2</sub> sensing performance of sprayed WO <sub>3</sub> thin films Vinayak Ganbavle, Shahin Shaikh, Santosh Mohite, Sumayya Inamdar, <b>Amit Bagade</b> , Atish Patil, Keshav Rajpure Chemical Physics Letters, 814 (2023) 140327
2.	The Structural, Electric and Dielectric Properties of Ni <sub>0.7</sub> Cd <sub>0.3</sub> Nd <sub>x</sub> Fe <sub>2-x</sub> O <sub>4</sub> (0 ≤ x ≤ 0.03) Ferrite Prepared via Oxalate Co-Precipitation Route SS Jadhav, <b>AA Bagade</b> , TJ Shinde, KY Rajpure Iranian Journal of Materials Science and Engineering 19 (2022) 1-10

3.	<p>To Study of Structural, Magnetic and Dielectric Properties of Cd<sup>2+</sup> Substituted Nickel Ferrite Oxide (Ni<sub>1-x</sub>Cd<sub>x</sub>Fe<sub>2</sub>O<sub>4</sub>) Synthesis by Auto-Combustion Route.</p> <p>K.R. Kharat, S.L. Jadhav, <b>A.A. Bagade</b>, J.L. Bhosale, T.S. Magdum</p> <p>Journal of Emerging Technologies and Innovative Research 7 (2020) 2419-2429</p>
4.	<p>Photoelectrocatalytic activity of spray deposited Fe<sub>2</sub>O<sub>3</sub>/ZnO photoelectrode for degradation of salicylic acid and methyl orange dye under solar radiation</p> <p>RD Suryavanshi, SV Mohite, <b>AA Bagade</b>, KY Rajpure</p> <p>Materials Science and Engineering: B 248 (2019) 114386</p>
5.	<p>Mimicking the biological synapse functions of analog memory, synaptic weights, and forgetting with ZnO-based memristive devices</p> <p>TD Dongale, NB Mullani, VB Patil, RS Tikke, PS Pawar, SV Mohite, AM Teli, <b>AA Bagade</b>, KK Pawar, KV Khot, SS Shinde, VL Patil, SA Vanalkar, AV Moholkar, PN Bhosale, PS Patil, RK Kamat,</p> <p>Journal of Nanoscience and Nanotechnology 18 (11), (2018) 7758-7766</p>
6.	<p>Nanocrystalline Bi<sub>2</sub>Te<sub>3</sub> thin films synthesized by electrodeposition method for photoelectrochemical application</p> <p>JB Thorat, SV Mohite, <b>AA Bagade</b>, TJ Shinde, VJ Fulari, KY Rajpure, NS Shinde</p> <p>Materials Science in Semiconductor Processing 79, (2018) 119-126</p>
7.	<p>Photoelectrocatalytic activity of immobilized Fe<sub>2</sub>O<sub>3</sub> photoelectrode for degradation of salicylic acid and methyl orange dye under visible light illumination</p>

	RD Suryavanshi, SV Mohite, <b>AA Bagade</b> , KY Rajpure Ionics 24 (6), (2018) 1841-1853
8.	Nanocrystalline immobilised ZnO photocatalyst for degradation of benzoic acid and methyl blue dye RD Suryavanshi, SV Mohite, <b>AA Bagade</b> , SK Shaikh, JB Thorat, KY Rajpure Materials Research Bulletin 101, (2018) 324-333
9.	Bipolar resistive switching with coexistence of mem-elements in the spray deposited CoFe <sub>2</sub> O <sub>4</sub> thin film TD Dongale, <b>AA Bagade</b> , SV Mohite, AD Rananavare, MK Orłowski, RK Kamat, KY Rajpure, Journal of Materials Science: Materials in Electronics 29 (4), (2018) 3231-3238
10.	Mimicking the synaptic weights and human forgetting curve using hydrothermally grown nanostructured CuO memristor device TD Dongale, PS Pawar, RS Tikke, NB Mullani, VB Patil, AM Teli, KV Khot, SV Mohite, <b>AA Bagade</b> , VS Kumbhar, KY Rajpure, PN Bhosale, RK Kamat, PS Patil Journal of nanoscience and nanotechnology 18 (2), (2018) 984-991
11.	Bio-mimicking the synaptic weights, analog memory, and forgetting effect using spray deposited WO <sub>3</sub> memristor device TD Dongale, SV Mohite, <b>AA Bagade</b> , RK Kamat, KY Rajpure Microelectronic Engineering 183, (2017) 12-18
12.	Effect of Ag doping on hydrothermally grown ZnO thin-film electronic synapse device Navaj B Mullani, Vijay B Patil, Rahul S Tikke, Pravin S Pawar, Santosh V Mohite, <b>Amit A Bagade</b> , Tukaram D Dongale Bioinspired, Biomimetic and Nanobiomaterials 7 (2), (2017) 82-89
13.	Assessment of structural, morphological, magnetic and gas sensing

	<p>properties of <math>\text{CoFe}_2\text{O}_4</math> thin films  <b>AA Bagade</b>, VV Ganbavle, SV Mohite, TD Dongale, BB Sinha, KY Rajpure  Journal of colloid and interface science 497, (2017) 181-192</p>
14.	<p>Mimicking the synaptic weights and human forgetting curve using hydrothermally grown nanostructured CuO memristor device  TD Dongale, PS Pawar, RS Tikke, NB Mullani, VB Patil, AM Teli, KV Khot, SV Mohite, <b>AA Bagade</b>, VS Kumbhar, KY Rajpure, PN Bhosale, RK Kamat, PS Patil  J. Nanosci. Nanotechnol 17, (2017) 1-8</p>
15.	<p>Development of <math>\text{CoFe}_2\text{O}_4</math> thin films for nitrogen dioxide sensing at moderate operating temperature  <b>AA Bagade</b>, KY Rajpure  Journal of Alloys and Compounds 657, (2016) 414-421</p>
16.	<p>Development of <math>\text{Ag}/\text{WO}_3/\text{ITO}</math> thin film memristor using spray pyrolysis method  TD Dongale, SV Mohite, <b>AA Bagade</b>, PK Gaikwad, PS Patil, RK Kamat, KY Rajpure  Electronic Materials Letters 11 (6), (2015) 944-948</p>
17.	<p>Studies on structural and electrical properties of <math>\text{Li}_{0.5-0.5x}\text{Co}_x\text{Fe}_{2.5-0.5x}\text{O}_4</math> (<math>0 \leq x \leq 0.6</math>) spinel ferrite  VS Sawant, <b>AA Bagade</b>, KY Rajpure  Physica B: Condensed Matter 474, (2015) 47-52</p>
18.	<p>Studies on <math>\text{NO}_2</math> gas sensing properties of sprayed <math>\text{Co}_{1-x}\text{Mn}_x\text{Fe}_2\text{O}_4</math> (<math>0 \leq x \leq 0.5</math>) spinel ferrite thin films  <b>AA Bagade</b>, KY Rajpure  Ceramics International 41 (6), (2015) 7394-7401</p>

19.	IR absorption spectroscopic study of mixed cobalt substituted lithium ferrites VS Sawant, <b>AA Bagade</b> , SV Mohite, KY Rajpure Physica B: Condensed Matter 451, (2014) 39-42
20.	Physicochemical properties of spray-deposited $\text{CoFe}_2\text{O}_4$ thin films <b>AA Bagade</b> , VV Ganbavle, KY Rajpure Journal of materials engineering and performance 23 (8), (2014) 2787-2794
21.	Development of Ag/ $\text{CoFe}_2\text{O}_4$ /FTO thin film memristive device using spray pyrolysis method Ojus S Bagal, Snehal S Bhosale, <b>Amit A Bagade</b> , Keshav Y Rajpure, Rajanish K Kamat, Tukaram D Dongale International Conference on Nanotechnology: Ideas, Innovations & Initiatives-2017 (ICN:3i-2017), Centre of Nanotechnology, IIT Roorkee, Roorkee, India
22.	Synergistic Effects of Pd Decoration and Substrates on the $\text{NO}_2$ Sensing Performance of Sprayed $\text{WO}_3$ Thin Films V Ganbavle, S Shaikh, S Mohite, S Inamdar, <b>A Bagade</b> , A Patil, K Rajpure Chemical Physics Letters, 814 (2023) 140327

### NATIONAL AND INTERNATIONAL CONFERENCE, WORKSHOP ATTENDED

- 1) 2<sup>nd</sup> International conference on Physics of material and material based device fabrication (ICPMMDF-2014),13-15 Jan 2014 Shivaji University, Kolhapur
- 2) International Conference on Advanced and Applied Material Science (ICAAMS-2014) held at Gopal Krishna Gokhale College, Kolhapur-416012, (MS) India during 15th -16th, January 2014.
- 3) International Conference on Materials Science and Ionizing Radiation Safety & Awareness, January 28-30, 2016, Shivaji University, Kolhapur



- 4) National Conference on recent trends in nanotechnology, (NCRTNT-2012) 14-15 Dec 2012 Vivekananda College, Kolhapur
- 5) 2<sup>nd</sup> National seminar on physics of material and material based device fabrication (NSPMMDF-2013), 3-4 Jan 2013 Shivaji University, Kolhapur
- 6) 3<sup>rd</sup> National seminar on physics of material and material based device fabrication (NSPM-MDF-2014), 19-20 Dec 2014 Shivaji University, Kolhapur.
- 7) 5<sup>th</sup> International Conference on Nano science and Nanotechnology (ICONN 2019) SRM IST, Kattankulathur, 28<sup>th</sup> to 30<sup>th</sup> January 2019
- 8) One day workshop on prime minister's fellowship scheme for doctoral research, held on 25<sup>th</sup> November 2016 organized by DST-SERB & CII New Delhi and D.Y. Patil Education society Deemed University Kolhapur
- 9) One day workshop on "Frontiers in Interdisciplinary Research" held on 18<sup>th</sup> January 2018, organized by Department of Physics, Rajaram College Kolhapur.
- 10) One day workshop on "Recent developments in Physics" held on 19<sup>th</sup> January 2017, organized by Department of Physics, Rajarshi Chatrapati Shahu College Kolhapur.
- 11) National seminar on 'Understanding Revised Assessment and Accreditation Methodology of NAAC' held on 13<sup>th</sup> December 2017, organized by Mahavir Mahavidyalaya Kolhapur.
- 12) 5 days FTTP on MATLAB based Teaching-Learning in Mathematics, Science & Engineering Department of Electronics Engineering, Ramrao Adik Institute of Technology, Nerul, Navi Mumbai in collaboration with DesignTech Systems Pvt. Ltd., Mumbai during 18th to 22nd May 2020
- 13) One week National Level Online Faculty Development Program on Information Communication Technology (ICT)" conducted by Bharat College of Engineering, Badlapur (W)

- 14) Online Teaching-Learning Processes using ICT Tools for Education 4.0 organized by Department of Information Technology, SVPCET Nagpur, in association with Computer Society of India from 8th to 13th June, 2020
- 15) Online webinar on " Electrical Design of Transmission System" organized by Dept. of Electrical Engineering, Annasaheb dange college of Engineering & Technology, Ashta on May 25, 2020
- 16) Ten days online faculty development program- knockdown the Lockdown, Organised by KLE Society's Basavaprabhu Kore college of Computer Applications, Chikodi on 8-17 June 2020
- 17) Quiz on COVID-19 organized by, IQAC under Board of Student Development Institute of Science, Poona's INSTITUTE OF BUSINESS MANAGEMENT AND RESEARCH
- 18) One day International Multi Disciplinary E-conference on Reflection of Human Values Through Humanities, Commerce, Science and technology, organised by ACS college, Palus
- 19) online faculty orientation programme on "Recent Advances in Modeling and Optimization Techniques" organized by Department of Mechanical Engineering SITCOE approved by ISTE ,New Delhi from 1st June to 5 th June 2020
- 20) Participated in the "COVID-19 Online Awareness Program and Quiz" organized by IQAC of Sharadchandra Pawar Mahavidyalaya, Lonand, Tal. Khandala, Dist. Satara (MS) 415521
- 21) Webinar for Faculty Development program on "Outcome based Education" organized by vmedulife software service on 4th June 2020
- 22) One day online webinar on "Similarity Measure in Fuzzy Numbers and its Applications" organized by Dr. n.G.P. Institute of Technology Caimbatore-641048

- 23) Participated in the “Online COVID-19 Pandemic General Awareness Quiz” organized by I.Q.A.C., Department of Zoology, Computer Science and Computer Application of Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji.
- 24) One week International Faculty Development Program in online mode on “Digital Learning with Multidisciplinary Approaches (DLMA)” held from 12 - 17 June, 2020, conducted at JSS Academy of Technical Education, Noida organized by the Department of Computer applications.
- 25) National webinar on advances in synthesis techniques and characterization of materials organized by department of physics, Tuljaram Chaturchand College of Art Commerce and Science, Baramati
- 26) Two days national level online faculty Development programme on "Blockchain Technology" held on 30-31 may 2020 organized by Dept. of Computer Applications, MITS- Madanapalle
- 27) Four days online International Faculty development Programme on "Empowering Faculty to develop and share Global competency" organised by Dept. of English UG (SF) and Jointly organised by WEC, Pollachi, Tamilnadu
- 28) National webinar on “Promoting Research through Emerging Profiling Tools and Web Technology” Devchand College, Arjunnagar, 16th September 2020.
- 29) One Day International E-Conference on “Advanced functional Nanomaterials and Their Device Applications” organized by Shetkari Shikshan Prasarak Mandal’s Krishna Mahavidyalaya, Rethare Bk Shivnagar, 10th August, 2020.

I hereby declared that the above written particulars are true to the best of my knowledge and belief.

Place :

**Yours Faithfully**

**Dr. Amit A. Bagade**