

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	18TH 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	amitb2698@gmail.com

EDUCATIONAL DETAILS

EXAMINATION	UNIVERSITY/ BOARD	YEAR	MARKS (%)	GRADE
Ph.D	SHIVAJI UNIVERSITY, KOLHAPUR	2017	---	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) SUCCESSFULLY COMPLETED AGRICULTURE DIPLOMA**

AWARD	
SENIOR RESEARCH FELLOW	CSIR MAJOR RESEARCH PROJECT
MEMBER	<ul style="list-style-type: none">BOS MEMBER OF ANNASAHEB DANGE COLLEGE OF ENGINEERING ASHTAINDIAN ASSOCIATION OF PHYSICS TEACHER (IAPT)
BEST TEACHER AWARD	SHARAD INSTITUTE OF TECHNOLOGY COLLEGE OF ENGINEERING YADRAV ICHALKARANJI, 2020

RESEARCH PUBLICATIONS	
PAPERS PUBLISHED IN INTERNATIONAL JOURNALS	21
NATIONAL/INTERNATIONAL CONFERENCES	29
CITATIONS:	447
H-INDEX:	13
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 a 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
- Departmental examination committee member
- Research and development committee member
- Earn and Learn committee central head

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

Head, Department of Physics

Shivaji University, Kolhapur

Vidyanagar-416 004

LIST OF PUBLICATIONS

1.	<p>The Structural, Electric and Dielectric Properties of $Ni_{0.7}Cd_{0.3}Nd_xFe_{2-x}O_4$ ($0 \leq x \leq 0.03$) Ferrite Prepared via Oxalate Co-Precipitation Route</p> <p>SS Jadhav, AA Bagade, TJ Shinde, KY Rajpure</p> <p>Iranian Journal of Materials Science and Engineering 19 (2022) 1-10</p>
2.	<p>To Study of Structural, Magnetic and Dielectric Properties of Cd^{2+} Substituted Nickel Ferrite Oxide ($Ni_{1-x}Cd_xFe_2O_4$) Synthesis by Auto-Combustion Route.</p> <p>KRK S.L.Jadhav, A.A. Bagade, J.L. Bhosale, T.S. Magdum</p> <p>Journal of Emerging Technologies and Innovative Research 7 (2020) 2419-2429</p>

3.	<p>Photoelectrocatalytic activity of spray deposited Fe₂O₃/ZnO photoelectrode for degradation of salicylic acid and methyl orange dye under solar radiation</p> <p>RD Suryavanshi, SV Mohite, AA Bagade, KY Rajpure</p> <p>Materials Science and Engineering: B 248 (2019) 114386</p>
4.	<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, AA Bagade, 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>
5.	<p>Nanocrystalline Bi₂Te₃ thin films synthesized by electrodeposition method for photoelectrochemical application</p> <p>JB Thorat, SV Mohite, AA Bagade, TJ Shinde, VJ Fulari, KY Rajpure, NS Shinde</p> <p>Materials Science in Semiconductor Processing 79, (2018) 119-126</p>
6.	<p>Photoelectrocatalytic activity of immobilized Fe₂O₃ photoelectrode for degradation of salicylic acid and methyl orange dye under visible light illumination</p> <p>RD Suryavanshi, SV Mohite, AA Bagade, KY Rajpure</p> <p>Ionics 24 (6), (2018) 1841-1853</p>
7.	<p>Nanocrystalline immobilised ZnO photocatalyst for degradation of benzoic acid and methyl blue dye</p> <p>RD Suryavanshi, SV Mohite, AA Bagade, SK Shaikh, JB Thorat, KY Rajpure</p> <p>Materials Research Bulletin 101, (2018) 324-333</p>
8.	<p>Bipolar resistive switching with coexistence of mem-elements in the spray deposited CoFe₂O₄ thin film</p> <p>TD Dongale, AA Bagade, SV Mohite, AD Rananavare, MK Orłowski, RK</p>

	<p>Kamat, KY Rajpure, Journal of Materials Science: Materials in Electronics 29 (4), (2018) 3231-3238</p>
9.	<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, AA Bagade, VS Kumbhar, KY Rajpure, PN Bhosale, RK Kamat, PS Patil Journal of nanoscience and nanotechnology 18 (2), (2018) 984-991</p>
10.	<p>Bio-mimicking the synaptic weights, analog memory, and forgetting effect using spray deposited WO₃ memristor device TD Dongale, SV Mohite, AA Bagade, RK Kamat, KY Rajpure Microelectronic Engineering 183, (2017) 12-18</p>
11.	<p>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, Amit A Bagade, Tukaram D Dongale Bioinspired, Biomimetic and Nanobiomaterials 7 (2), (2017) 82-89</p>
12.	<p>Assessment of structural, morphological, magnetic and gas sensing properties of CoFe₂O₄ thin films AA Bagade, VV Ganbavle, SV Mohite, TD Dongale, BB Sinha, KY Rajpure Journal of colloid and interface science 497, (2017) 181-192</p>
13.	<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, AA Bagade, VS Kumbhar, KY Rajpure, PN Bhosale, RK Kamat, PS Patil J. Nanosci. Nanotechnol 17, (2017) 1-8</p>
14.	<p>Development of CoFe₂O₄ thin films for nitrogen dioxide sensing at moderate</p>

	<p>operating temperature AA Bagade, KY Rajpure Journal of Alloys and Compounds 657, (2016) 414-421</p>
15.	<p>Development of Ag/WO₃/ITO thin film memristor using spray pyrolysis method TD Dongale, SV Mohite, AA Bagade, PK Gaikwad, PS Patil, RK Kamat, KY Rajpure Electronic Materials Letters 11 (6), (2015) 944-948</p>
16.	<p>Studies on structural and electrical properties of Li_{0.5-0.5x}Co_xFe_{2.5-0.5x}O₄ (0 ≤ x ≤ 0.6) spinel ferrite VS Sawant, AA Bagade, KY Rajpure Physica B: Condensed Matter 474, (2015) 47-52</p>
17.	<p>Studies on NO₂ gas sensing properties of sprayed Co_{1-x}Mn_xFe₂O₄ (0 ≤ x ≤ 0.5) spinel ferrite thin films AA Bagade, KY Rajpure Ceramics International 41 (6), (2015) 7394-7401</p>
18.	<p>IR absorption spectroscopic study of mixed cobalt substituted lithium ferrites VS Sawant, AA Bagade, SV Mohite, KY Rajpure Physica B: Condensed Matter 451, (2014) 39-42</p>
19.	<p>Physicochemical properties of spray-deposited CoFe₂O₄ thin films AA Bagade, VV Ganbavle, KY Rajpure Journal of materials engineering and performance 23 (8), (2014) 2787-2794</p>

20.	<p>Development of Ag/CoFe₂O₄/FTO thin film memristive device using spray pyrolysis method Ojus S Bagal, Snehal S Bhosale, Amit A Bagade, 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</p>
21.	<p>Synergistic Effects of Pd Decoration and Substrates on the NO₂ Sensing Performance of Sprayed WO₃ Thin Films V Ganbavle, S Shaikh, S Mohite, S Inamdar, A Bagade, A Patil, K Rajpure Chemical Physics Letters, 814 (2023) 140327</p>

National and International Conference, Workshop attended

- 1) 2nd 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, (NCRNT-2012) 14-15 Dec 2012 Vivekananda College, Kolhapur
- 5) 2nd National seminar on physics of material and material based device fabrication (NSPMMDF-2013), 3-4 Jan 2013 Shivaji University, Kolhapur
- 6) 3rd National seminar on physics of material and material based device fabrication (NSPM-MDF-2014), 19-20 Dec 2014 Shivaji University, Kolhapur.
- 7) 5th International Conference on Nano science and Nanotechnology (ICONN 2019) SRM IST, Kattankulathur, 28th to 30th January 2019

- 8) One day workshop on prime minister's fellowship scheme for doctoral research, held on 25th 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 18th January 2018, organized by Department of Physics, Rajaram College Kolhapur.
- 10) One day workshop on "Recent developments in Physics" held on 19th 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 13th 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 developement 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