



CURRICULUM VITAE

Personal Information

Name : Mr. Shinde Abhijeet Vijaykumar
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Designation : Assistant Professor,
Department of Physics, Padmabhushian Dr.
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416312
Date of appointment : 14 March 2024
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Date of Birth : 3rd August 1994
Nationality : Indian
Sex : Male
Marital status : Unmarried
Languages Known s : English, Hindi, Marathi

Educational Qualifications

- 1] Qualified SET exam in physics held on 28th Jan 2018
- 2] Qualified GATE exam in physics held on Feb 2018

Educational Qualifications

Course	Year of Passing	Board / University	Subject Offered	% of Marks	Class/ Grade
M. Sc.	2017	Shivaji	Physics	71	Distinction
B. Sc.	2015	Shivaji	Physics	96.40	Distinction
H. S. C.	2012	Kolhapur	Physics, Chemistry, Mathematics, Biology	90.33	Distinction
S. S. C.	2010	Kolhapur	All	94	Distinction

English Language Proficiency

- 1] Scored **6.5** band in **IELTS** exam
- 2] Successfully completed Master (2 years) and Bachelor (3 years) with English medium

Publications

- 1] Highly Energetic Flexible All-Solid-State Asymmetric Supercapacitor With Fe₂O₃ and CuO Thin Films
Abhijeet V. Shinde, Nilesh R. Chodankar, Vaibhav C. Lokhande, Abhishek C. Lokhande, Taeksoo Ji, Jin H. Kim, Chandrakant D. Lokhande
RSC Adv., 2016, 6, 58839

- 2] Structural and electrochemical analysis of chemically synthesized microcubic architected lead selenide thin films
TS Bhat, AV Shinde, RS Devan, AM Teli, YR Ma, JH Kim, PS Patil
Applied Physics A 124, 1-7
- 3] Surface modified zinc ferrite as a carbon-alternative negative electrode for high-energy hybrid supercapacitor
AV Shinde, SJ Patil, SK Hwang, GSR Raju, YS Huh, YK Han, ...
Ceramics International 47 (11), 16333-16341
- 4] Nanoarchitectonics of hierarchical PbS material for all-solid-state asymmetric supercapacitor
TS Bhat, AV Shinde, AA Alat, PS Patil
Journal of Materials Science: Materials in Electronics 33 (13), 10368-10378

Research Experience

- 1] Successfully completed, research project entitled “**Chemically synthesized Fe₂O₃ thin film for Supercapacitor Application**” at B.Sc. 2nd year (2013-14).
Supervisor – Prof. C. D. Lokhande
- 2] Successfully completed, research project entitled “**High Energy Density Asymmetric Solid-State Supercapacitor Based on Fe₂O₃ and CuO Thin Films**” at B.Sc. 3rd year (2014-15).
Supervisor – Prof. C. D. Lokhande
- 3] Successfully completed, project entitled “**Electrochemical Impedance Spectroscopy**” at M.Sc. 2nd year (2016-17)
- 4] Successfully completed, ‘**Solar Energy Training Programme**’ organized by Maharashtra Centre for Entrepreneurship Development (MCED) and Gopal Krishna Gokhale College, Kolhapur.

Prizes and Awards

- 1] **Third Prize for Poster Presentation** in National Conference on **'Materials for Future Technology'** sponsored by UGC at Rajaram College, Kolhapur.
- 2] **Third Prize for Poster Presentation** in **'3rd National Seminar on Physics of Materials and Materials Based Device Fabrication'** sponsored by UGC-DRS-I programme, New Delhi (India) at Shivaji University, Kolhapur.
- 3] Award of **Scholarship for Higher Education** under **INSPIRE** scheme by **Department of science and technology (DST)**.
- 4] Shivaji University **'Merit Scholarship'** holder for 2014

Conference And Workshop Attended

- 1] National Conference on **'Materials for Future Technology'** sponsored by UGC at Rajaram College, Kolhapur.
- 2] **'3rd National Seminar on Physics of Materials and Materials Based Device Fabrication'** sponsored by UGC-DRS-I programme, New Delhi (India) at Shivaji University, Kolhapur.
- 3] 1st national conference on **'Materials And Environment Science'** at Shri Yashwantrao Patil Science College, Solankur.
- 4] Workshop on **'Recent Trends in Research Application'** at Rajaram College, Kolhapur.
- 5] Participated in **'PARK Science Camp'** conducted by Department of

interdisciplinary Science & Technology, Pune.

- 6] Participated in 'AVISHKAR 2015-2016' a research level competition at Shivaji University, Kolhapur.
- 7] Participated in the seminar on 'ELECTRONIC WASTE MANAGEMENT' at Vivekanand College, Kolhapur.

Research Interest

In recent years, nano-structured thin films attending much more attraction due to its various applications in electronic devices. There are various methods for thin film deposition. Out of which, I have been consistently working with chemical deposition methods such as Chemical Bath Deposition (CBD), Hydrothermal method, SILAR method, Electro-deposition method, etc. These thin films are further tested for their supercapacitive applications. Preparing nano-structured thin film and checking their electrochemical performance by three electrode system is one of the best way to check supercapacitive properties of of prepared thin films. I had deposited many materials in the form of nano-structured thin film such as MnO_2 , Mn_3O_4 , CuO , Fe_2O_3 , $ZnFe_2O_4$, $CoFe_2O_4$, PbS , etc.

Moreover, I am recently working with all solid state supercapacitor asymmetric supercapacitor device based on polymer gel electrolyte. I had successfully fabricated $CuO//Fe_2O_3$ asymmetric supercapacitive device which can glow 57 LEDs by charging it for 2 min. Following figure shows overall highlights of my research.



