

## PROFORMA FOR BIO-DATA



1. Name and full correspondence address: **Dr. Gaurav Mahadev Lohar**  
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3. Institution: **Department of Physics, Lal Bahdur Shashtri college, Satara (M.S.) India**
4. Date of Birth: **24/01/1988**
5. Gender (M/F/T): **Male**
6. Category Gen/SC/ST/OBC: **OBC**
7. Whether differently abled (Yes/No): **No**
8. Academic Qualification (Undergraduate Onwards)

Sr. No.	Degree	Year	Subject	University/Institution
1.	B.Sc.	2009	Physics	Shivaji University, Kolhapur
2.	M.Sc.	2011	Physics	Shivaji University, Kolhapur
3.	Ph.D.	2015	Physics	Shivaji University, Kolhapur

9. Ph.D thesis title, Guide Name, Institute/Organization/University, Year of Award:

Ph.D thesis title	Photoelectrochemical cell performance of electron beam irradiated iron doped zinc selenide thin films
Guide Name	Prof. (Dr.) Vijay J. Fulari
University	Department of Physics, Shivaji University, Kolhapur
Year of Award	2015

10. Work experience (in chronological order).

Sr. No.	Position held	Name of the Institute	From	To	Pay scale
1.	Assistant Professor	Lal bahadur Shashtri college, Satara	15/06/2016		15500/-+6000/-

11. Professional Recognition/Award/ Prize/ Certificate, Fellowship received by the applicant.

Sr. No.	Name of Award	Awarding Agency	Year
1.	UGC Meritorious Fellow	UGC	2012
2.	National Graduate Physics Examination	Indian Association of Physics Teachers (IAPT)	2009

12. Publications (List of papers published in SCI Journals, in year wise descending order).

Sr.No.	Author	Title	Name of Journal	Volume	Page	Year
1.	<b>G. M. Lohar</b> , M. C. Rath, V. J. Fulari,	Effect of 10 MeV energy of electron irradiation on Fe <sup>2+</sup> doped ZnSe nanorods and their modified properties	Ionics,	22	1451 – 1460	2016
2.	<b>B. P. Relekar, G. M. Lohar, P. S. Indapure, S. T. Punde, S. T. Jadhav, H. D. Dhygude, V. J. Fulari,</b>	Galvanostatically Deposited MnO <sub>2</sub> Thin Film and Their Electrochemical Properties	Materials Focus	5	577-579	2016
3.	<b>G.M. Lohar</b> , R.K. Kamble, S.T. Punde, S.T. Jadhav, A.S. Patil, H.D. Dhaygude, B.P. Relekar, V.J. Fulari	Electrochemical Synthesis of Ni Doped ZnSe Thin Film for Photoelectrochemical Cell Application	Materials Focus	5	481-484	2016
4.	H.D. Dhaygude, S.K. Shinde, M.V. Takale, <b>G.M. Lohar</b> , M.C. Rath, V.J. Fulari	Effect of electron irradiation on structural, morphological and photoluminescence properties of ZnS thin films	Ceramics International	42	1015-1016 4	2016
5.	S. A Mahadik, F. D. Pedraza, B. P. Relekar, V. G. Parale, <b>G. M.</b>	Synthesis and characterization of superhydrophobic-superoleophilic surface,	Journal of Sol-Gel Science and Technology	78	475-481	2016

	<b>Lohar, S. S.</b> Thorat					
6.	H.D. Dhaygude, S.K. Shinde, M.V. Takale, D.P. Dubal, <b>G.M.</b> <b>Lohar, V.J.</b> Fulari	Electrodeposited nanosphere like Cd <sub>x</sub> Zn <sub>1-x</sub> S electrodes for photoelectrochemical cell,	Journal of Materials Science: Materials in Electronics	27	5145- 5152	2016
7.	B.P. Relekar, <b>G.M. Lohar</b> , R.K. Kamble, A.B. Bansode, H.D. Dhygude, V.J. Fulari	Potentiostatically Deposited MnO <sub>2</sub> Thin Film for Supercapacitor Application	Materials Focus	5	258- 260	2016
8.	H. D. Dhaygude, S. K. Shinde, N. B. Velhal, <b>G. M.</b> <b>Lohar</b> , V. J. Fulari,	Synthesis and characterization of ZnO thin film by low cost modified SILAR technique	Aims Press	3	349- 356	2016
9.	A.S. Patil, M.D. Patil, <b>G.M.</b> <b>Lohar</b> , S.T. Jadhav, V.J. Fulari,	Supercapacitive properties of CuO thin films using modified SILAR method,	Ionics			2016
10.	A.S. Patil, <b>G.M.</b> <b>Lohar</b> , V. J. Fulari	Structural, porphological, optical and photoelectrochemical cell properties of copper oxide using modified SILAR method	J Mater Sci: Mater Electron	27	9550	2016
11.	<b>G. M. Lohar</b> , S. T Jadhav, M. V. Takale, R. A. Patil, Y. R. Ma, M. C. Rath, V. J. Fulari	Photoelectrochemical cell studies of Fe <sup>2+</sup> doped ZnSe nanorods using the potentiostatic mode of electrodeposition	Journal of colloid and interface science	458	136- 146	2015
12.	<b>G. M. Lohar</b> , S. T Jadhav, H. D. Dhaygude, M. V. Takale, R. A.	Studies of properties of Fe <sup>3+</sup> doped ZnSe nanoparticles and hollow spheres for	Journal of alloys and compound	653	22-31	2015

	Patil, Y. R. Ma, M. C. Rath, V. J. Fulari	photoelectrochemical cell application				
13.	<b>G. M. Lohar</b> , V. J. Fulari	Temperature dependant Photoluminescence of galvanostatically electrosynthesized ZnSe thin films	International Journal of Engineering Research	3	171- 175	2015
14.	<b>G. M. Lohar</b> , H. D. Dhaygude, R. A. Patil, Y. R Ma, V. J. Fulari	Studies of properties of Fe <sup>2+</sup> doped ZnSe nano- needles for photoelectrochemical cell Application	Journal of Materials Science: Materials in Electronics	26	8904- 8914	2015
15.	J.V. Thombare, <b>G. M. Lohar</b> , S. K. Shinde, S. S. Dhasade, M. C. Rath, V.J. Fulari	Synthesis, Characterization and Surface Wettability Study of Polypyrrole Films: Effect of Applied Constant Current Density	Electron. Mater. Lett.	2	273- 277	2015
16.	S. K. Shinde, D. P. Dubal, G. S. Ghodake, H. D. Dhaygude, <b>G. M. Lohar</b> , B. P. Relekar, V. J. Fulari	Temperature Dependence of Cationic and Anionic Precursor on Morphological Improvement of CuO Electrodes and Its Consequent Effect on Electrochemical Supercapacitive Properties	Advanced Science Letters	21	2653- 2656	2015
17.	S. S. Mali, S. K. Shinde, J. R. Mane, A. A. Mane, S. A. Swami, H. D. Dhaygude, <b>G. M. Lohar</b> , B. P. Relekar, V. J. Fulari	Surfactant-Assisted Morphological Modification of Hierarchical CuO Thin Films for Electrochemical Supercapacitors	Advanced Science Letters	21	2594- 2597	2015
18.	H. D Dhaygude,	Electrochemical	Advanced	21	2641-	2015

	B. P Relekar, S. K Shinde, <b>G. M. Lohar</b> , U. M. Chougale, V. J. Fulari	Synthesis of Nanorods-Like CdS Electrode for Solar Cell Application	Science Letters		2644	
19.	S. R Nikam, S. K Shinde, D. P Dubal, G. S Ghodake, H. D Dhaygude, B. P Relekar, <b>G. M. Lohar</b> , V. J. Fulari	Effect of Mn:(CuO/Cu(OH) 2) Electrodes for Supercapacitors Application	Advanced Science Letters	21	2590-2593	2015
20.	B. P. Relekar, <b>G. M. Lohar</b> , V. J. Fulari	Electrochemical impedance spectroscopic study of electrodeposited polyaniline thin films	International Journal of Scientific & Engineering Research	12	87-92	2015
21.	<b>G. M. Lohar</b> , J. V. Thombare, S. K. Shinde, B. P. Relekar, H. D. Dhaygude, V. J. Fulari	Hydrophilic semconducting micro-chip like Cu doped ZnS thin films grown at room temperature	Material science: An Indian journal	12	57-62	2015
22.	<b>G. M. Lohar</b> , S. K. Shinde, M. C. Rath, V. J. Fulari	Structural, optical, photoluminescence, electrochemical, and photoelectrochemical properties of Fe doped ZnSe hexagonal nanorods,	Materials Science in Semiconduct or Processing	26	548-554	2014
23.	<b>G. M. Lohar</b> , J. V. Thombare, S. K. Shinde, S. H. Han, V. J. Fulari	Structural, photoluminescence and photoelectrochemical properties of electrosynthesized ZnSe spheres	J Mater Sci: Mater Electron	25	1597-1604	2014
24.	S.K. Shinde, G.S. Ghodake, D.P. Dubal, <b>G.M.</b>	Structural, optical, and photo-electrochemical properties of marygold-	Ceramics International	40	1151-1152	2014

	<b>Lohar, D.S.</b> Lee, V.J. Fulari	like CdSe <sub>0.6</sub> Te <sub>0.4</sub> synthesized by electrochemical route			4	
25.	S. K. Shinde, D. P. Dubal, G. S. Ghodake, D. S. Lee, <b>G. M. Lohar</b> , M. C. Rath, V.J. Fulari	Baking impact of Fe composition on CdSe films for solar cell application	Materials Letters,	132	243-246	2014
26.	<b>G. M. Lohar</b> , J. V. Thombare, S. K. Shinde, B. P. Relekar, M. C. Rath, V. J. Fulari	Optical properties of galvanostatically synthesized hydrophilic Fe doped ZnSe thin film	Asian Journal of Physics	23	909-913	2014
27.	<b>G. M. Lohar</b> , J. V. Thombare, S. K. Shinde, V. J. Fulari	Structural, morphological, optical and photoluminescent properties of spray-deposited ZnSe thin film	Journal of Semiconductors	35	1130-01	2014
28.	<b>G. M. Lohar</b> , J. V. Thombare, S. K. Shinde, U. M. Chougale, V. J. Fulari	Preparation and characterization iron doped zinc selenide thin film by electrodeposition	Journal of Shivaji University (Science & Technology)	41	1-2	2014-15
29.	J. V. Thombare, S. K. Shinde, <b>G. M. Lohar</b> , U. M. Chougale, S. S. Dhasade, H. D. Dhaygude, B. P. Relekar, V. J. Fulari	Optical properties of electrochemically synthesized polypyrrole thin films: the electrolyte effect,	Journal of Semiconductors	35	0630-01	2014
30.	J.V.Thombare, V. T. Kambale, V. K. Bansode, <b>G. M. Lohar</b> , S. H. Han, V. J. Fulari	Chemical Synthesis of Polypyrrole Thin Films using Ferric nitrate as an Oxidant	Journal of Shivaji University (Science & Technology)	41	1-2	2014-15
31.	V. J. Fulari, U. M. Chougale, A. S. Powar, S. V.	Synthesis and Characterization of Copper doped Cadmium	Journal of Shivaji University	41	1-2	2014-15

	Tikone, S. K. Shinde, <b>G. M.</b> <b>Lohar, J. V.</b> Thombare	Sulphide Thin Films by Electrodeposition Method	(Science & Technology)			
32.	<b>G.M. Lohar, J.V.</b> Thombare, S.K. Shinde, V.J. Fulari, S.S More	Photoelectrochemical cell performance of electrodeposited iron doped zinc selenide thin film	Energy Efficient Technologies for Sustainability (ICEETS)	-	411-413	2013
33.	S.K. Shinde, J.V. Thombare, <b>G.M.</b> <b>Lohar, D.J.</b> Barad, S.S. Shinde, V.J. Fulari	Galvanostatically deposited Cd <sub>0.7</sub> Fe <sub>0.3</sub> Se electrode for solar cell application	Energy Efficient Technologies for Sustainability (ICEETS)	-	420 - 423	2013
34.	J.V. Thombare, <b>G.M. Lohar, S.K.</b> Shinde, U.M. Chougale, V.J. Fulari, A.B. Kadam, S.S. Dhasade, M.C. Rath, S.H. Han	Studies on electrochemically synthesized polypyrrole (Ppy) thin films for supercapacitor application	Energy Efficient Technologies for Sustainability	-	1064 -1067	2013

### 13. Detail of patents.

Sr. No.	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/ Country	Status
1.	Effect of high energy electron irradiation on gold substitute electrochemically reduced graphene oxide: modified photoluminescence properties	Dr. Gaurav Mahadev Lohar Dr. Swati Tanaji Jadhav Dr. Vijay Janardan Fulari			Indian	Submitted

### 14. Books/Reports/Chapters/General articles etc

Sr. No.	Title	Authors Name	Publisher	Year of
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				Publication
1.	Nil			

15. Any other Information (maximum 500 words)

**Life member:** Laser & Spectroscopy Society of India

**Organizing Secretary:** National conference on Recent Trends in Physical, Chemical and Nanoscience (NCRT-PCNano-2017)

**Participation in National/International conference:** 12

**Papers Under Preparation**

1. G. M. Lohar, S. T. Jadhav, S. A. Patil, M. C. Rath, V. J. Fulari, High energy electron irradiation electrochemically reduced graphene oxide
2. G. M. Lohar, S. T. Jadhav, S. A. Patil, V. J. Fulari, Electrochemical properties of Fe<sup>2+</sup> substituted electrochemically reduced graphene oxide
3. G. M. Lohar, S. T. Jadhav, S. A. Patil, V. J. Fulari, Optical properties of MnO<sub>2</sub>/rGO composite