

CURRICULUM-VITAE



Dr. MANE RAHUL MARUTI
M.Sc., Ph.D. [Chemistry]

DST - Young Scientist,
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Objective: - I am self-motivated person who has to grow in life with hard working nature and things as per schedule to achieve goals.

Research Interest:-

Material Science, Nanomaterials, Synthesis and characterization of mixed metal chalcogenide thin films for solar cell application.

Research Award:

- : 1] Departmental Research Fellowship (DRF).
- : 2] Junior Research Fellowship [JRF-UGC-SAP].
- : 3] Best Paper Award –SNMIA- National Conference 2008.
- : 4] Best Paper Award –ASMNM- National Conference 2011.
- : 5] Young Scientist Fellow by DST 2012 (Government of India).
- : 6] Best Paper Award –CTCNS- National Conference 2014.
- : 7] Most download article Science Direct Top 25 certificate.
- : 8] Best Paper Award –FCMS- National Conference 2015.

Educational Qualifications:-

Sr. No	Examination Passed	Year of Passing	Name of School / College	Name of Board / University	Class & % of Marks	Main Subject (s)
1.	B.Sc.	2003	Vivekanand College, Kolhapur	Shivaji University, Kolhapur (MS)	First Class	Chemistry
2.	M.Sc.	2006	Department of Chemistry	Shivaji University, Kolhapur (MS)	First Class	Inorganic Chemistry
3.	Ph.D.	2010	Department of Chemistry	Shivaji University, Kolhapur (MS)	-	Chemistry (Thin films)



Dr. Mane Rahul

Shivaji
University, Kolhapur, Maharashtra, India
Material Science, Solar cell

Google Scholar

Citation indices	All	Since 2010
Citations	140	140
h-index	6	6
i10-index	4	4

List of Publications

A) Papers published/accepted/submitted to the cited journals

- 1] Synthesis and characterization of new quaternary MoBiInSe_5 mixed metal chalcogenide thin films.
R. M. Mane, S. R. Mane, R. R. Kharade and P. N. Bhosale,
Journal of Alloys and Compounds 491 (2010) 321–324. **Impact Factor: 2.55**
- 2] Influence of Indium doping on the optostructural and morphological properties of chemically deposited MoBi_2Se_5 mixed metal chalcogenide thin films.
R. M. Mane, R. R. Kharade, S. R. Mane, P. S. Patil^a and P. N. Bhosale
Digest Journal of Nanomaterials and Biostructures, Vol. 6, No 1, January-March 2011,
p. 55-65. **Impact Factor: 2.75**
- 3] Optical and Electrical Studies on MoBi_2Se_5 Thin Films Prepared by Arrested Precipitation Technique (APT).
R. M. Mane, N. S. Patil, S. R. Mane, R. R. Kharade and P. N. Bhosale,
Journal of Applied Archives Science. (U.S.A) (2010), 2(2):275-283. **Impact Factor:**
- 4] Influence of Tl^+ doping on optostructural and electrical properties of chemically grown tungsten hetero-polyoxometallate thin films.
S. R. Mane, **R. M. Mane**, R. R. Kharade, S. N. Gawale, S. M. Patil, P. N. Bhosale
Digest Journal of Nanomaterials and Biostructures Volume 6, Number 1, January-March 2011. **Impact Factor: 2.75**

- 5] Synthesis and characterization of chemically deposited $\text{Ti}_3(\text{PW}_{12}\text{O}_{40})$ semiconducting thin films.
S. R. Mane, **R. M. Mane**, N. S. Patil, A. M. Sargar, S. N. Gawale, R. R. Kharade and P. N. Bhosale,
Journal of Archives of Applied Science Research, 2010, 2 (2):294-303. **Impact Factor:**
- 6] Electrosynthesis and characterisation of WSe_2 thin films.
S. N. Gawale, **R. M. Mane**, A. M. Sargar, S. R. Mane, R. R. Kharade and P. N. Bhosale,
Journal of Archives of Physics Research. (2010), 1(3):72-80. **Impact Factor:**
- 7] Optical and Electrical Transport Properties of Transition Metal Dichalcogenide MoSe_2 Thin Films.
S. N. Gawale, **R. M. Mane**, S. R. Mane, R.R. Kharade, S.M. Patil and P. N. Bhosale*
Journal of Applied Archives Science. (U.S.A) (2010), 2(1):218-224. **Impact Factor:**
- 8] Synthesis and characterization of chemically grown electrochromic tungsten oxide.
R. R. Kharade, **R. M. Mane**, S. R. Mane, P. S. Patil and P. N. Bhosale,
Journal of Sol-Gel Science and Technology. (2010), 56: 177–183. **Impact Factor: 1.74**
- 9] Fabrication and morphological characterization of MoBi_2Se_5 mixed metal chalcogenide thin films for solar cell application.
R. M. Mane, R.R. Kharade, P.S.Patil and P. N. Bhosale ,
Journal of Solar Energy Materials & Solar Cell. (Submitted). **Impact Factor: 4.57**
- 10] Photoelectrochemical cell (PEC) performances of indium doped MoBi_2Se_5 mixed metal chalcogenide thin films.
R. M. Mane, P. S. Patil and P. N. Bhosale,
Journal of Materials Letters. (Submitted). **Impact Factor: 2.23**
- 11] Optostructural and electrical properties of bismuth tellurium selenide $[\text{Bi}_2(\text{Te}_{1-x}\text{Se}_x)_3]$ mixed metal chalcogenide thin films.
S. M. Patil, **R. M. Mane**, S. R. Mane, S. S. Mali, P. S. Patil, P. N. Bhosale*
Journal of Electrochemical Science, 6 (2011), **Impact Factor: 2.85**

- 12] Synthesis, XPS and thermoelectric study of ternary $\text{Bi}_2(\text{Te}_{0.5}\text{Se}_{0.5})_3$ mixed metal chalcogenide thin films by APT technique"
S. M. Patil, **R. M. Mane**, S. R. Mane, S. S. Mali, P. S. Patil, P. N. Bhosale*
Canadian Journal of Chemistry, 89: 1375–1381 (2011). **Impact Factor: 1.45**
- 13] Synthesis and electrochromic application of surfactants tailored WO_3 nanostructures
Optical Materials.
R. R. Kharade, **R. M. Mane**, and P. N. Bhosale*
Journal of Optical Materials 34: 322-326 (2011). **Impact Factor- 1.82**
- 14] NOVEL SYNTHETIC ROUTE FOR QUATERNARY MoBiGaSe_5 MIXED METAL CHALCOGENIDE (MMC) THIN FILMS.
S. P. Patil¹, **R. M. Mane**², R. R. Kharade², S. S. Mali³ and P. N. Bhosale^{2*}
Digest Journal of Nanomaterials and Biostructures, 7,1,2012, P237-245.
Impact Factor: 2.75.
- 15] PHOTOELECTROCHEMICAL CELL PERFORMANCE OF CHEMICALLY DEPOSITED MoBi_2Te_5 THIN FILMS.
M. M. Salunkhe, **R. M. Mane**, S. S. Mali, P. S. Patil and P. N. Bhosale
Journal of Advanced Materials Letters. 3(2012)71-76. **Impact Factor: 1.75.**
- 16] Synthesis and characterization of nanocrystalline MoBi_2Te_5 thin films.
M. M. Salunkhe, **R. M. Mane**, S. S. Mali, P. S. Patil and P. N. Bhosale
Journal of Philosophical Magazine Letters. 92, 10, 2012, 563–571 **Impact Factor: 1.75.**
- 17] Effect of Annealing Temperature on Structural Properties of Nanocrystalline Tl3 (PW12O40) Thin Films.
S. R. Mane, **R. M. Mane**, S. N. Gawale & P. N. Bhosale,
Journal of Advanced Materials Letters. 4(2012)72-77. **Impact Factor: 1.95**
- 18] Effect of Surfactant on Optical and Structural Properties of Chemically Deposited MoBi_2S_5 Thin Films.

Nita B. Pawar^a, Sawanta S. Mali^b, Manauti M. Salunkhe^a, **Rahul M. Mane**^a, Pramod S. Patil^b and Popatrao N. Bhosale^{a*} New Journal of Chemistry (2012), 36,1807-1812

Impact factor: 2.63

19] ChemInform Abstract: Synthesis and X-Ray Photoelectron Spectroscopy (XPS) and Thermoelectric Studies of Ternary Bi₂(Te_{0.5}Se_{0.5})₃ Mixed-Metal Chalcogenide Thin Films by the Arrested Precipitation Technique.

S. M. Patil, S. R. Mane, **R. M. Mane**, S. S. Mali, P. S. Patil and P. N. Bhosale
Chem Inform 43, 13, 27, 2012,

20] Opto-structural and electrical properties of chemically grown Ga doped MoBi₂Se₅ thin Films.

S. V. Patil, **R. M. Mane**, N. B. Pawar, S. D. Kharade, S. S. Mali, P. S. Patil,
G. L. Agawane, J. H. Kim** and P. N. Bhosale*

Journal of Material Science and Material Electronics. (2013) 24:4669–4676

Impact factor: 1.63

21] Synthesis and Characterization of Nanostructured CdZnSSe Thin Films by Arrested Precipitation Technique (APT).

S.K. Jagadale, **R. M. Mane**, R. K. Mane and P. N. Bhosale

Journal of IEEE, (2013) 506- 508.

Impact factor: 2.53

22] Nanocrystalline MoBi₂Se₅ Ternary Mixed Metal Chalcogenide Thin-Films for Solar Cell Applications,

R. M. Mane¹, V. B. Ghanwat¹, V. V. Kondalkar¹, K. V. Khot¹, S. R. Mane¹, P. S. Patil²
and P.N. Bhosale,^{*1}

Journal of Procedia Materials Science, 6, 2014, 1285-1291

23] Molybdenum Heteropolyoxometalate Thin Films for Solar Cell Applications,

S. R. Mane^a, B. J. Walekar^a, **R. M. Mane**^b, V. V. Kondalkar^b, V. B. Ghanwat^b and P. N. Bhosale^b,
Journal of Procedia Materials Science, 6, 2014,1104-1109

24] Influence of Indium (III) content of MoBi_(2-x)In_xS₅ thin films for photoelectrochemical solar cell.

N. B. Pawar, S. D. Kharade **R. M. Mane**, S. S. Mali, C. K. Hong, P. S. Patil and P. N. Bhosale *
Journal of *Solid State Sciences* 35 (2014) 10–17 **Impact factor: 1.6**

25] Nanobrick-like WO₃ Thin Films: Hydrothermal Synthesis and Electrochromic Application

V.V. Kondalkar, R. R. Kharade, S.S. Mali, **R.M. Mane**, P.B. Patil, P.S. Patil, S. Choudhury and **P. N. Bhosale**
Journal of Superlattices and Microstructures. 73, 2014, 290–295 **Impact factor: 1.9**

26] Novel Synthesis of Interconnected Nanocubic PbS Thin Films by Facile Aqueous Chemical Route

K. V. Khot, S. S. Mali, N. B. Pawar, **R. M. Mane**, V. V. Kondalkar, V. B. Ghanwat, P. S. Patil, C. K. Hong, J. H. Kim, J. Y. Heo and **P. N. Bhosale**.
Journal of Material Science: Material Electronics. 25 (2014) 3762 **Impact factor: 1.3**

27] Thermoelectric properties of nanocrystalline CuSbSe₂ thin films at room temperature prepared using Microwave radiations

V. B. Ghanwat, S. S. Mali, S. D. Kharade, N. B. Pawar, S. V. Patil, **R. M. Mane**, P. S. Patil, C.K. Hong, and P. N. Bhosale
New Journal of Chemistry, 2015, 2015, **39**, 5661-5668 **Impact factor: 2.9**

28] Microwave-assisted rapid synthesis of highly porous TiO₂ thin films with nanocrystalline framework for efficient photoelectrochemical conversion.

V.V. Kondalkar, S.S. Mali, N.B. Pawar, **R.M. Mane**, S. Choudhury, C.K. Hong, P.S. Patil, S.R. Patil, P.N. Bhosale, J.H. Kim,
Journal of Electrochimica Acta, 143, 10, 2014, 89-97. **Impact factor: 3.9**

29] Photoelectrocatalysis of Cefotaxime using nanostructured TiO₂ photoanode: Identification

of degradation products and Determination of toxicity level

Vijay V Kondalkar, Sawanta S Mali, **R M Mane**, P B Dandge, Sipra Choudhury, Chang Kook Hong, PS Patil, Shivajirao Raghunath Patil, Jin Hyeok Kim, and Popatrao N. Bhosale
ACS Industrial & Engineering Chemistry Research, 2014, 53, 18152–18162.

Impact factor: 2.9

- 30] Photoelectrochemical performance of MoBiInSe₅ mixed metal chalcogenide thin films
R. M. Mane, S. S. Mali, V. B. Ghanwat, V. V. Kondalkar, K. V. Khot, S. R. Mane, D. B. Shinde, P. S. Patil and P. N. Bhosale
Journal of Materials Today: Proceedings, DOI,10.1016/j.matpr.2015.07.069 Elsevier, 2014-15 (Accepted)
- 31] Synthesis of Bismuth Telluride Thin Film for Thermoelectric Application via Electrodeposition Technique
Pallavi Patil, Kishorkumar Khot, Vijay Kondalkar, Vishvanath Ghanwat , **Rahul Mane** and Popatrao Bhosale a*
Journal of Macromol symposium, Wiley. (Accepted)
- 32] Novel-approach for invention of nubbly-like Cd(SSe) thin film: Photoelectrochemical application
Kishorkumar V. Khot, Sawanta S. Mali, Pallavi B. Patil, Rohini R. Kharade, **Rahul M. Mane**, Chang Kook Hong, Popatrao N. Bhosale*1
Journal of Macromol symposium, Wiley. (Accepted)
- 33] Effect of Tl⁺ Intercalation on Electrochromic behavior of Tungsten Hetero-polyoxometallate Polymeric Thin Films
S. R. Mane, **R. M. Mane** and P. N. Bhosale
Journal of Macromol symposium, Wiley. (Accepted)
- 34] Enhanced Electrochromic Performance of Nickel Oxide Thin Film: Synthesis via Electrodeposition Technique
Vijay V.Kondalkar, Pallavi B.Patil, Kishorkumar V.Khot Rohini R.Kharade, **Rahul M.Mane**, Pramod S.Patil, Sipra Choudhury,Popatrao N.Bhosale
Journal of Macromol symposium, Wiley. (Accepted)

- 35] Langmuir–Blodgett self organized nanocrystalline tungsten oxide thin films for electrochromic performance
Vijay V.Kondalkar, Pallavi B.Patil, Kishorkumar V.Khot Rohini R.Kharade, **Rahul M.Mane**, Pramod S.Patil, Sipra Choudhury,Popatrao N.Bhosale
RSC Advances , 2015,5, 26923-26931 **Impact factor: 3.9**
- 36] Simplistic Construction of Cadmium Sulfoselenide Thin Films via Hybrid Chemical Process for Enhanced Photoelectrochemical Performance
Kishorkumar V. Khot , Sawanta S. Mali , Nita B. Pawar , Rohini R. Kharade , **Rahul M. Mane** , Pallavi B. Patil , Pramod S. Patil , Chang Kook Hong , Jin Hyeok Kim , Jaeyeong Heo , and Popatrao N. Bhosale*
RSC Advances 2015, 5, 40283-40296 **Impact factor: 3.9**
- 37] Arrested Precipitation Technique for Synthesis of Chalcogenide & Oxide Thin Films
P. N. Bhosale, **R. M. Mane**, V. B. Ghanwat, V. V. Kondalkar, S. R. Mane and K. V. Khot, Journal of Advanced Chemical Engineering, 2015, 5:2
- 38] Hydrothermal Assisted Synthesis of Hierarchical Nanostructured Metal Oxide Thin Film
Bhosale PN*, Kondalkar VV, **Mane RM**, Choudhury Sipra and Khot KV
Journal of Nanomedicine & Nanotechnology, 2015, 6:4 **Impact factor: 4.2**
- 39] A facile and low cost strategy to synthesize Cd_{1-x}Zn_xSe thin films for photoelectrochemical performance: effect of zinc content
Chaitali S. Bagade, Sawanta S. Mali, Vishvanath B. Ghanwat, Kishorkumar V. Khot, Pallavi B. Patil, Suvarta D. Kharade, **Rahul M. Mane**, Neha D. Desai, Chang K. Hong, Pramod S. Patil and Popatrao N. Bhosale*
RSC Adv., 2015, 5, 55658
Impact factor: 3.8
- 40] Bismuth Telluride quantum dot assisted Titanium Oxide microflowers for efficient photoelectrochemical performance
Pallavi B. Patil, Sawanta S. Mali, Vijay V. Kondalkar, **Rahul M. Mane**, Pramod S. Patil, Chang K. Hong, Popatrao N. Bhosale
Journal of Materials Letters 159 (2015) 177–181 **Impact factor: 2.8**
- 41] Synthesis and characterization of novel MoBiGaSe₅ thin films by vacuum deposition

technique

S. P. Patil, S. S. Mali, **R. M. Mane**, R. R. Kharade, V. B. Ghanwat, V. V. Kondalkar and P. N. Bhosale Advanced Nano Materials for Industrial Applications (2012) 51-56.

42] Synthesis and Characterization of MoBi₂S₅ Thin Films by Simple Colloidal Route.

N. B. Pawar, S. M. Patil, M. M. Salunkhe, S. D. Kharade, **R. M. Mane**, V. B. Ghanwat and P. N. Bhosale*.

Advanced Materials Manufacturing and Characterization 1 (2012) 223.

43] Effect of Annealing Temperature on Structural Properties of Nanocrystalline Ti₃ (PW12O₄₀) Thin Films

S. R. Mane, **R. M. Mane**, P. S. Patil and P. N. Bhosale*.

Advanced Materials Letters VBRI Press, 4(1), (2013), 94-98. **Impact factor 1.93**

**B) Paper published in proceedings National/ International conference/
Workshop/Symposium**

- 1] Influence of Indium doping on the optical and electrical properties of chemically deposited MoBi₂Se₅ mixed metal chalcogenide thin films.
R. M. Mane, N. S. Patil, S. R. Mane, S. P. Patil, S. M. Patil, R. R. Kharade and P. N. Bhosale, UGC-SAP National Seminar on Advanced synthetic methodologies and functional materials Dec. 23rd and 24th, 2009, Department of Chemistry, Shivaji University Kolhapur.
- 2] Electchromic Behaviour of Tungsten Oxide thin films.
R. R. Kharade, S. R. Mane, **R. M. Mane**, S.N.Gawale,H.M.Yadav and P. N. Bhosale, UGC-SAP National Seminar on Advanced synthetic methodologies and functional materials Dec. 23rd and 24th, 2009, Department of Chemistry, Shivaji University Kolhapur.
- 3] Synthesis and characterization of chemically deposited of MoBiInSe₅ mixed metal chalcogenide thin films for PEC solar cell application.
R. M. Mane, R. R. Kharade, S. R. Mane, S.N.Gawale, and P. N. Bhosale,

- National Conference on Commercialization of Renewable Energy Technology (CRET-2009) 21st-23rd Oct.2009.D.Y.Patil University Kolhapur.
- 4] Electrochromic Properties of chemically deposited tungsten oxide thin films.
R. R. Kharade, **R. M. Mane**, S.B.Patil, and P. N. Bhosale,
National Conference on Commercialization of Renewable Energy Technology (CRET-2009) 21st-23rd Oct.2009.D.Y.Patil University, Kolhapur.
- 5] Electrosynthesis and characterisation of ZrSe₂ thin films.
A. M. Sargar, N. S. Patil, S. R. Mane, S. N. Gawale, **R. M. Mane** and P. N. Bhosale,
International Conference on Biomedical Engineering and Nanotechnology (ICBENT-2008) 21-23 Oct.2008. D. Y. Patil University, Kolhapur.
- 6] Synthesis and characterization of chemically deposited of MoBiInSe₅ mixed metal chalcogenide thin films.
R. M. Mane, A. M. Sargar, N. S. Patil, S. R. Mane, S. N. Gawale, and P. N. Bhosale,
International Conference on Biomedical Engineering and Nanotechnology (ICBENT-2008) 21-23 Oct.2008. D. Y. Patil University, Kolhapur.
- 7] Preparation and characterization of chemically deposited of BiSbTe₃ mixed metal chalcogenide thin films.
S. M.Patil, R. R. Kharade , S. R. Mane, S. N. Gawale, **R. M. Mane** and P. N. Bhosale,
International workshop on Nanotechnology and Advanced Functional Materials.July9-11,2009 National Chemical Laboratory,Pune.
- 8] Photoelectrochemical cells performance of chemically deposited new ternary MoBi₂Se₅ mixed metal nano chalcogenide thin films.
R. M. Mane, S. M.Patil, R. R. Kharade , S. R. Mane, S. N. Gawale, N. S. Patil and P. N. Bhosale, International workshop on Nanotechnology and Advanced Functional Materials.July9-11,2009 National Chemical Laboratory,Pune.
- 9] Electrosynthesis and characterisation of In doped ZrSe₂ thin films.

- A. M. Sargar, N. S. Patil, S. R. Mane, B.D.Ajalkar, S. N. Gawale, **R. M. Mane** and P. N. Bhosale, International conference on nano materials and applications (ICNAMA-2008), Decmber 09-11,2008, Department of Chemistry, Shivaji University, Kolhapur.
- 10] Preparation and characterization of chemically deposited new ternary MoBi_2Se_5 mixed chalcoginide thin films.
R. M. Mane, A. M. Sargar, N. S. Patil, S. R. Mane, S. N. Gawale and P. N. Bhosale, International conference on nano materials and applications (ICNAMA-2008), Decmber 09-11,2008, Department of Chemistry, Shivaji University, Kolhapur.
- 11] Influence of Bi^{3+} on photoconductive properties of chemically deposited Sb_2Se_3 thin films.
N. S. Patil, **R. M. Mane**, A. M. Sargar, S. R. Mane, B.D.Ajalkar, and P. N. Bhosale, International conference on nano materials and applications (ICNAMA- 2008), Decmber 09-11,2008, Department of Chemistry, Shivaji University, Kolhapur.
- 12] Synthesis and characterization of chemically deposited nanomaterial thin films of copper iron sulphide.
S. N. Gawale, N. S. Patil, **R. M. Mane**, A. M. Sargar, S. R. Mane, and P. N. Bhosale, International conference on nano materials and applications (ICNAMA-2008), Decmber 09-11,2008, Department of Chemistry, Shivaji University, Kolhapur.
- 13] Electrosynthesis and characterisation of ZrSe_2 thin films.
A. M. Sargar, N. S. Patil, S. R. Mane, S. N. Gawale, **R. M. Mane** and P. N. Bhosale, International conference on advanced materials and applications (ICAMA-2007), November 15-17, 2007, Department ofPhysics, Shivaji University, Kolhapur.
- 14] Influence of Tl^+ doping on Optostructural and electrical properties of $\text{Tl}_3(\text{PW}_{12}\text{O}_{40})$ thin films.
S. R. Mane, N. S. Patil, A. M. Sargar, **R. M. Mane**, R. R. Kharade, V.R.Patil and P. N. Bhosale, International conference on nano materials and applications (ICNAMA-2008), Decmber 09-11,2008, Department of Chemistry, Shivaji University, Kolhapur.

- 15] Studies on Cu (II) substituted Vanadium Heteropolyoxometallate thin films prepared by simple chemical growth process.
V. R. Patil, N. S. Patil, A. M. Sargar, S. R. Mane, **R. M. Mane**, S. N. Gawale, P.N. Bhosale UGC-SAP National Seminar on synthesis of new materials for industrial applications, February 1st and 2nd, 2008, Department of Chemistry, Shivaji University Kolhapur.
- 16] Structural, morphological and optical studies of chemically deposited zirconium dichalcogenide thin films. (**Best Paper Award 2008**).
A. M. Sargar, S. R. Mane, N. S. Patil, **R. M. Mane**, V. R. Patil, S. N. Gawale, P.N. Bhosale UGC-SAP National Seminar on synthesis of new materials for industrial applications, February 1st and 2nd, 2008 Department of Chemistry, Shivaji University Kolhapur.
- 17] Studies on optostructural properties of $\text{Bi}_{2-x}\text{Sb}_x\text{Se}_3$ thin films prepared by arrested precipitation technique (APT).
N. S. Patil, A. M. Sargar, S. R. Mane, **R. M. Mane**, V. R. Patil, S. N. Gawale, P.N. Bhosale, UGC-SAP National Seminar on synthesis of new materials for industrial applications, February 1st and 2nd, 2008, Department of Chemistry, Shivaji University Kolhapur.
- 18] Morphological, compositional and structural studies of thallium (I) substituted tungsten heteropolyoxometalate thin films.
S. R. Mane, N. S. Patil, A. M. Sargar, **R. M. Mane**, V. R. Patil, P.N. Bhosale, UGC-SAP National Seminar on synthesis of new materials for industrial applications, February 1st and 2nd, 2008, Department of Chemistry, Shivaji University Kolhapur.
- 19] Synthesis and characterisation of ZrS_2 thin films.
A. M. Sargar, N. S. Patil, S. R. Mane, S. N. Gawale, **R. M. Mane**, P. M. Chavan, P.N. Bhosale, International conference on material science research and nanotechnology (ICMSRN2008), 27-29 February 2008, Mother Teresa Women's University, Kodaikanal.

- 20] Properties of chemically deposited Bi_2Se_3 thin films.
N. S. Patil, A. M. Sargar, S. R. Mane, **R. M. Mane**, S. N. Gawale, P.N. Bhosale, International conference on material science research and nanotechnology (ICMSRN2008), 27-29 February 2008, Mother Teresa Women's University, Kodaikanal.
- 21] Structural and electrical studies on thallium (I) substituted molybdenum heteropolyoxometalate semiconducting thin films
S. R. Mane, N. S. Patil, A. M. Sargar, **R. M. Mane**, V. R. Patil, P.N. Bhosale, International conference on material science research and nanotechnology (ICMSRN2008), 27-29 February 2008, Mother Teresa Women's University, Kodaikanal.
- 22] Electrochromic Tungsten Oxide Thin Films: Synthesis and Characterization.
R. R. Kharade, S. R. Mane, **R. M. Mane** and P. N. Bhosale, National Seminar on Advanced Materials-2010(NSAM), March 19-20, 2010, Department of Physics, Shivaji University Kolhapur.
- 23] Effect of Tl doping on Photoelectrochemical performance of chemically deposited tungsten heteropolyoxometalate thin films.
S. R. Mane, R. R. Kharade, **R. M. Mane**, S. N. Gawale and P. N. Bhosale, National Seminar on Advanced Materials-2010(NSAM), March 19-20, 2010, Department of Physics, Shivaji University Kolhapur.
- 24] Optostructural and photoelectrochemical studies on MoBiInSe_5 thin films for solar cell Application.
R. M. Mane, S. R. Mane, R. R. Kharade, S. N. Gawale, N. S. Patil and P. N. Bhosale National Seminar on Advanced Materials-2010(NSAM), March 19-20, 2010, Department of Physics, Shivaji University Kolhapur.
- 25] Photoelectrochemical and compositional studies on WSe_2 thin films.
S. N. Gawale, **R. M. Mane**, S. R. Mane, R. R. Kharade, N. S. Patil and P. N. Bhosale National Seminar on Advanced Materials-2010(NSAM), March 19-20, 2010, Department of Physics, Shivaji University, Kolhapur.

- 26] Optostructural, Compositional and Electrical Properties of BiSbTe₃ thin films.
S.M.Patil,**R. M. Mane**,S. R. Mane, R. R. Kharade, S. N. Gawale,N. S. Patil and P. N. Bhosale ,
Natonal Seminar on Advaced Materials- 2010(NSAM), March 19-0,2010,Department of Physics, Shivaji University, Kolhapur.
- 27] Electrochromic properties of chemically deposited Tl₃(PW₁₂O₄₀) heteropolyoxometalate thin films.
S. R. Mane, **R. M. Mane**,R. R. Kharade, S. N. Gawale and P. N. Bhosale
Ninth interatonal Symposium on Advaced Electrochemical science & technology, (ISAEST-9),2-4, 2010,Hotel Green Park,Chennai.
- 28] Photoelectrochemical (PEC) performance of MoBiInSe₅ mixed metal chalcogenide thin films.
R. M. Mane,S. R. Mane, R. R. Kharade, S. V. Patil and P. N. Bhosale ,
Ninth interatonal Symposium on Advaced Electrochemical science & technology, (ISAEST-9), 2-4, 2010, Hotel Green Park, Chennai.
- 29] Hybrid Electro-Chemo synthesis and characterization of Mo_xW_(1-x)Se₂Thin films.
S.N.Gawale,**R. M. Mane**,S. R. Mane, R. R. Kharade, S. V. Patil and P. N. Bhosale
Ninth interatonal Symposium on Advaced Electrochemical science & technology, (ISAEST-9),2-4, 2010,Hotel Green Park,Chennai.
- 30] Optostructural,Electrical and Photoelectrochemical studies of ternary mixed metal chalcogenide thin films.
S.M.Patil,**R. M. Mane**,S. R. Mane, R. R. Kharade, S. V. Patil and P. N. Bhosale,
Ninth interatonal Symposium on Advaced Electrochemical science & technology, (ISAEST-9),2-4, 2010,Hotel Green Park,Chennai.
- 31] Influence of In (III) concetration on the optrostructural and optoelectronic properties of chemically deposited mixed metal chalcogenide thin films.
R. M. Mane,S.M.Patil, S. R. Mane, R. R. Kharade, S. V. Patil and P. N. Bhosale.
(Oral Presentation)

National Seminar on Advanced in Synthetic Methodologies & New Materials-(ASMNM-2011), 21-22 Jan. 2011, Department of Chemistry, Shivaji University, Kolhapur.

32] A Novel Synthetic Route for deposition of bismuth Tellurium Selenide Thin Films.
S. M. Patil, **R. M. Mane**, S. R. Mane, R. R. Kharade, S. V. Patil and P. N. Bhosale.
National Seminar on Advanced in Synthetic Methodologies & New Materials-(ASMNM-2011),
21-22 Jan. 2011, Department of Chemistry, Shivaji University, Kolhapur.

33] Opto-structural and Morphological Studies on Chemically grown MoBi_2Te_5 thin films.
M. M. Salunkhe, **R. M. Mane**, R. R. Kharade, N. B. Pawar and P. N. Bhosale.
National Seminar on Advanced in Synthetic Methodologies & New Materials-(ASMNM-2011),
21-22 Jan. 2011, Department of Chemistry, Shivaji University, Kolhapur.

34] Photoelectrochemical (PEC) Properties of Tungstenhetero Polyoxometalate
(Ti_3PO_4)(WO_3)₁₂ thin films.(**Best Paper Award ASMNM-2011**).
S. R. Mane, **R. M. Mane**, R. R. Kharade, S. N. Gawale and P. N. Bhosale
National Seminar on Advanced in Synthetic Methodologies & New Materials-(ASMNM-2011),
21-22 Jan. 2011, Department of Chemistry, Shivaji University, Kolhapur.

35] Microstructure and XPS study of Chemically Deposited Ternary $\text{Bi}_2(\text{Te}_{0.5}\text{Se}_{0.5})_3$ Mixed
Metal Chalcogenide Thin Films by APT Technique.
S.M.Patil, S. R. Mane, **R. M. Mane**, S. S. Mali, P. S. Patil, P. N. Bhosale*
National Seminar on Advanced Materials Science (NAMS-2011), Department of Physics,
Shivaji, University, Kolhapur.

36] Chemo-Synthesis of New Quaternary $\text{MoBi}_2(\text{Se}_{0.5}\text{Te}_{0.5})_5$ Nanocrystalline Thin Films.
Manauti Salunkhe, Rohini Kharade, Nita Pawar, Suvarta Kharade, **Rahul Mane** and P. N.
Bhosale, 1st International Conference on Physics of Materials and Materials Based Device
Fabrication (ICPM-MDF-2012), Shivaji University, Kolhapur-416004, India.

37] Chemosynthesis of MoBi_2S_5 Nanocrystalline Thin Film by Simple Colloidal Route.
N. B. Pawar, S. M. Patil, M. M. Salunkhe, S. D. Kharade, **R. M. Mane** and P. N. Bhosale,
1st International Conference on Physics of Materials and Materials Based Device

Fabrication (ICPM-MDF-2012), Shivaji University, Kolhapur-416004, India.

- 38] Room Temperature Synthesis of Nanoporous Copper Doped MoBi_2Se_5 Mixed Metal Chalcogenide Thin Films by Arrested Precipitation Technique.
S. D. Kharade, N. B. Pawar, R. R. Kharade, M. M. Salunkhe, **R. M. Mane** and P. N. Bhosale, 1st International Conference on Physics of Materials and Materials Based Device Fabrication (ICPM-MDF-2012), Shivaji University, Kolhapur-416004, India.
- 39] Growth Mechanism and Characterization of MoBiCuSe_4 Thin Films Deposited by APT at Room Temperature
S. D. Kharade, N. B. Pawar, **R. M. Mane**, V. V. Kondalkar and P. N. Bhosale*
National Seminar on Recent Advances in Synthetic Chemistry and Nanomaterials (RASCN) 21-22 Jan 2012, Department of Chemistry, Shivaji University.
- 40] PHOTOELECTROCHEMICAL CELL PERFORMANCE OF CHEMICALLY DEPOSITED MoBi_2Te_5 THIN FILMS
M. M. Salunkhe, S. M. Patil, **R. M. Mane**, S. V. Patil and P. N. Bhosale*
International Conference on Nanomaterials and Nanotechnology (ICNANO) 18-21 Dec. 2011, University of Delhi, Delhi 2011
- 41] An Aqueous Medium Based Synthesis & Characterization of Nanocrystalline $\text{MoBi}_2(\text{Se}_{0.5}\text{Te}_{0.5})_5$ Thin Films
M. M. Salunkhe, R. R. Kharade, **R. M. Mane**, N. B. Pawar, S. D. Kharade and P. N. Bhosale*
International conference on Physics of Materials and Materials Based Fabrication (ICPM- MDF) 18-21 Jan 2012, Department of Physics, Shivaji University, Kolhapur.
- 42] Room Temperature Synthesis of Nanoporous Copper Doped MoBi_2Se_5 Mixed Metal Chalcogenide Thin Films by Arrested Precipitation Technique
S. D. Kharade, N. B. Pawar, R. R. Kharade, M. M. Salunkhe, **R. M. Mane** and P. N. Bhosale*
International conference on Physics of Materials and Materials Based Fabrication (ICPM-MDF) 18-21 Jan 2012, Department of Physics, Shivaji University, Kolhapur.

- 43] Chemosynthesis of MoBi_2S_5 Nanocrystalline Thin Film by Simple Colloidal Route
N. B. Pawar, S. M. Patil, M. M. Salunkhe, S. D. Kharade, **R. M. Mane** and P. N. Bhosale
International conference on Physics of Materials and Materials Based Fabrication (ICPM-MDF) 18-21 Jan 2012, Department of Physics, Shivaji University, Kolhapur.
- 44] Synthesis and Characterization of MoBi_2S_5 Thin Film by Simple Colloidal Route
N. B. Pawar, S. M. Patil, M. M. Salunkhe, S. D. Kharade, **R. M. Mane**, V. B. Ghanwat and P. N. Bhosale*
International Conference on Materials Processing and Characterization (ICPMC)
Gokaraju Rangaraju Institute of Engineering and Technology 8-10 March 2012, Bachupally, Hyderabad.
- 45] Optical & electrical properties of Chemically Deposited MoBiGaSe_5 Mixed Metal Chalcogenide Thin Films
S. P. Patil, **R. M. Mane**, R. R. Kharade, M. M. Salunkhe, S. D. Kharade and P. N. Bhosale
National Seminar on Recent Advances in Synthetic Chemistry and Nanomaterials (RASCN) 21-22 Jan 2012, Department of Chemistry, Shivaji University, Kolhapur.
- 46] Thermoelectric properties of Chemically Deposited $\text{Bi}_2(\text{Te}_{1-x}\text{Se}_x)_3$ Mixed Metal Chalcogenide Thin Films
S. M. Patil, **R. M. Mane**, N. B. Pawar, S. R. Mane, R. K. Mane N. S. Patil, and P. N. Bhosale
National Seminar on Recent Advances in Synthetic Chemistry and Nanomaterials (RASCN) 21-22 Jan 2012, Department of Chemistry, Shivaji University, Kolhapur.
- 47] Optostructural & Photoelectrochemical studies on $\text{Mo}_x\text{W}_{1-x}\text{Se}_2$ mixed metal dichalcogenide Thin Films
S. N. Gawale, S. M. Patil, **R. M. Mane**, R. R. Kharade, S. R. Mane, & P. N. Bhosale
National Seminar on Recent Advances in Synthetic Chemistry and Nanomaterials (RASCN) 21-22 Jan 2012, Department of Chemistry, Shivaji University, Kolhapur.

- 48] **Orientation Programme** on “Innovative Teaching Techniques & Professional Development of University Teachers” for Newly Recruited Teachers Shivaji University, Kolhapur, organized by the Department of Education on **13/12/2011 to 14/12/2011**.
- 49] National Seminar on “Nanotechnology: Fabrication Methods & Its Applications” 2nd & 3rd December 2011, Department of Physics, Abasaheb Marathe Arts & New Commerce, Science College, Rajapur.
- 50] National Science Day “CLEAN ENERGY OPTIONS AND NUCLEAR SAFTY” 22nd & 28th February, 2012, Golden Jubilee Celebration, Shivaji University, Kolhapur.
- 51] National Seminar on “New Horizon In Applied Sciences” Sponserd by UGC & Shivaji University, Kolhapur, on 14th & 15th September, 2012. Shardhchantra Pawar Mahavidhyalaya Lonand.
- 52] A Workshop On “A Brain-Storming Session For Application Of Technology For Sustainable Development In The State Of Maharashtra” on 26th & 27th 2012, organized by Maharashtra Academy of Sciences (MASc), Shivaji University, Kolhapur (SUK).
- 53] “SYNTHESIS AND CHARACTERIZATION OF A TERNARY CuInSe₂ MIXED METAL CHALCOGENIDE THIN FILMS”
J. M. Mane, **R. M. Mane**, V. V. Patil, V. B. Ghanwat, S. D. Kharade, N. B. Pawar, S. P. Patil, V. V. Kondalkar and P. N. Bhosale *
- National Seminar on National conference on recent trends in Nanotechnology-2012
14th & 15th Dec. 2012, Department of Physics, Vivekananda College, Kolhapur
Shivaji University, Kolhapur.
- 54] “SYNTHESIS AND CHARACTERIZATION OF NOVEL MoBiGaSe₅ THIN FILMS BY VACUUM DEPOSITION TECHNIQUE”
S. P. Patil, S. S. Mali, **R. M. Mane**, R. R. Kharade, V. B. Ghanwat, V. V. Kondalkar and P. N. Bhosale*
- 6th International Symposium on Macro and Supramloecular Architectures and Materials (MAM-2012), 21st -25th November 2012, Center Nano Science and Technology KS

Rangasamy College of Technology, Tamilnadu India.

- 55] Rapid Synthesis and Characterization of Microwave –Assisted MoBi₂S₅ Thin Film
N. B. Pawar, **R. M. Mane**, S. P. Patil, V. V. Kondalkar and P. N. Bhosale*
DAE-BRNS 4th INTERDISCIPLINARY SYMPOSIUM ON MATERIALS CHEMISTRY
December 11-15, 2012. Bhabha Atomic Research Centre, Mumbai, India
- 56] Synthesis of CuS thin films by arrested precipitation technique (APT).
N. B. Pawar, **R. M. Mane**, V. B. Ghanwat, S. D. Kharade, M. M. Salunkhe and P. N. Bhosale*
National Seminar on National conference on recent trends in Nanotechnology-2012
14th & 15th Dec. 2012, Department of Physics, Vivekananda College, Kolhapur
Shivaji University, Kolhapur.
- 58] Surfactant Assisted Synthesis of Nanocrystalline WO₃ Thin Films and Their Electrochromic Properties.
R. R. Kharade, **R. M. Mane**, S. V. B. Patil, S. R. Mane, S. M. Patil and P. N. Bhosale*
National Seminar on National conference on recent trends in Nanotechnology-2012
14th & 15th Dec. 2012, Department of Physics, Vivekananda College, Kolhapur
Shivaji University, Kolhapur.
- 59] Influence of surfactant on optostructural, morphological and photoelectrochemical properties of MoBiInS₅ thin films.
N. B. Pawar, **R. M. Mane**, V. B. Ghanwat, S. D. Kharade and P. N. Bhosale*
National Seminar on Frontiers In Chemical and Biological Sciences.
23 & 24 September, 2013, Organized by Department of Chemistry, Padmabhushan
Dr. Vasantodada Patil Mahavidhyalaya, Tasgaon, Dist. Sangli. Shivaji University,
Kolhapur.
- 60] Workshop on Revised Syllabus of B.Sc. Part I, Chemistry & Industrial Chemistry
Semester II Paper No. III & IV Jointly Organised By Shivaji University Kolhapur &
Department of Chemistry, V. N. A. C & B. N. Sc. Mah. Shirala. 10th Oct. 2013.

- 61] UGC Sponsored National Conference on Emerging Trends and Techniques In Chemistry
10-12 October 2013, Organized by Department of Chemistry, Yashvantrao Chavan Institute
Of Science, Dist. Satara. Shivaji University, Kolhapur.
- 62] Photoelectrochemical Performance of $\text{Mo}_x\text{Bi}_{(3-x)}\text{Se}_5$ thin films.
S. V. Patil, **R. M. Mane**, R. R. Kharade, S. S. Mali, P. S. Patil and P. N. Bhosale
2nd International conference on Physics of Materials and Materials Based Fabrication
(ICPM-MDF) 13-15 Jan 2014, Department of Physics, Shivaji University, Kolhapur.
- 63] Synthesis, Morphology and Growth Mechanism of TiO_2 Nanoflowers via Hydrothermal
Route
Pallavi Patil, Vijay Kondalkar, Rohini Kharade, Nita Pawar, **Rahul Mane**, P.S.Patil, P. N.
Bhosale
2nd International conference on Physics of Materials and Materials Based Fabrication
(ICPM-MDF) 13-15 Jan 2014, Department of Physics, Shivaji University, Kolhapur.
- 64] Microwave assisted synthesis of nanocrystalline Cu_3SbSe_4 Thin films and their
characterization.
V. B. Ghanwat, S. D. Kharade, S. S. Mali, K. V. Khot, **R. M. Mane**, P. B. Patil, C. K.
Hong, P.S. Patil and P. N. Bhosale
2nd International conference on Physics of Materials and Materials Based Fabrication
(ICPM-MDF) 13-15 Jan 2014, Department of Physics, Shivaji University, Kolhapur.
- 65] Comparative Study of Nanostructured of Bi_2Se_3 Thin Films Grown Using Different
Chelating Agents.
S. D. Kharade, V. V. Kondalkar, V. B. Ghanwat, **R. M. Mane**, R. R. Kharade, S. M. Patil
and P. N. Bhosale
2nd International conference on Physics of Materials and Materials Based Fabrication
(ICPM-MDF) 13-15 Jan 2014, Department of Physics, Shivaji University, Kolhapur.
- 66] Structural ,Optical,Compositional and Morphplogical Studies of Nanocrystalline CdZnSSe
thin films by Arrested Precipitation Technique (APT).
S. K. Jagdale, D. B. Shinde, **R. M. Mane**, R. K. Mane and P. N. Bhosale
UGC-SAP National Symposium on Recent Trends in Chemical and Nanosciences

(CTCNS-2014) 17-18 Jan 2014, Department of Chemistry, Shivaji University, Kolhapur.

67] Electrochemical Photovoltaic (ECPV) Characteristics Based On Dye Sensitized Sb(III)

Doped $\text{Bi}_2(\text{Te}_{1-x}\text{Se}_x)_3$ Mixed Metal Chalcogenide thin films.

S. M. Patil, **R. M. Mane**, N. B. Pawar, S. M. Mali, P. S. Patil and P. N. Bhosale

UGC-SAP National Symposium on Recent Trends in Chemical and Nanosciences

(CTCNS-2014), 17-18 Jan 2014, Department of Chemistry, Shivaji University, Kolhapur.

68] Microwave Assisted synthesis ,characterization and thermoelectric properties of

Nanocrystalline CuSbSe_2 thin films.

V. B. Ghanvat, S. D. Kharade, N. B. Pawar, **R. M. Mane**, S. M. Mali, K.V. Khot, C. K.

Hong, P. S. Patil and P. N. Bhosale

UGC-SAP National Symposium on Recent Trends in Chemical and Nanosciences

(CTCNS-2014) 17-18 Jan 2014, Department of Chemistry, Shivaji University, Kolhapur.

69] Nanocrystalline MoBi_2Se_5 Ternary Mixed Metal Chalcogenide Thin-Films for Solar Cell Applications,

R. M. Mane¹, V. B. Ghanvat¹, V. V. Kondalkar¹, K. V. Khot¹, S. R. Mane¹, P. S. Patil²
and P.N. Bhosale*¹ **(Oral Presentation)**

3rd International Conference on Materials Processing and Characterization, 8th-9th March 2014, GRIET Hyderabad, India

70] Molybdenum Heteropolyoxometalate Thin Films for Solar Cell Applications,

S. R. Mane^a, B. J. Walekar^a, **R. M. Mane**^b, V. V. Kondalkar^b, V. B. Ghanvat^b and P. N. Bhosale^b **(Oral Presentation)**

3rd International Conference on Materials Processing and Characterization, 8th-9th March 2014, GRIET Hyderabad, India

71] Hybrid Physico-Chemical Synthesis and Electrochromic Performance of WO_3/MoO_3 Thin Films

Rohini R. Kharade, S.S. Mali, S.P. Patil, S.S. Mohite, **R.M. Mane**, V.V. Kondalkar, P.S.

Patil and P. N. Bhosale

Eleventh ISEAC International Discussion Meet on Electrochemistry and its Applications, Feb. 20-25, 2014 Organized by Indian Society for ElectroAnalytical Chemistry (ISEAC), Mumbai.

- 72] Hydrothermal Synthesis of Nanostructured WO₃ Thin Films for Electro-chromic Application
V.V. Kondalkar, R.R. Kharade, **R.M. Mane**, P.B. Patil, P.S. Patil, Sipra Choudhury and P.N. Bhosale
Eleventh ISEAC International Discussion Meet on Electrochemistry and its Applications, Feb. 20-25, 2014 Organized by Indian Society for ElectroAnalytical Chemistry (ISEAC), Mumbai.
- 73] Facile synthesis of CuInSe₂ mixed metal chalcogenide thin films for solar cell applications.
J. M. Mane, **R. M. Mane**, V. B. Ghanvat, N. B. Pawar, V. V. Kondalkar, K.V. Khot, and P. N. Bhosale
UGC-Sponsored one day National Conference on Frontiers Trends in Chemical Sciences (FCS-2014) 30 Jun 2014, Department of Chemical Science, Solapur University, Solapur.
- 74] Engineering the novel morphology of Cd(SSe) thin film via self organized aqueous method for its photo electrochemical application
K.V. Khot, **R. M. Mane** and P. N. Bhosale
Recent trends in Analytical Chemistry UGC-Sponsored two days National Conference RTAC-2014 on 30-31 August, Arts Commerce & Science College, Pravara Rural Education Society Ahmednagar.
- 75] Enhanced Electrochromic Performance of Nickel Oxide Thin Film: Synthesis via Electrodeposition Technique
Vijay V.Kondalkar, Pallavi B.Patil, Kishorkumar V.Khot Rohini R.Kharade, **Rahul M.Mane**, Pramod S.Patil, Sipra Choudhury, Popatrao N.Bhosale
Third International Conference on Polymer Processing and Characterization (ICPPC – 2014) on 11, 12 and 13 October, 2014 at Mahatma Gandhi University, Kottayam, Kerala, India.
- 76] Facile synthesis of CuInSe₂ thin films via self-organized APT: photoelectrochemical solar cell applications
J. M. Mane, **R. M. Mane**, S. R. Mane, V. V. Kondalkar, V. B. Ghanvat, D. B. Shinde, K.

V. Khot and P. N. Bhosale

Third International Conference on Polymer Processing and Characterization (ICPPC – 2014) on 11, 12 and 13 October, 2014 at Mahatma Gandhi University, Kottayam, Kerala, India.

77] Novel-approach for invention of nubbly-like Cd(SSe) thin film: Photoelectrochemical solar cell application

Kishorkumar V. Khot, Pallavi B. Patil, Rohini R. Kharade, **Rahul M. Mane** and Popatrao N. Bhosale

Third International Conference on Polymer Processing and Characterization (ICPPC – 2014) on 11, 12 and 13 October, 2014 at Mahatma Gandhi University, Kottayam, Kerala, India

78] Synthesis of Bismuth Telluride Thin Film for Thermoelectric Application via Electrodeposition Technique

Pallavi B. Patil, Kishorkumar V. Khot, Vijay V. Kondalkar, Vishvanath B. Ghanwat **Rahul M. Mane** and Popatrao N. Bhosale

Third International Conference on Polymer Processing and Characterization (ICPPC – 2014) on 11, 12 and 13 October, 2014 at Mahatma Gandhi University, Kottayam, Kerala, India

79] Effect of Tl⁺ Intercalation on Electrochromic behavior of Tungsten Hetero-polyoxometallate Polymeric Thin Films

S. R. Mane, **R. M. Mane** and P. N. Bhosale

Third International Conference on Polymer Processing and Characterization (ICPPC – 2014) on 11, 12 and 13 October, 2014 at Mahatma Gandhi University, Kottayam, Kerala, India

80] Rapid Synthesis of unique Cd(SSe) thin films via newly fabricated arrested precipitation technique and its photoelectrochemical performance

Kishorkumar V. Khot, Sawanta S. Mali, Pallavi B. Patil, Vishvanath B. Ghanwat, **Rahul. M. Mane**, Chang K. Hong, Popatrao N. Bhosale*a

UGC-SAP National Symposium on FCMS,(FCMS-2015), 16-17 Jan 2015, Department of

Chemistry, Shivaji University, Kolhapur.

81] Single step hydrothermal synthesis of hierarchical TiO₂ microflowers with radially assembled nanorods for enhanced photovoltaic performance

Pallavi Patil, Vijay Kondalkar, Kishorkumar Khot, Vishvanath Ghanwat, **Rahul Mane**, P. N. Bhosale a*

UGC-SAP National Symposium on FCMS,(FCMS-2015), 16-17 Jan 2015, Department of Chemistry, Shivaji University, Kolhapur.

C) Paper published in proceedings

1] Electrochromic behaviour of chemically deposited Tungsten oxide thin films.

R. R. Kharade, **R. M. Mane**, S. N.Gawale and P. N. Bhosale

International conference on Recent Trends in Materials & Characterization

(RETMAC-2010), 14, 15 Feb.2010, National Institute of Technology Karnataka Surthkal, India.

➤ Materials Today Cover Competition (Submitted).

R. M. Mane and P. N. Bhosale^{1*}, **Impact Factor: 6.265**

➤ Teaching Experience:

1) Department of Industrial Chemistry, Shivaji University, Kolhapur (27/10/2010 to onwards) - **Assistant Professor.**

2) Department of Applied Chemistry, Shivaji University, Kolhapur (27/07/2010 to 22/10/2010)- **Assistant Professor.**

3) Department of Applied Chemistry, Shivaji University, Kolhapur (02/07/2007 to 30/04/2010)- **Contributory Teacher.**

4) Department of Industrial Chemistry, Shivaji University, Kolhapur (02/07/2006 to 20/04/2009)- **Contributory Teacher.**

5) Department of Industrial Chemistry, Shivaji University, Kolhapur (22/10/2010 to 30 /03/2012)- **Assistant Professor.**

6) Major Project Sanctioned by Department of Science and Technology (DST) New Delhi, under Young Scientist Scheme, Rs. 22, 99, 800/- **Working as a Principal Investigator (DST) Young Scientist** NO.SR/FT/CS-158/2011.(22/10/2012 to till date)

➤ **No. of Students guided for M.Sc. projects:- 50**

➤ **Worked as a Senior Supervisor at KIT College, Shivaji University, Kolhapur, on 27/12/2011 to 31/12/2011.**

➤ **Worked as a Senior Supervisor at Department of Distance Education, Shivaji University, Kolhapur, on 11/11/2013 to 18/11/2013.**

➤ **Worked as a judge in selecting the awardees for the ‘Best Oral presentation’ during the 10th International Conference, ISAEST-10, Society for Advancement of Electrochemical Science and Technology (SAEST) held at Hotel Green Park, Chennai on 28-30 January 2013.**

➤ **Peer-Reviewer / Referee for Various Scientific Journals: (47)**

1] Journal of Chemical Engineering Science. Elsevier

Impact Factor: 2.8

2] International Journal of Electrical Power & Energy Systems. Elsevier

Impact Factor: 2.6

3] Journal of Materials Today: Proceedings. Elsevier

4] Journal of Chemical Engineering & Process Technology, ISSN: 2157-7048, OMICS Group Publishing group. Impact Factor: 1.1

5] Journal of Nanophotonics (JNP), E-ISSN: 1934-2608, Publisher: SPIE
Impact Factor: 1.6

6] Journal of "Materials Science" PrintISSN:1392–1320,Online ISSN: 2029–7289
Impact Factor: 0.556

7] International Journal of Nanoparticles, ISSNOnline: 1753-2515, ISSN print: 1753-2507, Publishers of distinguished academic, scientific and professional journals, China.
Impact Factor: 0.856

- 8] Journal of Nanotechnology Development, eISSN 2038-968X , Page Press Srl, (Italy).
Impact Factor: 5.26
- 9] NanoProduct Review Journal Open access journal, the international forum for NanoProducts, ISSN 2052-5664, United Kingdom (UK).
- 10] International Journal of Advancements in Research & Technology IJOART (ISSN 2278-7763). Impact Factor: 0.4
- 11] International Journal of Scientific & Engineering Research (ISSN 2229-5518) Impact Factor: 1.4
- 12] Chemistry Central Journal, BioMed Central, London ,United Kingdom. *Springer* - International Publisher Science. Impact Factor: 1.31
- 13] Journal of Nanostructure in Chemistry , BioMed Central, London ,United Kingdom. *Springer* - International Publisher Science.
- 14] Journal of Systems Chemistry, BioMed Central, London ,United Kingdom. *Springer* - International Publisher Science.
- 15] Journal of Cheminformatics BioMed Central, London ,United Kingdom. *Springer* - International Publisher Science. Impact Factor: 3.58
- 16] American Journal of Materials Science, p-ISSN: 2162-9382, e-ISSN: 2162-8424.
- 17] Journal of Nanoscience and Nanotechnology, p-ISSN: 2163-257X, e-ISSN: 2163-2588.
- 18] American Journal of Chemistry, p-ISSN: 2165-8749, e-ISSN: 2165-8781.
- 19] International Journal of Materials Engineering, p-ISSN: 2166-5389, e-ISSN: 2166-5400.
- 20] Journal of Nanomaterials and the Environment, ISSN: 2299-1204, D-10785 Berlin/Germany.
- 21] Journal of Nanomaterials and Energy, ISSN: 2045-9831, E-ISSN : 2045-984X, USA.
- 22] Journal of Surface Innovations, ISSN: 2050-6252, E-ISSN: 2050-6260, USA.
- 23] Journal of Photonics for Energy (JPE), E-ISSN: 1947-7988, Publisher: SPIE
Impact Factor: 1.1
- 24] International Journal of Food Chemistry, Academic and Scientific Publishing.
- 25] Journal of Electrochemical Science and Engineering. ISSN: 1847-9286.
- 26] American Journal of Materials Engineering and Technology. ISSN (Print): 2333-8903, ISSN (Online): 2333-8911.

- 27] Journal of Nanomaterials and Energy, ISSN: 2045-9831,E-ISSN: 2045- 984X, ICE Publishing journal , United Kingdom, UK
- 28] Journals of Surface Innovations, ISSN: 2050-6252,E-ISSN: 2050-6260,ICE Publishing journal, United Kingdom, UK
- 29] Journal of Nanomedicine & Nanotechnology,Austin Publications LLC,USA.
- 30]_Journal of Clean Energy Technologies (JOCET), ISSN 1793-721x
- 31] Journal of Engineering, Technology and Applied Science Research (ETASR) ISSN: 1792-8036
- 32]_International Academy of Arts, Science & Technology (IAAST)
- 33] Journal of Progress in Chemical Engineering (PCE)
- 34]_International Journal of Material Science (IJMSCI)
- 35] Mechanics of Advanced Materials and Modern Processes journal, Springer
- 36] Journal of Advanced Chemical Engineering, OMICS
- 37] Journal of Saudi Chemical Society, Elsevier
Impact Factor: 1.0
- 38] Journal of Materials Science & Technology, Elsevier
Impact Factor: 1.6
- 39] Journal of Materials Research Letters (MRL),Taylor & Francis
- 40] Journal of Acta Metallurgica Sinica (English Letters), Springer
- 41] Journal of Inorganic Chemistry Frontiers, RSC
- 42] Journal of Materials Chemistry C. , RSC
- 43] Journal of Nano Research, Springer, Impact Factor: 6.9
- 44] Journal of Applied Nanoscience - Springer
- 45] The Journal of Electronic Materials – Springer, Impact Factor: 1.9
- 46] Journal of Macromolecular Symposia, Wiley
- 47] Journal of Nano-Structures & Nano-Objects, Elsevier

➤ **Editorial/Technical/Advisory Board member of Journals & Research Societies (45)**

- 1] Journal of Nanotechnology Development, eISSN 2038-968X , PAGE Press Srl,(Italy). (Associate Editor) Impact Factor: 5.26
- 2] NanoProduct Review Journal Open access journal, the international forum for NanoProducts, ISSN 2052-5664, United Kingdom (UK).
- 3] International Journal of Food Chemistry, Academic and Scientific Publishing.
- 4] International Journal of Applied Chemistry Research, Academic and Scientific Publishing.
- 5] International Journal of Advancements in Research and Technology (IJOART) (ISSN 2278-7763). Impact Factor: 0.4
- 6] International Journal of Scientific & Engineering Research (ISSN 2229-5518) Impact Factor: 1.4
- 7] International Journal of Materials Chemistry, Academic and Scientific Publishing.
- 8] International Journal of Polymer Chemistry, Academic and Scientific Publishing.
- 9] Journal of Nanomedicine & Nanotechnology, Austin Publications LLC, USA.
- 10] Scientific Board of Chemical, Civil, Agricultural and Environmental Engineers.
- 11] International Journal for Research in Applied Science and Engineering Technology (IJRASET)
- 12] International Academy of Arts, Science & Technology (IAAST)
- 13] International Scientific Academy of Engineering & Technology (ISAET)
- 14] The World Academy of Research in Science and Engineering (WARSE)
- 15] ISEAC Life-Member, Indian Society for Electroanalytical Chemistry.
- 16] Associate Member of The Institute of Nanotechnology, Strathclyde University, Incubator Graham, Hills Building 50 Richmond Street, Glasgow G1 1XP, Scotland, UK.
- 17] Member of Technical Committees of International Conference on Nanotechnology and Biosensors (ICNB 2014) will be held during December 18-20, 2014, Barcelona, Spain.
- 18] Member of Technical Committees of 3rd International Conference on Power Science and Engineering (ICPSE 2014) will be held during December 18-20, 2014, Barcelona, Spain.

- 19] Member of American Nano Society
- 20] Journal of Advanced Chemical Engineering, OMICS
- 21] Program committee member, 2nd International Conference on Advances in Computer Science and Engineering (ICACE 2015) will be held in Hotel Sandesh The Prince, Mysore, India on March 02, 2015.
- 22] World Research Journal of Chemistry (Associate Editor)
- 23] The SCIENCE and Engineering Institute (SCIEI), Cindy X. Lau, SCIEI secretary, 2448 Desire Avenue, Rowland Heights, LA, CA 91748, USA
- 24] The American Society for Research (ASR), ASR Member Number: R214120501. USA
- 25] The International Association of Computer Science and Information Technology (IACSIT), IACSIT, 9 Jurong Town Hall Road iHUB, Singapore. Member Number: 80349920
- 26] The American Ceramic Society, Member
- 27] South Asia Institute of Science and Engineering (SAISE), Member Number: 20141216001
- 28] The Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEES), Member Number : 201419
- 29] The Israel Chemical Society), Member
- 30] Young Scientists Journal, Member International Advisory Board
- 31] World Academy of Science, Engineering and Technology, Scientific and Technical Committee & Editorial Review Board Member, USA
- 32] The 2nd International Conference on Engineering, Computing and Technologies (ICECT 2015) will be held in The Golkonda Hotel, Hyderabad, Committee Member India on March 30, 2015
- 33] Journal of New technology and Materials” (JNTM), International Advisory Editors
- 34] First International Conference on Advanced Materials for Power Engineering (ICAMPE-2015) 11-13 December 2015 at Mahatma Gandhi University, Kottayam, Kerala, India. National Advisory Committee.
- 35] ICANM 2015: International Conference & Exhibition on Advanced & Nano Materials, 12-13 August 2015 Ottawa, Canada, Advisory Committee.
- 36] Member of Technical Committees of International Conference on Nanotechnology and Biosensors (ICNB 2014) will be held during December 15-

16, 2015, Amsterdam, Netherlands.

37] Member of Technical Committees of 4th International Conference on Power Science and Engineering (ICPSE 2015) will be held during will be held during December 15-16, 2015, Amsterdam, Netherlands.

38] Special issue Editor entitled: "Materials and Applications in Engineering"
Journal of Advanced Chemical Engineering.

39] Journal of Polymer Chemistry (OJPChem), Member of Editorial Board

40] The 2nd Int'l Conference on Polymer Materials Science (PMS 2016) will be held from January 14 to 16, 2016 in Bangkok, Thailand, Member of Technical Committee

41] 6th International Conference on Key Engineering Materials (ICKEM 2016) will be held during March 12-14, 2016 in Hong Kong, Member of Technical Committee

42] Member of The material Research Society (MRS)

43] Journal of Nanomaterial Chemistry and Technology, Editorial Board Member

44] The Brazilian Journal of Science and Technology, Advisory Editorial Board Member

45] 3rd International Congress on Nano Science and Nano Technology (ICNT 2015)
Editorial Board Member.

➤ **Students Feedback on Teacher (Revised Format No.2- Academic Year -2006-2007)**

84%

➤ **Students Feedback on Teacher (Revised Format No.2- Academic Year -20012-2013)**

86%

➤ **Books**

1] SYNTHESIS & CHARACTERIZATION OF CHEMICALLY DEPOSITED MIXED METAL CHALCOGENIDE THIN FILMS

R. M. Mane and P. N. Bhosale

“LAP LAMBERT” Academic Publishing, Germany, (ISBN 978-3-659-34122-9), 2013

Book Price:-73\$

2] FACILE SYNTHESIS OF CuInSe₂ MIXED METAL CHALCOGENIDE THIN FILMS FOR SOLAR CELL APPLICATIONS

J. M. Mane, **R. M. Mane**, and P. N. Bhosale

“LAP LAMBERT” Academic Publishing, Germany, (ISBN 978-3-659-34122-9), 2015

(Accepted)

- 3] Facile synthesis of CuInSe₂ thin films via self-organized APT: photoelectrochemical solar cell applications
 J. M. Mane, **R. M. Mane**, S. R. Mane , V. V. Kondalkar, V. B. Ghanvat, D. B. Shinde, K. V. Khot and P. N. Bhosale
 Book chapter in Recent advances in polymer processing and characterization, Apple Academic Press. (Accepted)
- 4] Synthesis of ‘Sea urchin’ like microstructure h-MoO₃ by Chemical Bath Deposition
 N. D. Desai, **R. M. Mane**, S. R. Mane , V. V. Kondalkar, V. B. Ghanvat, K.V. Khot and P. N. Bhosale
 Book chapter in Recent advances in polymer processing and characterization, Apple Academic Press. (Accepted)

Major Project

- **Major Project Sanctioned by Department of Science and Technology (DST) New Delhi, under Young Scientist Scheme, Rs. 22, 99, 800/- as a Principal Investigator.NO.SR/FT/CS-158/2011.**

Title: - Synthesis of new quaternary MoBiInSe₅ mixed metal chalcogenide thin films for solar cell applications.

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I hereby declare that the information given above is correct to the best of my knowledge and belief.

Date: -

Place: -

(Dr. Rahul Maruti Mane)