

Profile

Dr. Neha Dhanajirao Desai

Designation:- Assistant Professor, Department of Chemistry.
Official Address- Department of Chemistry, R.B.N.B. College Shrirampur
Residential Address- Flat No. 5 & 6, Mahalaxmi Residency, Satayam Nagar, Kodoli, Satara.
Mob.- +91-8975240011
+91-8975999507
E-mail - nehadesai323@gmail.com

Objectives-

- Seeking a responsible position with an opportunity for professional challenge and growth to support and enhance objectives of the institute.
- To enhance students' knowledge by innovative approach
- Development position in research and development skills.

Educational Qualification-

Degree	University/Board	Year Of Passing	Percentage	Grade
Ph.D.	Shivaji University, Kolhapur	April 2017		Ph.D. declared
M.Sc. Inorganic Chemistry	Shivaji University, Kolhapur	March.2013	75.66%	1 st Rank in University
B.Sc. Chemistry	Vivekanand College, Kolhapur	April.2011	81.96%	1 st Rank in College
H. S. C.	Kolhapur Divisional Board	February.2008	70.01%	Distinction
S. S. C.	Pune Divisional Board	March.2006	86.93%	Distinction

Research Profile-

- Total Publications- 23
- Google scholar citations- 236
- Research gate (RG Score)- 19.38
- h index- 10
- i 10 index- 10

Research Experience (6 years)

- Worked as UGC project fellow for one year from July 2013 to July 2014 on a UGC sponsored Major research project entitled '**Photocatalytic decomposition of toxic organics from water using a nanocrystalline hybrid transition metal oxide thin films**'
- Worked as a DST-INSPIRE Fellow on the Ph.D. topic entitled '**Development of dye sensitized Bi₂Se₃:TiO₂Nanocomposite For Photoelectrochemical Solar Cell Applications**'
- Currently working on the project '**Bipolar Resistive Switching Characteristics of TiO₂ Thin Films**'
- At a P.G. level completed a project entitled '**Studies of Synthesis and Characterization of Co substituted Zn-Mn chromites**'
- In B.Sc final year completed a project entitled '**Critical Study of Blood Serum Lithium level**'
- At B.Sc.-II year completed a project of environmental science entitled '**Biodiversity in Western Ghats**'

Academic experience (6 years)

- 7th Jan 2020 till date- Assistant Professor, Department of Chemistry, R.B.N.B. College Shirampur, District-Ahemadnagar.
- 24th June 2019- 3rd January 2020, Assistant Professor, KBP College of Engineering Satara
- 1st November 2018- 30th April 2019, Assistant Professor, Department of Chemistry, Shivaji University, Kolhapur.
- June 2018 to October 2018- Contributory Teacher, Department of Industrial Chemistry, Shivaji University.
- August 2018 to October 2018- Assistant Professor, Department of Chemistry, KIT College of Engineering, Kolhapur.
- July 2017 to May 2018 - Assistant Professor, Department of Chemistry, Sanjay Ghodawat University, Kolhapur.
- June 2016 to April 2017 –Contributory Teacher, Department of Industrial Chemistry, Shivaji University, Kolhapur.

- June 2014 to June 2015- Contributory Teacher, Department of Applied Chemistry, Shivaji University, Kolhapur

2 Patents Filed (Indian)

- Patent protection for Research entitled 'Effect of Substrate on the nanostructured Bi₂Se₃ Thin Films For Solar Cell Applications' Ref. No. JR-106.
Indian Patent- By ideas to IPR, New Delhi.
Patent Application No.201821033101
Date of Application- 5/09/2018
- Patent protection for research entitled 'Development of Dye sensitized Memristor'
Indian patent – By IPR office Mumbai.
Patent Application No. 201921019519
Date of Application- 17/05/2019

Special Achievements-

- Receptient of 'InSc Young Researcher Award' December 2020
- Secured 1st Rank in B.Sc. (Chemistry) at Vivekanand College, Kolhapur.
- Secured 1st Rank in M.Sc.(Inorganic Chemistry) at Shivaji University, Kolhapur.
- Recipient of Dr. Uthale Gold Medal for obtaining highest marks in M.Sc. Inorganic Chemistry.
- Junior research fellowship from UGC New Delhi as a project fellow from 10 July 2013 to 30th June 2014.
- DST-INSPIRE Fellow from 1st July 2014 to 24th April 2017.
- Best oral presentation in International Conference (ICSMC-2015) Mumbai.
- Secured 2nd Prize in Poster presentation national conference Kolhapur.
- Selected as a Runner up for JEOL-JSM SEM cover competition in May 2016.
- Best oral presentation in International Conference, 'Go-Green' 2017, C. T. Bora College, Shirur, Pune.
- Secured 2nd Prize in Oral presentation in National Conference FCMS-2017, Y.C. Institute of Science, Satara.
- Best oral presentation in International Conference, ICCEE 2019, Y.C. Institute of Science, Satara
- Two SEM images are selected as a Runner up for JEOL-JSM Cover competition in March 2017.
- Invited as a Chief Guest at Arts, Commerce and Science College Ramanandnagar

Computer Literacy:

- Basic Computer Knowledge.
- Knowledge of origin software
- Microsoft office, Microsoft power point

Technical Skills

- Good theoretical knowledge of Analytical techniques
- UV-Vis spectrophotometer
- Autolab electrochemical workstation
- Expertise in thin film synthesis and characterization

Book published

1. Book entitled, 'Nanocrystalline Thin Films by Efficient Energy Harvesting' is published by Lap Lambert Publication House, Germany

Authors- Neha Desai, P.N.Bhosale

Publication date- 17July 2017.

ISBN No. 978-3-330-33645-2

2. Book entitled, 'Hydrothermal Synthesis of TiO₂ Thin Films: An Ecofriendly Approach

Lap Lambert Publication House, Germany

Author- Neha Desai

Publication Date:- 22 April 2020.

ISBN No. 978-620-2-51673-0.

Editorial Board Member

- Journal of Nanoarchitectonics (NAT) – Universal Wiser Publisher, Singapore
- International Journal of Material Science and Applications- Science Publishing Group
- Universal Journal of Chemistry (ISSN 2332-3027)- Horizon Research Publishing USA.
- Selected As a Bentham Science Ambassador

Personal Skills

- Good Communication Skill and Leadership Qualities.
- Good Analytical and Logical Approach.
- Good Time Management and Teamwork.
- Good in Decision Making and Human Relations

Personal Profile

Name- Miss. Neha Dhanajirao Desai

Date Of Birth- 20th September, 1990

Sex- Female

Marital Status- Married

Nationality- Indian

Religion/Caste- Hindu-Maratha

Hobbies-	Music, Cricket, Reading
Languages-	English, Hindi, Marathi
	Administrative Committees
	1)Chairman IPR Cell
	2)Member Criteria III for NAAC
	3)F.Y.B.Sc. Admission Committee
	4)M.Sc.-I Admission Committee
	5) Member Vidyarthini Manch
	6) Member UGC Proposal Committee
	7)Member DBT star Committee
	8) Member Innovation and Incubation Committee

References:

1. Prof. (Dr.) P. N. Bhosale
UGC- BSR Fellow,
Department of Chemistry,
Shivaji University, Kolhapur-04.
Email: p_n_bhosale@rediffmail.com
Contact No. 9420007500 (M)
2. Prof. Dr. N. S. Gaikwad
Principal,
Rayat Shikshan Sanstha's
R.B.Naryanrao Borawake College,Shrirampur
Maharashtra-413709
Email :rnbcollege@gmail.com
Contact No. 9860491767
3. Prof. (Dr.) P.P Wadgaonkar
Senior Scientist,
Polymer Science and Engineering Division,

CSIR- National Chemical Laboratory

Pune- 411008.

Email: pp.wadgaonkar@ncl.res.in

Contact No. 020-25902306.

4. Prof. (Dr.) P.S. Patil

Dean Science and Technology,

Founder Co-ordinator,

School of Nanoscience and Technology,

Department of Physics,

Shivaji University, Kolhapur-04.

Email: psp_phy@unishivaji.ac.in

Contact No. 0231-2609490

5. Prof. (Dr.) K. M. Garadkar,

Department of Chemistry,

Co-ordinator, Department of Industrial Chemistry,

Shivaji University, Kolhapur-04.

Email: kmg_chem@unishivaji.ac.in

Contact No. 9822846916

Faculty Development program

1. FDP on 'Evolution From Offline to Online Teaching' organized by Satish pradhan Dnyansadhana College, Thane (30 May 2020 to 3 June 2020).
2. Online orientation Program organized by Ramanujan College, New Delhi from 26 June 2020 to 24 July 2020.

List of Publications in National/International Journals

1. Chemically grown MoO₃nanorods for antibacterial activity study
N.D.Desai, S.S. Mali, V.V. Kondalkar, R. M. Mane, C.K. Hong, P.N. Bhosale

Journal of Nanomedicine and Nanotechnology 6 (2015) 338.

2. Effect of substrate on the nanostructured Bi₂Se₃ thin films for solar cell applications.
N. D. Desai, V. B. Ghanwat, K. V. Khot, S.S. Mali, C. K. Hong, P.N. Bhosale
Journal of Material Science: Material Electronics 27 (2016) 2385.
3. Influence of deposition temperature on the optostructural, morphological, compositional and photoelectrochemical properties of TiO₂ thin films
N. D. Desai, S. S. Mali, R. M. Mane, V. B. Ghanwat, C. K. Hong, P.N. Bhosale
Journal of Material Science: Material Electronics, 27 (2016) 11739.
4. Surfactant assisted synthesis of nanocrystalline n-Bi₂Se₃ thin films at room temperature via arrested precipitation technique.
N.D.Desai, S.M. Patil, K.V. Khot, R.M. Mane, P.N. Bhosale.
Nanosystems: Physics, Chemistry, Mathematics- 7(4) (2016) 1.
5. Effect of surfactants on the data directionality and learning behaviour of Al/TiO₂/FTO thin film memristor-based electronic synapse.
T. D. Dongale, N. D. Desai, K.V. Khot, N. B. Mullani, P. S. Pawar, R. S. Tikke, V. B. Patil, P. P. Waifalkar, P. B. Patil, R. K. Kamat, P. S. Patil, P. N. Bhosale
Journal of Solid State Electrochemistry 21 (9) (2017) 2753.
6. Surfactant mediated synthesis of bismuth selenide thin films for photoelectrochemical solar cell applications
Neha D. Desai, Kishorkumar V. Khot, Vishvanath B. Ghanwat, Suvarta D. Kharade, Popatrao N. Bhosale
Journal of Colloid and Interface Science-514 (2018) 250.
7. Bipolar resistive switching and memristive properties of hydrothermally synthesized TiO₂ nanorod array: Effect of growth temperature
A.C. Khot, N.D. Desai, K.V. Khot, M.M. Salunkhe, M.A. Chougule, T.M. Bhawe, R.K. Kamat, K.P. Musselman, T.D. Dongale

Material and Design- 151 (2018) 37.

8. An Electronic Synapse Device Based on TiO₂ Thin Film Memristor
Dongale, T. D.; Desai, N. D.; Khot, K. V.; Bhosale, P. N.; Kamat, R. K.
Journal of Nanoelectronics and Optoelectronics-13 (2018) 68.
9. Effect of write voltage and frequency on the reliability aspects of memristor-based RRAM
T. D. Dongale, K. V. Khot, S. V. Mohite, N. D. Desai, P. N. Bhosale, P. S. Patil, R. K. Kamat
International nano letters-7 (2017) 207.
10. 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, P. N. Bhosale.
Functionalized Engineering Materials & Their Applications- Published as book chapter (2017).ISBN: 9781771885232Apple Academic Press.
11. Natural dye sensitized TiO₂nanoflowers: A step towards harvesting Renewable Energy.
N.D.Desai, K.V.Khot, S.S. patil, S.V.Patil, S.R.Mane, P.N.Bhosale
CTBC's International Research Journal- Proceedings of International Conference on 'Go Green' ISSN: 2350-0905.
12. A facile & Low cost strategy to synthesize Cd_{1-x}Zn_xSe thin films for photoelectrochemical performance: effect of zinc content
C.S.Bagade, S.S.Mali, V.B.Ghanwat, K.V.Khot, P.B.Patil, S.D.Kharade, R.M.Mane, N.D.Desai, C.K. Hong, P.S. Patil, P.N.Bhosale
RSC Advances, 5 (2015) 55658.
13. Rapid formation of ternary CdZnSe₂ chalcogenide thin film by microwave assisted chemical bath deposition

C.S. Bagade, V. B. Ghanwat, S. D. Kharade, K. V. Khot, R. R. Kharade, N. D. Desai, P. N. Bhosale

Macromolecular Symposia, 362 (2016) 60.

14. Controlled electrochemical polymerization strategies for electroactive polyaniline Thin Films.

R.R.Kharade , P. B. Patil, K. V. Khot, V. B. Ghanwat, V. V. Kondalkar, C. S. Bagade, N. D. Desai, R. M. Mane and P. N. Bhosale

Macromolecular Symposia, 362 (2016) 60.

15. Room Temperature Synthesis of Nanocubic CuInSe₂ Thin Films.

V.S. Patil, N.D.Desai , S.D. Kharade , R.M.Mane , P.N.Bhosale.

Journal of Advanced Chemical Engineering, 7 (2017) 171.

16. Natural Dye Sensitized Nanocomposite for efficient energy harvesting

Neha Desai, Kishorkumar Khot, Satish Patil, P.N.Bhosale

AIP Conference Proceedings, 1989 (2018) 20008.

17. Enhancement in thermoelectric performance of Cu₃SbSe₄ thin films by In(III) doping; synthesized by arrested precipitation technique.

Vishvanath B. Ghanwat, Sawanta S. Mali, Chaitali S. Bagade, Kishorkumar V. Khot, Neha D. Desai, Chang Kook Hong, P. N. Bhosale

Journal of Material Science: Material Electronics, 29 (2018) 8793.

18. Single step fabrication of CuS thin film via hydrothermal route for solar cell applications

Satish Patil, Neha Desai, Suvarta Kharade, Monica Joshi, P.N. Bhosale

AIP Conference Proceedings, 1989 (2018) 20029.

19. Synthesis of Tin Sulphide Thin Film By Simple Arrested precipitation Technique For Solar Cell Applications

M.P.Joshi, K.V. Khot, V.B. Ghanwat, S.D. Kharade, C.S. Bagade, N.D. Desai, P.N.Bhosale

AIP Conference Proceedings, 1989 (2018) 20015.

20. Synthesis of Photoactive Ternary Cadmium Sulfoselenide Thin Film via Cost-effective Chemical Technique for Solar Cell Application

K. V. Khot, T.D. Dongale, N.D. Desai, V.B.Ghanwat, N.B. Pawar, C.S. Bagade, R.K.Kamat, P.N.Bhosale

Academic Journal of Polymer Science- 1 (5) (2019) 1.

21. Development of DyeSensitized TiO₂ Thin Films For Efficient Energy Harvesting

Neha D. Desai^a, Kishorkumar V. Khot^a, Tukaram Dongale^b, Popatrao. N. Bhosale^a

Journal of Alloys and Compounds, 790 (2019) 1001.

22. Surfactant Mediated Morphological Transition of TiO₂ Thin Films For Enhanced Photoconversion Efficiency

Neha Desai, P.N.Bhosale

Materials Today Proceedings- Published

23. Environmentally Benign Protocols For The Synthesis of Transition Metal Oxide:

A Brief Outlook

Neha Desai, Kishorkumar Khot, Atul Khot, Tukaram Dongle

Review book chapter-Published in book 'Composites of Environmental Engineering'

24. Exotic Study of hydrothermal method

Neha Desai, Kishorkumar Khot, Rahul Mane, P.N. Bhosale

Short communication –Submitted to Journal of Nanoscience & Nanotechnology.

Papers Presented in Conferences/ Seminars/ Symposia

1. Morphology tailored synthesis of 3D hierarchical TiO₂nanorods by simple hydrothermal route

P.B.Patil, V.V.Kondalkar, **N.D.Desai**,C.S.Bagade, P.N.Bhosale

Emerging Trends & Techniques in Chemistry (ETTC-2013), Y.C. Institute of Science, Satara. (10-12 Oct. 2013).

2. Rapid microwave synthesis of MoBi_2S_5 nanoflowers & its photoelectrochemical performance
N.B. Pawar, S.D. Kharade, **N.D. Desai**, C.S. Bagade, S.V. Patil & P.N. Bhosale

2nd International Conference on Physics of materials & Materials based device fabrication (ICPM-MDF-2014), Department of Physics, Shivaji University Kolhapur. (13-15 Jan. 2014).

3. Self assembled 3D hierarchical TiO_2 microflowers: synthesis and characterization

P.B. Patil, V.V. Kondalkar, **N.D. Desai**, P.N. Bhosale

National symposium on current trends in chemical & nanosciences (CTCNS-2014), Department. Of Chemistry, Shivaji University Kolhapur. (17-18 Jan. 2014.)

4. Thermoelectric properties of nanocrystalline Cu_3SbSe_4 thin films by arrested precipitation technique

V.B. Ghanwat, P.B. Patil, **N.D. Desai**, P.N. Bhosale

Frontiers in chemical sciences (FCS-2014), Solapur University, Solapur. (30 Jun 2014).

5. Synthesis of 'sea urchin' like microstructured h- MoO_3 by chemical bath deposition

N.D. Desai, V.V. Kondalkar, P.B. Patil, R.M. Mane, R.R. Kharade, P.N. Bhosale

3rd International Conference on polymer processing and characterization (ICPPC-2014), Mahatma Gandhi University, Kottayam, Kerala. (11-13 Oct. 2014.)

6. Rapid formation of ternary CdZnSe_2 chalcogenide thin films by microwave assisted chemical bath deposition

C.S. Bagade, V.B. Ghanwat, S.D. Kharade, K.V. Khot, R.R. Kharade, **N.D. Desai**, P.N. Bhosale

3rd International Conference on polymer processing and characterization (ICPPC-2014), Mahatma Gandhi University, Kottayam, Kerala. (11-13 Oct. 2014.)

7. Controlled electrochemical polymerization strategies for electroactive polyaniline thin films

R. R. Kharade, P. B. Patil, K. V. Khot, V. B. Ghanwat, V. V. Kondalkar, C. S. Bagade, **N. D. Desai**, R. M. Mane, P. N. Bhosale

3rd International Conference on polymer processing and characterization (ICPPC-2014), Mahatma Gandhi University, Kottayam, Kerala. (11-13 Oct. 2014.)

8. Synthesis of nanocrystalline Bi₂Se₃ thin films by arrested precipitation technique

N.D. Desai, S.D. Kharade, C.S. Bagade, P.N. Bhosale

Frontiers in Chemical & Material Sciences (FCMS-2015), Department of Chemistry, Shivaji University Kolhapur. (16-17 Jan. 2015).

9. Effect of substrate on the morphology of nanostructured Bi₂Se₃ thin films and their photoelectrochemical performance- **(Best oral Presentation- 1stPrize)**

N.D.Desai, P.N.Bhosale

International Conference on New horizons in Synthetic and material Chemistry (ICSMC-2015), Department of Chemistry, Mumbai University, Mumbai (26-28 Nov. 2015).

10. Surfactant assisted synthesis of nanocrystalline n-Bi₂Se₃ thin films at room temperature via arrested precipitation technique.

N.D.Desai, S.M. Patil, K.V. Khot, R.M. Mane, P,N, Bhosale,

International Conference on Nanomaterials and Nanotechnology (NANO-2015), K.S.Rangasamy College of Technology, Tiruchegode, Tamilnadu (7-10 Dec. 2015).

11. Photoelectrochemical performance of Bi₂Se₃ thin films: Effect of substrate

(Best Poster Presentation- 2nd Prize)

N. D. Desai, V. B. Ghanwat, K. V. Khot, S.S. Mali, C.K. Hong, P. N. Bhosale

National Seminar of Application of Chemical and Material Science for Sustainable Development, Department of Chemistry, Shivaji University, Kolhapur (20 Feb.2016).

12. Single step fabrication of quaternary Cu₂Cd(SSe)₂ thin films via arrested precipitation technique and their solar cell performance

K. V. Khot, S. S. Mali, V. B. Ghanwat, P. B. Patil, C. S. Bagade, **N. D. Desai**, S. D. Kharade, S. K. Jagadale, D. B. Shinde, R. M. Mane, P. N. Bhosale.

National Seminar of Application of Chemical and Material Science for Sustainable Development, Department of Chemistry, Shivaji University, Kolhapur (20 Feb.2016).

13. A chemical approach for synthesis of photoactive $Cd_{1-x}Zn_xSe$ thin films via arrested precipitation technique and its solar cell application

C. S. Bagade, V.B.Ghanwat, K. V. Khot, P. B .Patil, S. D. Kharade, **N. D. Desai**,
P .N. Bhosale

National Seminar of Application of Chemical and Material Science for Sustainable Development, Department of Chemistry, Shivaji University, Kolhapur (20 Feb.2016).

14. Natural Dye Sensitized TiO_2 Nanoflowers: A step towards harvesting renewable Energy(**Best Oral Prsenatation- 1st Prize**)

N. D. Desai, K.V.Khot, S.S. Patil, S.V. Patil, S.R.Mane, P.N.Bhosale

International Conference on 'Go Green', C.T.Bora College Shirur, 12-13 Jan 2017.

15. Nanostructured $Cd_{1-x}Zn_xSe$ thin films synthesized via a Chemical Route For Solar cell applications

K.V.Khot, T.D.Dongle, N.B.Pawar, S.D. Kharade, **N.D. Desai**, S.S. Patil, M.P. Joshi, S.R. Mane, P.N.Bhosale

International Conference on 'Go Green', C.T. Bora College Shirur, (12-13 Jan 2017).

16. Novel Single Step Hydrothermal Synthesis of $ZnSe$ Nanospheres for photoelectrochemicalCell applications

S.S. Patil, **N.D. Desai**, S.D.Kharade, M.P. Joshi, K.V. Khot, P.N. Bhosale

International Conference on 'Go Green', C. T. Bora College Shirur, (12-13 Jan 2017).

17. Synthesis and Characterization of Cu_3Se_2 thin films via a self organized Arrested precipitation technique

M.P. Joshi, S.D. Kharade, **N.D. Desai**, S.S. Patil, K.V. Khot, P.N. Bhosale

International Conference on 'Go Green', C.T.Bora College Shirur, (12-13 Jan 2017).

18. Surfactant assisted room temperature synthesis of Bi_2Se_3 Thin Films For Solar Cell Applications(**Best Oral Prsenatation- 2nd Prize**)

N.D. Desai, V.B. Ghanwat, S.S. Patil, M.P. Joshi, P.N.Bhosale

National Conference On Frontier Areas In Chemical Sciences (FACS-2017),
Department of Chemistry, Y.C. Institute of Science, Satara, (27-28 Jan 2017).

19. Thermoelectric Properties of In(III) Doped Copper Antimony Selenide Thin Films
Deposited by Microwave Assisted Technique

V.B. Ghanwat, C.S. Bagade, **N.D. Desai**, K.V. Khot, S.M. Patil, M.P. Joshi, S.S. Patil, P.N.
Bhosale

National Conference On Frontier Areas In Chemical Sciences (FACS-2017),
Department of Chemistry, Y.C. Institute of Science, Satara, (27-28 Jan 2017).

20. Bi₂Se₃:TiO₂Nanocomposite Sensitized By Natural Dye '*Betainin*' For
PhotoelectrochemicalSolar Cell Applications

N.D.Desai,K. V.Khot, S. D.Kharade, M. P. Joshi, R. M. Mane, P. N.Bhosale

ETCS-2017, National Seminar at Vikhepatil College, Pravaraingar (20-21 Jan.2017).

21.Fabrication of PbS/ZnOheterojunction thin film solar cell devices using simple chemical
route

K.V.Khot, **N.D.Desai**, N.B. Pawar, T.D.Dongle, P.N.Bhosale

ETCS-2017, National Seminar at Vikhepatil College, Pravaraingar(20-21 Jan.2017).

22. Morphological Tuning of TiO₂ Thin Films Synthesised Via Hydrothermal Route For Solar
Energy Harvesting

N. D. Desai, M.P.Joshi, S.S.Patil, T.D.Dongle, P.N.Bhosale

IRCS-2017, Department of Chemistry,Shivaji University, Kolhapur (1-2 Feb.2017).

23. Surfactant Mediated Synthesis of TiO₂ Thin Films For photoelectrochemical Solar Cell
Applications

Akshay S. Belgave, PrajaktaT.Bhandage, **NehaD.Desai**, Popatrao N.Bhosale

IRCS-2017, Department of Chemistry,Shivaji University, Kolhapur (1-2 Feb.2017).

24. Reduced grapheme oxide incorporated Hydrothermally synthesized TiO₂ thin films for
Photoelectrochemical Applications.

S.D.Kharade, **N.D.Desai**, P.A.Kadam, A.A. Sayad, V.V.Sardesai, P.N.Bhosale.
IRCS-2017, Department of Chemistry, Shivaji University, Kolhapur (1-2 Feb.2017).

25. Optostructural, morphological and photoelectrochemical properties of ZnSe thin films grown by single step hydrothermal method.

S.S.Patil, **N.D.Desai**, S.D.Kharade, M.P.Joshi, K.V.Khot, P.N.Bhosale.
IRCS-2017, Department of Chemistry, Shivaji University, Kolhapur (1-2 Feb.2017).

26. Facile Synthesis and Characterization of CuSSe thin films by Arrested Precipitation Technique.

M.P.Joshi, S.D.Kharade, **N.D.Desai**, S.S.Patil, P.N.Bhosale.
IRCS-2017, Department of Chemistry, Shivaji University, Kolhapur (1-2 Feb.2017).

27. Natural Dye Sensitized Nanocomposite for efficient energy harvesting

N. D. Desai, P.N.Bhosale.
ETMN-2017, Department of Physics, Solapur University, Solapur.

28. Single step fabrication of CuS thin film via hydrothermal route for solar cell applications

S. S. Patil, **N. D. Desai**, S. D. Kharade, M. P. Joshi, P.N. Bhosale
ETMN- 2017, Department of Physics, Solapur University, Solapur.

29. Synthesis of Tin Sulphide Thin Film By Simple Arrested precipitation Technique For Solar Cell Applications

M.P.Joshi, K.V. Khot, V.B. Ghanwat, S.D. Kharade, C.S. Bagade, **N.D. Desai**, P.N.Bhosale
ETMN- 2017, Department of Physics, Solapur University, Solapur.

30. Photoelectrochemical performance of surfactant assisted Bi₂Se₃ thin films synthesized via APT

N. D. Desai, T. D. Dongle, K. V. Khot, S. S. Patil, P.N. Bhosale
ICACS-2018, Department of Chemistry, Shivaji University, Kolhapur (1-3 Feb.2017)

31. Bipolar resistive switching and memristive properties of hydrothermally synthesized TiO₂

thin films : Effect of deposition temperature.

A.C. Khot, **N. D. Desai**, K.V. Khot, P.N. Bhosale, T.D. Dongle

ICACS- 2018, Department of Chemistry, Shivaji University, Kolhapur (1-3 Feb 2018).

32. Boost in photoconversion efficiency of $\text{Cu}_2\text{Cd}(\text{SSe})_2$ thin films synthesized via Chemical route.

K.V.Khot, **N.D. Desai**, C.S. Bagade, P.N. Bhosale.

ICACS- 2018, Department of Chemistry, Shivaji University, Kolhapur (1-3 Feb 2018).

33. Science Academies lecture workshop on 'Recent Advances in Chemical Sciences'

RACS- 2018, Sanjay Ghodawat University, Kolhapur (23-24 Feb 2018).

34. Efficient Energy Harvesting Via Natural Dye Sensitized TiO_2 nanoflowers

N.D. Desai, S.S. Patil, M.P.Joshi, S.D.Kharade, R.M.Mane, P.N.Bhosale

RTCMS-2019, Department of Chemistry, Shivaji University, Kolhapur (9 Feb 2019).

35.Enhanced Photoelectrochemical Performance of Bi_2Se_3 Thin Films: Effect of Surfactant

N.D.Desai, R.M.Mane, S.S.Patil, L.P.Deshmukh, P.N.Bhosale

RMC-2019, Department of Physics, Savitribai Phule Pune University, Pune (14-15 Feb 2019).

36. Temperature Dependent Morphological Tuning of TiO_2 Nanoflowers For Efficient Energy Harvesting (**Best Oral Presentation- 1st Prize**)

N.D.Desai, R.M.Mane, S.S. Patil, V.B.Ghanwat, P.N.Bhosale

ICCEE-2019, Department of Chemistry, Y.C. Institute of Science, Satara (17-18 Feb 2019).

37.Morphological Tuning of TiO_2 Thin Films For Efficient Energy Harvesting

Neha Desai, P.N.Bhosale

MHMEE-2020, Department of Physics, Y.C. Institute of Science Satara (29-31 Jan 2020)

38. RBNB- Environmental science-----

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39. Attended National Level web conference on ‘Green Catalysis and Material Chemistry
K.E.S anandibai Pradhan Science College, Nagothane, 27 May 2020.’

Declaration-

I hereby declare that the information and details given above are true to the best of my Knowledge.

Looking forward to work in your esteemed concern.

Yours Sincerely,

Place- Satara

Date- / / 2020.

(Dr. Neha D. Desai)