

## Curriculum Vitae



**Date of Birth:**

26/04/1964

**Name:** Prof. Dr. A. P. Torane

**Email id:** [appasahebtorane@yahoo.in](mailto:appasahebtorane@yahoo.in)

**Mobile No:** 9890916766

**Designation:** Professor & Director Lifelong Learning & Extension, Karmaveer Bhaurao Patil University, Satara

Vice Principal and Administrative Dean and Professor & Head, Department of Physics, Yashavantrao Chavan Institute of Science, Satara (Autonomous)

**M.Sc. :** Physics

**Ph.D.:** Physics-2004

**Ph. D. Thesis Title:** "Studies on Preparation and Characterization of  $\text{Bi}_2\text{Se}_3$ ,  $\text{Sb}_2\text{Se}_3$  and  $\text{As}_2\text{Se}_3$  thin films"

**Date of Appointment:** 03/04/1989

**Experience:**

UG – 34 Year

PG – 12 Year

**Research Area:** Material Science, Thin Films, Nanoscience

### Academic and Professional Contribution:

1. Currently working as a **Vice Principal and Administrative Dean** in Yashavantrao Chavan Institute of Science, Satara (Autonomous)
2. **Dean of UG studies** from Academic Year 2020 to 2022 in Yashavantrao Chavan Institute of Science, Satara (Autonomous)
3. **Academic Registrar** from Academic Year 2018-19 to 2020 in Yashavantrao Chavan Institute of Science, Satara (Autonomous)
4. **BOS Chairman** from Academic Year 2022-23, Department of Physics, Yashavantrao Chavan Institute of Science, Satara (Autonomous)
5. **BOS member** Arts, Com. Sci. College, A. Nagar (Autonomous). R. Shahu College, Latur (Autonomous)

### Awards:

1. Best teacher award from Rayat Shikshan Sanstha's, Yashavantrao Chavan Institute of Science, Satara (Autonomous) in Year 2019.

### Patents: 02

**1. Title of the Invention:** A method of preparation of lanthanum strontium tungsten oxide composite electrode for supercapacitor application

**Application No.:** 202221046044

**Date of filing of Application:** 12/08/2022

**Date of Publication:** 19/09/2022

**2. Title of the Invention:** A method of organic red amaranth stems derived activated carbon electrode for supercapacitor application

**Application No.:** 202221046042

**Date of filing of Application:** 12/08/2022

**Date of Publication:** 30/09/2022

### Citation & h-Index

**Citations:** 382, **h index:** 10, **i10 index:** 12

### Administrative Experience:

**No of Students obtained Ph. D. under the guidance:** 02 (2019)

**No. of students pursuing Ph.D. under the guidance:** 05

**Research paper Publications in International Journals:** 18

### Minor Research Project:

Sr. No.	Title of Project	Status	Submission	Date	Funding	Agency
1	Electrodeposition of low bandgap semiconducting Bi <sub>2</sub> Se <sub>3</sub> thin films and characterization	Completed	Submitted on 28 <sup>th</sup> Sept. 2011	2011	30000/-	UGC

### BOOK Publications: Number of Text Book: 04

1	Textbook B.Sc. I	Nirali	978-93-83971-01-5	2014
2	Textbook B.Sc. II	Nirali	978-93-5164-153-7	2014
3	Textbook B.Sc. II	Nirali	978-93-5164-379-1	2015
4	Textbook B.Sc. II	Nirali	978-93-5164-380-7	2015

### List of Research Papers published in International Journals:19

Sr. No.	Titles of the Publication	Name of Co-author if any	ISSN number	Impact factor	Name of Journal with volume no. and page no.
1.	Preparation and characterization of Electrodeposited $Bi_2Se_3$ Thin Films.	A. P. Torane C.D.Lokhande P.S.Patil C.H.Bhosale	0254-0584	4.09	Materials Chemistry and Physics 55 (1998) 51.
2.	Preparation and characterization of Electrodeposited $Sb_2Se_3$ Thin Films.	A. P. Torane K.Y Rajpure C.H Bhosale	0254-0584	4.09	Materials Chemistry and Physics 61 (1999) 219.
3.	Preparation and characterization of Electrodeposited $Bi_2Se_3$ Thin Films from Non-Aqueous Medium.	A. P. Torane C.H. Bhosale	0025-5408	4.64	Materials Research Bulletin 61 (2001) 1915.
4.	Preparation and characterization of Electrodeposited $Sb_2Se_3$ Thin Films from Non-Aqueous Medium.	A. P. Torane C.H. Bhosale	0022-3697	3.99	Journal of Physics and Chemistry of Solids 63 (2002) 1849.
5.	Electrodeposition of $As_2Se_3$ Thin Films.	A. P. Torane C.H. Bhosale	0025-5408	4.64	Materials Research Bulletin 38(2003)847.
6.	Hierarchical 3D $NiCo_2O_4$ nanoflowers as electrode materials for high	R.B. Waghmode A. P. Torane	0957-4522	2.47	Journal of material science: materials in electronics, 27(6).

	performance supercapacitors.				2016, pp 6133-6139
7.	Band gap varied cuprous oxide (Cu <sub>2</sub> O) thin films as a tool for glucose sensing	P. K. Pagare A. P. Torane	0026-3672	5.83	Microchimica Acta 183, (2016) 2983-2989
8.	Electrodeposition and characterization of pH transitioned Cu <sub>2</sub> O thin films for electrochemical sensor	P. K. Pagare A. P. Torane	0957-4522	2.47	Journal of material science: materials in electronics, 28, (2017) 1386-1392
9.	Role of deposition time on synthesis of high-performance NiCo <sub>2</sub> O <sub>4</sub> Supercapacitors	K.B. Waghmode A. P. Torane	0957-4522	2.47	Journal of material science: materials in electronics, 28 (2017) 9575-9583
10.	Effect of air and nitrogen annealing on TiO <sub>2</sub> /Cu <sub>2</sub> O heterojunction photoelectrochemical solar cells	P. K. Pagare K.G. Kanade A. P. Torane	2053-1591	1.62	Material Research Express 4, (2017) 105011-8
11.	Photoelectrochemical study of electrodeposited TiO <sub>2</sub> thin films onto F:SnO <sub>2</sub> substrates	P. K. Pagare K.G. Kanade A. P. Torane	0922-6168	2.91	Research on Chemical Intermediates 44 (2018) 7277-7288
12.	Effect of deposition potential on efficiency of TiO <sub>2</sub> /Cu <sub>2</sub> O photoelectrochemical cells	P. K. Pagare A. P. Torane	0957-4522	2.47	Journal of material science: materials in electronics 29 (2018) 8473-8479
13.	Morphology controlled synthesis of NiCo <sub>2</sub> O <sub>4</sub> nanoflowers on stainless steel substrates as high-performance supercapacitors	KG Kanade H S Jadhav, R B Waghmode A. P. Torane	2589-2991	--	Materials Science for Energy Technologies 2 (2019) 556-564
14.	Photocatalytic dye degradation study of TiO <sub>2</sub> material	A. P. Torane A B Ubale, K G Kanade, P K Pagare	2214-7853	1.24	Materials Today- Proceeding 43 (2021) 2738-2741
15.	Synthesis, Characterization and gas sensing performance of tungsten oxide by hydrothermal method	A. A. Mohite B.M.Babar R.R.Sawant H.D.Shelke A. P. Torane	2214-7853	1.24	Materials Today- Proceeding 43 (2021) 2757-2762
16.	Chemical bath synthesis of NiCo <sub>2</sub> O <sub>4</sub> nanoflowers with nanorods like thin film for flexible supercapacitor application-effect of urea concentration on the energy conversion	RB Waghmode, NC Maile, DS Lee A. P. Torane	0013-4686	6.90	Electrochimica Acta 350 (2020) 136413
17.	Studies on Biosensing Properties of Electrodeposited Copper Oxide Films	Pavan K. Pagare, K. G. Kanade, H. S. Jadhav, Appasaheb P. Torane	1521-3900	0.90	Macromol. Symp. 400 (2021) 2100227 (1-4)
18.	Effect of Cu <sub>2</sub> S layer Thickness on the Photovoltaic Parameters of	H. D. Shelke, A. A. Mohite, A. P. Torane,	2578-0611		ES Materials & Manufacturing 18 (2022) 66-70

	Photoelectrochemical Solar Cells	K. V. Madhale, C. D. Lokhande			
19	Review on Recent Modifications in Nickel Metal-Organic Framework Derived Electrode (Ni-MOF) Materials for Supercapacitors	Amruta D. Salunkhe, P. K. Pagare & A. P. Torane	1574-1451	3.51	J Inorg Organomet Polym (2022). <a href="https://doi.org/10.1007/s10904-022-02503-w">https://doi.org/10.1007/s10904-022-02503-w</a>