

CURRICULUM VITAE

Dr. Sambhaji M. Pawar

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Web: <http://scholar.google.co.in/citations?user=q75OJd8AAAAJ&hl=en>



EDUCATION

- Ph.D. in Physics (Material Science) - (Jun. 2004 – Dec. 2007)
Department of Physics, Shivaji University, Kolhapur (M.S.), India.
Thesis: Studies on rechargeable storage cells formed with electrodeposited Fe doped CdSe thin films
Advisor: Prof. Chandrakant H. Bhosale
- M.Sc. in Physics (Energy Science) - (Jun. 2002 - Apr. 2004),
Department of Physics, Shivaji University, Kolhapur (M.S.), India.
- B.Sc. in Physics – (Jun.1999 - Apr. 2002),
K.B.P. College, Pandharpur, Dist.: Solapur (M.S.).

AREA OF SPECIALIZATIONS / RESEARCH INTERESTS

Basic Studies

- Thin film physics: Inorganic/organic thin films
- Nano materials for energy conversion and storage devices

Synthesis Methods

- **Physical:** Pulsed laser deposition, Magnetron sputtering, Vacuum evaporation
- **Chemical:** Electrodeposition, Spray pyrolysis, Chemical bath deposition(CBD), Successive ionic layer adsorption and reaction (SILAR), Hydro-thermal method, Hot injection method

Applications

- Solar Cells: Photo-electrochemical , Dye sensitized and Solid state Junction
- Supercapacitor, Direct Methanol fuel cell (DMFC)
- Electrochemical water splitting,
- Lithium-ion battery

EMPLOYMENT

Sr. No.	Designation	Period	Institution
1.	Associate Professor And Asso. Dean (R&D)	1/10/2021-Till date	Department of Physics, Sanjay Ghodawat University, Kolhapur (MS), India
2.	Associate Professor	4/1/2013-2/4/2021	Division of Physics and Semi. Sci., Dongguk University, Seoul, Korea
3.	Senior Scientist	4/1/2011-3/1/2013	LG Innotek Co., Ltd, Ansan, South Korea
4.	Post-Doctoral Fellow	15/4/2008-31/12/2010	Dept. of Materials Sci. and Eng., Chonnam National University, Gwangju, South Korea.
5.	Post-Doctoral Fellow	12/6/2007-12/4/2008	Dept. of Physics, Shivaji University, Kolhapur, India
6.	Teaching Assistant	1/10/2005-16/5/2007	Dept. of Physics, Shivaji University, Kolhapur, India

Professional Recognition / Awards / Scholarship

- Senior Research Fellowship (S.R.F.) (12/6/2007-12/4/2008) by Council of Scientific and Industrial Research (C.S.I.R.), New Delhi.
- Brain Korea 21 (BK21) Fellowship during Post-Doctoral Research, Chonnam National University, Gwangju, South Korea (2008-2010).
- “*Young Associate*” award, Maharashtra Academy of Sciences, Nov. 2020
- Passed Korean Language course (Level 1) during the period from Nov.01- Dec.17, 2010.
- “Science Direct Top 25 Hottest Article”, *Electrochimica Acta* 55(2010)4057 - 4061.
- “Science Direct Top 25 Hottest Article”, *Current Applied Physics* 11(2011)117 - 161.
- “Science Direct Top 25 Hottest Article”, *Current Applied Physics*, 10(2010)565 - 569.
- “Science Direct Top 25 Hottest Article”, *Current Applied Physics* 15 (2015) 59 - 63.
- Initiated MoU between Chonnam National University, Gwangju, South Korea and Shivaji University, Kolhapur (M.S.), India (Dec., 2008).

Journal Referee

- Solar Energy materials and solar cells; Solar Energy; ACS applied Materials & Interfaces
Journal of Alloys and compounds; Applied surface science; Materials Letters; Nanoscale;
Journal of Chemistry: A; Chemical communication

RESEARCH PUBLICATIONS DETAILS

1. International Patents: 1
2. Review articles: 1
3. International Research Publications: 130
4. International/National conferences: 22
5. Google scholar citations: 6700
6. H-index: 47

Research Collaboration

1. **Prof. Jin Hyeok Kim**
Department of Materials Science and Engineering,
Chonnam National University, Gwangju,
South Korea.
E-mail: jinhyeok@chonnam.ac.kr
2. **Prof. P.S. Patil**
Department of Physics,
Shivaji University, Kolhapur (M.S.),
India
E-mail: psp_phy@unishivaji.ac.in
3. **Prof. B. R. Sankapal**
Applied Physics Department,
Visvesvaraya National Institute of Technology,
South Ambhazari Road,
Nagpur-440 010 (M.S.)
India.
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4. **Dr. Bharat Kale**
Scientist -G & Director General
Centre for Material for Electronic Technology (CMET),
Panchawati, Off Pashan Road,
Pune 411007(M.S.)
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E-mail: bbkale@gmail.com

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

Date: 28/01/2022

(Dr. S. M. Pawar)