



Dr. Manohar G. Chaskar

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Area of Research: Nano-Materials and applications, Photo
Catalysis, Synthesis of Photo catalysis and Study its
Environmental Operation in the presence of UV-light

● **Education**

1988: **B.Sc. in Chemistry**, University of Pune, India

1990: **M.Sc. in Inorganic Chemistry**, Department of Chemistry, University of Pune, India

1997: **Ph.D in Chemistry**, Department of Chemistry, University of Pune, India.

2002: **Post-Doctorate**, Nagoya University (Mombushuo Fellowship), Japan.

● **Professional Positions**

- Member, B.O.S. Chemistry (Higher Secondary Board, Maharashtra) (2003-2005)
- Chairman and Member of number of Local Inquiry Committees since 2000.
- Chairman of Flying Squad Examination committees
- Director, Central Assessment Programme Science (2009), University of Pune
- Member, Governing Council, Pune District Education Association – Since 2006
- Member, Academic Council Pune University – 2010
- Member, Board of Studies, Chemistry, Pune University - 2010
- Member, Science Faculty Pune University- 2011
- Member, Engineering Faculty, Pune University- 2011
- President, Pune District Sport Zone - 2013
- Asst. Joint Secretary, PDEA - 2013.
- Experience of working on the statutory Authorities of U.G.C
- Experience of working on the Statutory Authorities of a Pune University.
- BCUD- Sub committee member and Chairman, SP Pune University.
- As an observer under CAS-UGC, Amritsar, Panjab.
- Member, Academic Sub Committee, University of Pune.
- Member, Sub Committee of Sports, University of Pune.
- Member, Management Council, Savitribai Phule Pune University (2015)
- Member, Senate Savitribai Phule Pune University (2018)
- Member-coordinator , NAAC Pear team, Bangalore (2018)
- Member, BOE, Savitribai Phule Pune University. (2018)
- Member, Management Council, Savitribai Phule Pune University (2020)

● Awards

- Young Scientist Award (1997)
- Best Paper Presentation Award (1997)
- Baburaoji Gholap Award (2000) by PDEA Pune
- Awards received by the Institution under my Leadership:
 - Mamasahab Mohal Trophy for the best college
 - Best college Award - AnnashebWaghire College, Otur. 2004
 - Best college Award -Waghire College, Saswad. 2007
 - Best college Award -Baburaoji Gholap College Sangvi. 2010
 - Best College Award by PCMC for Tree Plantation (2010-11)
 - First prize on University level and District level “JagarJanivancha” Govt of Maharashtra, India.

International exposures:

- Visiting Scientist, 6 Months Nagoya University, Japan, (2003-2004).
- Visiting Scientist, 3 Months Hannover University, Germany.
- Visiting Scientist, 3 Months Nagoya University, Japan 2012 (VBL fellowship)

Major Research Projects: Three Major Research Projects completed as a “Principal Investigator” Financed by U.G.C. and Savitribai Phule Pune University.

● Research Guidance:

- Number of Student Ph.D Award : 2,
- Number of Student Ph.D : 6 (Registered)
- Number Of Student M.Phil Award: 2

● Research Summary

>40 Publications in International Peer-reviewed Journals; **Citation > 321; h-index - 7**

● Selected Publications

- S. U. Ekar **M. G. Chaskar** et al., “Green synthesis and dye-sensitized solar cell application of rutile and anatase TiO₂ nanorods,” J. Solid State Electrochem., vol. 21, no. 9, pp. 2713–2718, Sep. 2017.
- A. K. Nikumbh, A. V. Nagawade, G. S. Gugale, **M. G. Chaskar**, and P. P. Bakare, “The formation, structural, electrical, magnetic and Mössbauer properties of ferrispinel, Cd_{1-x}NixFe₂O₄,” J. Mater. Sci., vol. 37, no. 3, pp. 637–647, 2002.
- R. Nainani, P. Thakur, and **M. Chaskar**, “Synthesis of Silver Doped TiO₂ Nanoparticles for the Improved Photocatalytic Degradation of Methyl Orange,” J. Mater. Sci. Eng. B, vol. 2, no. 1, pp. 52–58, 2012.
- H. Yoshida, M. Takeuchi, M. Sato, L. Zhang, T. Teshima, and **M. G. Chaskar**, “Potassium hexatitanate photocatalysts prepared by a flux method for water splitting,”

in Catalysis Today, 2014, vol. 232, pp. 158–164.

- I. Ahmed Quraishi, R. A. Pawar, D. R. Shinde, and **M. G. Chaskar**, “Parametric Study on Photocatalytic Dye Degradation under Visible Light in Flat Slurry Reactor with nano-ZnO Photocatalyst,” in Materials Today: Proceedings, 2020, vol. 23, pp. 410–422.
- N. H. Jadhav, S. S. Sakate, D. R. Shinde, **M. G. Chaskar**, and R. A. Pawar, “A transition metal-free cascade reaction using heterogeneous tin(IV)oxide catalyzed and iodine promoted synthesis of 3-arylimidazo[1,2-a]pyridines,” Tetrahedron Lett., p. 152250, Jul. 2020.
- N. L. Myadam, D. Y. Nadargi, J. D. Gurav Nadargi, F. I. Shaikh, S. S. Suryavanshi, and **M. G. Chaskar**, “A facile approach of developing Al/SnO₂ xerogels via epoxide assisted gelation: A highly versatile route for formaldehyde gas sensors,” Inorg. Chem. Commun., vol. 116, p. 107901, Jun. 2020.
- K. M. Samb-Joshi **M. G. Chaskar** et al., “Lignin-Mediated Biosynthesis of ZnO and TiO₂ Nanocomposites for Enhanced Antimicrobial Activity,” J. Compos. Sci., vol. 3, no. 3, p. 90, Sep. 2019.
- H. Yoshida, **M. G. Chaskar**, Y. Kato, and T. Hattori, “Fine structural photoluminescence spectra of silica-supported zirconium oxide and its photoactivity in direct methane conversion,” Chem. Commun., vol. 2, no. 18, pp. 2014–2015, Sep. 2002.
- K. M. Joshi, **M. G. Chaskar** et al., “Fragmented lignin-assisted synthesis of a hierarchical ZnO nanostructure for ammonia gas sensing,” RSC Adv., vol. 9, no. 5, pp. 2484–2492, Jan. 2019.
- S. S. Malwadkar, R. S. Gholap, S. V. Awate, P. V. Korake, **M. G. Chaskar**, and N. M. Gupta, “Physico-chemical, photo-catalytic and O₂-adsorption properties of TiO₂ nanotubes coated with gold nanoparticles,” J. Photochem. Photobiol. A Chem., vol. 203, no. 1, pp. 24–31, Mar. 2009.
- V. Maharugade, **M. G. Chaskar** et al., “Solar Light Driven Nanostructured Fe and Cu Doped TiO₂ Photocatalyst for Degradation of Phenol,” J. Nanoeng. Nanomanufacturing, vol. 5, no. 4, pp. 304–309, Feb. 2016.

- **Patents:**

Patent application no.	202021001359 Dated 13-01-2020
Title	Method For Leaf Vein Clearing And Formulation Therefor
Inventors	Chaskar MG

- Participated and presented work in the more than 30 National and International conferences.
- Organized more than 10 National and International conferences as coordinator/convener.

Dr. M. G. Chaskar