

# Dr. Krantiveer Vilas More



Ph.D. in Chemistry

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## Objective

To obtain a challenging and progressive career, which would provide me with sufficient opportunities to apply my skill for the attainment of the organization goal. I would like to prove myself as one of the successful and responsible Teacher by contributing my efforts to the development of the organization.

## Academic Qualification

### 2019 | Ph.D. (CHEMISTRY)

DEPARTMENT OF CHEMISTRY

SHIVAJI UNIVERSITY, KOLHAPUR (M.S.)

### 2011 | Bachelor of Science in Chemistry (60.04 %)

VIVEKANANDA, COLLEGE KOLHAPUR  
SHIVAJI UNIVERSITY KOLHAPUR, (M.S.)

### 2006 | Secondary School Certificate (74.00 %)

JAWAHAR HIGH SCHOOL, NILPAN  
PUNE, BOARD

### 2013 | M.Sc. in Applied Chemistry (65.20%)

DEPARTMENT OF CHEMISTRY

SHIVAJI UNIVERSITY, KOLHAPUR (M.S.)

### 2008 | Higher Secondary Certificate (52.83 %)

DUDH-SAKHAR VIDYANIKETAN, BIDRI  
PUNE, BOARD

Total Publications 26

Citations 666

h-index 13

i10-index 16

## Work Experience

13<sup>th</sup> Nov. 2021  
to  
Till Date...

**Designation-** Assistant Professor, (Temporary) Department of Chemistry, Shivaji University, Kolhapur. (MS), India. (Involved in teaching of advance instrumentation techniques and conducted inorganic section practicals of M.Sc. students)

1<sup>st</sup> Aug. 2019  
to  
30<sup>th</sup> Aug. 2021

**Designation-** Assistant Professor, (Temporary) Department of Chemistry, K. H. College Gargoti, Kolhapur, (MS), India. (Involved in teaching of Inorganic Chemistry and conducted Inorganic practicals of B.Sc. students)

1<sup>st</sup> July 2016  
to  
30<sup>th</sup> April 2018

**Designation-** Contributory Teacher, (Applied Chemistry) Department of Chemistry, Shivaji University, Kolhapur, MS, India. (Involved in teaching of Instrumentation techniques and conducted inorganic practicals of M.Sc. students)

1<sup>st</sup> July 2014  
to  
30<sup>th</sup> April 2016

**Designation-** Contributory Teacher, (Industrial Chemistry) Department of Chemistry, Shivaji University, Kolhapur, (MS), India. (Involved in teaching of spectroscopic techniques and conducted inorganic section practicals of M.Sc. students)

**Awards/Honors**

- ✓ Listed in 'AD Scientific Index' under Shivaji University region in year 2022-2023 and 2023-24.
- ✓ **Awarded First rank Oral Presentation** in Innovative Research in Chemical Sciences (IRCS-2017) Organised by Department of Chemistry, Shivaji University, Kolhapur.
- ✓ **Awarded Golden Jubilee Fellowship** from Shivaji University, Kolhapur.

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<b>RESEARCH WORK</b>	<b>Thesis title</b>	<b>"Designing and characterization of sensitized-metal oxide based photo electrodes for solar energy harvesting"</b>
	<b>Duration</b>	<b>June, 2015 to June, 2019</b>
	<b>Ph.D. Supervisor</b>	Prof. (Dr.) S. D. Delekar
	<b>Submission</b>	Department of Chemistry, Shivaji University Kolhapur, Maharashtra, India

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**Patents**

- 1) Dr. K. V. More, Dr. S. D. Delekar. **Apparatus for preparation of binder free thin film of quantum dot solar devices**, UK Design (**Granted**) *Design number: 6373091*
- 2) Dr. T. D. Dongale, Dr. G. S. Nhivekar, Dr. K. V. More, Dr. M. S. Nimbalkar, Dr. R. K. Kamat, "Device for Analyzing Oil Content in Aromatic Plants". (**Granted**) *Indian Patent File No: 367486-001*
- 3) Dr. S. J. Kadam, Mr. J. G. Shinde, Dr. T. D. Dongale, Dr. V. R. Ghorpade, Dr. S. S. Chavan, Dr. K. V. More, "Design of Fuel Filter". (**Granted**) *Indian Patent File No: 384769-001*
- 4) Mr. S. R. Jagdale, Mr. M. S. Rao, Dr. K. V. More, Dr. T. D. Dongale, Dr. R. K. Kamat, "Design of Micromanipulator". (**Granted**) *Design number: 6346244 ,*
- 5) K.V. More, D.A. Kumbhar, P.A. Koyale, S.J. Kadam, T.D. Dongale, A.G. Dhodamani, S.D. Delekar, **A system For synthesizing  $Ti_{1-x}Fe_xO_{2-\delta}$  Photoelectrodes co-sensitized with CdS QDs-N719 dye sensitized solar cell**, (**Granted**)
- 6) K.V. More, M. P. Desai, **Add on Certificate Course Industry Readiness & Instrumentation Skills, Indian Copyright- LD- 29988/2025-CO, (Granted)**

#### Research Publications

- 1) **TiO<sub>2</sub> vs. ZnO Nanoparticles: A Comparative Study on the Effects of Doping and Surface Treatment on Dye-Sensitized Solar Cell Efficiency.** K.V. More, T.D. Dongale, C. S. Bagade, S. D. Delekar Submitted to *Research on Chemical Intermediates*, 2025.
- 2) **CdS Quantum Dots Induced Surface Modification of ZnO Nanorods for Dye Sensitized Solar Cell,** K.V. More, T.D. Dongale, P.P. Patil, R. K. Kamat, S. J. Kadam, P. S. Pawar, S. D. Delekar. *J. Mat. Sci. Apl. Eng.* 2024
- 3) **Electrical and Electrochemical Investigations on Copper Oxide-Based Monolayer and Bilayer Memristive Devices,** S. S Kundale, A. N Kurade, D. S Shivade, R. K Bhosale, P. P Patil, S. R Patil, K. A Rokade, K. V More, D. Roy Chowdhury, R. K Kamat, T. D Dongale (**ACS Applied Electronic Materials, 2268-2280, 2024**)
- 4) **CogniFiber: Harnessing Biocompatible and Biodegradable 1D Collagen Nanofibers for Sustainable Nonvolatile Memory and Synaptic Learning Applications,** K.A Rokade, D. D Kumbhar, S. L Patil, S.S Sutar, K. V More, P. B Dandge, R. K Kamat, T. D Dongale, (**Advanced Materials, 2312484, 2024**)
- 5) **Electrochemical synthesis and functional analysis of self-assembled Au-decorated polypyrrole for non-volatile memory and bio-inspired computing,** R. K Bhosale, S. S Kundale, A. R Shelake, H. L Lokhande, K. A Rokade, A. N Kurade, D.S Shivade, K. V More, S. S Sutar, R.K Kamat, T. D Dongale, (**Organic Electronics, 107013, 2024**)
- 6) **Self-Assembled Lanthanum Oxide Nanoflakes by Electrodeposition Technique for Resistive Switching Memory and Artificial Synaptic Devices,** P. P. Patil, S. S Kundale, S.V Patil, S.S Sutar, J. Bae, S.J Kadam, K. V More, P. B Patil, R. K Kamat, S. Lee, T. D Dongale, (**Small, Wiley Publication, 2303862, 2023**)

7) Precursor-dependent resistive switching properties of nanostructured g-C3N4: statistical and experimental investigations, S.L. Patil, R.S. Redekar, O.Y. Pawar, S.S. Kundale, S.S. Sutar, **K.V. More**, V.D. Chavan, Deok-kee Kim, T.D. Dongale, N.L. Tarwal, (**J. Mater. Sci. Mater. Electron.**,34 (2), 155, 2023)

8) Electrospun 1D TiO<sub>2</sub> Nanofibers for Dye-Sensitized Solar Cell Application, S. J, Kadam, **K. V. More**, S. S. Chavan, T. D. Dongale, S. M. Shendokar, (**Mat. Today:Pro.**, 2022)

9) Compositional Dependent Enhanced Physicochemical and Photovoltaic Studies of Nanocrystalline Ti<sub>1-x</sub>Fe<sub>x</sub>O<sub>2-δ</sub> Photoelectrodes Co-Sensitized with Cds QDs-N719 Dye  
**K. V. More**, A. G. Dhodamani, T. D. Dongale, D. K. Panda, S. D. Delekar, (**JOSSE**, 2022, 1-10)

10) Synergistics of Cr (III) doping in TiO<sub>2</sub>/MWCNTs nanocomposites: Their enhanced physicochemical properties in relation to photovoltaic studies A. G. Dhodamani, **K. V. More**, S. M. Patil, A.R. Shelke, S. K. Shinde, Dae-Youg Kim, S. D. Delekar, (**Solar Energy** 201, 398-408, 2020)

11) Structural Refinement and Optoelectronic Properties of (Mo<sub>x</sub>Ti<sub>1-2x</sub>O<sub>2-δ</sub>)<sub>1-y</sub>(RGO)<sub>y</sub> Nanocomposites and Their Photovoltaic Studies with Natural Pigments as A. G. Dhodamani, **K. V. More**, S. B. Mullani, S. P. Deshmukh, V. B. Koli, D. K. Panda, (**Chem.Select** 5 (1), 218-230, 2020)

12) Interfacially Interactive Ternary Silver-Supported Polyaniline/Multiwalled Carbon Nanotube Nanocomposites for Catalytic and Antibacterial Activity S. P. Deshmukh, A. G. Dhodamani, S. M. Patil, S. B. Mullani, **K. V. More**, (**ACS omega** 5 (1), 219-227, 2020)

13) Noncovalent interactions based self-assembled bichromophoric sensitizer for dye-sensitized solar cells S. D. Delekar, **K. V. More**, A. G. Dhodamani, K. Maity, SFA. Acquah, N. Dalal. (**Journal of Solid State Electrochemistry** 23 (4), 1099-1107, 2019)

14) Sulfated TiO<sub>2</sub>/WO<sub>3</sub> nanocomposite: An efficient photocatalyst for degradation of Congo red and methyl red dyes under visible light irradiation, SM Patil, SP Deshmukh, **KV More**, VB Shevale, SB Mullani, AG Dhodamani, SD Delekar, (**Materials Chemistry and Physics**, 247-255, 2019)

15) Compositional Dependent Physicochemical and Photovoltaic Properties of the (TiO<sub>2</sub>)<sub>1-x</sub>(RGO)<sub>x</sub> Nanocomposites for Sensitized Solar Cells Using Ru(II) Dyes A. G. Dhodamani, **K. V. More**, V. B. Koli, A. R. Shelke, N. G. Deshpande, D. K. Panda, (**Chemistry Select**, 4 (3), 1055-1068, 2018)

16) DC, AC, and Transient Simulation Study of MEMS Cantilever, SS Khot, AA Patil, VN Mokashi, PP Waifalkar, **KV More**, RK Kamat, TD Dongale, (**JOURNAL OF NANO- AND ELECTRONIC PHYSICS**, Vol. 11 No 2, 02015(4pp) (2019))

17) Shape Dependent Optical Properties of GaAs Quantum Dot: A Simulation Study, KD Kadam, SL Patil, HS Patil, PP Waifalkar, **KV More**, RK Kamat, TD Dongale, (**JOURNAL OF NANO- AND ELECTRONIC PHYSICS**, Vol. 11 No 1, 01013(4pp) (2019))

18) Simulation study of field-effect transistor based cylindrical silicon nanowire biosensor: effect of length and radius of the nanowire, AV Pawar, SS Kanapally, AP Chougule, PP Waifalkar, **KV More**, RK Kamat, TD Dongale, (**JOURNAL OF NANO- AND ELECTRONIC PHYSICS**, Vol. 11 No 1, 01005(5pp) 2019)

19) Structural and Optical Properties of Nanocrystalline TiO<sub>2</sub> with Multiwalled Carbon Nanotubes and Its Photovoltaic Studies Using Ru(II) Sensitizers S. D. Delekar, A. G. Dhodamani, **K. V. More** ... (**ACS, Omega** 3, 2743-2756, 2019)

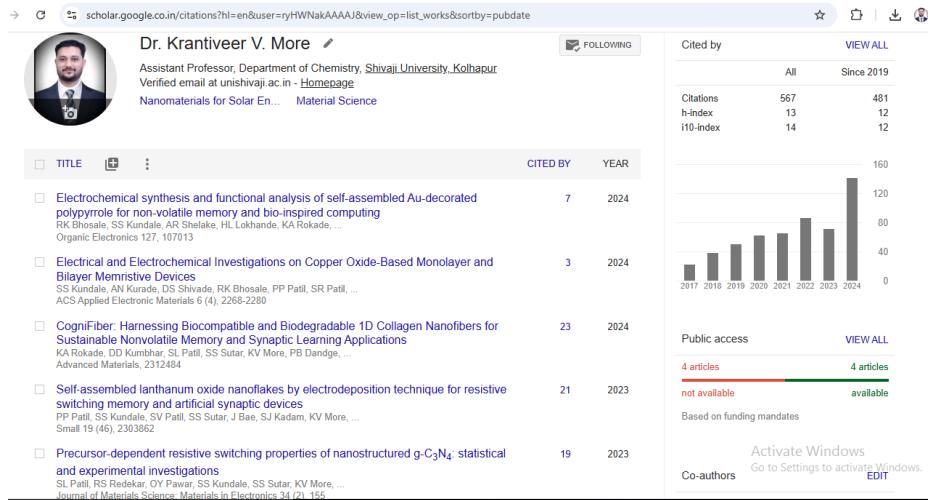
20) Molecular self-assembled designing and characterization of TiO<sub>2</sub> NPs-CdS QDs-dye composite for materials, S. D. Delekar, **K. V. More**, A. G. Dhodamani, S. M. Patil, T. D. Dongale, K. Maity, N. Dalal, (**Materials Characterization** 139, 337-346, 2018)

21) A simple strategy for the anchoring of anatase titania on multi-walled carbon nanotubes for solar energy harvesting, V. B. Koli, A. G. Dhodamani, **K. V. More**, S. FA Acquah, D. K. Panda, S.H. Pawar, S. D. Delekar (**Solar Energy**, 149, 188-194, 2017)

22) Different Strategies for Modification of Titanium Dioxide as Heterogeneous Catalyst in Chemical Transformations, S. M. Patil, S. P. Deshmukh, A. G. Dhodamani, **K. V. More**, S. D. Delekar (**Current Organic Chemistry** 21 (9), 821-833, 2017)

## Google Scholar profile

[https://scholar.google.co.in/citations?view\\_op=list\\_works&hl=en&hl=en&user=ryHWNakAAAAJ&sortby=pubdate](https://scholar.google.co.in/citations?view_op=list_works&hl=en&hl=en&user=ryHWNakAAAAJ&sortby=pubdate)



## Participated In Workshops / Conference

<b>October 17<sup>th</sup> -23<sup>rd</sup> 2022</b>	Participated in Seven Day Workshop on 'Synergistic Training Program Utilizing the Scientific and Technological Infrastructure, (STUTI)' organized by CIF, Pondicherry University, Pondicherry, India.
<b>Jan, 4<sup>th</sup> to 5<sup>th</sup> 2022</b>	Participated in Workshop & hands-on training on BIO-ATOMIC FORCE MICROSCOPY (BIO-AFM) organized by SAIF (CFC), Shivaji University, Kolhapur held during 04-05 Jan, 2022
<b>Jan, 30<sup>th</sup> 2018</b>	Participated in One Day Workshop on 'Scientific Writing' Organized by Research Colloquium Activity, Shivaji University, Kolhapur, MS, India.
<b>March, 26<sup>th</sup> to 27<sup>th</sup> 2018</b>	Participated in One Day Workshop on "Solution from synthesis to Characterization" organized by School of Nanoscience and Technology at Shivaji University, Kolhapur.
<b>March 10<sup>th</sup>, 2018</b>	Participated in One Day Workshop on Intellectual Property Rights (IPR) Organized by IPR Cell, Shivaji University, Kolhapur, MS, India.
<b>Feb, 1<sup>st</sup> -3<sup>rd</sup> 2018</b>	Participated in International Conference on Advances in Chemical Sciences (IC ACS 2018) organized by Department of Chemistry, Shivaji University, Kolhapur, MS, India.
<b>May, 25<sup>th</sup> -27<sup>th</sup> 2017</b>	National Workshop on Theory and Practice of X-ray Diffraction Techniques Organized by Alagappa Chettiar College of Engineering and Technology, Karaikudi 630 003 (TN) India.
<b>Feb, 1<sup>st</sup> -2<sup>nd</sup> 2017</b>	National Conference on Innovative Research in Chemical Science (IRCS-2017) Organized by Department of Chemistry, Shivaji University, Kolhapur 416 404 (MS) India.
<b>Feb, 20<sup>th</sup> 2016</b>	National Seminar on Application of Chemical and Material Science for Sustainable Development Organized by Department of Chemistry, Shivaji University, Kolhapur 416 004 (MS) India.
<b>March, 10<sup>th</sup> 2015</b>	International Conference on Emerging Trends in Basic and Applied Sciences (ETBAS-2015) Organized by Karmveer Hire Arts, Science, Commerce & Education College, Gargoti, Dist. Kolhapur-416209 (MS) India.
<b>Jan, 2014</b>	National Symposium on Current Trends in Chemical and Nano sciences (CTCNS-2014), January Organized by Department of Chemistry, Shivaji University, Kolhapur 416 404 (MS) India.

**Software &  
Computer  
Skills**

- ✓ Operating Systems: Windows, XP, Win7, Win8.1
- ✓ Sound knowledge of computer Hardware and Software.
- ✓ Software's: Microsoft Office 2010, Origin8, PCPDFWIN, Endnote\_X4, Mendeley.

**References**

*Prof. (Dr.) S. D. Delekar*

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

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**Personal  
Profile**

**Name** **Dr. KRANTIVEER VILAS MORE**

**Date of Birth** December, 11<sup>th</sup> 1990

**Gender** Male

**Marital status** Married

**Languages known** English, Marathi, Hindi

**Corresponding  
Address** Department of Chemistry,

Shivaji University, Kolhapur-416 209 (MS), India.

**Declaration**

I hereby declare that all the above facts are true to best of my knowledge.

Date :

Place : Kolhapur

**Dr. KRANTIVEER VILAS MORE**