

## CURRICULUM VITAE



**Dr. Prashant B. Koli**

**(Assistant Professor (Chemistry))**

**(M. Sc. (Inorganic Chemistry SET, Ph.D.))**

**Department of Chemistry,  
MVP'S Arts, Commerce and Science College,  
Satana, Nashik, MS, India, Pin-423301**

**Objective:** To work in the institution where I can make best use of my experience, talent and expand my skills besides enhancing my knowledge while being resourceful, innovative & flexible.

Details	
Full Name	Dr. Prashant Bhimrao Koli
Designation	Assistant Professor in Chemistry Department of Chemistry, MVP'S Arts, Commerce and Science College, Satana, Nashik, MS, India, Pin-423106
Date of Birth	05.10.1983
Academic Qualification	M.Sc., Inorganic Chemistry, SET, Ph.D.
Teaching Experience	12 years teaching experience ( UG and PG)
Work experience on various Committees	<ul style="list-style-type: none"><li>❖ IQAC Co-ordinator, ACS college Satana(2022)</li><li>❖ ARC Co-ordinator, ACS college Satana(2022)</li><li>❖ Science Association co-ordinator ACS College, Satana.(2021-22)</li><li>❖ Placement officer, ACS college, Nandgaon(2019-2020)</li><li>❖ IQAC Co-ordinator, ACS college Nandgaon(2020)</li></ul>

	<ul style="list-style-type: none"> <li>❖ Member of planning board at ACS ,College ,Nandgaon</li> <li>❖ Co-ordinator for UGC proposal and grant utilization committee, ACS ACS college, Nandgaon (2020)</li> </ul>
<b>Ph.D.</b>	<b>Synthesis, Characterization of doped semiconducting nanomaterials and their applications in gas sensing and effluent treatment</b>
<b>Patent (Indian)</b>	<b>Reported synthesis of novel molecule <math>Mn_2CeO_6</math> nanoparticles, Application number: 201921032508 A, date of filing patent: 10.08.2019, Date of publication : 08.11.2019</b>
<b>Achievements</b>	<ul style="list-style-type: none"> <li>❖ Stood second in M.Sc. [Inorganic Chemistry] Kavayitri Bahinabai Chaudhari north Maharashtra university, Jalgaon in the year 2008</li> <li>❖ Cleared SET Examination in September 2015</li> <li>❖ Completed Ph.D. from KBC-NMU, Jalgaon – 7 April 2021</li> </ul>
<b>Instrument Handling</b>	<ul style="list-style-type: none"> <li>❖ UV –Spectrophotometer (Shimadzu)</li> <li>❖ FT –IR (THERMO 2000)</li> <li>❖ Gas Chromatograph (Shimadzu)</li> <li>❖ Flame Emission Spectrophotometer ( Systronics)</li> </ul>
<b>Resource Person and examination</b>	<ul style="list-style-type: none"> <li>❖ Deliver lecture as a resource person for UG Chemistry students on 7 april-2022</li> <li>❖ Deliver lecture as a resource person in the SET/NET WORKSHOP conducted by LVH College, Nashik. 24 August 2021</li> <li>❖ Deliver lecture as a resource person in the SET/NET WORKSHOP conducted by KBC-NMU, Jalgaon. 21 July 2021</li> <li>❖ Delivered lecture as a resource person in the SET/NET WORKSHOP conducted by Arts, Science and Commerce College, Nandurbar</li> <li>❖ Delivered lecture as a resource person in the SET/NET WORKSHOP conducted by Arts, Science and Commerce College,Nashik</li> <li>❖ Delivered lecture as a resource person in the SET/NET WORKSHOP conducted by Arts, Science and Commerce College, Manmad</li> <li>❖ Delivered lecture as a resource person for PG students ( M.Sc. Inorganic Chemistry) at Arts, Science and Commerce College, Saikheda</li> <li>❖ Delivered lecture as a resource person in the SET/NET <b>ONLINE WORKSHOP</b> conducted by Arts, Science and Commerce College, Manmad</li> <li>❖ Worked as a Paper Setter for M.Sc. I Chemistry ( Chemistry Paper II ) at Sandip University , Nashik</li> <li>❖ Worked as a Paper Setter for M.Sc. II Chemistry ( Chemistry Paper II ) at Sandip University , Nashik</li> </ul>

	<ul style="list-style-type: none"> <li>❖ Worked as a Paper Setter for F.Y.B.Sc Chemistry ( Chemistry Paper II ) at Sandip University , Nashik</li> <li>❖ Delivered the lecture for XIIth Chemistry student under MGVS pattern at L.V.H.College, Panchavati, Nashik, on 9/10/2017.</li> </ul>
<p><b>Reviewer for International journals</b></p>	<ul style="list-style-type: none"> <li>❖ Reviewer for journal, Journal of Optics, (Springer publications), I.F. 2.5 , September 2022</li> <li>❖ Reviewer for journal, Material today proceedings (Cite score 2.3, Elsevier Publications)</li> <li>❖ Reviewer for journal, Journal of New journal of chemistry (NJC) Royal society of Chemistry (RSC) Aug-2022</li> <li>❖ Reviewer for journal, Journal of Magnetism and magnetic materials (I.F. 2.7, Elsevier Publications)</li> <li>❖ Reviewer for journal of physics and chemistry of solids (Elsevier Publications) ISSN: 0022-3697 (SCI Journal with impact factor 2.14)</li> <li>❖ Reviewer for journal of Biomass and valorization (Springer publications) ISSN: 1877-265X, IF.2.8 (2020)</li> <li>❖ Reviewer of Journal Material Science Research India (MSRI, ISSN 2394-0565 online), an international peer reviewed journal.</li> <li>❖ Reviewer of Journal Global Research and Development journals (GRD ISSN 2455-5703 online)</li> <li>❖ Active Member and Reviewer of International journal of creative research Thoughts (IJCRT, ISSN:2320-2882), an international peer reviewed journal.</li> <li>❖ Reviewer for International journal of Physical and Chemical Sciences. (IJCPS, ISSN 2319-6602),an international peer reviewed journal.</li> <li>❖ Journal Bioscience biotechnology research Asia. (BBRA, ISSN 2394-0565 online)</li> </ul>
<p><b>Conference and seminar attended</b></p>	<ul style="list-style-type: none"> <li>❖ Attended International conference on “International material science conference (IMSC) 18-20 March-2021</li> <li>❖ Attended national webinar on “AQAR guidelines and submission” on 7 November 2020 organized by MGVS ASC college, Manmad.</li> <li>❖ Attended state level Conference on Innovative Applications of nanomaterials in science and technology, held at ACS College, Nandgaon, Nashik. (24-25 jan.2020)</li> <li>❖ Attended state level Conference on Applications of nanomaterials held at ACS College, Karanjali, Nashik, 14-15 jan.2020)</li> </ul>

	<ul style="list-style-type: none"> <li>❖ Attended the revision of syllabus (CBCS), S.Y.B.Sc. at MVPS, SVKT college, Nashik (25 Feb.2020)</li> <li>❖ Attended workshop on IQAC at KTHM college, Nashik on 3 feb.2020</li> <li>❖ Presented Research paper on Nanosized semiconducting stannous oxide thick films gas sensors for some selective oxidizing &amp; reducing gases at International Conference on Innovations in nanomaterials and their applications(ICINA 2018) held at L.V.H.College, Panchavati, Nashik.(18-20 jan.2018)</li> <li>❖ Attended State Level seminar on Applications of material Science at HPT Arts and RYK Science college, Nashik on 03 February 2018</li> <li>❖ Attended one day workshop on “Advances in Chromatography and Spectroscopy” Held at K.K.Wagh college of Agriculture, Nashik on 13 January 2018</li> <li>❖ Attended a National Conference Emerging Trends in Chemistry and Nanoscience (ETCN-2017) held at Loknete Vyankatrao Hiray Arts, Science and Commerce College, Panchavati, Nashik on 20-21 January 2017</li> <li>❖ Presented Research paper on “Synthesis characterization and Gas sensitivity Performance of LaCrO<sub>3</sub> Thick films in presence of Ethanol Atmosphere” at International Conference on Pure and Applied Sciences 2016 (ICPAS-2016) held at MSG Arts, Science and Commerce College, Malegaon on 12-14 December 2016.</li> <li>❖ Attended International conference at S.N.Arts, D.J.Malpani Commerce and B.N.Sarda Science College Sangamner on “Recent Trends in Chemical and Environmental Sciences”, held on 12<sup>th</sup> and 13<sup>th</sup> February 2016</li> <li>❖ Attended National conference at G.T.Patil Arts, Commerce and Science College, Nandurbar on “Chemical Synthesis of Nanomaterials and their Applications in Environment” held on 8-9 February 2016</li> </ul>
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### Publications

S.N	Title of Research Paper	Journal Name	Month and Year of publication/ Communication
1	Ferroso-Ferric oxide (Fe <sub>3</sub> O <sub>4</sub> ) embedded g-C <sub>3</sub> N <sub>4</sub> nanocomposite sensor material fabricated by photolithographic technique for environmental, industrial pollutant gas sensing and humidity sensing characteristics	Inorganic chemistry communication (I.F.3.4) Elsevier Publications	Communicated ( July-2022)

2	The augmentation of nanotechnology era: A concise review on fundamental concepts of nanotechnology and applications in material science and technology	Results in Chemistry	<b>Communicated ( July-2022)</b>
3	Exploration of photocatalytic performance of TiO <sub>2</sub> , Ni-doped TiO <sub>2</sub> , and Fe-doped TiO <sub>2</sub> for degradation of eosine blue dye: comparative study	Results in Chemistry	<b>August- 2022</b>
4	Fe <sup>3+</sup> modified zinc oxide nanomaterial as an efficient, multifaceted material for photocatalytic degradation of MB dye and ethanol gas sensor as part of environmental rectification	Inorganic chemistry communication (I.F.3.4) Elsevier Publications	<b>June-2022</b>
5	Designing of LaCrO <sub>3</sub> – TiO <sub>2</sub> nanocomposites p: n heterojunction-based sensor material for the selective detection of volatile petrol vapors (PV) and CO <sub>2</sub> gas vapors	Journal of the Indian chemical society (I.F. 0.243) Elsevier Publications	<b>March -2022</b>
6	Synthesis and Characterization of ZnO/CuO Nanocomposites as an Effective Photocatalyst and Gas Sensor for Environmental Remediation	Journal of Inorganic and Organometallic Polymers and Materials	<b>November-2021</b>
7	Transition metal incorporated, modified bismuth oxide (Bi <sub>2</sub> O <sub>3</sub> ) nano photo catalyst for deterioration of Rosaniline hydrochloride dye as resource for environmental rehabilitation	Journal of the Indian chemical society (I.F. 0.243) Elsevier Publications	<b>November-2021</b>
8	Enhanced Photocatalytic Activity of Two Dimensional Graphitic carbon nitride: C <sub>3</sub> N <sub>4</sub> @Co <sub>3</sub> O <sub>4</sub> Core shell nanocomposite for Discriminatory Organic transformation of CF dye under Hg-vapor reactor	Material science research India (Enviro reerach Pub.) ISSN: 0973-3469	<b>September -2021</b>
9	Microwave prompted solvent-free synthesis of new series of heterocyclic tagged 7-arylidene indanone hybrids and their	<b>Bioorganic Chemistry</b> ( Elsevier: I.F. 5.4) ISSN 0045-2068	<b>(August -2021)</b>

	computational, antifungal, antioxidant, and cytotoxicity study		
<b>10</b>	Transition metals Fe <sup>3+</sup> , Ni <sup>2+</sup> modified titanium dioxide (TiO <sub>2</sub> ) film sensors fabricated by CPT method to sense some toxic environmental pollutant gases	Journal of the Indian chemical society ( Elsevier) ISSN : 0019-4522	<b>(August -2021)</b>
<b>11</b>	Design, Fabrication, Antitubercular, Antibacterial, Antifungal and Antioxidant Study of Silver Doped ZnO and CuO Nano Candidates: A Comparative Pharmacological Study	Current Research in Green and Sustainable Chemistry (Elsevier Publications) ISSN : 2666-0865	<b>(July -2021)</b>
<b>12</b>	Stannous Oxide Thick Film Nanosensors Design by Screen Printing Technology: Structural, Electrical Parameters and H <sub>2</sub> S Gas Detection Study	Material science research India (peer reviewed international journal)	<b>March-2021</b>
<b>13</b>	The binary oxide NiO-CuO nanocomposite based thick film sensor for the acute detection of Hydrogen Sulphide gas vapors	Material science research India (peer reviewed international journal)	<b>December-2020</b>
<b>14</b>	Sol-gel fabricated , spin coated Transition metal modified Perovskite LaCrO <sub>3</sub> thin films sensors for perceiving Atmospheric pollutant, greenhouse gases and relative humidity sensing characteristics	Environmental Challenges ( Elsevier) ISSN :2267-0100 I.F. 4.077	<b>February-2021</b>
<b>15</b>	Screen printed constructed modified zinc oxide thick film sensors for the monitoration of environmental and industrial pollutant gases	Oriental journal of chemistry ISSN :2192-8865	<b>December-2020</b>
<b>16</b>	Computational Insights on Molecular Structure, Electronic Properties, and Chemical Reactivity of (E)-3-(4-Chlorophenyl)-1-(2-Hydroxyphenyl)Prop-2-en-1-One	Material science research India (peer reviewed international journal)	<b>July-2020</b>
<b>17</b>	Screen print fabricated In <sup>3+</sup> decorated perovskite lanthanum chromium oxide thick film sensors for selective detection of volatile petrol vapors	Journal of Inorganic and organometallic polymers and materials (JIOPM) I.F. 3.5 (Springer publications)	<b>July-2020</b>
	Sol-Gel Fabricated Transition Metal Cr <sup>3+</sup> , Co <sup>2+</sup> Doped Lanthanum Ferric Oxide (LFO-	Material science research India	<b>April-2020</b>

<b>18</b>	LaFeO <sub>3</sub> )Thin Film Sensors for the Detection of Toxic, Flammable Gases: A Comparative Study	(peer reviewed international journal)	
<b>19</b>	Transition metal decorated Ferrosferric oxide (Fe <sub>3</sub> O <sub>4</sub> ): An expeditious catalyst for photodegradation of Carbol Fuchsin in environmental remediation	Journal of Environmental Chemical Engineering (Elsevier) I.F.4.3, Cite score 6.7 ISSN:2213-3437	<b>August -2019</b>
<b>20</b>	Fabrication of nanocrystalline modified nickel ferrite films as cost effective gas sensors for industrial and environmental gas pollutant detection	Journal of Nanostructure In Chemistry ( Springer) ISSN: 2193-8865 (electronic version)	<b>April-2019</b>
<b>21</b>	Effect of firing temperature on structural and electrical parameters of synthesized CeO <sub>2</sub> thick films	SN Applied Sciences (Springer) ISSN: 2523-3971(electronic version)	<b>7 March-2019</b>
<b>22</b>	Exploration of catalytic performance of nano-La <sub>2</sub> O <sub>3</sub> as an efficient catalyst for dihydropyrimidinone/thione synthesis and gas sensing	Journal of Nanostructure In Chemistry ( Springer) ISSN: 2193-8865 (electronic version)	<b>February-2019</b>
<b>23</b>	Fabrication, Characterization of Pure And Modified Co <sub>3</sub> O <sub>4</sub> Nanocatalyst And Their Application For Photocatalytic Degradation Of Eosine Blue Dye: A Comparative Study	Journal of Nanostructure In Chemistry ( Springer) ISSN: 2193-8865 (electronic version)	<b>26 November 2018</b>
<b>24</b>	Study of Physico-chemical Properties, detection and Toxicity study of organic compounds from effluent of MIDC Thane and GIDC Ankleshwar Industrial Zone	Applied water Science ( Springer) ISSN: 2190-5495	<b>02 Oct -2018</b>
<b>25</b>	Antibacterial potential of silver nanoparticles synthesized using <i>Madhuca Longifolia</i> as a green resource	Microbial Pathogenesis ELSEVIER, Impact factor :2.3 ISSN: 0882-4010	<b>May -2018</b>
<b>26</b>	Nanosized semiconducting Stannous oxide thick films gas sensors for some selective oxidizing & reducing gases	Researchers World - International Refereed Research Journal ISSN 2231-4172	<b>Mar-2018</b>
<b>27</b>	Sensing behavior of screen printed nanocrystalline copper oxide thick films in presence of H <sub>2</sub> S atmosphere	Researchers World - International Refereed Research Journal ISSN 2231-4172	<b>Mar-2018</b>
<b>28</b>	Synthesis and Characterization of LaCrO <sub>3</sub> doped with Y by sol-gel method.	Researchers World - International Refereed Research Journal ISSN 2231-4172	<b>Mar-2018</b>

<b>29</b>	Methanol Gas Sensing Properties of Perovskite LaFeO <sub>3</sub> Nanoparticles Doped by Transition Metals Cr <sup>3+</sup> and Co <sup>2+</sup>	Pharmaceutical Research ( JOCPR) ISSN : 0975-7384	<b>Feb - 2017</b>
<b>30</b>	Synthesis, characterization and gas sensitivity performance of LaCrO <sub>3</sub> thick films in presence of ethanol atmosphere	Researchers World - International Refereed Research Journal ISSN 2231-4172	<b>Dec-2016</b>
<b>31</b>	Synthesis, characterization and gas sensing properties Co <sub>3</sub> O <sub>4</sub> and NiO nanoparticles by thick films fabrication	International Journal of Research in Engineering and Applied Sciences(IJREAS), ISSN :2249-3905	<b>Dec-2016</b>
<b>32</b>	Synthesis of Nanocomposites zinc and cobalt ferrite- polyaniline by polymerization method, their characterization and bio assay.	World Journal of Pharmaceutical Research(WJPR) ISSN 2277- 7105	<b>Sept-2016</b>
<b>33</b>	Green synthesis and characterization of SnO <sub>2</sub> and ZnO nanoparticles: Study their electrical conductivity and gas sensing properties	Der Chemica Sinica ( Pelagia Research Library) ISSN: 0976-8505	<b>Feb-2016</b>
<b>34</b>	Heavy metals analysis Study by EDS from Ayurvedic antacids drugs	International Journal of Research in Engineering and Applied Sciences(IJREAS) ISSN :2249-3905	<b>August -2015</b>
<b>35</b>	Estimation of metals like Zn, Ni, Cd, & Fe from "TOBACCO" (1) AND "PANMASALA" (2) by spectral analysis: A review	International Journal Of Current Research (IJCR) ISSN: 0975- 833X	<b>June -2015</b>
<b>36</b>	Synthesis, Characterization& Antimicrobial Activity of Mixed Metal Oxides of Iron Cobalt Nickel and Zinc.	International Journal of Chemical and Physical Sciences ( IJCPS) ISSN:2319-6602	<b>January -2015</b>

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