# CURRICULUM-VITAE

**1. Name** : **DR. PANKAJ KUMAR CHAURASIA**
Assistant Professor

**2. Date of birth** : 28-07-1987
**3. Father's Name** : SHRI HARI NARAYAN CHAURASIA
**4. Sex** : Male
**5. Nationality** : Indian
**6. Address** : PG Department of Chemistry, LS College, Muzaffarpur-842001, Bihar (India)

**8. E-mail** : pankaj.chaurasia31@gmail.com;
pankaj.chaurasia1987@rediffmail.com
**9. Contact No.** : 9264965705

10. **ACADEMIC QUALIFICATIONS**

| Name of Examination | Board/University | Year of Passing | Subjects Studied | Percentage of Marks |
|---|---|---|---|---|
| **Ph.D.** | Department of Chemistry, DDU Gorakhpur University, Gorakhpur | 2014 | **Chemistry** Topic of research for **Ph.D.** "Studies on a few fungal laccases and their roles in transformations of organic compounds" | NA |
| **M. Sc.** | D.D.U.GKP. University Gorakhpur | 2009 | Chemistry (Organic Chemistry) | 79.89 |
| **B. Sc.** | D.D.U.GKP. University Gorakhpur | 2007 | Chemistry, Zoology, Botany | 70.50 |
| **Intermediate** | U.P. Board Allahabad | 2004 | Physics, Chemistry, Biology, General Hindi and English | 78.60 |
| **High School** | U.P. Board Allahabad | 2002 | Science group | 68.17 |
| **JRF (NET)** | CSIR New Delhi | Jan 6, 2010 | **Chemistry** Topic of research for Ph.D. | NA |

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|---|---|---|---|---|
| | | to<br>Jan. 31,<br>2012 | "Studies on a few fungal laccases and their roles in transformations of organic compounds" | |
| **SRF(NET)** | CSIR<br>New Delhi | Feb 01,<br>2012<br>to<br>Cont. | **Chemistry**<br>Topic of research for Ph.D.<br>"Studies on a few fungal laccases and their roles in transformations of organic compounds" | NA |

**DOCTOR OF PHILOSPHY (Ph.D.)**

**Title of the thesis:** Studies on a few fungal laccases and their roles in transformations of organic compounds.
**University**: DDU Gorakhpur University, Gorakhpur
**Supervisor:**Prof. SudhaYadava
**Year of passing: 2014**

**RESEARCH and TEACHING EXPERIENCE**

**Guest Faculty**: University of Allahabad (Central University)
August 02, 2016-April 12, 2017
**CSIR-Research Associate**: Award letter date March 31, 2019
Working place: Motilal Nehru NIT, Allahabad
(13/04/2019 to 19/12/2019)

**Assistant Professor (Permanent):**

**Joining:**BabasahebBhimraoAmbedkarBihar University, Muzaffarpur, Bihar
**Working place:** LS College, Muzaffarpur
**Date of Joining:** 20/12/2017

**REASEARCH FELLOWSHIPS**

**CSIR-JRF (NET)**: Award date:
**CSIR-SRF (NET):** Award date: 01/02/2012
**CSIR-RA:** Award date: 31/03/2017
Joining date: 13/04/2017
Resignation date: 19/12/2017

# LIST OF PUBLICATIONS

## BOOK PUBLISHED (02)

- **Pankaj Kumar Chaurasia (Editor),** ShashilataBharati (Editor)**. Book:** Research Advances in the Fungal World: Culture, Isolation, Identification, Classification, Characterization, Properties and Kinetics, Publisher: **Nova Science Publisher, Inc., USA**. ISBM: 978-1-53617-197-6 (2020).

- ShashiLataBharati and **Pankaj Kumar Chaurasia (Editors).Book:** Research Advancements in Pharmaceutical, Nutritional and Industrial Enzymology. **Publisher**: IGI Global, USA. ISBN: 978-1522552376 (**hardcover**) | ISBN: 9781522552383 (**ebook**). **Pages: 1-549 (2018).**

- **PK Chaurasia**, SL Bharati and S. Yadava. **An Introductory Approach to Enzymes,** ISBN: 978-3-659-59509-7, **LAP Lambert Academic Publishing, Germany(2014).**

## JOURNAL PUBLICATIONS (25) (*corresponding author)

- ChandanaSarma, **Pankaj Kumar Chaurasia***, and ShashiLataBharati.Versatile catalytic applications of manganese(II,III) Schiff base complexes (Review), Russ. J. Gen. Chem., 2019, 89(3), 517-531. DOI: 10.1134/S1070363219030253. ISSN: 1070-3632, IF 0.658 (**SCI** and SCOPUS indexed journal, Pleiades-Springer).

- NiharikaAnand, SudhaYadava, **Pankaj Kumar Chaurasia*** and ShashiLataBharati. Synthesis of a novel manganese (III) porphyrin and its catalytic role in the selective oxidation of aromatic alcohols. Russ. J. Inorg. Chem., 2019, 64(9), 1101-1104. ISSN 0036-0236, IF 0.709 (**SCI** and SCOPUS indexed journal, Pleiades-Springer).

- S.L. Bharati*, C. Sarma, P.J. Hazarika, **P.K. Chaurasia*,** N. Anandand S. Yadava. Novel Mn(III) porphyrins and prospects of their application in catalysis. Russ. J. Inorg. Chem., 2019, 64(3), 335-341. DOI: 10.1134/S0036023619030045,ISSN 0036-0236, IF 0.709 (**SCI** and SCOPUS indexed journal, Pleiades-Springer).

- Manisha Sharma, **Pankaj Kumar Chaurasia*** and SudhaYadava. Synthetic Applications of Crude Laccase from *Abortiporusbiennis* MTCC-1176**, Biotechnology: An Indian Journal, 2017, 13**(4), 1-7.ISSN: 0974-7435, IF 0.89 (Trade Science Inc.).

- **Pankaj K. Chaurasia*,** Shashi L. Bharati and ChandanaSarma**.**Laccases in Pharmaceutical Chemistry: A Comprehensive Appraisal. **Mini-rev. Org. Chem., 2016,** 13, 430-451. DOI:10-2174/1570193X13666161019124854.**ISSN: 1875-6298, IF 1.075 (SCI and SCOPUS indexed journal, Bentham Science).**

- ShashiLataBharati*, **Pankaj Kumar Chaurasia** and SudhaYadava. Synthesis of some novel organometallic $Mn^{III}$-Complexes with porphine and 1,6-diaminohexane. Russ. J. Inorg. Chem. (Physical Methods of Investigation), 2016, 61(2), 232-238. **DOI:** 10.1134/S0036023616020212. ISSN 0036-0236, IF 0.709 (**SCI** and SCOPUS indexed journal, Pleiades-Springer).

- M. Sharma, **P.K. Chaurasia**[*], A. Yadav, R. S. S. Yadav, S. Yadava and KDS Yadav. Purification and characterization of a thermally stable yellow laccase from *Daedaleaflavida* MTCC-145 with higher catalytic performance towards selective synthesis of substituted benzaldehydes. Russ. J. Bioorg. Chem., 2016, 42(1), 59-68. **DOI:** 10.1134/S1068162016010143,ISSN 1068-1620, IF 0.838 (**SCI** expanded and SCOPUS indexed journal, Pleiades-Springer).

- **Pankaj Kumar Chaurasia***, ShashiLataBharati, Sunil Kumar Singh and SudhaYadava. Amination of *p*-hydroquinones by laccase of *Xylariapolymorpha* MTCC-1100. Russ. J. Gen. Chem., 2015, 85(3), 683-685.DOI:10.1134/S1070363215030263. ISSN: 1070-3632, IF 0.658 (**SCI** and SCOPUS indexed journal, Pleiades-Springer).

- **Pankaj Kumar Chaurasia**, ShashiLataBharati*, Sunil Kumar Singh, SudhaYadava. Synthetic applications of purified laccase from *Pleurotussajorcaju* MTCC-141. Russ. J. Gen. Chem.,85(1), 173-175 (2015).DOI:10.1134/S1070363215010302. ISSN: 1070-3632, IF 0.658 (**SCI** and SCOPUS indexed journal, Pleiades-Springer).

- **Pankaj Kumar Chaurasia**, ShashiLataBharati, SudhaYadava, Rama Shanker Singh Yadav*.Purification, characterization and synthetic application of a thermally stable laccase from *Hexagoniatenuis* MTCC-1119, Indian J. Biochem. Biophys., **2015,** 52(1), 60-67. ISSN: 0301-1208, IF 0.385 (**SCI** expanded indexed journal, NISCAIR).

- **Pankaj K. Chaurasia**, Shashi L. Bharati*, Manisha Sharma, Sunil K. Singh, Rama S. S. Yadav and SudhaYadava. Fungal Laccases and their Biotechnological Significances in the Current Perspective: A Review.Curr. Org. Chem., 2015, 19(19),1916-1934. DOI:

10.2174/138527281966615062917523 7. **ISSN: 1385-2728, IF 2.193 (SCI and SCOPUS indexed journal, Bentham Science).**

- **Pankaj Kumar Chaurasia**, Rama S.S. Yadav*, SudhaYadava. Purification and characterization of yellow laccase from *Trameteshirsuta* MTCC-1171 and its application in synthesis of aromatic aldehydes, **Process Biochemistry**, 2014, 49, 1647–1655. DOI: http://dx.doi.org/10.1016/j.procbio.2014.06.016. ISSN: 1359-5113, IF 2.616 (**SCI** and SCOPUS indexed journal, Elsevier).

- **Pankaj Kumar Chaurasia**, SudhaYadava, ShashiLataBharati*, Sunil Kumar Singh, Syntheses of aromatic aldehydes by laccase of *Pleurotusostreatus*MTCC-1801, **Synthetic Communications, 2014,** 44(17), 2535-2544. DOI: 10.1080/00397911.2014.904879. ISSN: 0039-7911, IF 1.377 (**SCI** and SCOPUS indexed journal, Taylor and Francis).

- **Pankaj Kumar Chaurasia***, SudhaYadava, ShashiLataBharati and Sunil Kumar Singh. Syntheses of aromatic aldehydes by laccase without the help of mediators, **Green Chem. Lett. Rev.,** 2014, 7(1), 100–104. DOI:http://dx.doi.org/10.1080/17518253.2014.895869. ISSN: 1751-8253, (**SCI** expanded indexed journal, Taylor and Francis).

- **Pankaj Kumar Chaurasia***, SudhaYadava, ShashiLataBharati, and Sunil Kumar Singh. Selective Oxidation and N-coupling of Amines by Purified Laccase of *Xylariapolymorpha* MTCC-1100.Russ. **J. Bioorg. Chem.,** 2014, 40(4), 455–460. **DOI:** 10.1134/S1068162014040025. ISSN 1068-1620, IF 0.838 (**SCI** expanded and SCOPUS indexed journal, Pleiades-Springer).

- **Pankaj Kumar Chaurasia**, ShashiLataBharati*, Sunil Kumar Singh.Role of Laccase from *Coriolusversicolor* MTCC-138 in Selective Oxidation of Aromatic Methyl Group. Russ. J. Bioorg. Chem., 2014,40(3), 288–292**. DOI:** 10.1134/S1068162014020034.ISSN 1068-1620, IF 0.838 (**SCI** expanded and SCOPUS indexed journal, Pleiades-Springer).

- **P.K. Chaurasia**, R.S.S.Yadav*, S.Yadava. Purification and Characterization of Laccase from *Coriolopsisfloccosa*MTCC-1177 and its use in the selective oxidation of aromatic methyl group to aldehyde without mediators, **Journal of Chemical Sciences, 2013,** 125(6), 1395-1403.ISSN 0974-3626, IF 1.254 (**SCI** expanded and SCOPUS indexed journal, Indian Academy of Sciences-Springer).

- **P.K. Chaurasia**, A. Yadav, R.S.S.Yadav*, S.Yadava. Purification and Characterization of Laccase Secreted by *Phellinuslinteus*MTCC-1175 and its Role in the selective Oxidation of aromatic Methyl group, App. Biochem. Microbiol**.,** 2013, 49(6), 592–599. **DOI:**

10.1134/S0003683813060069. *ISSN 0003-6838*. IF 0.707 (**SCI** expanded and SCOPUS indexed journal, Indian Academy of Sciences-Springer).

- **Pankaj Kumar Chaurasia**, Sunil Kumar Singh, ShashiLataBharati*.Study of peroxidase obtained from *Daucuscarota*(carrot) juice extract, J. App. Chem**.**, 2013, 2(5), 1123-1131. ISSN 2278-1862, IF 1.612 (Indian Citation Index).

- **Pankaj Kumar Chaurasia*,** R. S. S. Yadav and SudhaYadava.Purification, Characterization and Steady State Enzyme Kinetics of Laccase from *Xylariapolymorpha*MTCC-1100, Int. J. Res. Chem. Environ., 2013, 3(2), 93-101**.** ISSN 2248-9649.

- **Pankaj Kumar Chaurasia*,** Rama Shankar Singh Yadav and SudhaYadava.Selective Biotransformation of aromatic methyl groups to aldehyde groups using crude laccase of *Pleurotusostreatus*MTCC-1803*,* Int. J. Res. Chem. Environ.,2013 **3**(1), 188-97**.** ISSN 2248-9649.

- **Pankaj Kumar Chaurasia*,** Rama Shanker Singh Yadav, SudhaYadava. A review on mechanism of laccase action*,* Res. Rev. Biosci**.**,2013, **7**(2), 66-71. ISSN 0974-7532, IF 1.44 (Trade Science Inc.).

- **Pankaj Kumar Chaurasia**, ShashiLataBharati, Sunil Kumar Singh*, Rama S.S. Yadav.A Potential Peroxidase Obtained from the Juice of *Beta vulgaris* (Beet), American J. Food Sci. Technol., 2013, 1(3), 30-35. DOI: 10.12691/ajfst-1-3-4. ISSN: 2333-4827 (SciEP).

- **Pankaj Kumar Chaurasia**, ShashiLataBharati, Sunil Kumar Singh*, Comparative studies on the blue and yellow laccases**,** Research in Plant Sciences, 2013, 1(2), 32-37. DOI: 10.12691/plant-1-2-5. ISSN 2333-8512 (SciEP).

- **Pankaj Kumar Chaurasia*,** Rama Shanker Singh Yadav, SudhaYadava. Application of crude laccase of *Xylariapolymorpha*MTCC-1100 in selective oxidation of aromatic methyl group to aldehyde group, Biochemistry: An Indian journal,2012, 6(7), 237-242**.** IF 0.11, ISSN 0974-7427 (Trade Science Inc.).

**BOOK CHAPTERS PUBLICATIONS (07)**

- **Pankaj Kumar Chaurasia*** and ShashiLataBharati*. Fungi and Their Associated Enzymes **(Chapter 1).** Book Title: Research Advances in the Fungal World: Culture, Isolation, Identification, Classification, Characterization, Properties and Kinetics. ISBN: 978-1-53617-197-6. **Nova Science Publisher, USA**, 2020 (In Production).

- **Pankaj Kumar Chaurasia*** and ShashiLataBharati*. Introductory Approach to the Kinetic Properties of Fungal Laccases**(Chapter 17).** Book Title: Research Advances in the Fungal World: Culture, Isolation, Identification, Classification, Characterization, Properties and Kinetics. ISBN: 978-1-53617-197-6. **Nova Science Publisher**, **USA**, 2020 (In Production).

- **Pankaj Kumar Chaurasia***, ShashilataBharati, Ashutosh Mani. Significances of Fungi in Bioremediation of Contaminated Soil **(Chapter 20)**. Book title: New and Future Developments in Microbial Biotechnology and Bioengineering, ISBN: 978-0-444-64191-5(Editors: Singh, JayShankar, Singh, D.P.), **Elsevier**, 2019. https://doi.org/10.1016/B978-0-444-64191-5.00020-1.

- **Pankaj Kumar Chaurasia**, ShashiLataBharati* and Ashutosh Mani. Enzymatic Treatment of Petroleum based Hydrocarbons **(Chapter 19)**.Editors: VM Pathak&Navneet**. Book:**Microbial Tools and Techniques for Environmental Waste Management, ISBN 9781522535409. **IGI Global Publisher, USA**, 2018, pp 396-408. DOI: 10.4018/978-1-5225-3540-9.ch019**.**

- A. Kushwaha, S. Maurya, R.K. Pathak, S. Agarwal, **P.K. Chaurasia,** M.P. Singh. Laccase From White Rot Fungi Having Significant Role in Food, Pharma, and Other Industries (**Chapter: 11**). Book title:Research Advancements in Pharmaceutical, Nutritional and Industrial Enzymology, ISBN 9781522552376. **IGI Global USA**.DOI: 10.4018/978-1-5225-5237-6.ch011**(2018).**

- S. Agarwal, K.K. Gupta, V.K. Chaturvedi, A. Kushwaha, **P.K. Chaurasia,** M.P. Singh. The Potential Application of Peroxidase Enzyme for the Treatment of Industry Wastes **(Chapter 12).** Book title: Research Advancements in Pharmaceutical, Nutritional and Industrial Enzymology, ISBN 9781522552376. **IGI Global USA**. DOI:10.4018/978-1-5225-5237-6.ch012 **(2018)**.

- **Pankaj Kumar Chaurasia** and ShashiLataBharati*. “Significance of Laccases in Food Chemistry and Related Bioremediation**”** **(Chapter 11).** Editors: Grumezescu AM, HolbanAM. Multi Volume Handbook of Food Bioengineering (Vol. 3: Soft Chemistry and Food Fermentation, ISBN: 978-0-12-811412-4). **ELSEVIER, 2017, pages: 299-335.** DOI:http://dx.doi.org/10.1016/B978-0-12-811412-4.00011-4.

- S. Maurya, **P. K. Chaurasia,** K.K. Gupta, A. Kushwaha, A.K. Bhardwaj and M.P. Singh**.** The effects of nanoparticles on laccase production and its activity **(Chapter 5)**. Editors: Singh MP, Verma V, Singh AK. Incredible World of Biotechnology, ISBN: 978-1-53611-097-5. **Nova Science Publishers**, Inc., N.Y., USA, 2017.Pages 59-66.

- A. Kushwaha, S. Agarwal, K.K. Gupta, S. Maurya, **P.K. Chaurasia***et al.*Laccase enzyme from white rot fungi: An overview and its’ application **(Chapter 3)**. Editors: Singh MP, Verma V, Singh AK. Incredible World of Biotechnology, ISBN: 978-1-53611-097-5. **Nova Science Publishers,** Inc., N.Y., USA, 2017. Pages 25-41.

## FACULTY DEVELOPMENT PROGRAMME

**Title:** Behavioral Remodelling and Research Methodology
**Organized by:**Electronics & ICT Academy, **IIT Guwahati** in association with NERIST, Nirjuli, Itanagar
**Duration:** One week (01-05/04/2019)

## UGC SPONSORED ORIENTATION PROGRAMME

**Place:** DDU Gorakhpur University, Gorakhpur
**Duration:**28 days; 10.11.2018 to 07.12.2018

## SEMINAR/CONFERENCE/ORIENTATION/FACULTY DEVELOP. PROGRAMME

- **Contribution as Jury member** in poster competition on "Chemical Phenomenon in Ozone Layer" organized by Department of Chemistry, NitishwarMahavidyalaya, Muzaffarpur.

- **International Conference (Paper presentation)** on "Emerging Trends in Chemical Sciences" organized by Department of Chemistry, DDU Gorakhpur University, Gorakhpur held on 24-25 February, 2018.

- **National seminar (Paper presentation)** on "Chemistry and Industry" held on August 08, 2014, Venue: Deptt. of Chemistry, DDU Gorakhpur University, Gorakhpur.

- **National conference (Paper presentation)** on "Organic/Inorganic Functional Materials: Current Perspectives" held on March 1-2, 2014, Venue: Deptt. of Chemistry, DDU Gorakhpur University, Gorakhpur.

- **National seminar (Paper presentation) on** "Current Trends in Chemical Education" held on August 8, 2013 Venue: Deptt. of Chemistry, DDU Gorakhpur University, Gorakhpur.

- **First UP Science congress,** Theme: Science for shaping the future of Uttar Pradesh held on March 2-4, 2013 Venue: Deptt. of Chemistry, DDU Gorakhpur University, Gorakhpur.

- **WORKSHOP:** Science Academies Lecture Workshop on "Nanotechnology and its Applications"Jan. 18-20, 2013 Venue: MMM Engineering College, Gorakhpur-273010.

- **National Conference** on "Biotechnology for Sustainable Development" (Nov.15-16, 2011, Venue: Deptt. of Biotechnology, DDU Gorakhpur University, Gorakhpur.

- **National Conference** on "Computational Chemistry-Current Perspectives" March 14-15, 2011. Venue: Deptt. of Chemistry, DDU Gorakhpur University, Gorakhpur.