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### PUBLICATIONS: Research paper and Books

1. Ambika, **Pradeep Pratap Singh**. Carbon Nanocomposites: The Potential Heterogeneous Catalysts For Organic Transformations. **Current Organic Chemistry**, (2021) 24, 332 - 350, ISSN: 1875-5348; **Impact factor: 2.18**; ISSN: 1875-5348.
2. A. Kumar, V.R. Rajpal, Ambika, R. M. Devarumath, A. Kumari, R. Thakur, M. Chaudhary, **Pradeep Pratap Singh**, S. M. S. Chauhan, S. N. Raina, Isolation and HPLC assisted quantification of two iridoid glycoside compounds and molecular DNA fingerprinting in critically endangered medicinal *Picrorhiza kurroa* Royle ex Benth: implications for conservation. **Physiology and Molecular Biology of Plants**, (2021) 27(4):727-746; **Impact factor: 2.391**; ISSN: 0974-0430.
3. **Pradeep Pratap Singh**, Ambika, Cosmetics: A Dark Fantasy And Their Potential Substitutes, **Hans Shodh Sudha**, (2020) 1, 57-67.
4. **Pradeep Pratap Singh**, Ambika, S.M.S. Chauhan. Synthesis of 3,4-dihydropyrimidin-2(1H)- ones derivatives of acid sensitive aldehydes catalyzed by lanthanum nitrate in ionic liquids. **Journal of Materials NanoScience**, (2016) 3(1), 14-16; ISSN: 2394-0867
5. Ambika, **Pradeep Pratap Singh**. Solvent free synthesis of 1,5-benzodiazepines catalyzed by zirconium nitrate. **Advanced Organic Chemistry Letters**, (2016) 3(1), 1-3; ISSN: 2348-1889
6. Ambika, **Pradeep Pratap Singh**, S.M.S. Chauhan. Activity guided isolation of antioxidants from *Terminalia arjuna*. **Natural Product Research (Taylor & Francis)**, (2014) 28, 760-763. **Impact factor: 2.861**; ISSN: 1478-6419.
7. **Pradeep Pratap Singh**, Ambika and S.M.S. Chauhan. Activity guided isolation of antioxidants from the roots of *Rheum emodi*. **Natural Product Research (Taylor & Francis)**, (2013) 27, 946-949. **Impact factor: 2.861**; ISSN: 1478-6419.
8. **Pradeep Pratap Singh**, Ambika and Shive Murat Singh Chauhan. Chemoselective epoxidation of substrate containing both electron rich and electron deficient olefins catalyzed by meso-tetraarylporphyrin iron(III) chlorides in imidazolium ionic liquids. **New Journal of Chemistry (Royal Society of Chemistry)**, (2012) 36, 650-655. **Impact factor: 3.591**; ISSN 1144-0546.
9. **Pradeep Pratap Singh**, Ambika and Shive Murat Singh Chauhan. Activity guided isolation of antioxidant xanthenes from *Swertia chirayita* (Roxb.) H. Karsten (Gentianaceae). **Natural Product Research (Taylor & Francis)**, (2011) 26, 1682-1686. **Impact factor: 2.861**; ISSN 1478-6419.
10. **Pradeep Pratap Singh**, Ambika, S.M.S. Chauhan. Activity guided isolation of antioxidants from the leaves of *Ricinus communis* L. **Food Chemistry (Elsevier)**, (2009) 114, 1069-1072. **Impact factor: 7.514**; ISSN 0308-8146.
11. Ambika, **Pradeep Pratap Singh**, S.M.S. Chauhan. Chemoselective esterification of phenolic acids in the presence of sodium bicarbonate in ionic liquids. **Synthetic Communication (Taylor & Francis)**, (2008) 38, 928-936. **Impact factor: 2.007**; ISSN 1532-2432.
12. Ambika, **Pradeep Pratap Singh**, Satish Chand, Dinesh Kumar Gautam, Rishabh Kumar, Kritika Nagpal, Ritika Verma, Manika Mittal, Nidhi Kaushik, Simaranjeet Kaur, Niyati

Piplani, Shubham Mukherjee, Sonal Gupta and Rajnish Rai. Interaction studies of carbon monoxide and iron porphyrins in ionic liquids. **DU Journal of Undergraduate Research and Innovation**, (2016) 2(1), 13-19; ISSN: 2395-2334.

### CONFERENCE PROCEEDINGS

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2. Akshat Verma, Vinay Gupta, Dileep Kumar Ojha, **Pradeep Pratap Singh** and Ambika. **The "Dark World" of Cosmetics**. Proceedings of National conference on "Role of Analytical Sciences in Sustainable Development". *Journal of Integrated Science & Technology*, (2016) 4(2), S1-S23 (S17), ISSN 2321-4635
3. Ashish Tiwari, Liyaqat Ali Kamran and **Pradeep Pratap Singh**. **Nanomaterials in waste water treatment**. Proceedings of National conference on "Role of Analytical Sciences in Sustainable Development". *Journal of Integrated Science & Technology*, (2016) 4(2), S1- S23 (S17), ISSN 2321-4635.
4. Akshat Verma, Vinay Gupta, **Pradeep Pratap Singh** and Ambika. **Threatening Aspects of Cosmetics**. Proceedings of UGC-Sponsored National Conference In Chemistry on Environment & Harmonious Development (NCC-2016) 7-8<sup>th</sup> April, (2016) ISBN: 9789385824012.
5. Ashish Tiwari, Liyaqat Ali Kamran and **Pradeep Pratap Singh**. **Nanomaterials: Tools for Water Remediation**. Proceedings of UGC-Sponsored National Conference In Chemistry on Environment & Harmonious Development (NCC-2016) 7-8<sup>th</sup> April, (2016) ISBN: 9789385824012.

### BOOK CHAPTER / MONOGRAPHS PUBLISHED IN "EDITED BOOKS

1. **Pradeep Pratap Singh**, Ambika and Maya Verma. *Chapter 3: Recent Advances in Alternative Sources of Energy*, In book entitled "Energy: Crisis, Challenges and Solutions" published by **WILEY**, (2021) **55-71**, ISBN: 9781119741442.
2. Ambika, **Pradeep Pratap Singh**, *Chapter 11: Natural polymers-based hydrogels for adsorption applications in the book entitled "Natural Polymers-based Green Adsorbents for Water Treatment"*, edited by Susheel Kalia, published by **ELSEVIER**, (2021) 267-306. ISBN: 9780128205419.
3. Ambika, **Pradeep Pratap Singh**, *Chapter: Functionalized Magnetic Carbon Nanomaterials For Environmental Remediation*, *Environmental Applications of Carbon Nanomaterials- Based Devices*, edited by Shadpour Mallakpour, Chaudhery Mustansar Hussain, **Wiley-VCH**, (2021), ISBN: 9783527348657.
4. Ambika, **Pradeep Pratap Singh**, *Chapter: Nanocosmetics: Opportunities and Risks*, in the book entitled "**Handbook of Consumer Nanoproducts**" edited by Shadpour Mallakpour, Dr. Chaudhery Mustansar Hussain, **Springer**, (2021), ISBN: 9789811564536.
5. **Pradeep Pratap Singh**, Ambika, *Chapter 15: Carbon based nanocomposites:*

- Preparation and application in environmental pollutants removal, in the book entitled "Environmental Remediation through Carbon Based Nano Composites", Editors: Jawaid, M., Ahmad, A., Ismail, N., Rafatullah, M. (Eds.), published by **Springer Nature, Switzerland AG, Gewerbestrasse 11, 6330 Cham, Switzerland (2021)**, 203-229, [ISBN: 9789811566981](#).
6. Ambika, **Pradeep Pratap Singh**, *Chapter 7*: Advances in Carbon Nanomaterial-Based Green Nanocomposites in the book entitled "Emerging Carbon-Based Nanocomposites for Environmental Applications", published by **Wiley Scrivener Publishing LLC, (2020)** 175-201, [ISBN: 9781119554851](#).
  7. **Pradeep Pratap Singh**, Ambika, *Chapter 4*, Ruthenium Compounds: A New Approach in Nanochemistry, in the book entitled Ruthenium Chemistry, Editors: *Ajay Kumar Mishra, Lallan Mishra*, published by **Pan Stanford Publisher, Singapore, (2018)** 91-110, [ISBN: 9789814774390](#).
  8. **Pradeep Pratap Singh**, Ambika, *Chapter 3*: Nanotechnology: An Emerging Field for Sustainable Water Resources, in the book entitled Nanotechnology for Sustainable Water Resources, published by **Wiley-Scrivener Publishers, USA, (2018)** [ISBN: 9781119323594](#).
  9. **Pradeep Pratap Singh**, Ambika, *Chapter 13*, Biopolymers: Recent trends and their Applications, in the book entitled Biopolymers: Structure, Performance and applications, Editors: AK Mishra, CM Hussain, SB Mishra, published by **Nova Science Publishers, New York, USA, (2017)** 271-286, [ISBN: 9781536118469](#).
  10. **Pradeep Pratap Singh**, Ambika, *Chapter 1*, Recent Trends In Sol-Gel Based Nanoceramics, in the book entitled "Smart Ceramic: Preparation, Properties and Applications", AK Mishra, published by **Pan Stanford Publisher, Singapore, (2017)** 1-21, [ISBN: 9789814774307](#).
  11. Ambika, **Pradeep Pratap Singh**, *Chapter*, Nanomaterials: Versatile Tools for Water Remediation, in the Book entitled "Nanomaterials for water remediation inorganic oxide material", published by **Smithers RAPRA Publisher, UK, (2016)** 2, 189-210, [ISBN: 9781911088011](#).
  12. Ambika, **Pradeep Pratap Singh**, *Chapter 9*, Polymeric Nanospheres for Organic Waste Removal, in the Book entitled 'Smart Materials for Waste Water Applications' published by **John Wiley & Sons, Inc. Hoboken, New Jersey, USA, (2016)** 237-256, [ISBN: 9781119041184](#).
  13. **Pradeep Pratap Singh**, Ambika. *Chapter 7*: Bentonites: A versatile clay, in book entitled 'Bentonite: Characteristics, Uses and implications for the environment', published by **Nova Publishers, USA, (2015)** 151-172, [ISBN: 9781634821872](#).
  14. **Pradeep Pratap Singh**, Ambika. *Chapter 6*, Recent advances of multifunctional nanomedicines, in the book entitled 'Nanomedicine for Drug Delivery and Therapeutics', published by **John Wiley & Sons, Inc. Hoboken, New Jersey, USA, (2013)** 163-184, [ISBN: 9781118414095](#).
  15. Ambika, **Pradeep Pratap Singh**, *Chapter 25*: Monograph: Nanotechnology: Greener Approach for Sustainable Environment, Nanotechnology in Environmental Science, edited by Hussain CM, Mishra AK, published by **Wiley-VCH Publishers, USA, (2018)** **805-824**, [ISBN: 9783527342945](#).
  16. **Pradeep Pratap Singh**, Ambika, Environmental Remediation by Nano Adsorbents based Polymer nanocomposite, in the book "New Polymer

Nanocomposites for Environmental Remediation", edited by Chaudhery Mustansar Hussain, Ajay Kumar Mishra, published by **ELSEVIER**, (2018) 223-241. ISBN: 9780128110331.

17. **Pradeep Pratap Singh**, Ambika, Chapter 4: Dimensions of Nanocomposites in Pollution Control, in the book Nanocomposites for pollution control, Part 1 - Nanocomposite - A new dimension towards pollution control, edited by *Chaudhery Mustansar Hussain, Ajay Kumar Mishra*, published by **Pan Stanford CRC Press**, (2018) 107-126, ISBN: 9789814774451.
18. **Pradeep Pratap Singh**, Ambika. *Chapter 3*, Ionic liquids: Green solvents for the future, in the book entitled 'Ecodevelopment: Glocal Perspectives', (2011) 44-60, published by **Research India Press** New Delhi, ISBN: 9788189131463.
19. **Pradeep Pratap Singh**, Ambika. *Chapter 7*: Antioxidants: The free radical scavengers, in the book entitled "Progress in environmental management, Indian experiences", publishing by '**Research India Press** New Delhi, (2014) 100-120, ISBN: 9788189131913.
20. S.M.S. Chauhan, Ambika, T. Bisht, **Pradeep Pratap Singh**. *Chapter 20*, "Bioactive compounds from Himalayan medicinal plants" in the book entitled 'Herbal Drugs: A twenty first century perspective', published by '**Jaypee Brothers Medical Publishers (P) Ltd.**' New Delhi, (2005) 190-199, ISBN: 8180618501.