

FACULTY PROFILE



- ✓ Name of Faculty : **Dr. Atul Sopan Nagpure**
- ✓ Department : **Chemistry**
- ✓ Designation : **Assistant Professor**
- ✓ Institution : **Rashtrapita Mahatma Gandhi Art's & Science College,
Nagbhid, Dist. Chandrapur, Maharashtra-441205
(Gondwana University, Gadchiroli)**
- ✓ Teaching Experience : **1 September 2016 to till date**
- ✓ Research Experience : **January 2011 to till date**
- ✓ Research Area : **Nanomaterials, Nanoparticles, Nanocatalysis,
Materials, Biomass Conversion, Biofuels**
- ✓ Permanent Address : **At & Post-Pardi Deshmukh, Tah-Kalmeshwar, Dist-Nagpur,
Maharashtra - 441502.**
- ✓ Date of Birth : **05-10-1986**
- ✓ Mobile : **+91-9763190023 ; +91-7972403513**
- ✓ E-mail : **atulnagpure43@gmail.com**

EDUCATION

- ❖ **Ph.D. from CSIR-National Chemical Laboratory (CSIR-NCL), Pune, INDIA** (Jan. 2011-Aug. 2016).
Ph.D. Guide : Dr. Satyanarayana V. Chilukuri (Senior Research Scientist, CSIR-NCL, Pune)
**Ph.D. Thesis Title : "Novel Catalysts for Hydrogenolysis of Biomass Derived Feedstocks
and Hydrogenation of α,β -Unsaturated Carbonyl Compounds"**
- ❖ **"CSIR-NET-JRF" in Chemistry** (Dec. 2010).
- ❖ **"UGC-NET-JRF" in Chemistry** (June 2010).
- ❖ **M.Sc. (Organic Chemistry) from R.T.M. Nagpur University, Nagpur, INDIA** (2009).
- ❖ **B.Sc. (Chemistry, Physics and Mathematics) from R.T.M. Nagpur University, Nagpur, INDIA** (2007).
- ❖ **12th from Maharashtra** (2004).
- ❖ **10th from Maharashtra** (2002).

AWARDS

- ❖ “Senior Research Fellowship” by CSIR, INDIA, in Chemistry (2013-2015).
- ❖ “Junior Research Fellowship” by CSIR, INDIA, in Chemistry (2011-2012).

PATENTS

- 1. U.S. Patent:** Process for the preparation of 2,5-dimethylfuran and furfuryl alcohol over Ruthenium supported catalysts.
[Authors: Atul S. Nagpure, Nishita Lucas, Satyanarayana V. Chilukuri]
U.S. Patent No. US 9757713 B2
- 2. U.S. Patent:** Transition metal(s) catalyst supported on nitrogen-doped mesoporous carbon and its use in catalytic transfer hydrogenation reactions.
[Authors: Atul S. Nagpure, Satyanarayana V. Chilukuri]
U.S. Patent No. US 1100831 B2

RESEARCH PUBLICATIONS

1. Active and Recyclable Gold Metal Nanoparticles Catalyst Supported on Nitrogen-Doped Mesoporous Carbon for Chemoselective Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol
[Authors: Atul S. Nagpure, Pranjal Gogoi and Satyanarayana V. Chilukuri]
International Journal: Chemistry: An Asian Journal (2021), Vol. 16, Issue 18, 2702-2722 (ISSN: 1861-471X)
Publisher: Wiley-VCH (ChemPubSoc Europe)
Impact Factor: 4.5
2. Novel Ru nanoparticle catalysts for the catalytic transfer hydrogenation of biomass-derived furanic compounds.
[Authors: Atul S. Nagpure, Pranjal Gogoi and Satyanarayana V. Chilukuri]
International Journal: Sustainable Energy & Fuels (2020), 4, 3654–3667 (ISSN: 2398-4902)
Publisher: Royal Society of Chemistry
Impact Factor: 6.3
3. Efficacy of clay catalysts for the dehydration of fructose to 5-hydroxymethyl furfural in biphasic medium.
[Authors: Nishita Lucas, Atul S. Nagpure, Lakshmi Prasad Gurrala, Pranjal Gogoi and Satyanarayana Chilukuri]
International Journal: Journal of Porous Materials (2020), 27, 1691–1700

(ISSN: 1573-4854)

Publisher: Springer

Impact Factor: 2.5

4. Insights into the catalytic activity of Ru/NaY catalysts for efficient H₂ production through aqueous phase reforming.

*[Author: Pranjal Gogoi, **Atul S. Nagpure**, Prabu Kandasamy, Satyanarayana Chilukuri and Raja Thirumalaiswamy]*

International Journal: Sustainable Energy & Fuels (2020), 4, 678-690

(ISSN: 2398-4902)

Publisher: Royal Society of Chemistry

Impact Factor: 6.3

5. Synthesis of Supported Metal Nanoparticles: Future Scope

*[Author: **Atul S. Nagpure**]*

International Journal: International Journal of Life Sciences (2018), A-12, 39-43.

(ISSN: 2320-964X)

Publisher: Ivyspring International Publisher

Impact Factor: 1.5

6. Spinel-Type Mixed Oxides for Stable and Selective Partial Oxidation of Benzyl Alcohol.

*[Author: L. Gurralla, **Atul S. Nagpure**, H. R. Gurav and Satyanarayana Chilukuri]*

International Journal: Chemistry Select (2018), 3, 3751 – 3761.

(ISSN: 2365-6549)

Publisher: Wiley-VCH (ChemPubSoc Europe)

Impact Factor: 2.1

7. Efficient method for preparation of highly dispersed metal nanoparticles supported on Octahedral Molecular Sieve.

*[Author: **Atul S. Nagpure**, Pranjal Gogoi, Nilesh G. Gode and Anil N. Korpenwar]*

International Journal: RJBPCS (2018), 4(1), 31 - 37.

(ISSN: 2454-6348)

Publisher: Life Science Informatics Publications

Impact Factor: 2.5

8. Octahedral Molecular Sieve (K-OMS-2) supported metal nanoparticles for catalysis.

*[Author: **Atul S. Nagpure**, Nilesh G. Gode, G. P. Juare and S. M. Sontakke]*

International Journal: International Journal Of Current Engineering And Scientific Research (2018), 1 (5), 393 - 395.

(ISSN: 2394-0697)

Publisher: Technical Research Organization (India)

Impact Factor: 1.5

9. Physico-chemical analysis of Water Samples and Effect of its Quality on Human Health.
[Author: Atul S. Nagpure, Nilesh G. Gode, Dheerendra S. Singh and Anil N. Korpenwar]
International Journal: RJBPCS (2017), 3(3), 80-89.
(ISSN: 2454-6348)
Publisher: Life Science Informatics Publications
Impact Factor: 2.5
10. Renewable fuels from biomass-derived compounds: Ru-containing hydrotalcites as catalysts for conversion of HMF to 2,5-dimethylfuran.
[Authors: Atul S. Nagpure, Ashok Kumar Venugopal, Nishita Lucas, M. Manikandan, Raja Thirumalaiswamy and Satyanarayana Chilukuri]
International Journal: Catalysis Science & Technology, (2015), 5, 1463-1472.
(ISSN: 2044-4753)
Publisher: Royal Society of Chemistry
Impact Factor: 5.7
11. Efficient preparation of liquid fuel 2,5-dimethylfuran from biomass-derived 5-hydroxymethylfurfural over Ru-NaY catalyst.
[Authors: Atul S. Nagpure, Nishita Lucas and Satyanarayana Chilukuri]
International Journal: ACS Sustainable Chemistry & Engineering, (2015), 3, 2909-2916.
(ISSN: 2168-0485)
Publisher: American Chemical Society
Impact Factor: 8.2
12. Hydrogenation of Cinnamaldehyde to Hydrocinnamaldehyde over Pd nanoparticles deposited on nitrogen-doped mesoporous carbon.
[Authors: Atul S. Nagpure, Lakshmi Prasad Gurralla, Pranjal Gogoi and Satyanarayana Chilukuri]
International Journal: RSC Advances, (2016), 6, 44333-44340.
(ISSN: 2046-2069)
Publisher: Royal Society of Chemistry
Impact Factor: 3.8
13. Dehydration of fructose to 5-hydroxymethylfurfural over ordered AISBA-15 catalysts.
[Authors: Nishita Lucas, Ganesh Kokate, Atul S. Nagpure and Satyanarayana Chilukuri]
International Journal: Microporous & Mesoporous Materials, (2013), 181, 38-46.
(ISSN: 1387-1811)
Publisher: Elsevier
Impact Factor: 4.5
14. Novel catalysts for valorization of biomass to value-added chemicals and fuels.
[Authors: Nishita Lucas, Narasimha Rao Kanna, Atul S. Nagpure, Ganesh Kokate and Satyanarayana Chilukuri]
Indian Journal: Journal of Chemical Sciences, (2014), 126, 403-413.
(ISSN: 0974-3626)

Publisher: Springer

Impact Factor: 1.2

15. Promotional effect of Fe on the performance of supported Cu catalyst for ambient pressure hydrogenation of furfural.

[**Authors:** M. Manikandan, Ashok Kumar Venugopal, **Atul S. Nagpure**, Satyanarayana Chilukuri and Raja Thirumalaiswamy]

International Journal: RSC Advances, (2016), 6, 3888-3898.

(ISSN: 2046-2069)

Publisher: Royal Society of Chemistry

Impact Factor: 3.8

16. Highly efficient nitrogen-doped hierarchically porous carbon supported Ni nanoparticles for the selective hydrogenation of furfural to furfuryl alcohol.

[**Authors:** Trupti V. Kotbagi, Hanmant R. Gurav, **Atul S. Nagpure**, Satyanarayana V. Chilukuri and Martin G. Bakker]

International Journal: RSC Advances, (2016), 6, 67662-67668.

(ISSN: 2046-2069)

Publisher: Royal Society of Chemistry

Impact Factor: 3.8

RESEARCH PAPER PRESENTED IN SYMPOSIUM / CONFERENCE

1. Poster presented on “Supported Gold Nanoparticles Catalysts for Biomass Conversion” at **11th National Conference on Solid State Chemistry and Allied Areas (NCSCA-2019)** at SKP College Kamptee, Nagpur & ISCAS, Jammu, India, **20 & 21st December, 2019.**

[**Authors:** **Atul S. Nagpure**]

2. Poster presented on “Renewable Liquid Fuel from Biomass-Derived Compound over Ru Nanoparticles Deposited on NaY Zeolite” at **International Conference on Integrated Solid Waste Management Practice in Developing Countries** at CSIR-NEERI, Nagpur, India, **April 11-12, 2017.**

[**Authors:** **Atul S. Nagpure**, Nilesh G. Gode]

3. Poster presented on “Survey on Biogas Capacity of Minthur Village” at **International Conference on Integrated Solid Waste Management Practice in Developing Countries** at CSIR-NEERI, Nagpur, India, **April 11-12, 2017.**

[**Authors:** Nilesh G. Gode, **Atul S. Nagpure**]

4. Poster presented on “Preparation of renewable liquid fuel 2,5-dimethylfuran from 5-hydroxymethylfurfural over Ru-NaY catalyst” during **17th CRSI National Symposium in Chemistry** at CSIR-National Chemical Laboratory, Pune, India, **February 6-8, 2015.**

[**Authors:** **Atul S. Nagpure**, Nishita Lucas, Satyanarayana V. Chilukuri]

5. Poster presented on “Hydrogenation of cinnamaldehyde to hydrocinnamaldehyde over Pd nanoparticles deposited on nitrogen-doped mesoporous carbon” during **22nd National Symposium on Catalysis** at CSIR-Central Salt and Marine Chemicals Research Institute, Bhavnagar, **India, January 7-9, 2015.**
[Authors: Atul S. Nagpure, Satyanarayana V. Chilukuri]
 6. Poster presented on “Production of gasoline additive 2,5-dimethylfuran from 5-hydroxymethylfurfural over Ru-Mg-OMS-1 catalyst” during **16th National Workshop on Catalysis for Sustainable Development** at CSIR-National Environment Engineering Research Institute, Nagpur, **India, February 4-5, 2014.**
[Authors: Atul S. Nagpure, Satyanarayana V. Chilukuri]
 7. Poster presented on “Renewable fuels from biomass-derived compounds: Ru-containing hydrotalcites as catalysts for conversion of HMF to 2,5-dimethylfuran” during **21st National Symposium on Catalysis for Sustainable Development** at CSIR-Indian Institute of Chemical Technology, Hyderabad, **India, February 11-13, 2013.**
[Authors: Atul S. Nagpure, Satyanarayana V. Chilukuri]
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LIST OF WORKSHOP / CONFERENCE / SEMINAR ATTENDED

1. Attended **One-Day Workshop** on “CBCS SYLLABUS IN ALL SUBJECTS OF SCIENCE FACULTY” Jointly Organized by Gondwana University, Gadchiroli & Dnyanesh Mahavidyalaya, Nawargaon, Dist-Chandrapur on 16th April 2017.
 2. Attended **Two-Days National Conference** on **Chemistry of Chalcogens (NC³-2013)** Organized by Defence Institute of Advance Technology (DIAT), Pune on 14-15th January 2013.
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DECLARATION

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

Place: NAGBHID



(Dr. Atul S. Nagpure)