

List of publication

2026

1. Nitesh Kumar, Akash Mondal, Surojit Mondal, Asim Bhaumik, and Biswajit Chowdhury *
Highly Efficient Zr-SBA-15 Catalyst for Solvent free Synthesis of Cyclic Carbonates from CO₂ and Epoxides

New journal of Chemistry DOI: 10.1039/D6NJ01374K

2. Singha A.;Mandal A.;Malakar B.;Bhaumik A.; **Chowdhury B.***

Oxidative Dehydrogenation of Propane (ODHP) to Propene using CO₂ as a Soft-Oxidant over In-TUD-1 Catalyst

Chemistry an Asian Journal, Volume 21, Year 2026

3. Mandal A.; Mondal S.; Singha A.; Rane A.S.; Ghosh S.; Thapa R.; Bhaumik A.; **Chowdhury B*.**

Synthesis of 2-Imidazolidinone from Ethylenediamine using CO₂ as a C1 building block over the SnO₂/g-C₃N₄ catalyst

Chemical Communication Volume 62, Year 2026, Pages 1618-1622

4. Ghosh A.;Mandal A.;Nag D.;Dash P.S.;Misra S.; Sen K.; **Chowdhury B*.**

Carbon-Induced Crystallization of SiO₂ at Low Temperature: N-Doped Carbon-Modified α -Cristobalite as a Photocatalyst for CO₂ Conversion

ACS Applied Nano Materials, Volume 9, Year 2026, Pages 3218-3230

5. Kumar B.;Kumar N.;Enam W.;Malakar B.;Kothari A.C.;Bhaumik A.;Chowdhury B.

Reverse Water-Gas Shift Reaction at Low Temperatures via Fe₃C Using α -Fe₂O₃/Sugar Cane Bagasse Waste-Derived Silica Catalysts

ACS Sustainable Chemistry and Engineering Volume 14, Year 2026, Pages 400-41

6. Biswajit Chowdhury, Asim Bhaumik, Sudip Bhattacharjee, Aniruddha Singha

A HETEROGENEOUS CATALYST FOR THE SYNTHESIS OF ACRYLIC ACID

Granted Patent . Application No 202331021352

2025

7. Avik Das, Satish K Mandal, Nitesh Kumar, Nayan Maity, Ashwani Kumar, Swarnsikha Sinha, Jitendra Bahadur, **Biswajit Chowdhury,*Debasis Sen***

Diverse Pore Ordering in porous Silica: Synthesis and a Quantitative Structural Insights Combining Scattering and Imaging Techniques

Physical Chemistry Chemical Physics ; 27 (2025) 5505-5519

8. Sudip Bhattacharjee, Unnikrishnan Pulikkeel, Vipin Amoli, Mukaddar Sk, Ranjit Thapa, **Biswajit Chowdhury**, Thomas E. Müller, Praveen Kumar Chinthala,* and Asim Bhaumik*

Boosting the Simultaneous Conversion of Glycerol and CO₂ to Lactate and Formate Using ZrO₂-Supported NiO Catalyst

Adv. Funct. Mater. **2025**, 2502434

9. Wasim Enam, Avik Chowdhury, Kai Laichter, Ka Loi Lin, Akash Mandal, Bhabani Malakar, Asim Bhaumik*, Thomas E Muller* and **Biswajit Chowdhury** *

Hydrodeoxygenation of Glycerol to Propene over Molybdenum and Niobium Phosphate Catalysts

ChemCatChem **17** (2025) 1-13

10. Akash Mandal, Neelanjana Ghosh, Bhabani Malakar , Dileep Kumar, Vipin Amoli*, Asim Bhaumik* and **Biswajit Chowdhury***

Efficient Synthesis of Propylene Carbonate over bimetallic Fe-Cu/SBA-15 Catalyst from CO₂ and Propylene Oxide

Asian Journal of Organic Chemistry, **Volume 14**, **Year 2025**

2024

11. Anindya Ghosh, **Debjani Nag** *, Rupak Chatterjee, Anirudhha Singha, Pratik Swarup Dash, **Biswajit Chowdhury** and Asim Bhaumik

CO₂ to Dimethyl ether (DME): Structural and Functional Insights of Hybrid Catalysts (Review)
Catalysis Science and Technology **14** (2024)1387

12. Vivek Kumar Shrivastaw, Jyotishman Kaishyop, Dr. Tuhin Suvra Khan, Deepak Khurana, Gaje Singh, Dr. Subham Paul, **Dr. Biswajit Chowdhury** and **Dr. Ankur Bordoloi** *

On the Correlation between Group III-A Elements Doping and Structure Performance of Cu/ZnO/ZrO₂ Catalysts System for CO₂ Hydrogenation to Methanol

ChemCatChem **2024**, e202400534

2023

13. Aniruddha Singha, Jyotishman Kaishyop, Tuhin Suvra Khan, and **Biswajit Chowdhury***

Visible-light-driven toluene oxidation to benzaldehyde over WO₃ nanostructures
ACS Appl. Nano Mater. **2023**, **6**, 21818–21828

14. Anindya Ghosh, Aniruddha Singha, Rupak Chatterjee , Thomas E. Müller , Asim Bhaumik and **Biswajit Chowdhury** *

Heteroatom-doped Fe-carbon Sphere as Catalysts for the CO₂-mediated Oxidative Dehydrogenation of Ethylbenzene

Molecular Catalysis **535** (2023) 112836

15 A Ghosh, **B Chowdhury**, A Bhaumik

Synthesis of Hollow Mesoporous Silica Nanospheroids with O/W Emulsion and Al (III) Incorporation and Its Catalytic Activity for the Synthesis of 5-HMF from Carbohydrates
Catalysts 13 (2), 354

16. G Singh, D Khurana, TS Khan, IK Ghosh, B Chowdhury, AY Khodakov

Insight into Mn enhanced short-chain olefin selectivity in CO₂ hydrogenation over Na-CuFeO₂ catalyst

Applied Surface Science 616, (2023) 156401

17 Aniruddha Singha, Anil Chandra Kothari, Rajaram Bal, and **Biswajit Chowdhury***

Dioxygen-Triggered Oxidation of Benzylic C-H Bonds: Insight of the Synergistic Effect of Cu-Fe Bimetallic Oxide

React. Chem. Eng., 2023, DOI: 10.1039/D3RE00116D.

18. KS Keshri and **B Chowdhury***

Synthesis and Applications of Nanomaterials and Nanocomposites, 361-394(2023/5/9)

Springer Book Chapter

19. A Singha, K Bhaduri, AC Kothari, **B Chowdhury***

Selective hydroxylation of benzene to phenol via CH activation over mesoporous Fe₂O₃-TiO₂ using H₂O₂

Molecular Catalysis 533, 112800 (2023)

2022

20. Kushanava Bhauduri, Anindya Ghosh, Aline Auroux, Sauvik Chatterjee, Asim Bhaumik and **Biswajit Chowdhury ***

Soft templating route for the synthesis of mesoporous tantalum phosphates and their catalytic activity in glycerol dehydration and carbonylation reactions

Molecular Catalysis 518 (2022) 112074

21. Ahmed Sadeq Al-Fatesh, Rawesh Kumar, Samsudeen Olajide Kasim, Ahmed Aidid Ibrahim, Anis Hamza Fakeeha, Ahmed Elhag Abasaeed, Haan Atia, Udo Armbruster, Carsten Kreyenschulte, Henrik Lund, Stephan Bartig, Yousef Ahmed Mohammed, Yousef Abdulrahman Albaqmaa, Mahmud Sofu Lanre, Mayakkmar Lakshmanbhai Chaudhary, Fahad Almubaddel, and **Biswajit Chowdhury**

Effect of Cerium Promoters on an MCM-41-Supported Nickel Catalyst in Dry Reforming of Methane

Industrial Engineering and Chemical Research 61 (2022) 164-174

22. Anindya Ghosh, G Naaresh Reddy, Mohammed Siddique P. K ., Sauvik Chatterjee, Sudip Bhattacharjee, Rahul Maitra, Sergey E. Lybimov, Ashot V. Arzumanyan, Alexander Naumkin Asim Bhaumik and **Biswajit Chowdhury** *

Fabrication of a hollow sphere N, S co-doped bifunctional carbon catalyst for sustainable fixation of CO₂ to cyclic carbonates

Green Chemistry 24 (2022) 1673.

23. Kumer Saurav Keshri, Sudip Bhattacharjee, Aniruddha Singha, Asim Bhaumik*, **Biswajit Chowdhury***

Synthesis of cyclic carbonates of different epoxides using CO₂ as a C1 building block over Ag/TUD-1 mesoporous silica catalyst: A solvent free approach

Molecular Catalysis 522 (2022) 112234

24. Kumer Saurav Keshri and **Biswajit Chowdhury** *

Effect of the Ag–CeO₂ interaction and the nature of pore structure on the catalytic activities of different Ag–CeO₂/mesoporous-SiO₂ catalysts on the reduction of 4-nitrophenol

Journal of Porous Material (2022) pages 1-14

25. Kushanava Bhaduri, Rupak Chatterjee , Asim Bhaumik* and **Biswajit Chowdhury** *

Metal-Free Phosphate Modified Hierarchically Porous Carbon-Silica Nanocomposites for Solvent-Free Glycerol Carbonylation and Esterification Reactions

ACS Sustainable Chemistry & Engineering 10 (2022) 11242-11256

26. Kushanava Bhaduri, Aline Auroux, Asim Bhaumik and **Biswajit Chowdhury***

Bifunctional molybdenum phosphate catalyst with tunable acidity-basicity for the sustainable synthesis of glycerol carbonate via solventless carbonylation of glycerol with urea

Applied Organometallic Chemistry 36 (12) e0694

27. Aniruddha Singha, Kushanava Bhaduri, Anil Chandra Kothari, **Biswajit Chowdhury***

Selective hydroxylation of benzene to phenol via C-H activation over mesoporous Fe₂O₃-TiO₂ using H₂O₂

Molecular Catalysis 533 (112800)

2021

28. Arindam Modak, Anindya Ghosh, Asim Bhaumik,* and **Biswajit Chowdhury***

CO₂ Hydrogenation over Functional Nanoporous Polymers and Metal-Organic Frameworks

Advances in Colloid and Interface Science 290 (2021) 102349

29. Sauvik Chatterjee, Kushanava Bhaduri, Arindam Modak, Manickam Selvaraj, Rajaram Bal, **Biswajit Chowdhury*** and Asim Bhaumik *

Catalytic transformation of ethanol to methane and butene over NiO NPs supported over mesoporous SBA-15

Molecular Catalysis 502 (2021) 111381

30. Arindam Modak, Anindya Ghosh, Akshay R. Mankar, Ashish Pandey, Manickam Selvaraj, **Kamal Kishore Pant, Biswajit Chowdhury*** and **Asim Bhaumik***

Cross-linked Porous Polymers as Heterogeneous Organocatalysts for Task-Specific Applications in Biomass Transformations, CO₂ Fixation and Asymmetric Reactions.

ACS Sustainable Chemistry & Engineering 9, (2021) 37

31. **B. Chowdhury**, A. A. Zvinchuk, R. R. Aysin, E. A. Khakina, P. V. Cherkasova, S. E. Lyubimov,

Amine-iodine molecular adducts as simple but effective catalysts for the synthesis of organic carbonates from epoxides and CO₂,

Catalysis Survey from Asia, <https://doi.org/10.1007/s10563-021-09341-9>

32. S. E. Lyubimov, V. A. Olshevskaya, A. V. Zaitsev, A. A. Korlyukov, A. A. Zvinchuk, P. V. Cherkasova, **B Chowdhury**,

Synthesis of carborane-containing carbonates via CO₂ addition to epoxides,

Polyhedron, <https://doi.org/10.1016/j.poly.2021.115418>

2020

33. Anindya Ghosh, Anirudha Singha, Aline Auroux, Avik Das, Debasis Sen and **Biswajit Chowdhury***

A green approach for preparation of surfactant embedded sulfonated carbon catalyst towards glycerol acetalization reaction

Catalysis Science and Technology 10(14), (2020), pp. 4827-4844

34. Arindam Modak, Piyali Bhanja, Saikat Dutta, Biswajit Chowdhury and **Asim Bhaumik***

Catalytic Reduction of CO₂ to Fuels and Feedstocks

Green Chemistry , 22(13), (2020) pp. 4002-4033

35. S. E. Lyubimova,*, A. A. Zvinchuka, M. V. Sokolovskaya, V. A. Davankov, **Biswajit Chowdhury**, P. V. Zhemchugov, A. . Arzumanyan

A simple synthesis of ethylene carbonate from carbon dioxide and 2-chloroethanol using silica gel as a catalyst

Applied Catalysis A General 592(2020) 117433

36. Kumer Saurav Keshri Giulia Spezzati Santu Ruidas E. J. M. Hensen and **Biswajit Chowdhury***

Role of bismuth on aerobic benzyl alcohol oxidation over ceria polymorph-supported gold nanoparticles

Catalysis Communication 140(2020) 106004

37. **Ahmed** Al-Fatesh^{1*}, Rawesh Kumar, S Olajide Kasim, A A Ibrahim, A Hamza Fakeeha, A E Abasaeed, R Alrasheed, A Bagabas ·M. Lakshmanbhai Chaudhary , Francesco Frusteri and **B. Chowdhury***

The Effect of Modifier Identity on the Performance of Ni-Based Catalyst Supported on γ -Al₂O₃ in Dry Reforming of Methane

Catalysis Today 348 (2020) 236-242

2019

38. Prangya Paramita Das, Vinod C Prabhakaran, Samik Nanda, Debasis Sen, and **Biswajit Chowdhury***
Palladium Impregnated Amine Co-condensed Hexagonal Mesoporous Silica: A Novel Catalyst in Tailoring Suzuki and Heck Coupling Reactions in Base Free Condition
ChemistrySelect 2019 pp3823-3832
39. Kushanava Bhaduri, Bidya Dhar Das, Rawesh Kumar, Sujan Mondal, Sauvik Chatterjee, Sneha Shah, Juan J. Bravo-Suárez and **Biswajit Chowdhury***
Recyclable Au/SiO₂-shell/Fe₃O₄-core catalyst for the reduction of nitro aromatic compounds in aqueous solution
ACS Omega, 4 (2), (2019), pp 4071–4081
40. Anindya Ghosh, Kushanava Bhaduri, Sneha Shah, Aline Auroux, J. K. Pandey and **Biswajit Chowdhury ***
Dehydration of Isopropanol to Propylene over Fullerene[C₆₀] Containing Niobium Phosphate Catalyst: Study on Catalyst Recyclability
Molecular Catalysis 475 (2019)110470
41. Rawesh Kumar, Sneha Shah, Prangya Paramita Das, Gami Girish Kumar Bhagavanbhai, Ahmed Al Fatesh and **Biswajit Chowdhury***
An Overview of Caprolactam Synthesis
Catalysis Review Science and Engineering 61 (2019) 516-594

2018

42. Shahid Hassan, Rawesh Kumar, Ankur Tewari, Weiyi Song, Lennart van Haandel, Jai Krishna Pandey Emiel Hensen and **Biswajit Chowdhury***

Role of Oxygen Vacancy in Cobalt doped Ceria Catalyst for Styrene Epoxidation using Molecular Oxygen

Molecular Catalysis 451 (2018) 238-246 *Invited*

43. Rawesh Kumar, Nagasuresh Enjamuri, Sneha Shah, Juan J Bravo-Surrez and **Biswajit Chowdhury***

Overview of Ketonization Reaction of Oxygenated Hydrocarbons on Oxide Based Catalysts

Catalysis Today 302 (2018) 16-49

44. Kanungo, Shamayita; Keshri, Kumer Saurav ; Hensen, Emiel; **Chowdhury, Biswajit**; Schouten, Jaap; **Neira d'Angelo, M. Fernanda***

Direct epoxidation of propene on silylated Au-Ti catalysts: A study on silylating procedures and effect on propane formation

Catalysis Science and Technology 8 (2018) 3052-3059

45. A.S.Al-Fatesh, A.H.Fakeeha, A.A.Ibrahim W.U.Khan H.Atia R.Eckelt K.Seshan **B.Chowdhury** *Decomposition of methane over alumina supported Fe and Ni-Fe bimetallic catalyst: Effect of preparation procedure and calcination temperature*
Journal of Saudi Chemical Society Volume 22, Issue 2 (2018) Pages 239-247
Q2 (IF = 4.71)

2017:

46. Sneha Shah, Nidhi Tiwari, Yogesh Kumar, S. N. Jha, Aline Auroux, Jai K. Pandey, and **Biswajit Chowdhury ***
Highly Acidic, Thermal Stable NbPO₄@Fullerene Catalyst for dehydration of Cyclohexanol
ChemistrySelect 2(20) (2017) 5640-5645

2016:

47. S. Kanungo, Kumer Saurav Keshri, A. J. F. van Hoof, M.F. Neira d'Angelo, J. C. Schouten T.A. Nijhuis E. J. M. Hensen, and **B. Chowdhury***
Silylation enhances performance of Au/Ti-SiO₂ catalysts in direct epoxidation of propylene using H₂ and O₂
Journal of Catalysis 344 (2016) 434-444
48. Chiranjit Santra, Sneha Shah, Aniruddha Mondal, Jai Krishna Pandey, Asit Baran Panda, Sudip Maity and **Biswajit Chowdhury***
Synthesis, characterization of VPO catalyst dispersed on mesoporous silica surface and catalytic activity for cyclohexane oxidation reaction
Microporous and Mesoporous Materials 223, (2016), 121-128
49. Rawesh Kumar, Prangya Paramita Das, J.K Pandey and **Biswajit Cowdhury ***
Highly active InOx/TUD-1 catalyst towards Baeyer Villiger Oxidation of cyclohexanone using molecular oxygen benzaldehyde
Catalysis Communications 74 (2016) 80-84
50. Sumbul Rahman, Sneha Shah, Debasis Sen, Sadanand Sharma, J.K Pandey, S. Mazumder and **Biswajit Chowdhury ***
Controllable synthesis of Niobium doped mesoporous silica materials with various morphologies and its activity for Oxidative catalysis
Microporous and Mesoporous Materials 226 (2016) 169-178
51. Rawesh Kumar, Srikanth Ponnada, Enjamuri Nagasuresh, Jai Krishna Pandey and **Biswajit Chowdhury***
Synthesis, characterization and correlation with the catalytic activity of efficient mesoporous Niobia and mesoporous Niobia-Zirconia mixed oxide catalyst
Catalysis Communication (Published online Jan 2016)
52. Chiranjit Santra, Aline Auroux and **Biswajit Chowdhury ***
Bi Doped CeO₂ Oxide Supported Gold Nanoparticle Catalysts for the Aerobic Oxidation of Alcohol
RSC Advances 6 (2016) 45330 – 45342

53. Rawesh Kumar, Jitendra Bahadur, Yuri. B. Melnichenko Debasis Sen, S. Mazumder, Sneha Shah, Chathakudath P. Vinod, and **Biswajit Chowdhury***
Highly stable In-SBA-15 Catalyst for Vapor Phase Beckmann Rearrangement Reaction
Microporous and Mesoporous Material 234(2016) 293-302
54. Nagasuresh Enjamuri, Shahid Hassan, Aline Auroux and **Biswajit Chowdhury***
Nobel metal free, oxidant free, solvent free catalytic transformation of alcohol to aldehyde over ZnO-CeO₂ mixed oxide catalyst
Applied Catalysis A Chemical 523(2016) 21-30
55. O. O James, S. Mandal, N Alele, **B. Chowdhury** and S Maity
Lower alkanes dehydrogenation: Strategies and reaction routes to corresponding alkenes
Fuel Processing Technology 149(2016) 239-255
56. Chiranjit Santra, Malay Pramanik, Kyoko K Bando, Sudip Maity and **Biswajit Chowdhury***
Gold Nanoparticle on Mesoporous Cerium-Tin mixed oxide for aerobic oxidation of benzyl alcohol
Journal of Molecular Catalysis A: Chemical 418 (2016) 41-55

2015

- 57.** Vipin Amoli, Saleem Farooqui, Aditya Rai, Chiranjit Santra, Sumbul Rahman Anil Kumar Sinha and **Biswajit Chowdhury***

Indium oxide nanocluster doped TiO₂ catalyst for activation of molecular oxygen

RSC Advances 5 (2015) 67089–67092

- 58.** Sumbul Rahman, S. A. Farooqui, Aditya Rai, Rawesh Kumar, Chiranjit Santra, Vinod C Prabhakaran, Sudip Maity, Anil Sinha and **Biswajit Chowdhury***

Mesoporous TUD-1 supported indium oxide nanoparticles for epoxidation of styrene using molecular O₂

RSC Advances 5 (58), pp. 46850-46860

- 59.** S. Pahari, Pravas Pal, **Biswajit Chowdhury*** and A.B Panda*

Efficient oxidation of hydrocarbons over nanocrystalline Ce_{1-x} Sm_xO₂ (x= 0-0.1) synthesized using supercritical water

RSC Advances 5, (56), (2015) pp. 45144-45151

- 60.** Sumbul Rahman, Kyoko K Bando, Debasis Sen, S. Mazumdar and **Biswajit Chowdhury***

Aerobic Baeyer-Villiger Oxidation of Cyclic Ketones over Periodic mesoporous silica Cu/Fe/Ni/Co-HMS-X

Applied Catalysis A: General, 505 (2015) 515-523

- 61.** Rawesh Kumar, Nagasuresh Enjamuri, Jai Krishna Pandey, Debasis Sen, S. Mazumder, Asim Bhaumik, and **Biswajit. Chowdhury ***

Bismuth Supported SBA-15 Catalyst for Vapor Phase Beckmann Rearrangement Reaction of Cyclohexanone Oxime to Caprolactam

Applied Catalysis 497 (2015) 51-57

- 62.** Olusola O. James, **Biswajit Choudhury** and Sudip Maity

Comparative TPR and TPD studies of Cu and Ca promotion on Fe-Zn and Fe-Zn-Zr based Fischer-Tropsch catalysts”;

Oil & Gas Science and Technology 70 (3) (2015) pp. 511-519

2014

63. Sandip Mandal, Chiranjit Santra, Rawesh Kumar, Malay Pramanik, Sumbul Rahman, Asim Bhaumik, Debasis Sen, Sudip Maity and **Biswajit Chowdhury***

Niobium doped hexagonal Mesoporous silica (HMS-X) catalyst for Vapor phase Beckmann Rearrangement reaction

RSC Advances 4 (2014) 845-854

64. Sandip Mandal, Kyoko K Bando, Rawesh Kumar and **Biswajit Chowdhury***

XAFS, XPS Characterization of Cerium Promoted Ti-TUD-1 Catalyst and its activity for Styrene Oxidation Reaction

Catalysis Communication 46 (2014) 123-127

65. Sumbul Rahman, Chiranjit Santra, Rawesh Kumar, Jitendra Bahadur, Asima Sultana, Ralf Schweins, Debasis Sen, Sudip Maity, S. Mazumdar and **Biswajit Chowdhury¹**

Highly active Ga promoted Co-HMS-X Catalyst towards Styrene Epoxidation Reaction using Molecular O₂

Applied Catalysis A General 482 (2014) 61-68

66. Rawesh Kumar and **Biswajit Chowdhury***

Comprehensive study for vapour phase Beckmann reaction over zeolite system

Industrial Engineering and Chemical Research 53 (43) (2014) pp 16587–16599

2013

67. Sandip Mandal, Kyoko K Bando, Chiranjit Santra, Sudip Maity, Olusola O. James, Divender Mehta and **Biswajit Chowdhury***

Sm-CeO₂ Supported Gold Nanoparticle Catalyst for Benzyl Alcohol Oxidation using Molecular O₂

Applied Catalysis A General 452, (2013) 94-104

68. Chiranjit Santra, Sumbul Rahman, Sreedhar Bojja, Sudip Maity, Debasis Sen, Sola James, A K Mohanty, S. Mazumdar and **Biswajit Chowdhury***

Barium, Calcium and Magnesium doped Mesoporous Ceria Supported Gold Nanoparticle for Benzyl Alcohol Oxidation using Molecular O₂

Catalysis Science & Technology 3 (2013) 360-370

69. Olusola O. James, Biswajit Chowdhury, Aline Auroux, **Sudip Maity***

Low CO₂ Selective Iron based Fischer-Tropsch Catalysts for Coal based Polygeneration

Applied Energy 107 (2013) 377-383

70. Olusola O. James, **Biswajit Chowdhury** and Sudip Maity

TPR and TPD studies of effects of Cu and Ca promotion on Fe-Zn based Fischer-Tropsch catalysts

Journal of Chemical Sciences Vol. 125, No. 3, May 2013, pp. 679–686

71. Sandip Mandal, Chiranjit Santra, Kyoko K Bando, Olusola O. James, Sudip Maity, Devender Mehta and **Biswajit Chowdhury***

Aerobic Oxidation of Benzyl Alcohol over Mesoporous Mn-doped Ceria supported Au Nanoparticle Catalyst

Journal of Molecular Catalysis A: Chemical 378 (2013) 47– 56

2012

72. **Biswajit Chowdhury***, K.K. Bando, J.J Bravo Suarez, S.Tsubota and M.Haruta

Activity of Silylated Titanosilicate Supported Gold Nanoparticles towards Direct Propylene Epoxidation Reaction in the presence of Trimethylamine

Journal of Molecular Catalysis 359 (2012) 21-27

73. Olusola O. James, Biswajit Chowdhury, M. Adediran Mesubi, **Sudip Maity***

Reflections on Chemistry of Fischer-Tropsch Synthesis

RSC Advances 2 (2012) 7347-7366 (**Hot Article**)

2011

74. Sandip Mandal, Apurba Sinhamahapatra, Batchu Rakesh, Rawesh Kumar, Asit B Panda, **Biswajit Chowdhury***

Synthesis, Characterization of Ga-TUD-1 Catalyst and its Activity towards Styrene Epoxidation Reaction

Catalysis Communication 12 (2011) 734-738

75. Bikash Karmakar, Apurva Sinhamahapatra, Asit Panda, Julie Banerjee, **Biswajit Chowdhury***

Ga-TUD-1: A new heterogeneous mesoporous catalyst for the solventless expeditious synthesis of α -aminonitriles

Applied Catalysis 392 (2011) 111-117

2010

76. G. Postole **Biswajit Chowdhury**, Bikash Karmakar, Kumari Pinki, Julie Banerji, A. Auroux

Knoevenagel Condensation Reaction over Acid-Base Bifunctional Nanocrystalline $\text{Ce}_x\text{Zr}_{1-x}\text{O}_2$ Solid Solution

Journal of Catalysis Volume 269, Issue 1 (2010) 110-121

77. Bikash Karmakar; **Biswajit Chowdhury***; Julie Banerji

Mesoporous titanosilicate Ti-TUD-1 catalyzed Knoevenagel reaction: An efficient green synthesis of trisubstituted electrophilic olefins

Catalysis Communication Volume 11 (2010) 601-605

78. B.M.Reddy, I Ganesh and **B Chowdhury***

Vapor-Phase Selective Oxidation of 4-Methylanisole to Anisaldehyde over $\text{V}_2\text{O}_5/\text{Ga}_2\text{O}_3\text{---TiO}_2$ Catalyst

Cheminiform Abstract (2010) DOI: 10.1002/chin.199809086 (online)

2009

79. Bikash Karmakar, Anupam Nayak, **Biswajit Chowdhury*** and Julie Banerji

A highly efficient, eco-friendly, room temperature synthesis of bis(indolyl)methanes using the mesoporous titanosilicate Ti-TUD-1: electrophilic substitution reactions of indoles

ARKIVOC Part-XXXIII (2009) (09-4225UP) [pp. 209-216]

Post-Doctoral and Doctoral publication

80. **B. Chowdhury**, J. J. Bravo-Suárez, M. Date, S. Tsubota, M. Haruta

Trimethylamine as a Gas Phase Promoter: Highly Efficient Epoxidation of Propylene over Supported Gold Catalysts

Angewandte Chemie International Edition 45. Issue-3; (2006) 412 – 415.

81. **B. Chowdhury**, J. J. Bravo-Suárez, N. Mimura, S. Tsubota, M. Haruta

In situ UV/vis and EPR study on the formation of hydroperoxide species during direct gas phase propylene epoxidation over Au/Ti-SiO_2 catalyst

Journal of Physical Chemistry B, 110.Issue 43, (2006) 22995-22999

82. B.M. Reddy, **B. Chowdhury**, E.P. Reddy, and A. Fernández

An XPS study of dispersion and chemical state of MoO_3 on $\text{Al}_2\text{O}_3\text{-TiO}_2$ binary oxide support

Applied Catalysis A: General, 213 (2001) 279 - 288.

83. B.M. Reddy, **B. Chowdhury**, and P.G. Smirniotis

An XPS study of La_2O_3 and In_2O_3 influence on the physicochemical properties of $\text{MoO}_3/\text{TiO}_2$ Catalysts

Applied Catalysis A: General, 219 (2001) 53 – 60.

84. B.M. Reddy, **B. Chowdhury** and P.G. Smirniotis

An XPS study of the dispersion of MoO_3 on $\text{TiO}_2\text{-ZrO}_2$, $\text{TiO}_2\text{-SiO}_2$, $\text{TiO}_2\text{-Al}_2\text{O}_3$ $\text{SiO}_2\text{-ZrO}_2$, and $\text{SiO}_2\text{-TiO}_2\text{-ZrO}_2$ mixed oxides

Applied Catalysis A: General, 211 (2001) 19-30

85. B.M. Reddy, **B. Chowdhury**, E.P. Reddy and A. Fernandez

X-ray photoelectron spectroscopy study of V_2O_5 dispersion on nanosized $\text{Al}_2\text{O}_3\text{-TiO}_2$ mixed oxide.

Langmuir 17 (2001) 1132-1137

86. E.P. Reddy, T.C. Roja, A. Fernández, **B. Chowdhury** and B.M. Reddy,

Transmission Electron Spectroscopy and Energy-Dispersive X-Ray Spectroscopy Study of $\text{V}_2\text{O}_5/\text{TiO}_2\text{-ZrO}_2$ Catalyst

Langmuir, 16 (2000) 4217 – 4221.

87. B.M. Reddy, **B. Chowdhury**, E.P. Reddy and A. Fernandez

An X-ray photoelectron spectroscopy study of $\text{MoO}_3/\text{TiO}_2\text{-ZrO}_2$ Catalyst

Journal of Molecular Catalysis 162 (2000) 431-441.

88. B.M. Reddy, I. Ganesh and **B. Chowdhury**

Design of stable and reactive vanadium oxide catalysts supported on binary oxides.

Catalysis Today, 49 (1999) 115-121.

- 89.** B.M. Reddy and **B. Chowdhury**

Dispersion and thermal stability of MoO₃ on TiO₂-ZrO₂ mixed oxide support

Journal of Catalysis, 179 (1998) 413-419.

- 90.** B.M. Reddy and **B. Chowdhury**

Thermal spreading of vanadium oxide over titania-silica binary oxide support

Studies in Surface Science and Catalysis, 113 (1998) 251 – 257

- 91.** B.M. Reddy, **B. Chowdhury**, I. Ganesh, E.P. Reddy, T.C. Rojas and A. Fernandez

Characterization of V₂O₅/TiO₂-ZrO₂ catalysts by XPS and other technique

Journal of Physical Chemistry, 102 (1998) 10176 – 10182

1997

- 92.** B.M. Reddy, I. Ganesh and **B. Chowdhury**

Vapour phase selective oxidation of 4-methylanisole to anisaldehyde over V₂O₅/Ga₂O₃-TiO₂ catalyst.

Chemistry Letters, 1997, 1145 –1146.

