

2007

1. Novel transition metal free oxidation of aromatic aldehydes to carboxylic acids using N-methylpyrrolidin-2-one hydrotribromide (MPHT) as catalyst and hydrogen peroxide as oxidant
Jomy K. Joseph, Suman L. Jain and Bir Sain
Catalysis Communications 8(1), 83-87, Jan 2007
2. Selective hydrogenation of menthone on Raney nickel catalyst
Rehman, A, M Kamil, A K Gupta, A K Bhatnagar
Indian Journal of Chemical Technology 13 (6): 584-590 Nov 2006
3. Maltenes and asphaltenes of petroleum vacuum residues: Physico-chemical characterization
B K Sharma, C D Sharma, S D Bhagat, S Z Erhan
Petroleum Science & Tech 25 (1-2): 93-104 , Jan 2007
4. Structural characterization of asphaltenes and ethyl acetate insoluble fractions of petroleum vacuum residues
B K Sharma, C D Sharma, O S Tyagi, S D Bhagat, S Z Erhan
Petroleum Science & Tech 25 (1-2):121-139, Jan 2007
5. Corrosion behavior of biodiesel from seed oils of Indian origin on diesel engine parts
Savita Kaul, R.C. Saxena, Ajay Kumar, M.S. Negi, A.K. Bhatnagar, H.B. Goyal and A.K. Gupta
Fuel Processing Technology, 88(3) 303-307. March 2007
6. Studies on sulphonates for enhanced oil recovery
A K Singh, O N Anand
Indian Journal of Chemical Technology 14 (2): 166-172 Mar 2007
7. Alumina supported MoO₃ as a highly efficient and recyclable heterogeneous catalyst for the chemoselective acetylation of alcohols, phenols amines and thiols with acetic anhydride under solvent free conditions
Jomy K. Joseph, Suman L. Jain and Bir Sain
Journal of Molecular Catalysis A: Chemical 267(1-2), 108-111, April 2007
8. Metallophthalocyanines (MPcs) as efficient heterogeneous catalysts for Biginelli condensation: Application and comparison in catalytic activity of different MPcs for one pot synthesis of 3,4-dihydropyrimidin-2-(1*H*)-ones
Suman L. Jain, Jomy K. Joseph, Sweetly Singhal and Bir Sain
Journal of Molecular Catalysis A: Chemical,268,(1-2), 134-138, May 2007
9. An environmentally friendly oxidation system for selective oxygenation of aldimines to oxaziridines with anhydrous TBHP using alumina supported MoO₃ as recyclable heterogeneous catalyst”
Sweetly Singhal, Suman L. Jain, V.V.D.N Prasad and Bir Sain
Eur. J. Org. Chem. 2007(13), 2051-2054, May 2007
10. Alumina supported MoO₃: An efficient and recyclable catalyst for selective oxidation of tertiary nitrogen compounds to N-oxides using anhydrous TBHP as oxidant under mild reaction conditions
Suman L. Jain, Jomy K. Joseph, Bir Sain:

Catalysis Letters 115 (1-2), 8-12, May 2007

11. Ionic liquid promoted an improved synthesis of 3,4-dihydropyrimidinones using [bmim]BF₄ immobilized Cu (II) acetylacetonate as recyclable catalytic system”
Suman L. Jain, Jomy K. Joseph and Bir Sain
Catalysis Letters 115 (1-2), 52-55, May 2007
12. Reformulation of FCC gasoline
N. Viswanadham, B.S. Negi, M.O. Garg, Meenakshi Sundaram, B. Sairam and A.K. Agarwal
Fuel, 86(9), 1290-1297, June 2007
13. Bmim]BF₄- immobilized rhenium-catalyzed highly efficient oxygenation of aldimines to oxaziridines using solid peroxides as oxidants
Suman L. Jain, Sweetly Singhal and Bir Sain
Journal of Organometallic Chemistry, 692(14,15) 2930-2935, June 2007
14. Monodisperse, bimodal mesoporous ceria catalysts and adsorbents for air purification
Suzuki K, Sinha AK
Journal of Materials Chemistry 17 (24): 2547-2551 2007
15. Anti-friction, anti-wear and load-carrying characteristics of environment friendly additive formulation
O. N. Anand, Vijay Kumar, A. K. Singh *, R. P. S. Bisht
Lubrication Science 19(3), 159-167, July 2007
16. PEG-Assisted solvent and catalyst free synthesis of 3,4-dihydropyrimidinones under mild reaction conditions”
Suman L. Jain, Sweetly Singhal and Bir Sain
Green Chemistry ((2007), 9(7), 740-741
17. Simple and Convenient One-Pot Synthesis of Benzimidazoles and Benzoxazoles using N,N-Dimethylchlorosulfitemethaniminium Chloride as Condensing Agent.
Savita Kaul, Ajay Kumar, Bir Sain, A K Bhatnagar
Synthetic Communications 37(15), 2457-2460, 2007
18. Physico-chemical characterization and HDS catalysis on Zr-SBA-15 supported Mo, CoMo and NiMo catalysts.
G. Murali Dhar, Kapil Soni, G Muthu Kumaran, Shelu Garg, Manoj Kumar, J K Gupta, L D Sharma,
Abstracts of Papers, 234th ACS National Meeting, August 19-23, (2007)
19. Effect of Al-SBA-15 Support on Catalytic Functionalities of Hydrotreating Catalysts. II. Effect of Variation of Molybdenum and Promoter Contents on Catalytic Functionalities.
Kumaran, G. Muthu; Garg, Shelu; Soni, Kapil; Kumar, Manoj; Sharma, L. D.; Rao, K. S. Rama; Dhar, G. Murali.
Industrial & Engineering Chemistry Research 46(14), 4747-4754, 2007
20. Air pollution from road transport sector.
K A Subramanian, S K Singhal Mukesh Saxena,.
Journal of Indian Association for Environmental Management 34(1), 19-23, 2007

21. Pyrolysis of waste electrical and electronic equipment: effect of antimony trioxide on the pyrolysis of styrenic polymers
W.J. Hall¹, T. Bhaskar, N M N Merpati, A Muto, Y Sakata and P T William
Environmental Technology, 28, 1045-1054, 2007
22. An experimental study on pyrolysis of biomass
M F Parihar, M Kamil, H B Goyal, A K Gupta, A. K Bhatnagar,
Process Safety and Environmental Protection 85(B5) 458-465, Sep 2007
23. Catalytic degradation of polyolefins over hexagonal mesoporous silica: Effect of aluminum addition
S Chaianansutcharit, R Katsutath, A Chaisuwan, Thallada Bhaskar, Akio Nigo, Akinori Muto and Yusaku Sakata
Journal of Analytical and Applied Pyrolysis, 80(2) , 360-368, October 2007
24. The co-pyrolysis of flame retarded high impact polystyrene and polyolefins
William J. Hall, Nona Merry M. Mitan, Thallada Bhaskar, Akinori Muto, Yusaku Sakata and Paul T. Williams
Journal of Analytical and Applied Pyrolysis, 80(2),406-415, October 2007
25. Purification of dibenzothiophene monooxygenase from a recombinant Escherichia coli
Nidhi Gupta, D K Adhikari T. Stobdan, P K Roychowdhary, J K Deb
Biotechnology Letters 29 (10): 1465-1468 OCT 2007
26. Chapter 12 NMR studies of FCC feeds, catalysts and coke
Babita Behera, Siddharth S. Ray and I.D. Singh
Studies in Surface Science and Catalysis, Volume 166, 163-200, 2007
27. Fuel efficient and environment friendly automotive lubricant : The need of next generation vehicles
Devender Singh, Nishan Singh & S K Singhal
MOTORINDIA 89-92, November , 2007
28. Oxidative Desulfurization of HDS Diesel Using the Aldehyde/Molecular Oxygen Oxidation System.
T V Rao,; Bir Sain,;Sudha Kafola, Y K Sharma, S M Nanoti, M O Garg
Energy & Fuels 21 (6): 3420-3424, NOV-DEC 2007
29. Hydroisomerization of n-hexane over Mo-loaded Pt/H-Mor catalysts
R Kamble, M Singh, N Viswanadham
Reaction Kinetics And Catalysis Letters 92 (2), 205-211, Dec 2007
30. Partial liquid phase oxidation of microcrystalline waxes to produce emulsifiable waxes
Sanat Kumar, K M Agrawal, H U Khan, S P Nautiyal
Petroleum Sci and Tech 25(11-12) 1367-1374, Nov-Dec 2007
31. Physical properties of petroleum waxes. I. Effect of oil content
Sanat Kumar, K M Agrawal, H U Khan, S P Nautiyal
Petroleum Sci and Tech 25(11-12) 1531-1537, Nov-Dec 2007