

Complete List of Publications

Preparation and characteristics of carbon supported nickel catalysts for thermo-catalytic decomposition of methane for hydrogen production

Shailendra Tripathi, V V D N Prasad, M Kumar and L D Sharma

International Conference on Hydrogen and Hydrogen Storage: Methods and Materials

January 3-6, 2009

Indian Institute of Science, Bangalore

CO_x free hydrogen by methane decomposition over activated carbons

J Ashok, S N Kumar, A Venugopal, V D Kumari, **Shailendra Tripathi** and M

Subrahmanyam

Catalysis Communications 9(2008)164

Catalysis in nanocages

M Suyal, M S M Rawat, **Shailendra Tripathi** and L D Sharma

3rd Uttarakhand State Science Congress, November 11-12, 2008

Indian Institute of Technology, Roorkee

EPR based structural elucidation of Cu(II) complexes with isomeric benzoylpyridines

P Ghansiala, A Varshney and **Shailendra Tripathi**

2nd Uttarakhand State Science Congress, November 10-13, 2007

Kumaun University, Nainital

Thermocatalytic decomposition of methane: A sustainable route for H₂ production

Pratheep T, **Shailendra Tripathi**, L D Sharma, G M Dhar and M O Garg

Indo-US Seminar on Catalysis, April 22-24, 2007

Indian Institute of Petroleum, Dehradun

Catalysis for Green Chemistry

Shelu Garg, **Shailendra Tripathi**, L D Sharma, G M Dhar and M O Garg

National Seminar on Green Chemistry, February 21, 2007

M K P (PG) College, Dehradun

CO_x free hydrogen production by thermo catalytic decomposition of methane: Activity comparison over nickel and carbon based catalysts

Shailendra Tripathi, V V D N Prasad, M Kumar, L D Sharma, G Murali Dhar, M O

Garg, V D Kumari and M Subrahmanyam

International Workshop on Hydrogen Energy, November 5-9, 2006

University of Rajasthan, Jaipur

Hydrogen production from glycerol obtained during bio-diesel manufacture

S Darmora, A K Saxena, **Shailendra Tripathi** and A Datta

International Workshop on Hydrogen Energy, November 5-9, 2006

University of Rajasthan, Jaipur

Characterization of Co/Al₂O₃ based Fischer-Tropsch catalytic system: Effect of support and promoters

Shailendra Tripathi, V V D N Prasad, M Kumar, S Kumar, M Chand, L D Sharma and G Murali Dhar

National Workshop on Catalysis for Energy, February 23-25, 2006
Banaras Hindu University, Varanasi

Stability of Pt-Ba/Al₂O₃ NO_x storage-reduction DeNO_x catalyst for automotive exhaust emissions

V S Dangwal, **Shailendra Tripathi**, B Lal, J K Gupta, S Kumar, L D Sharma and G Murali Dhar

National Workshop on Catalysis for Energy, February 23-25, 2006
Banaras Hindu University, Varanasi

Hydrogen production by thermo catalytic decomposition of methane for fuel cell applications – A novel concept to achieve green house gas free hydrogen economy

Shailendra Tripathi

IIP Internal Report (**NMITLI Project**) submitted to CSIR, 2006

Gas to liquids – A green technology for clean transportation fuels: Current status and future outlook

Shailendra Tripathi

IIP Internal Report (**Network Project**) submitted to CSIR, 2005

Modern microscopy methods: Tools for new insight into the surface characterization

Shailendra Tripathi and L D Sharma

National Seminar on VISION 2010: Analytical techniques, November 11, 2005
Indian Institute of Petroleum, Dehradun

Characterization of hydrotreating catalysts by low temperature oxygen chemisorption

V V D N Prasad, **Shailendra Tripathi**, B Lal, K S Rawat, L D Sharma and G Murali Dhar

National Workshop on Advances in Catalysis, January 6-7, 2004
Indian Institute of Technology, Chennai

Active catalytic ingredients: Suitability for DCC catalyst formulation

U Shanker, M Chand, R P Badoni, **Shailendra Tripathi**, K K Singh, M Kumar, B Lal, V V D N Prasad, S Suresh and V B Kapoor

5th International Petroleum Conference, January 9-12, 2003
Indian Oil Corporation Limited, New Delhi

Development of DCC catalyst(s) for enhanced olefins production

IIP Internal Report, RTD: CPA 2003

Fischer-Tropsch catalysis – An emerging technology for cleaner fuels

U Shanker and **Shailendra Tripathi**

National Symposium on New Horizons in Heterogeneous Catalysis, February 22-24, 2002
Banaras Hindu University, Varanasi

Analysis and testing of FCC catalyst from RPL, Jamnagar

Uma Shanker, K K Singh, R K Chauhan, M Kumar, S Suresh, N Atheya, S Singh, B Lal, V V D N Prasad, **Shailendra Tripathi**, M Chand, R P Badoni, S K Sharma, S N Sharma, L D Sharma and V B Kapoor

IIP Internal Report, RTD: CPA/104/2001

Configurational changes of several N-and O-bonded copper (II) halide complexes in aprotic solvents: An EPR, DRS and electrochemical study (Accepted)

Shailendra Tripathi

34th International Conference on Coordination Chemistry, July 9-14, 2000

University of Edinburgh, Scotland, UK.

Electronic and EPR spectral evidence for five coordinate copper (II) species in solution

Shailendra Tripathi

Indo-Russian ILTP Seminar on Trends in Chemical Sciences, January 24-25, 2000

University of Delhi, Delhi

Investigation of solid and solutions structure of several N-bonded copper (II) complexes by EPR spectroscopy

Shailendra Tripathi

International Conference on Chemistry, December 11-16, 1999

Indian Chemical Society, Calcutta.

EPR studies on a few alumina based transition metal catalysts

Lalji Dixit, **Shailendra Tripathi** and S M Dhir

5th National Symposium on Magnetic Resonance, February 23-26, 1999

Indian Institute of Petroleum, Dehradun

Electron paramagnetic resonance studies on copper (II) sulphate complexes with a few nitrogen and oxygen donors

Shailendra Tripathi and Bhavna Arora

5th National Symposium on Magnetic Resonance, February 23-26, 1999

Indian Institute of Petroleum, Dehradun

Examining heterogeneous catalysts using mossbauer spectroscopy

S R Bajaj, **Shailendra Tripathi**, G Murali Dhar and T S R Prasada Rao

14th National Symposium on Catalysis, December 16-18, 1998

Anna University, Chennai

X-ray diffraction studies on hexamethylenetetramine complexes with cobalt(II), nickel(II), copper(II) and zinc(II) nitrates

I S Ahuja and **Shailendra Tripathi**

Nat. Acad. Sci. Letter, (India) 15, 153 (1992)

Spectroscopic studies on copper(II) halide complexes with isomeric benzoylpyridines : Electronic and ESR spectral evidence for five - coordinate copper(II) species in solution

I S Ahuja and **Shailendra Tripathi**

Spectrochimica Acta, 48A, 759 (1992)

Synthetic and spectral studies on copper (II) chloride and bromide complexes with isomeric aminobenzonitriles

I S Ahuja and **Shailendra Tripathi**

Synth. React. Inorg. Met.-Org. Chem., 22, 1251, (1992)

Electron spin resonance studies on copper (II) sulphate complexes with some nitrogen donor ligands

I S Ahuja and **Shailendra Tripathi**

Indian J. Chem., 30A 1060 (1991)

X-ray diffraction studies on 4,4'-bipyridyl complexes with cobalt(II), nickel(II), zinc(II) and cadmium(II) thiocyanates

I S Ahuja and **Shailendra Tripathi**

Nat. Acad. Sci. Letter, (India) 14, 443 (1991)

Neutral, four-coordinate, tetrahedral manganese(II) species involving coordinated chloro, bromo and thiocyanato groups

I S Ahuja, **Shailendra Tripathi** and C L Yadava

Journal of Scientific Research (B.H.U.) 41C, 65 (1991)

An undergraduate laboratory experiment involving synthesis and spectroscopy of metal complexes

I S Ahuja and **Shailendra Tripathi**

Journal of Chemical Education 68, 681 (1991)

X-ray diffraction studies on copper(II) sulphate complexes with 2-, 3-, and 4-aminobenzonitriles.

I S Ahuja and **Shailendra Tripathi**

Cryst. Res. Technol., 26, K 19 (1991)

X-ray diffraction studies on pyrazine complexes with copper(II) chloride, bromide and sulphate

I S Ahuja and **Shailendra Tripathi**

Cryst. Res. Technol., 26, K 25 (1991)

X-ray diffraction studies on 4, 4'- bipyridyl complexes with cobalt(II), nickel (II), zinc(II) and cadmium(II) nitrates.

I S Ahuja and **Shailendra Tripathi**

Cryst. Res. Technol., 26, K 92 (1991)

X-ray diffraction study on an eight-coordinated uranium(VI) complex.

I S Ahuja and **Shailendra Tripathi**

Cryst. Res. Technol., 26, K 97 (1991)

Electron spin resonance studies on some copper (II) complexes with a few nitrogen donors derived from pyridine

I S Ahuja and **Shailendra Tripathi**

Spectrochimica Acta, 47A 637 (1991)

Crystal structure of manganese (II) chloride and thiocyanate complexes with 2-benzoylpyridine by XRD

I S Ahuja and **Shailendra Tripathi**

Cryst. Res. Technol., 25, K 265 (1990)

X-ray diffraction studies on copper (II) chloride and bromide complexes with 3-aminobenzonitriles

I S Ahuja and **Shailendra Tripathi**

Cryst. Res. Technol., 25, K 269 (1990)

A laboratory experiment for post-graduate chemistry class involving synthesis and infrared spectroscopy

I S Ahuja and **Shailendra Tripathi**

Chemistry Education 7, (2), 56 (1990)

Ligation behaviour of ethylenediamine : A model experiment for post-graduate chemistry students

I S Ahuja and **Shailendra Tripathi**

Chemistry Education 7, (4), 42 (1990)

Synthesis and characterization of silver (I) nitrate complexes with 2-, 3- and 4- cyano-pyridines and anilines

I S Ahuja, **Shailendra Tripathi** and C L Yadava

Synth. React. Inorg. Met.-Org. Chem., 20, 189 (1990)

Neutral three-coordinate complexes of mercury (II) involving coordinated thiocyanato groups

I S Ahuja, **Shailendra Tripathi** and C L Yadava

Synth. React. Inorg. Met.-Org. Chem., 20, 243 (1990)

Mercury (II) thiocyanate complexes with some bidentate ligands

I S Ahuja, C L Yadava, and **Shailendra Tripathi**

Asian J. Chem., 2, 180 (1990)

Synthesis and characterization of copper (II) sulphate complexes with 2-, 3- and 4- cyano- pyridines and anilines

I S Ahuja, **Shailendra Tripathi** and C L Yadava

Asian J. Chem., 2, 229 (1990)

Neutral three-coordinate complexes of mercury (II) cyanide with quinolin and isoquinoline

I S Ahuja, **Shailendra Tripathi** and C L Yadava

Nat. Acad. Sci. Letter, (India) 13, 23 (1990)

X-ray diffraction studies on dichloro-(2-aminobenzonitrile)-copper (II) complex

I S Ahuja and **Shailendra Tripathi**

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X-ray diffraction studies on isonicotinonitrile-oxide complexes with manganese (II) chloride, bromide and thiocyanate

I S Ahuja, **Shailendra Tripathi**, and C L Yadava

Cryst. Res. Technol., 25, K 169 (1990)

X-ray diffraction studies on 4-aminobenzonitrile complexes with copper(II) chloride and bromide

I S Ahuja and **Shailendra Tripathi**

Cryst. Res. Technol., 25, K 181 (1990)

X-ray diffraction studies on hexamethylenetetramine complexes with cobalt(II) and nickel(II) thiocyanates

I S Ahuja, **Shailendra Tripathi** and C L Yadava

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I S Ahuja, **Shailendra Tripathi** and C L Yadava

Asian J. Chem., 1, 384 (1989)

Some neutral three-coordinate complexes of mercury (II) halides and pseudohalides with N-methylnicotinamide

I S Ahuja, C L Yadava, and **Shailendra Tripathi**

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Synthesis and characterization of a ten-coordinated uranium (VI) complex

I S Ahuja, C L Yadava, and **Shailendra Tripathi**

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Coordination polymers of some uranyl salts involving 4,4'-bipyridyl, 4,4'-bipyridyl N,N'-dioxide, 1,3-bis-(4-pyridyl) propane and hexamethylene tetramine

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Asian J. Chem., 1, 195 (1989)

4-Cyanoaniline complexes with transition metal (II) halides

I S Ahuja, **Shailendra Tripathi** and C L Yadava

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Some three-coordinate complexes of cadmium (II)

I S Ahuja, **Shailendra Tripathi** and C L Yadava

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Synthesis and characterization of copper (II) chloride and bromide complexes with 2-, 3- and 4- cyanoanilines

I.S. Ahuja, C L Yadava and **Shailendra Tripathi**

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I S Ahuja, **Shailendra Tripathi** and C L Yadava

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Some neutral three-coordinate complexes of mercury (II)
I S Ahuja, C L Yadava and **Shailendra Tripathi**
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Synthesis and characterization of bis-(2-pyridyl-N-oxide) disulfide complexes with some uranyl salts
I S Ahuja, C L Yadava and **Shailendra Tripathi**
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Synthesis and characterization of pyrazinamide complexes with some uranyl salts
I S Ahuja, C L Yadava, and **Shailendra Tripathi**
Indian J. Chem., 27A, 171 (1988)

Synthesis and characterization of uranyl acetate complexes with some potentially bidentate ligands
I S Ahuja, C L Yadava and **Shailendra Tripathi**
Indian J. Chem., 26A, 792 (1987)

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C L Yadava, **Shailendra Tripathi** and I S Ahuja
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General Articles/ Reports

Energy Security to Energy Independence
Shailendra Tripathi and L D Sharma
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Shailendra Tripathi and M Sayanna'
Current Science, 84 (2003) 745

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Shailendra Tripathi, A S K Sinha and S N Upadhyay
Current Science, 82 (11) 1314 (2002)

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Chemical Business, 59, January 2002.

Future Directions in Hydrogen Management, Hydrocracking and Hydroprocessing for the Production of Quality Fuels and Lubes – A Report
Shailendra Tripathi, U Shanker, M Chand and V V D N Prasad
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Advancements in Instrumental Techniques: Shaping tomorrow's Petroleum Industry

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Molecular Materials are the Future

Shailendra Tripathi

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Trends in Photochemical Processes on Solid Surfaces

A S K Sinha, S N Upadhyay and **Shailendra Tripathi**

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An Astonishing Element - Plutonium
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Thesis Supervised

Physicochemical Studies on Carbon Supported Nickel Catalysts for Thermocatalytic
Decomposition of Methane for H₂ Production, M Tech
Pratheep T, 2007